

## **SYLVIA DAUNERT**

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### **EDUCATION**

- Ph.D. Bioanalytical Chemistry, May 1991, University of Barcelona, Barcelona, Spain.
- M.S. Medicinal Chemistry, August 1985, University of Michigan, Ann Arbor, Michigan.
- Licenciada en Grado, Pharmacy (PharmD), March 1982, University of Barcelona, Barcelona, Spain.

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### **PROFESSIONAL EXPERIENCE**

- Professor and Lucille P. Markey Chair, Department of Biochemistry and Molecular Biology, Miller School of Medicine, University of Miami, 2010-present
- President & Chair of the Board of Trustees, Biochemistry and Molecular Biology Foundation, 2010-present
- Associate Director, Dr. JT Macdonald Biomedical Nanotechnology Institute, University of Miami, 2011-present
- Associate Director for Research, Center for Complementary and Integrative Medicine, Miller School of Medicine, University of Miami, 2011-present
- Professor of Biological and Analytical Chemistry, Department of Chemistry, University of Kentucky, 2002-present
- Professor of Pharmaceutical Sciences, Department of Pharmaceutical Sciences, College of Pharmacy, University of Kentucky, 2002-present
- Founder iGlyko, Inc., 2008-present
- Founder, SenseOmics, Inc., 2005-present
- Founder, ChipRx, Inc., 2000-present.
- Associate NSF-IGERT Faculty in Engineered Molecular and Biological Materials, 2007-present
- Associate NSF-IGERT Faculty Member in Multidisciplinary Program in Chemical Sensing Architectures, 1998-2004.
- Associate, Center of Membrane Sciences, University of Kentucky, 1994-present.
- Member, Barnstable Brown Kentucky Diabetes & Obesity Center, 2008-present
- Associate Professor of Biological and Analytical Chemistry, Department of Chemistry, University of Kentucky, 1998-2002.
- Associate Professor of Pharmaceutical Sciences, Department of Pharmaceutical Sciences, College of Pharmacy, University of Kentucky, 1998-2002.
- Assistant Professor of Biological and Analytical Chemistry, Department of Chemistry, University of Kentucky, 1994-98.
- Assistant Professor of Pharmaceutical Sciences, Department of Pharmaceutical Sciences, College of Pharmacy, University of Kentucky, 1994-98.
- Assistant Research Professor, Department of Chemistry, University of Kentucky, 1990-93.
- Research Fellow, Department of Chemistry, University of Kentucky, 1986-90.

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### **AWARDS AND DISTINCTIONS**

- Barcelona Institute of Science and Technology, Appointed to the Board of Trustees, 2016
- Inducted into the Real Academia Nacional de Farmacia of Spain, 2015
- 2015 Cancer Researcher of the Year (with S. Deo and E. Kobetz), Women's Cancer Association, UM
- 2014 Provost's Award for Scholarly Activity, University of Miami
- Elected Academic D'Honor, Reial Acadèmia de Farmàcia de Catalunya, 2014-present
- Graduate School Commencement Speaker, University of Miami, May 9, 2013
- Executive Leadership in Academic Medicine (ELAM) Fellow, 2012
- Lucille P. Markey Chair, Department of Biochemistry and Molecular Biology, Miller School of Medicine, University of Miami, 2010-present
- Albert D. and Elizabeth H. Kirwan Memorial Prize, 2009
- The 2009 Bill Barfield Award, Kentucky Water Resources Research Institute, 2009
- Wethington Award, University of Kentucky, 2010
- Wethington Award, University of Kentucky, 2009
- Wethington Award, University of Kentucky, 2008

- Wethington Award, University of Kentucky, 2007
- Distinguished Professor, AMC/FUMEC, Instituto Politécnico Nacional, Mexico, 2007
- Wethington Award, University of Kentucky, 2006
- University Research Professor Award, University of Kentucky, 2005-2006
- Distinguished Professor, College of Arts & Sciences, University of Kentucky, 2005-2006
- Wethington Award, University of Kentucky, 2005
- Wethington Award, University of Kentucky, 2004
- Gill Eminent Professorship, College of Arts & Sciences, University of Kentucky, 2002-present
- Honorable Order of Kentucky Colonels, 2003
- Special Creativity Award, National Science Foundation, 2002
- A. F. Findeis Award, Division of Analytical Chemistry, American Chemical Society, 2001.
- Lilly Award in Analytical Chemistry, 1997-1998
- Cottrell Scholar Award, Research Corporation, 1997
- National Science Foundation-CAREER Award, 1995
- The Van Slyke Society Research Award, American Association for Clinical Chemistry, 1992
- Juan Abelló Pascual Award in Biochemistry, Accésit, Spanish Royal Academy of Doctors, 1992
- Summa Cum Laude, Ph.D. Dissertation, University of Barcelona, Barcelona, Spain, 1991
- Fulbright Scholar, 1983-85

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## PROFESSIONAL ACTIVITIES

- Executive Editor, Analytical Biochemistry, 2003-present
- Editorial Committee, Annual Reviews in Analytical Chemistry, 2011-present
- Editorial Board, CELLR4, 2013-present
- Editor, Analytical and Bioanalytical Chemistry, 2001-2015
- Member, Board of Trustees, Barcelona Institute of Technology, 2016-present
- Advisory Board, Pathfinder Ventures, 2012-present
- Scientific Advisory Board, Institut Català de Nanotecnologia, 2009-present
- Scientific Advisory Board, Berg Pharma, 2012-present
- Scientific Advisory Board, Akron Biotech, 2013-present
- Miami Winter Symposium, a Nature Conference, Organizing Committee Member, 2010-present
- Association of Medical and Graduate Departments of Biochemistry, 2010-present
- Board of Directors, iGlyko, Inc., 2008-present
- Scientific Advisory Board, iGlyko, Inc., 2008-present
- NIH, College of CSR Reviews, Member, 2010-present
- NASA Ames, Member of the Astrobionics Scientific Advisory Board, 2006-present.
- International Society for Bioluminescence and Chemiluminescence, Advisory Board, 2001-present
- XIII International Symposium on Luminescence Spectroscopy, Scientific Committee Member, 2007-2009
- Opponent, Tampere University of Technology, Finland, September 7, 2012
- NIH, Biomaterials and Biointerfaces-BMBI, La Jolla, CA, February 5-6, 2016
- NIH, Biomaterials and Biointerfaces-BMBI, Arlington, VA, October 14-15, 2015
- NSF- CHE-CMI CAREER Panel, October 5-6, 2015
- NIH, NIH-SPARC/ETTN-B(54) Study Section, July 14, 2015
- NIH, Biomaterials and Biointerfaces-BMBI, San Francisco, CA, Study Section Member 2015-2021
- NIH, Biomaterials and Biointerfaces-BMBI, San Francisco, CA, February 6, 2014
- NIH, IMST 15 Cell, Molecular and Computational Biology, Editorial Board Member, November 8, 2012
- NIH, Director's Innovation Award Panel Member, 2012.
- NIH, Special Topics: Bioengineering Sciences and Technology, August 10, 2012
- NIH, Director's Pioneer Award, Panel Member, 2011
- NIH-NSF, Interface of the Life and Physical Sciences BST-M Study Section, October 17, 2011
- NIH, Enabling Bioanalytical & Imaging Technologies Study Section, Chair, February 17, 2011
- NIH Instrumentation and Systems Development Study Section, January 27-28, 2011
- NIH Bioengineering Research Grants Study Section, January 27-28, 2011
- NIH Special Panel Reviews: Challenge Grants Panel 4, July 20-21, 2009
- NIH Special Panel Reviews: Chemistry and Biophysics Competitive Revisions A, July 20-21, 2009
- NIH Enabling Bioanalytical and Biophysical Technologies (EBT) Study Section, 2004-2009
- NIH Bioanalytical, Engineering and Chemistry (BECM) Study Section, 2004
- Editorial Advisory Board, Bioconjugate Chemistry, 2002-present.
- Editorial Advisory Board, Fresenius' Journal of Analytical Chemistry, 1999-2002
- Editorial Advisory Panel, A Pages, Analytical Chemistry, 2000-2003

- Editorial Advisory Board, *Talanta*, 2001-2004
- Division of Analytical Chemistry, Awards Committee Member, American Chemical Society, 1995-1998, 2001-2009
- NanoTech 2004, Scientific Organizing Committee Member
- American Chemical Society, Division of Analytical Chemistry, Education Committee Chair, 1997-2004
- Division of Analytical Chemistry, Education Committee Member, American Chemical Society, 1995-2004
- Executive Committee Member, International Chemistry Celebration Committee, American Chemical Society, 1995-2000
- International Chemical Chapters Subcommittee Chairman, American Chemical Society, International Activities Committee, 1992-1999
- Executive Committee Member, International Activities Committee, American Chemical Society, 1991-1999
- Executive Committee Member, Younger Chemists Committee, American Chemical Society, 1987-1995
- Associate, International Activities Committee, American Chemical Society, 1990
- Symposia and National Meetings Subcommittee Chairman, American Chemical Society Younger Chemists Committee, 1988-1990
- Nominating Committee, American Chemical Society, Lexington Section, 1988

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## **OTHER PROFESSIONAL ACTIVITIES**

### **Symposia Organized and/or Chaired**

- "Career Opportunities for International Students", Third Chemical Congress of North America and 196th ACS National Meeting, June 6, 1988, Toronto, Canada.
- "Eminent Chemists Younger Chemists Get-Together" (with A. Butler), Third Chemical Congress of North America and 196th ACS National Meeting, June 5, 1988, Toronto, Canada.
- "Getting a First Job" (with P. Tucker), 197th ACS National Meeting, April 1989, Dallas, TX.
- "Frontiers in Analysis", 198th ACS National Meeting, September 12, 1989, Miami Beach, FL.
- "Starting a Career in Chemistry: Academia vs. Industry" (with P. Tucker), 199th ACS National Meeting, April, 1990, Boston, MA.
- "Eminent Chemists Younger Chemists Get-Together", Fourth Chemical Congress of North America and 202nd ACS National Meeting, August 25, 1991, New York, NY.
- "Getting a First Job" (with P. Tucker), 204th ACS National Meeting, August 25, 1992, Washington, D.C.
- "Balancing Dual Careers in Chemistry and Family" (with C. Grissom), 206th ACS National Meeting, August 23, 1993, Chicago, IL.
- "Nitrogen Fixation and Nitrogenases" (with M. S. Meier, J. P. Selegue, and V. Majidi), 20th Naff Symposium on Chemistry and Molecular Biology, April 4, 1994, Lexington, KY.
- "Biofunctional Membranes and Biomaterials" (with L. G. Bachas, P. Bummer, and D. A. Butterfield), 21st Naff Symposium on Chemistry and Molecular Biology, April 12, 1995, Lexington, KY.
- "Institute-Bioanalytical Chemistry: Selectivity: Microdialysis, Enzymes, Antibodies", 1995 Pittsburgh Conference, March 6, 1995, New Orleans, LA.
- "Institute-Bioanalytical Chemistry: Bioseparations", 1996 Pittsburgh Conference, March, 1996, Chicago, IL.
- "Biochemistry of RNA" (with D. A. Butterfield), 22nd Naff Symposium on Chemistry and Molecular Biology, April 12, 1996, Lexington, KY.
- "The Role of Combinatorial Chemistry in Drug Design" (with A. Cammers-Goodwin), 23rd Naff Symposium on Chemistry and Molecular Biology, April 8, 1997, Lexington, KY.
- "Bioanalytical: Binding Assays", 1998 Pittsburgh Conference, March 2, 1998, New Orleans, LA.
- "I. M. Kolthoff Enrichment Awards, Poster Session, Division of Analytical Chemistry", 215th ACS National Meeting, March 29, 1998, Dallas, TX.
- "Synthetic Estrogens: Implications in Health and the Environment" (with L. G. Bachas and L. Robertson), 24th Naff Symposium on Chemistry and Molecular Biology, April 13, 1998, Lexington, KY.
- "I. M. Kolthoff Enrichment Awards, Poster Session, Division of Analytical Chemistry", 216th ACS National Meeting, August 23, 1998, Boston, MA.
- "Novel Methodological Approaches III", 1999 Pittsburgh Conference, March 9, 1999, Orlando, FL.
- "I. M. Kolthoff Enrichment Awards, Poster Session, Division of Analytical Chemistry", 217th ACS National Meeting, March 21, 1999, Anaheim, CA.
- National Institutes of Dental and Craniofacial Research-Workshop on Oral Diagnostics, September 1999, Airlie, VA.
- "New Approaches in Biomolecular Recognition", The International Society for Optical Engineering, September 22, 1999, Boston, MA.
- "I. M. Kolthoff Enrichment Awards, Poster Session, Division of Analytical Chemistry", 218th ACS National Meeting, March 26, 2000, San Francisco, CA.

- "Luminescence in Biosensor Design", 11th International Symposium on Bioluminescence & Asilomar Conference Grounds, September 6-10, 2000, Monterey, CA.
- "Recombinant Proteins and Cells in Analytical Chemistry", The 2000 International Chemical Congress of Pacific Basin Societies, December 14-19, 2000, Honolulu, HI.
- "I. M. Kolthoff Enrichment Awards, Poster Session, Division of Analytical Chemistry", 219th ACS National Meeting, April 4, 2001, San Diego, CA.
- "Chemical and Biological Sensors Materials and Devices: Sensing with Bilayers, Cells, and Polymers", Materials Research Society Meeting, April 4, 2002, San Francisco, CA.
- "I. M. Kolthoff Enrichment Awards, Poster Session, Division of Analytical Chemistry", 221st ACS National Meeting, April 2002, Orlando, FL.
- "Pfizer Awards, Poster Session, Division of Analytical Chemistry", 222nd ACS National Meeting, August 2002, Boston, MA.
- "Biosensors and Sensors: Bacteria-Based and Cell-Based Sensors", Symposium Division of Analytical Chemistry", 227th ACS National Meeting, March 17, 2005, San Diego, CA.
- One-Day Mini-Symposium on Nanotechnology and Biomedicine: "Prospects of Nanotechnology in Biomedicine", Speaker: Dr. Marc J. Madou, October, 2005, Lexington, KY.
- Scientific Committee, XIII International Symposium on Luminescence Spectroscopy (ISLS 2008), Bologna, Italy.
- Organizer and Co-Chair with Marc J. Madou, "Novel Materials in Sensing", "Symposium on Bioelectronics, Biointerfaces, and Biomedical Applications", JECS, Electrochemical Society Annual Meeting, San Francisco, CA, May 26, 2009.
- Organizer and Co-Chair with Marc J. Madou, "Biomedical Applications", "Symposium on Bioelectronics, Biointerfaces, and Biomedical Applications", JECS, Electrochemical Society Annual Meeting, San Francisco, CA, May 27, 2009.
- Panelist, "Breaking the Glass Ceiling: Women in Science, Technology, and Medicine", Conference on Women in Higher Education, Minneapolis, MN, October 7-8, 2010.
- Co-Organizer and Co-Chair, "Discovery Science Grand Rounds", Miller School of Medicine, University of Miami, 2010-present
- Panelist, "5th Annual Forum on Women's Health", Fort Lauderdale, FL; April 2011.
- Panelist, "Bipartisan Policy Center's Nutrition and Physical Activity Initiative Forum", Coral Gables, FL; April 2011
- Miami Winter Symposium, a Nature Conference, Organizing Committee Member, 2011-present
- Miami Winter Symposium, a Nature Conference, Organizing Committee Member, "Epigenetics", Miami, FL, February 2011
- "Celebrating You! Women Leaders in Science and Medicine", Miami Executive Leadership in Academic Medicine (MELAM), Panel, Founder, Organizer and Panelist of MELAM, Miami, FL, January 26, 2012.
- Miami Winter Symposium, a Nature Conference, co-Organizer, "Nanotechnology in Biomedicine", Miami, FL, February 26-29, 2012.
- Miami Winter Symposium, a Nature Conference, Organizing Committee Member, "Nutrition in Medicine", Miami, FL, February 10-13, 2013.
- Miami Winter Symposium, an Elsevier Conference, Organizing Committee Member, "The Molecular Basis of Brain Disorders", Miami, FL, January 26-19, 2014

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#### **OTHER**

- Director, "Summer Research Program for Undergraduates", National Science Foundation, 1992-1996. Over 50 undergraduate students participated in the program.
- NSF Panels: REU and CAREER Review Panels
- Invited Participant to the First NSF-Workshop on Chemical Sensors, Black Mountain, NY, 1997
- NASA Advanced Environmental Monitoring Control Panel, Jet Propulsion Laboratories, 1997
- NIH Panels, 1997-present
- NCI Review Panel 1998
- NIH Workshops: 1999 NIDCR-Workshop on Oral Diagnostics, Invited Participant and Moderator, 1999
- Invited Participant to the Second NSF-Workshop on Curricular Development in Analytical Sciences
- Invited Participant to the First and Second NSF-Workshop on Chemical Sensors
- Invited Participant to the First NSF-CAREER Awardees Symposium
- Invited Participant to the 1999 Symposium on "Analytical Instrumentation Challenges for the Next Millennium"
- Juvenile Diabetes Foundation Panels
- Invited Participant to Joint Conference from Department of Defense, NASA, The National Institute of Diabetes and Digestive and Kidney Disorders and JDRF: Advanced Planning Briefing to Industry (APBI) for Technology for Metabolic Monitoring (TMM) Program, May 21-23, 2002

- Grants reviewer for National Science Foundation, Department of Energy, Spanish Ministry of Education, National Research Council, National Research Council of Canada, Research Corporation, Environmental Protection Agency, National Institutes of Health, Juvenile Diabetes Foundation, Hong-Kong Research Council, Israeli Science Foundation, Italian Research Foundation, the Research Corporation
- Reviewer for Nature, Analytical Chemistry, Analytical Biochemistry, Bioconjugate Chemistry, Talanta, Mikrochimica Acta, Biotechnology Progress, Fresenius' Journal of Analytical Chemistry, Trends in Biotechnology, Accounts in Chemical Research, Analytica Chimica Acta, FEMS Microbiology Letters, Applied Biochemistry and Biotechnology, Environmental Science and Technology, Sensors & Actuators B, Analytical and Bioanalytical Chemistry.
- Biopharmaceutical Engineering Doctoral Program, University of Kentucky: Executive Committee Member, 1996-present
- Chemical Engineering Chair Review, University of Kentucky: Executive Committee Member, 1997
- Kentucky Water Resources Research Institute: Executive Committee Member, Committee on Research and Policy, 1998-present
- Lexington Campus Chancellor's Committee on Creating the Future as a Major Public Research University of Significance, Character, and Stature: Committee Member, 1997-1998
- Kentucky Water Resources Research Institute, Director Search Committee Member, 1998
- College of Engineering Review, University of Kentucky: Executive Committee Member, 1998, 1999
- Council on Graduate Education, University of Kentucky, 1999-2000
- Arts and Sciences Dean's Search, University of Kentucky, 2002-2003
- Executive Committee, Department of Chemistry, University of Kentucky, 2004-2005
- Office of Intellectual Properties Review Committee, University of Kentucky, 2006
- Distinguished Professor Committee, College of Arts & Sciences, University of Kentucky, 2004-2008
- Chair, Distinguished Professor Committee, College of Arts & Sciences, University of Kentucky, 2007
- Bio-Inspired Nanotechnologies Cluster Hires, Chair, Search Committee, University of Kentucky, 2006-2007
- Bio-Inspired Nanotechnologies Cluster Hires, Chair, Search Committee, University of Kentucky, 2007-2008
- Distinguished Professor Selection Committee, College of Arts & Sciences, University of Kentucky, 2008
- Executive Committee, NSF-IGERT in Engineered Molecular and Biological Materials, 2008-2009
- Organizing Committee, 18<sup>th</sup> Naff Symposium, 2008-2009
- Organizing Committee, First Wyatt Lecture on Environmental Sciences, November 4, 2008
- Chair Selection Committee, Chemical and Materials Engineering, College of Engineering, University of Kentucky, 2009
- Distinguished Professor Selection Committee, College of Arts & Sciences, University of Kentucky, 2010
- Albert D. and Elizabeth H. Kirwan Memorial Prize Selection Committee, 2010
- Biological Chemistry Search Committee, Department of University of Kentucky, 2009-2010
- Basic Sciences Leader, Miller School of Medicine, University of Miami, 2011-2012
- Discovery Sciences Seminar Series, Organizer, Miller School of Medicine, University of Miami, 2011-2012
- Dean's Research Cabinet, Miller School of Medicine, University of Miami, 2011-2012
- Dean's Leadership Executive Group, Miller School of Medicine, University of Miami, 2011-2012
- Women in Academic Medicine (WIAM), Miller School of Medicine, University of Miami, 2011-present
- Financial Shared Services Committee, Miller School of Medicine, University of Miami, 2012-2013
- Development Shared Services Committee, Miller School of Medicine, University of Miami, 2012-2013
- Executive Dean's for Research and Graduate Education Cabinet, Miller School of Medicine, University of Miami, 2012-present
- Sylvester Comprehensive Cancer Center, Scientific Committee, Miller School of Medicine, University of Miami, 2012-2014
- Miller School of Medicine DoD Champion, 2012-present
- Executive Committee, Dr. JT Macdonald Biomedical Nanotechnology Institute, 2012-present
- Medical Research Enterprise, Miller School of Medicine, University of Miami, 2012-present
- Sylvester Comprehensive Cancer Center, Recruitment Committee, Miller School of Medicine, University of Miami, 2012-present
- Faculty Impairment Committee, Miller School of Medicine, University of Miami, 2013-present
- Pediatrics Chair Search Committee, Miller School of Medicine, University of Miami, 2013-present
- Human Genetics Chair Search Committee, Miller School of Medicine, University of Miami, 2013-present
- Space Task Force, Miller School of Medicine, University of Miami, 2014-present
- Steering Committee, BERG Pharma/UM Innovations, 2014-present
- Faculty Affairs AdHoc Committee, University of Miami Miller School of Medicine, 2014-present
- SCCC Outstanding Cancer Researcher Award Selection Committee Member, 2014
- Advisory Committee, John P. Hussman Institute of Genetics, University of Miami Miller School of Medicine, 2011-Present
- Executive Committee, DCFAR, University of Miami Miller School of Medicine, 2011-Present

- Scientific Advisory Council for the Conte Center, University of Miami Miller School of Medicine, 2011-Present
- Awards Committee, University of Miami Miller School of Medicine, 2014-Present
- Committee Member, Provost's Award for Scholarly Activity, University of Miami, 2014
- Committee Member, Chair of Pediatrics Search, University of Miami Miller School of Medicine, 2014-2015
- Committee Member, Chair of Human Genetics Search, University of Miami Miller School of Medicine, 2014-2015
- Judge, Department of Medicine Research Day, March, 2015
- Committee Member, Chief of Endocrinology Search, University of Miami Miller School of Medicine, 2015
- Committee Member, Provost's Award for Scholarly Activity, University of Miami, 2015
- Research Cabinet Member, Executive Dean for Research and Graduate and Postgraduate Education, University of Miami Miller School of Medicine, 2012-present
- Judge, Department of Medicine Research Day, March 10, 2016
- Chair, Chair of Microbiology and Immunology Search, University of Miami Miller School of Medicine, 2016

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## RESEARCH PUBLICATIONS

### JOURNAL ARTICLES

1. C. D. Tsaltas, L. G. Bachas, S. Daunert, and M. E. Meyerhoff, "Homogeneous Enzyme-Linked Competitive Binding Assays Using Natural Binding Proteins: A Biological Gate", *BioTechniques* **5**, 148-151, 1987.
2. S. Daunert, L. G. Bachas, and M. E. Meyerhoff, "Homogeneous Enzyme-Linked Competitive Binding Assay for Biotin Based on the Avidin-Biotin Interaction", *Anal. Chim. Acta* **208**, 43-52, 1988.
3. P. K. Gupta, S. Daunert, L. L. Wotring, J. C. Drach, and L. B. Townsend, "Synthesis, Cytotoxicity, and Antiviral Activity of some Acyclic Analogs of the Pyrrolo[2,3-d]-pyrimidine Nucleoside Antibiotics Tubercidin, Toyocamycin and Sangivamycin", *J. Med. Chem.*, **32**, 402-408, 1989.
4. S. Daunert and L. G. Bachas, "Anion-Selective Electrode Based on a Hydrophobic Vitamin B<sub>12</sub> derivative", *Anal. Chem.* **61**, 499-503, 1989.
5. S. Daunert, A. Witkowski, and L. G. Bachas, "Polymer Membrane-Based Biosensors Using Vitamin B<sub>12</sub> Derivatives", *Prog. Clin. Biol. Res.* **292**, 215-225, 1989.
6. T. L. Blair, S. Daunert, and L. G. Bachas, "Naphtho-Crown Ethers as Ionophores in Ion-Selective Electrodes", *Anal. Chim. Acta* **222**, 253-261, 1989.
7. S. Daunert, B. R. Payne, and L. G. Bachas, "Pyruvate Carboxylase as a Model for Oligo Substituted Enzyme-Ligand Conjugates in Homogeneous Enzyme Immunoassays", *Anal. Chem.* **61**, 2160-2164, 1989.
8. S. Daunert, L. G. Bachas, G. S. Ashcom, and M. E. Meyerhoff "Continuous On-Line Monitoring of Biomolecules Based on Automated Homogeneous Enzyme-Linked Competitive Binding Assays", *Anal. Chem.* **62**, 314-318, 1990.
9. S. Daunert and L. G. Bachas, "Ion-Selective Electrodes Using an Ionophore Covalently Attached to Carboxylated Poly(vinyl chloride)", *Anal. Chem.* **62**, 1428-1431, 1990.
10. A. Florido, S. Daunert, and L. G. Bachas, "Effect of Proteins on the Response of Anion-Selective Electrodes Based on Vitamin B<sub>12</sub> Derivatives", *Electroanalysis* **3**, 177-182, 1991.
11. J. Bricker, S. Daunert, L. G. Bachas, and M. Valiente, "Selective Electrodes for Silver and Anions Based on Polymeric Membranes Containing Complexes of Triisobutyl Phosphine Sulfide with Silver", *Anal. Chem.* **63**, 1585-1589, 1991.
12. S. A. O'Reilly, S. Daunert, and L. G. Bachas, "Nitrogen Oxide Gas Sensor Based on a Nitrite-Selective Electrode", *Anal. Chem.* **63**, 1278-1281, 1991.
13. S. Daunert, S. Wallace, A. Florido, and L. G. Bachas, "Anion-Selective Electrodes Based on Electropolymerized Porphyrin Films", *Anal. Chem.* **63**, 1676-1679, 1991.
14. M. K. Freeman, S. Daunert, and L. G. Bachas, "Biochemical Postcolumn Reaction Detection in Liquid Chromatography", *LC-GC* **10**, 112-118, 1992.
15. M. S. Barbarakis, S. Daunert, and L. G. Bachas, "Effect of Different Binding Proteins on the Detection Limits and Sensitivity of Assays Based on Biotinylated Adenosine Deaminase", *Bioconjugate Chem.* **3**, 225-229, 1992.
16. M. S. Barbarakis, W. G. Qaisi, S. Daunert, and L. G. Bachas, "Observation of 'Hook Effects' in the Inhibition and Dose-Response Curves of Biotin Assays Based on the Interaction of Biotinylated Glucose Oxidase with (Strept)Avidin", *Anal. Chem.* **65**, 457-460, 1993.
17. A. Witkowski, S. Daunert, M. S. Kindy, and L. G. Bachas, "Enzyme-Linked Immunosorbent Assay for an Octapeptide Based on a Genetically Engineered Fusion Protein", *Anal. Chem.* **65**, 1147-1151, 1993.
18. C. Palet, M. Muñoz, S. Daunert, L. G. Bachas, and M. Valiente, "Vitamin B<sub>12</sub> Derivatives as Anion Carriers in Transport Through Supported Liquid Membranes and Correlation with Their Behavior in Ion-Selective Electrodes", *Anal. Chem.* **65**, 1533-1536, 1993.
19. T. L. Blair, J. R. Allen, S. Daunert, and L. G. Bachas, "Potentiometric and Fiber Optic Sensors for pH Based on an Electropolymerized Cobalt Porphyrin", *Anal. Chem.* **65**, 2155-2158, 1993.
20. S. Daunert, J. Bricker, W. Dunaway, A. Florido, L. G. Bachas, M. Muñoz, and M. Valiente, "Iodide-Selective Electrodes Based on a Mercury-Triisobutylphosphine Sulfide Complex", *Electroanalysis* **5**, 839-843, 1993.

21. A. Witkowski, S. Ramanathan, and S. Daunert, "Bioluminescence Binding Assay for Biotin with Attomole Detection Based on Recombinant Aequorin", *Anal. Chem.* **66**, 1837-1840, 1994.
22. S. Daunert, M. E. Meyerhoff, and L. G. Bachas, "Heterogeneous Enzyme-Linked Competitive Binding Assay for Folate Based on Potentiometric Detection and Adenosine Deaminase", *Quim. Anal.* **13**, 148-151, 1994.
23. A. Witkowski, S. Daunert, M. S. Kindy, and L. G. Bachas, "Preparation of  $\beta$ -Galactosidase Conjugates for Competitive Binding Assays by Post-Translational Modification of Recombinant Proteins", *Anal. Chem.* **67**, 1301-1306, 1995.
24. J. R. Allen, A. Florido, S. D. Young, S. Daunert, and L. G. Bachas, "Nitrite-Selective Electrode Based on an Electropolymerized Cobalt Phthalocyanine", *Electroanalysis* **7**, 710-713, 1995.
25. S. Díez, P. Zhou, M. Valiente, and S. Daunert, "Immobilized Soft-Metal Affinity System for Amino Acids Based on an 8-Hydroxyquinoline-Pd(II) Complex: Characterization Using Glycine as a Model", *Anal. Chim. Acta* **315**, 339-345, 1995.
26. E. Hernández, A. Witkowski, S. Daunert and L. G. Bachas, "Potentiometric Enzyme Electrodes for Urea Based on Electrochemically Prepared Polypyrrole Membranes", *Mikrochim. Acta* **121**, 63-72, 1995.
27. N. G. Hentz, V. Vukasinovic, and S. Daunert, "Affinity Chromatography for Recombinant Peptides/Proteins Based on a Calmodulin Fusion Tail", *Anal. Chem.* **68**, 1550-1555, 1996.
28. W. Huang, A. Feltus, A. Witkowski, and S. Daunert, "Homogeneous Bioluminescence Competitive Binding Assay for Folate Based on a Coupled Glucose-6-phosphate Dehydrogenase-Bacterial Luciferase System", *Anal. Chem.* **68**, 1646-1650, 1996.
29. N. G. Hentz, and S. Daunert, "Bifunctional Fusion Proteins of Calmodulin and Protein A as Affinity Ligands in Protein Purification and in the Study of Protein-Protein Interactions", *Anal. Chem.* **68**, 3939-3944, 1996.
30. D. Scott, S. Ramanathan, W. P. Shi, B. P. Rosen, and S. Daunert, "Genetically Engineered Bacteria: Electrochemical Sensing Systems for Antimonite and Arsenite", *Anal. Chem.* **69**, 16-20, 1997.
31. C. Palet, M. Muñoz, M. Valiente, T. Cynkowski, S. Daunert, and L. G. Bachas, "Selective Membrane Transport of Dicarboxylic Acids in their Neutral form by a Synthetic Receptor Containing Amidopyridine Groups", *Anal. Chim. Acta* **343**, 287-294, 1997.
32. A. Grosvenor, C. Crofcheck, K. Anderson, D. Scott, and S. Daunert, "Calibration of Micropipets Using the Bioluminescent Protein Aequorin", *Anal. Chem.* **69**, 3115-3118, 1997.
33. S. Ramanathan, W. P. Shi, B. P. Rosen, and S. Daunert, "Sensing Antimonite and Arsenite at the Subattomole Level with Genetically Engineered Bioluminescent Bacteria", *Anal. Chem.* **69**, 3380-3384, 1997.
34. M. Ensor, S. Ramanathan, D. L. Scott, and S. Daunert, "Engineered Bacteria Can Detect Toxic Metals", *Waterworks* **3**, 1-4, 1997.
35. V. Schauer-Vukasinovic, L. Cullen, and S. Daunert, "Rational Design of a Calcium Sensing System Based on Induced Conformational Changes of Calmodulin", *J. Am. Chem. Soc.* **119**, 11102-11103, 1997.
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36. W. S. Foley, E. Hernández, A. Witkowski, J. R. Allen, S.-T. Yang, S. Daunert, and L. G. Bachas, "Electropolymerized Ion-Carriers in the Development of Biosensors", 205th ACS National Meeting, March 29, 1993, Denver, CO.
37. W. S. Foley, E. Hernández, A. Witkowski, S. Daunert, and L. G. Bachas, "The Development of Biosensors Using Solid State Enzyme Electrodes", 205th ACS National Meeting, March 30, 1993, Denver, CO.
38. A. Witkowski, S. Daunert, M. S. Kindy, and L. G. Bachas, "Genetically Engineered Enzyme Conjugates for Immunoassays of Peptides", 205th ACS National Meeting, March 30, 1993, Denver, CO.
39. C. Palet, M. Muñoz, S. Daunert, L. G. Bachas, and M. Valiente, "Transport of Dicarboxylic Acids Across Supported Liquid Membranes Based on Host-Guest Principles", XVIII Annual Congress, III Italian-Spanish Congress on Thermodynamics of Metal Complexes, June 8, 1993, Rome, Italy.
40. S.-T. Yang, J. R. Allen, T. L. Blair, A. Witkowski, S. Daunert, and L. G. Bachas, "Sensors based on Electrodeposited Pyrrole, Porphyrin, and Biotin Films", 206th ACS National Meeting, August 25, 1993, Chicago, IL.
41. C. Palet, M. Muñoz, S. Daunert, L. G. Bachas, and M. Valiente, "Anion Transport Across Supported Liquid Membranes Containing B<sub>12</sub> Derivatives as Ionophores", 1993 International Solvent Extraction Conference, September 14, 1993, York, England.
42. S. Díez, Z. Pu, L. G. Bachas, S. Daunert, and M. Valiente, "Immobilized Soft-Metal Ion Affinity Chromatography for Amino Acids; Basic Characterization of Stationary Phases", 6<sup>AS</sup> Jornadas de Analisis Instrumental, Expoquimia'93, October 22, 1993, Barcelona, Spain.
43. D. Garrett, A. Fultz, and S. Daunert, "A Biotin Assay Using Time-Resolved Fluorescence", 1993 Kentucky Academy of Sciences Meeting, November 1993, Georgetown, KY.
44. C. Palet, M. Muñoz, M. Valiente, S. Daunert, and L. G. Bachas, "Separation of Dicarboxylic Acids Based on Selective Facilitated Transport Across Supported Liquid Membranes", PITTCO'94, March 2, 1994, Chicago, IL.
45. A. Witkowski, S. Ramanathan, and S. Daunert, "A Highly Sensitive Homogeneous Assay for Biotin Based on Bioluminescent Recombinant Protein", PITTCO'94, March 2, 1994, Chicago, IL.
46. S. Ramanathan, A. Witkowski, and S. Daunert, "A Bioluminescence Binding Assay for Biotin with Attomole Detection Based on Recombinant Aequorin", 207th ACS National Meeting, March 13, 1994, San Diego, CA.
47. S. Ramanathan, J. C. Lewis, and S. Daunert, "Heterogeneous Binding Assay for an Octapeptide Based on a Fusion Protein with Recombinant Protein", PITTCO'95, March 6, 1995, New Orleans, LA.
48. W. Huang, A. Feltus, A. Witkowski, and S. Daunert, "Homogeneous Bioluminescence Binding Assay for Folate Based on a Coupled Glucose-6-Phosphate Dehydrogenase-Bacterial Luciferase System", PITTCO'95, March 6, 1995, New Orleans, LA.

49. V. Vukasinovic, N. G. Hentz, and S. Daunert, "Affinity Chromatography System for the Purification of Recombinant Peptides/Proteins Based on a Calmodulin Fusion Tail", PITTCO'95, March 7, 1995, New Orleans, LA.
50. M. Casado, M. Valiente, and S. Daunert, "Lead Selective Electrode Based on Quinaldic Acid Derivative", PITTCO'95, March 8, 1995, New Orleans, LA.
51. E. Hernández, A. Witkowski, S. Daunert, and L. G. Bachas, "Potentiometric Enzyme Electrode for Urea Based on Urease Covalently Attached to a Polypyrrole Film", PITTCO'95, March 8, 1995, New Orleans, LA.
52. A. Witkowski, M. S. Kindy, S. Daunert, and L. G. Bachas, "Preparation of Enzyme Conjugates for Competitive Binding Assays by Post-Translational Modification of Recombinant Proteins", PITTCO'95, March 6, 1995, New Orleans, LA.
53. A. Feltus, S. Ramanathan, and S. Daunert, "Cooperative Interaction of Immobilized Avidin with Aequorin-Biotin Conjugates: An Aequorin-Linked Assay for Biotin", 209th ACS National Meeting, April 2, 1995, Anaheim, CA.
54. J. C. Lewis, S. Ramanathan, and S. Daunert, "Bioluminescence Binding Assay for an Octapeptide Based on Recombinant Aequorin", 209th ACS National Meeting, April 2, 1995, Anaheim, CA.
55. V. Vukasinovic, N. G. Hentz, and S. Daunert, "Affinity Purification System for Recombinant Peptides/Proteins Based on a Calmodulin Fusion Tail", 209th ACS National Meeting, April 2, 1995, Anaheim, CA.
56. A. Feltus, S. Ramanathan, and S. Daunert, "Assay for Biotin with Attomole Detection Limit Based on the Interaction of an Aequorin-Biotin Conjugate with Immobilized Avidin on Different Surfaces", International Conference on Biofunctional Membranes, April 10, 1995, Lexington, KY.
57. J. C. Lewis, S. Ramanathan, and S. Daunert, "Bioluminescence Immunoassays Based on Fusion Proteins of Recombinant Aequorin", International Conference on Biofunctional Membranes, April 10, 1995, Lexington, KY.
58. S. Ramanathan, Z. Zheng, and S. Daunert, "Optical Sensors for Oxyanions Based on Recombinant Proteins and Bacteria", International Conference on Biofunctional Membranes, April 10, 1995, Lexington, KY.
59. V. Vukasinovic, N. G. Hentz, and S. Daunert, "Design of a Membrane Affinity Chromatography System Based on a Calmodulin Fusion Tail", International Conference on Biofunctional Membranes, April 10, 1995, Lexington, KY.
60. M. Casado, M. Valiente, and S. Daunert, "Lead Selective Electrode Based on a Liquid Polymeric Membrane Impregnated with a Quinaldic Acid Derivative", International Conference on Biofunctional Membranes, April 10, 1995, Lexington, KY.
61. E. Hernández, A. Witkowski, S. Daunert, and L. G. Bachas, "Polypyrrole-Based Biofunctional Membrane for the Development of a Potentiometric Urea Sensor", International Conference on Biofunctional Membranes, April 10, 1995, Lexington, KY.
62. J. C. Lewis, I. Kaneva, and S. Daunert, "Genetically Engineered Aequorin in Bioluminescence Immunoassays", 210th ACS National Meeting, August 20, 1995, Chicago, IL.
63. B. Mulberry, S. Ramanathan, Z. Zheng, and S. Daunert, "Bioluminescence Immunoassay for Theophylline Using Aequorin as the Label", 210th ACS National Meeting, August 20, 1995, Chicago, IL.
64. S. Ramanathan, W. Shi, B. P. Rosen, and S. Daunert, "Development of a Bacterial Based Optical Sensing System for Antimonite and Arsenite", 210th ACS National Meeting, August 20, 1995, Chicago, IL.
65. S. Ramanathan, W. Shi, B. P. Rosen, and S. Daunert, "Luminescence Sensing Systems Based on reporter Gene Strategies", FACSS XXII, October 16, 1995, Cincinnati, OH.
66. B. Mulberry, S. Ramanathan, Z. Zheng, and S. Daunert, "A Bioluminescence Assay for Theophylline Using Aequorin as the Label", FACSS XXII, October 17, 1995, Cincinnati, OH.
67. V. Vukasinovic, N. G. Hentz, and S. Daunert, "Calmodulin as a Fusion Tail for Affinity Chromatography", FACSS XXII, October 18, 1995, Cincinnati, OH.
68. V. Vukasinovic, N. G. Hentz, and S. Daunert, "Affinity Chromatography for Recombinant Peptides/Proteins Based on the Interaction Between Calmodulin and Phenothiazine", 1995 International Chemical Congress of Pacific Basin Societies, December 17-22, 1995, Honolulu, HI.
69. S. Daunert, "Inducing Selectivity in Electrochemical Sensors; From Ionophores to Genetically Engineered Bacteria", 1995 International Chemical Congress of Pacific Basin Societies, December 17-22, 1995, Honolulu, HI.
70. S. Daunert, "Exploring the Interface of Pharmaceutical Analysis and Molecular Biology: Design of Highly Sensitive and Selective Methods", February 6, 1995, Department of Medicinal Chemistry and Pharmaceutics, College of Pharmacy, University of Kentucky, Lexington, KY.
71. D. Scott, S. Ramanathan, Y. Liu, and S. Daunert, "Detection of Heavy Metals in Water Using Genetically Engineered Bacteria", 1996 Water Resources Institute Annual Symposium, February 13, 1996, Lexington, KY.
72. M. Casado, M. Valiente, and S. Daunert, "Optodes for Lead Based on a Selective Quinaldic Acid Derivative", PITTCO '96, March 5, 1996, Chicago, IL.
73. V. Vukasinovic, N. G. Hentz, and S. Daunert, "Affinity Chromatography Based on a Calmodulin Gene Fusion Tail", PITTCO '96, March 6, 1996, Chicago, IL.
74. S. Ramanathan, W. Shi, B. P. Rosen, and S. Daunert, "A Genetically Engineered Bacteria-Based Optical Sensing System for Antimonite", PITTCO '96, March 7, 1996, Chicago, IL.
75. L. L. E. Salins, S. Chen, and S. Daunert, "Development of an Optical Sensor for Phosphate Based on Phosphate-Binding Protein", 211th ACS National Meeting, March 24, 1996, New Orleans, LA.

76. S. Ramanathan, D. Scott, Y. Liu, W. Shi, B. P. Rosen, and S. Daunert, "Design of Sensing Systems for Antimonite Based on Reporter Gene Strategies", 211th ACS National Meeting, March 24, 1996, New Orleans, LA.
77. C. L. Crofcheck, H.-T. Chang, K. W. Anderson, and S. Daunert, "An Immunoassay Using Aequorin as a Bioluminescent Label to Measure Femtomole Levels of Intracellular Biomolecules", FASEB Annual Meeting, April 16, 1996, Washington, D.C.
78. H.-T. Chang, C. L. Crofcheck, A. L. Grosvenor, J. K. Lumpp, K. W. Anderson, and S. Daunert, "Single Cell Analysis Using Aequorin as a Bioluminescent Label", 212th ACS National Meeting, August 25, 1996, Orlando, FL.
79. W. Huang, L. Cai, A. Feltus, and S. Daunert, "Bioluminescence Binding Assay for Biotin Based on Genetically Induced Biotinylation of Aequorin", 212th ACS National Meeting, August 25, 1996, Orlando, FL.
80. S. Ramanathan and S. Daunert, "Highly Sensitive Bioluminescence Assays Based on Recombinant Aequorin", 212th ACS National Meeting, August 28, 1996, Orlando, FL.
81. C. L. Crofcheck, A. L. Grosvenor, K. W. Anderson, and S. Daunert, "Single Cell Analysis Using Aequorin as a Bioluminescent Label to Measure Femtomolar Levels of Intracellular Biomolecules", AIChE Annual Meeting, November 13, 1996, Chicago, IL.
82. J. L. Mercer, S. Ramanathan, and S. Daunert, "Development of a Sensing System for Antimonite Based on Genetically Engineered Bacteria and Green Fluorescent Protein", November 16, 1996, 82nd Annual Meeting of the Kentucky Academy of Science, University of Kentucky, Frankfort, KY.
83. J. Feliciano, J. Lewis, and S. Daunert, "Green Fluorescent Protein as a Label in the Development of an Immunoassay", 32nd ACS Junior Technical Meeting, University of Puerto Rico, March 1, 1997, Carolina, PR.
84. V. Vukasinovic and S. Daunert, "Fluorophore-Labeled Genetically Engineered Calmodulin in Biosensors for Calcium", PITTCO '97, March 17, 1997, Atlanta, GA.
85. E. C. Hernández, G. Schriff, D. D. Buchanan, and S. Daunert, "Recombinant Green Fluorescent Protein as a Label in Competitive Binding Assays", PITTCO '97, March 17, 1997, Atlanta, GA.
86. A. Feltus, W. Huang, S. Ramanathan, and S. Daunert, "Bioluminescence Binding Assays for Biotin Based on Aequorin: Comparison Between Chemical Biotinylation and Genetically Induced Biotinylation", PITTCO '97, March 17, 1997, Atlanta, GA.
87. S. Ramanathan, J. L. Mercer, R. Shetty, Y. Liu, and S. Daunert, "Sensing Analytes with Genetically Engineered Bacteria", 213rd ACS National Meeting, April 16, 1997, San Francisco, CA.
88. J. C. Lewis, J. Feliciano, and S. Daunert, "Green Fluorescent Protein as a Label in Assay Development", 213rd ACS National Meeting, April 16, 1997, San Francisco, CA.
89. S. Ramanathan, A. Feltus, J. C. Lewis, and S. Daunert, "Recombinant Aequorin as a Label in Highly Sensitive Bioluminescence Assays", 80th Canadian Society of Chemistry Conference, June 1, 1997, Windsor, Canada.
90. A. L. Grosvenor, C. L. Crofcheck, D. L. Scott, J. K. Lumpp, K. W. Anderson, and S. Daunert, "A Binding Assay Using Aequorin as a Bioluminescent Label to Measure Femtomolar Levels of Intracellular Biomolecules", Biomedical Engineering Society 1997 Annual Fall Meeting, October 2, 1997, San Diego, CA.
91. J. C. Lewis, J. Feliciano, and S. Daunert, "Green Fluorescent Protein as a Label in Assay Development", November 12, 1997, Life Sciences Day, University of Kentucky, Lexington, KY.
92. S. Ramanathan, R. Shetty, J. Mercer, and S. Daunert, "Sensing Analytes with Genetically Engineered Bacteria", November 12, 1997, Life Sciences Day, University of Kentucky, Lexington, KY.
93. J. Patel, V. Vukasinovic, and S. Daunert, "Perfusion Affinity Chromatography Based on a Calmodulin Fusion Tail", November 12, 1997, Life Sciences Day, University of Kentucky, Lexington, KY.
94. S. Daunert, "Optical Sensing Systems Based on Genetically Engineered Proteins and Cells", January 24, 1998, The International Society for Optical Engineering, San Jose, CA.
95. R. Conover, C. L. Crofcheck, A. L. Grosvenor, D. L. Scott, J. K. Lumpp, K. W. Anderson, and S. Daunert, "Detecting Biomolecules in Picoliter Volumes Using the Bioluminescence of Aequorin", PITTCO '98, March 2, 1998, New Orleans, LA.
96. J. C. Lewis, S. Matveev, S. Ramanathan, and S. Daunert, "Immunoassays Using as Labels the Naturally Luminescent Protein Aequorin, Obelin, and Green Fluorescent Protein", PITTCO '98, March 2, 1998, New Orleans, LA.
97. A. J. Feltus, N. G. Hentz, and S. Daunert, "Class-Selective Postcolumn Reaction Detection Method for Capillary Electrophoresis Based on the Streptavidin-Biotin Interaction", PITTCO '98, March 3, 1998, New Orleans, LA.
98. L. L. E. Salins, J. S. Lundgren, and S. Daunert, "Development of an Optical Sensor for Phosphate Based on the Phosphate Binding Protein", PITTCO '98, March 3, 1998, New Orleans, LA.
99. R. Shetty, S. Ramanathan, J. Wolford, and S. Daunert, "Bacterial Sensing System Using Green Fluorescent Protein as a Reporter: Whole Cell Based Monitoring System for Arabinose", PITTCO '98, March 3, 1998, New Orleans, LA.
100. Y. Liu, S. Ramanathan, J. L. Mercer, R. Shetty, and S. Daunert, "Sensing Analytes with Genetically Engineered Bacteria", 215th ACS National Meeting, March 29, 1998, Dallas, TX.
101. J. C. Lewis, S. Matveev, and S. Daunert, "Aequorin, Obelin, and Green Fluorescent Protein as Label in Assay Development", 215th ACS National Meeting, March 29, 1998, Dallas, TX.
102. J. Wininger, J. Wang, C. M. Ensor, and S. Daunert, "Fusion Proteins as a Label in Assay Development", 215th ACS National Meeting, March 29, 1998, Dallas, TX.

- 103.G. Schriff, V. Schauer-Vukasinovic, and S. Daunert, "Reversible Immobilization of Enzymes Using Calmodulin", 215th ACS National Meeting, March 29, 1998, Dallas, TX.
- 104.S. Ramanathan, A. J. Feltus, J. C. Lewis, and S. Daunert, "Recombinant Aequorin as a label in Highly Sensitive Bioluminescence Assays", Medical Diagnostics Symposium, 215th ACS National Meeting, August 24, 1998, Boston, MA.
- 105.S. Ramanathan, Y. Liu, R. Shetty, X. Guan, and S. Daunert, "Luminescence-Based Sensing Systems Employing Genetically Engineered Bacteria", 10th. International Symposium on Bioluminescence & Chemiluminescence, September 7, 1998, Bologna, Italy.
- 106.A. Grosvenor, R. Conover, J. K. Lump, S. Daunert, and K. W. Anderson, "Developing a Method for Analysis of Biological Molecules in Picoliter Volumes", AIChE 1998 Annual Meeting, November 15, Miami, FL.
- 107.J. Patel, L. G. Bachas, D. Bhattacharyya, and S. Daunert, "Reversible Immobilization of Enzymes on Membranes Based on a Calmodulin Fusion Tail", AIChE 1998 Annual Meeting, November 16, Miami, FL.
- 108.L. L. E. Salins, R. Ware, and S. Daunert, "Optical Sensing System for Glucose Based on Genetically Engineered Glucose/Galactose Binding Protein", PITTCON '99, March 9, 1999, Orlando, FL.
- 109.J. C. Lewis, J. A. Wining, U. Desai, S. Ramanathan, and S. Daunert, "A Bioluminescence Immunoassay for Protein C Using an Aequorin Fusion Protein", PITTCON '99, March 10, 1999, Orlando, FL.
- 110.Y. Liu, S. Ramanathan, and S. Daunert, "Antimonite Detection Using Genetically engineered Bacteria with the CobA Reporter Gene", PITTCON '99, March 10, 1999, Orlando, FL.
- 111.S. K. Deo, J. C. Lewis, and S. Daunert, "Assay for HIV-1 Protease Using Recombinant Aequorin as a Label", 216th ACS National Meeting, March 21, 1999, Anaheim, CA.
- 112.S. Shresta, L. L. E. Salins, C. M. Ensor, and S. Daunert, "Rational Design of an Optical Sensing System for Sulfate Based on Sulfate Binding Protein", 216th ACS National Meeting, March 21, 1999, Anaheim, CA.
- 113.J. C. Ball, D. L. Scott, J. Wang, S. Daunert, and L. G. Bachas, "Electrochemistry in a Nanovial System", 216th ACS National Meeting, March 21, 1999, Anaheim, CA.
- 114.J. Huntley, S. Ramanathan, and S. Daunert, "Development of a Rapid, Perfusion Chromatography Based Affinity Purification System Employing Calmodulin", 216th ACS National Meeting, March 21, 1999, Anaheim, CA.
- 115.K. J. Gregory, S. Daunert, and L. G. Bachas, "Oriented Immobilization Using Fusion Proteins", 216th ACS National Meeting, March 21, 1999, Anaheim, CA.
- 116.J. Wang, C. M. Ensor, G. J. Dubuc, N. Sarang, and S. Daunert, "Fusion Proteins of a Single Chain Antibody and Photoproteins for Assay development in the Detection of Salmonella Antigen", 216th ACS National Meeting, March 21, 1999, Anaheim, CA.
- 117.L. L. E. Salins, B. R. Wenner, and S. Daunert, "Fiber Optic Biosensor for Environmental Monitoring of Phosphate Based on the Analyte-Induced Conformational Change of Genetically Engineered Phosphate Binding Protein", 216th ACS National Meeting, March 21, 1999, Anaheim, CA.
- 118.V. Schauer-Vukasinovic, G. Schriff, and S. Daunert, "Reversible Immobilization of Enzymes on Surfaces", Materials Research Society, April 7, 1999, San Francisco, CA.
- 119.A. Grosvenor, R. Conover, A. J. Feltus, K. W. Anderson, and S. Daunert, "Miniaturization of Luminescence Assays: Detecting Biological Molecules in Picoliter Volumes", ACS Regional Meeting, June 21-25, 1999, Columbus, OH.
- 120.Q. Li, G. Sur, R. Babbitt, H. M. Davies, S. Daunert, "Developing a Novel Strategy of Plant Recombinant Protein Purification", 2nd International Molecular Farming Conference, August 28-September 1, 1999, London, Ontario, Canada.
- 121.L. G. Bachas, M. J. Madou, and S. Daunert, "Biomimetic Detection Schemes on the LabCD", NanoSpace 2000, January 26, 2000, Houston, TX.
- 122.P. M. Douglass, L. L. E. Salins, B. R. Wenner, S. Ramanathan, J. Lee, M. J. Madou, and S. Daunert, "Coupling Genetically Engineered Proteins and Microfluidics: Fluorescence Detection on the LabCD", American Institute of Chemical Engineers, March 3-5, 2000, Atlanta, GA.
- 123.J. C. Ball, D. L. Scott, J. K. Lump, J. Wang, L. G. Bachas, S. Daunert, "Electrochemistry in Nanovials Fabricated by Combining Screen Printing and Laser Micromachining", PITTCON 2000, March 13, 2000, New Orleans, LA.
- 124.A. Feltus, S. Daunert, "Detection of Biomolecules in pL Vials and in Single Cells", PITTCON 2000, March 15, 2000, New Orleans, LA.
- 125.M. Mirasoli, S. Deo, J.C. Lewis, S. Daunert, "Bioluminescence Immunoassay for Cortisol Using Recombinant Aequorin as a Label", PITTCON 2000, March 15, 2000, New Orleans, LA.
- 126.S. Deo, J. C. Lewis, S. Daunert, "Bioluminescence Detection of Proteolytic Bond Cleavage by Using Recombinant Aequorin", PITTCON 2000, March 15, 2000, New Orleans, LA.
- 127.L.L.E. Salins, E.S. Goldsmith, M. Ensor, S. Daunert, "Development of an Optical Sensing system for Nickel Based on the Ligand-Induced Conformational Change of Nickel binding Protein," PITTCON 2000, March 16, 2000, New Orleans, LA.
- 128.S. Shrestha, L.L.E. Salins, M. Ensor, S. Daunert. "Rational Design of a Sensing System for Sulfate Employing Fluorescently-Labeled Genetically Engineered Sulfate-Binding Protein", PITTCON 2000, March 16, 2000, New Orleans, LA.

- 129.R. S. Shetty, Y. Liu, S. Ramanathan, S. Daunert, "Fluorescence-Based Sensing System for Copper Using Genetically Engineered Yeast", PITTCON 2000, March 16, 2000, New Orleans, LA.
- 130.R. S. Shetty, S. Ramanathan, J. P. Garris, S. Daunert, "Bacteria Based Sensing System for Cadmium", 219th ACS National Meeting, March 26, 2000, San Francisco, CA.
- 131.A. Feltus, S. Daunert, "Design of a Sensing system for cAMP Using the Green fluorescent Protein", 219th ACS National Meeting, March 26, 2000, San Francisco, CA.
- 132.X. Guan, S. Ramanathan, R. S. Shetty, J. P. Garris, C. M. Ensor, L.G. Bachas, S. Daunert, "Chlorocatechol Detection Based on a *clc* Operon/Reporter Gene System", 219th ACS National Meeting, March 26, 2000, San Francisco, CA.
- 133.P. M. Douglass, L. L. E. Salins, B. R. Wenner, M. J. Madou, S. Daunert, "Development and Application of Genetically Engineered Reagents for Use in High-Throughput Screening of Pharmaceuticals", 219th ACS National Meeting, March 26, 2000, San Francisco, CA.
- 134.S. Shrestha, R.S. Shetty, S. Ramanathan, S. Daunert, Dual Analyte Detection System in Whole Cells Employing Genetically Modified Mutants of Green Fluorescent Protein", 219th ACS National Meeting, March 26, 2000, San Francisco, CA.
- 135.E. Dikici, J. Wang, and S. Daunert, "Fusion Proteins of a Single-Chain Antibody with the Green Fluorescent Protein and the Photoprotein Obelin for the Development of Immunoassays for a Salmonella Antigen", 219th ACS National Meeting, March 26, 2000, San Francisco, CA.
- 136.B. R. Wenner, P.M. Douglass, L.L.E. Salins, M.J. Madou, S. Daunert, "Development of a Fluorescence-Based Phosphate-Sensing Platform Utilizing a Genetically Engineered Phosphate-Binding Protein Entrapment Scheme", 219th ACS National Meeting, March 26, 2000, San Francisco, CA.
- 137.U. Desai, G. Sur, Q. Li, R. Babbitt, M. Davies, S. Daunert, "Expression and Affinity Purification of Recombinant Proteins in Transgenic Plants", 219th ACS National Meeting, March 26, 2000, San Francisco, CA.
- 138.J. Feliciano, Y. Liu, S. Ramanathan, S. Daunert, "Fluorescence-Based Sensing System for Antimonite and Arsenite using *cobA* as the Reporter Gene", 219th ACS National Meeting, March 26, 2000, San Francisco, CA.
- 139.S. K. Deo, J. C. Lewis, S. Daunert, "Immunoassays for Peptides Using C-Terminal Aequorin Fusion Proteins: Advantages in Bioanalysis", 219th ACS National Meeting, March 26, 2000, San Francisco, CA.
- 140.L. G. Puckett, J. C. Lewis, L. G. Bachas, S. Daunert, "Monitoring Intracellular Antibiotic Resistance Using a  $\beta$ -Lactamase/EGFP Fusion Protein", 219th ACS National Meeting, March 26, 2000, San Francisco, CA.
- 141.L. L. E. Salins, S. Daunert, "Reagentless Optical Detection of Glucose Using Genetically Engineered Galactose/Glucose Binding Protein", 219th ACS National Meeting, March 26, 2000, San Francisco, CA.
- 142.R. S. Shetty, X. Guan, S. Ramanathan, J. P. Garris, M. Ensor, L. G. Bachas, S. Daunert, "Bacterial Sensing System for Detection of Chlorocatechols", PCB Workshop on Recent Advances in the Environmental Toxicology and Health Effects of PCBs, April 9, 2000, Lexington, KY.
- 143.M. J. Madou, Y. Lu, S. Lai, J. Lee, S. Daunert "A Centrifugal Microfluidic Platform-A Comparison", Microtas, May 18, 2000, Enschede, Netherlands.
- 144.J. S. Feliciano, Y. Liu, S. Ramanathan, S. Daunert, "Whole Cell Sensing System Using *cobA* as the Reporter Gene", CMACS, May 17, 2000, Covington, KY.
- 145.L. G. Puckett, J. C. Lewis, L. G. Bachas, S. Daunert, "A Novel Approach to Monitoring Intracellular Antibiotic Resistance Using an EGFP Fusion Protein", CMACS, May 19, 2000, Covington, KY.
- 146.B. R. Wenner, P. M. Douglass, L. L. E. Salins, M. J. Madou, S. Daunert, "Development of a Fluorescent Phosphate Sensing Platform Using a Genetically Engineered Phosphate-Binding Protein in a Sol-Gel Entrapment Scheme" CMACS, May 19, 2000, Covington, KY.
- 147.E. Dikici, J. Wang, S. Daunert, "Fusion Protein of a Single-Chain Antibody with the Green Fluorescent Protein for the Development of an Immunoassay for a Salmonella Antigen." CMACS, May 19, 2000, Covington, KY.
- 148.P. M. Douglass, B. R. Wenner, G. Barrett, M. J. Madou, S. Daunert, "Design and Fabrication of a Compact Disc-Based Microfluidic Platform (the LabCD) for Use with Genetically-Engineered Reagents for Analyte Detection" CMACS, May 19, 2000, Covington, KY.
- 149.S. Deo, S. Daunert, "C-terminal Aequorin Modification: Applications in Binding Assays", CMACS, May 19, 2000, Covington, KY.
- 150.J. C. Ball, L. G. Bachas, A. Ersoz, S. Daunert, "Nanoliter-Range Electrochemical vials: A Versatile Chemical Sensing Platform", CMACS, May 19, 2000, Covington, KY.
- 151.A. Feltus, S. Daunert, "Design of a Sensing system for cAMP Using the Green fluorescent Protein", CMACS, May 19, 2000, Covington, KY.
- 152.U. Desai, G. Sur, Q. Li, R. Babbitt, S. Daunert, "Production and Purification of Genetically Modified Proteins from Transgenic Tobacco Plants", CMACS, May 19, 2000, Covington, KY.
- 153.R. S. Shetty, P. Shah, S. Ramanathan, J. Garris, S. Daunert, "Bacteria-Based Sensing for Detection of Cadmium", CMACS, May 19, 2000, Covington, KY.
- 154.S. Shrestha, R.S. Shetty, S. Ramanathan, S. Daunert, "Green Fluorescent Protein-Based Microbial Sensing System for the Simultaneous Detection of Sugar Analytes" CMACS, May 19, 2000, Covington, KY.



155. J. S. Feliciano, Y. Liu, S. Ramanathan, S. Daunert, "Novel Reporter Gene in a Reagentless Bacterial Sensing System", The Sixth World Congress on Biosensors, May 25, 2000, San Diego, CA.
156. J. C. Ball, L. G. Bachas, S. Daunert, "Electrochemical Nanovial Platform for Integrated Amperometric Enzyme-based Biosensors", The Sixth World Congress on Biosensors, May 24, 2000, San Diego, CA.
157. P. M. Douglass, B. R. Wenner, G. Barrett, P.-H. Hsu, M. J. Madou, S. Daunert, "Development and Application of Biosensing Systems for Use in High-Throughput Screening of Pharmaceuticals, Clinical Diagnostics, and Environmental Monitoring" The Sixth World Congress on Biosensors, May 24, 2000, San Diego, CA.
158. M. J. Madou, Y. Lu, S. Lai, Y. Juang, L. J. Lee, S. Daunert, "A Novel Design on a CD disc for 2-Point Calibration Measurement", 2000 Solid State Sensor & Actuator Workshop, June 8, 2000, Hilton Head, SC.
159. P. M. Douglass, B. R. Wenner, G. Barrett, P.-H. Hsu, M. J. Madou, S. Daunert, "The Integration of Novel Biosensing Systems and the LabCD: New Tools for use in High-Throughput Screening, Clinical Diagnostics, and Environmental Monitoring", The Eighth International Meeting on Chemical Sensors, July 4, 2000, Basel, Switzerland.
160. P. M. Douglass, J. D. Patel, K.-Q. He, L. G. Bachas, M. J. Madou, S. Daunert, "Biologically Inspired, Intelligent Muscle Material for Sensing and Responsive Delivery of Countermeasures", International Conference on Environmental Systems, July 13, 2000, Toulouse, France.
161. B. R. Wenner, P. M. Douglass, Y. Lu, S. Lai, Y. Juang, L. J. Lee, M. J. Madou, S. Daunert, "Biosensing on the CD Microfluidic Platform with Genetically Engineered Proteins", International Conference on Environmental Systems, July 13, 2000, Toulouse, France.
162. P. M. Douglass, B. R. Wenner, G. Barrett, P.-H. Hus, M. J. Madou, S. Daunert, "A Novel Approach to Drug Detection and Diagnostics Employing Genetically-Engineered Binding Proteins as Biosensing Elements on a Microfluidic Based Detection Platform", Federation of Analytical Chemistry and Spectroscopy Societies Annual Meeting, September 2000, Nashville, TN.
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164. S. K. Deo, J. C. Lewis, S. Ramanathan, R. Shetty, A. Grosvenor, K. W. Anderson, S. Daunert "Luminescent Reporter Proteins in the Development of Highly Sensitive Assays", Federation of Analytical Chemistry and Spectroscopy Societies Annual Meeting, September, 2000, Nashville, TN.
165. P. M. Douglass, B. R. Wenner, G. Barrett, M. J. Madou, L. G. Bachas, S. Daunert, "Genetically Engineered Binding Proteins: Development of Drug Detection Systems", The International Chemical Congress of the Pacific Basin Societies, December 18, 2000, Honolulu, Hawaii.
166. J. Feliciano, S. Ramanathan, R. S. Shetty, S. Daunert "Genetically-Engineered Bacterial Sensing Systems Based on Reporter Gene Technology: Antimonite and Arsenite Detection", The International Chemical Congress of the Pacific Basin Societies, December 18, 2000, Honolulu, Hawaii.
167. L. G. Puckett, J. C. Lewis, L. G. Bachas, S. Daunert, "Screening for Antibiotic Resistance Based on EGFP Fusion Proteins", The International Chemical Congress of the Pacific Basin Societies, December 18, 2000, Honolulu, Hawaii.
168. P. M. Douglass, B. R. Wenner, S. Shrestha, B. Sharma, S. Lai, M. J. Madou, S. Daunert, "Genetically Designed Biosensing Systems for High-Throughput Screening of Pharmaceuticals, Clinical Diagnostics, and Environmental Monitoring", The International Society for Optical Engineering, January 24, 2001, San Jose, CA.
169. B. R. Wenner, R. D. Johnson, P. M. Douglass, S. Lai, L. G. Bachas, M. J. Madou, S. Daunert, "Integrated Analysis Systems on a Compact Disc Microfluidic Platform", Nanospace Meeting, March 14, 2001, Galveston, TX.
170. L.G. Puckett, J.C. Lewis, L.G. Bachas, S. Daunert, "Development of an EGFP Fusion Protein for Monitoring Antibiotic Resistance", Pittsburgh Conference, March 8, 2001, New Orleans, LA.
171. S. Daunert, "Highly Sensitive and Selective Biosensing and Microanalytical Methods Based on Genetic Engineering Strategies", Nanogen, Inc., March 15, 2001 San Diego, CA.
172. P. M. Douglass, S. K. Deo, C. M. Ensor, M. J. Madou, S. Daunert, "Development of an Assay for 6-keto PGF1 $\alpha$  Employing 15-Hydroxyprostaglandin Dehydrogenase: Sensing Prostacyclin in Physiological Fluids", 221st ACS National Meeting, April 1, 2001, San Diego, CA.
173. B. R. Wenner, P. M. Douglass, M. J. Madou, S. Daunert, "Integration of Genetically Engineered Sensing Elements with a Compact Disc Fluidics Platform", 221st ACS National Meeting, April 1, 2001, San Diego, CA.
174. J. C. Ball, J. K. Lump, S. Daunert, and L. G. Bachas, "Nanoliter-Range Electrochemical Platform Suitable for the Production of Small-Volume Sensors", 221st ACS National Meeting, April 1, 2001, San Diego, CA.
175. B. V. Sharma, L. L. E. Salins, S. Daunert, "Development of a Reagentless Biosensing System for Glucose", 221st ACS National Meeting, April 1, 2001, San Diego, CA.
176. J. Feliciano, Y. Liu, S. Daunert, "Reporter Gene Technology in the Design of a Biosensing System for Arsenite", 221st ACS National Meeting, April 1, 2001, San Diego, CA.
177. R. S. Shetty, S. Ramanathan, Y. Liu, J. Wolford, P. Shah, S. Daunert, "Whole Cell-Based Sensing Systems for Metal Ions", 221st ACS National Meeting, April 1, 2001, San Diego, CA.

- 178.S. Shrestha, I.R. Paeng, S. K. Deo, S. Daunert, "Cysteine-Free Mutant of Aequorin: Application in the Development of Bioluminescence-Based Immunoassay Digoxin", 221st ACS National Meeting, April 1, 2001, San Diego, CA.
- 179.A. Feltus, S. Daunert, "Development of a Sensing System for cAMP Based on the cAMP Receptor Protein", 221st ACS National Meeting, April 1, 2001, San Diego, CA.
- 180.E. Dikici, S.K. Deo, S. Daunert, "Rational Design of a Fusion Protein for the Detection of Calcium and Calmodulin Antagonists" 221st ACS National Meeting, April 1, 2001, San Diego, CA.
- 181.U. Desai, S.K. Deo, M. Poon, S. Daunert, "Quantitative Detection of Prostacyclin Through a Sensitive, Bioluminescent Immunoassay", 221st ACS National Meeting, April 1, 2001, San Diego, CA.
- 182.L.G. Puckett, J.C. Lewis, L.G. Bachas, S. Daunert, "Study of  $\beta$ -Lactamase Inhibitors Using an EGFP Fusion Protein" 221st ACS National Meeting, April 1, 2001, San Diego, CA.
- 183.J. Patel, N. Hentz, L. Bachas, D. Bhattacharyya, and S. Daunert, "Design of New Membrane Systems for Proteomics Based on the Reversible Interaction Between Small Molecules and Genetically Engineered Proteins", 12th Annual Meeting of the North American Membrane Society, May 18, 2001, Lexington, KY.
- 184.J. D. Ehrick, S. F. Peteu, L. Moschou, L. G. Bachas, V. Gavalas, M. J. Madou, S. Daunert, "Artificial Muscle-based Microactuators for Reversible Controlled Release", 222nd ACS National Meeting, August 20, 2001, Chicago, IL.
- 185.J. D. Ehrick, S. K. Deo, L. G. Bachas, M. J. Madou, S. Daunert, "Reversibly Responsive Protein-Immobilized Hydrogels for Controlled Release", 2nd BioMEMS and Biomedical Nanotechnology World 2001, September 22, 2001, Columbus, OH.
- 186.J. C. Ball, L. G. Bachas, M. J. Madou, S. Daunert, "Responsive Drug delivery Systems: ChipRx", 2nd BioMEMS and Biomedical Nanotechnology World 2001, September 22, 2001, Columbus, OH.
- 187.M. Mirasoli, A. Roda, J. S. Feliciano-Cardona, P. Pasini, and S. Daunert. "Sviluppo e Caratterizzazione di un Biosensore Cellulare Fluorescente con Correzione Interna della Risposta Utilizzando Due Forme Mutanti di GFP" XVI Congresso Nazionale di Chimica Analitica, September 24-28, 2001, Portonovo (AN), Italy.
- 188.S. Daunert, "Highly Sensitive and Selective Biosensing and Microanalytical Methods Based on Genetic Engineering Strategies", Eastern Analytical Symposium, October 4, 2001, Atlantic City, NJ.
- 189.B. V. Sharma, S. Daunert, "Characterization of a Protein-Based Fluorescence Sensing System for Glucose", AAPS Annual Meeting, Oct.28, 2001, Denver, CO.
- 190.K. Gregory, L. Bachas, D. Bhattacharya, and S. Daunert, "Reversible Immobilization Scheme for Organophosphorus Hydrolase via a Genetically Engineered Calmodulin Fusion Protein", 223rd ACS National Meeting, April 7, 2002, Orlando, FL.
- 191.E. Dikici, S. Deo, and S. Daunert, "Design of a CaM-EGFP Fusion Protein for the Detection of Calmodulin Antagonists", 223rd ACS National Meeting, April 7, 2002, Orlando, FL.
- 192.X-Guan, E. D'Angelo, and S. Daunert, "Whole Cell Biosensing of 3-chlorocatechol in Liquids and Soils", 223rd ACS National Meeting, April 7, 2002, Orlando, FL.
- 193.M. Mirasoli, J. Feliciano-Cardona, E. Michelini, A. Roda, and S. Daunert. "Development and Characterization of a Fluorescent Whole-Cell Biosensor with Internal Response Correction Using Two GFP Mutants" 12th International Symposium on Bioluminescence and Chemiluminescence, April 7, 2002, Cambridge UK.
- 194.J. D. Ehrick, S. K. Deo, L. G. Bachas, S. Daunert, "Integrated Protein Recognition within Hydrogels for Responsive Microactuators", Naff Symposium, April 26, 2002, Lexington, KY.
- 195.L.G. Puckett, J.C. Lewis, L.G. Bachas, S. Daunert, "Study of  $\beta$ -Lactamase Inhibitors Using an EGFP Fusion Protein" Naff Symposium, April 26, 2002, Lexington, KY.
- 196.J. D. Ehrick, S. K. Deo, L. G. Bachas, S. Daunert, "Integrated Protein Recognition within Hydrogels for Responsive Microactuators", The Seventh World Conference on Biosensors, May 15, 2002, Kyoto, Japan.
- 197.J. Feliciano and S. Daunert, "Biosensing and Microanalytical Methods Based on Genetic Engineering Strategies", The 5th Workshop on Biosensor and Bioanalytical Techniques in Environmental Analysis, June 4, 2002, Cornell University, Ithaca, NY.
- 198.J. D. Ehrick, S. K. Deo, L. G. Bachas, S. Daunert, "Reversibly Responsive Protein-Immobilized Hydrogel Microactuators", Ninth International Meeting on Chemical Sensors, July 10, 2002, Boston, MA.
- 199.S. Daunert, "Biosensing and Microanalytical Methods Based on Genetic Engineering Strategies", 2002 Annual Meeting of the Society for Industrial Microbiology, August 11-15, 2002, Philadelphia, PA.
- 200.J. Feliciano, and S. Daunert, "New Generation of Cell-Based Sensing Systems for Arsenite that Employ CobA as the Reporter Gene", 224th ACS National Meeting Invited Paper for the Special Session "Celebrating Women in Analytical Chemistry", August 19, 2002, Boston, MA.
- 201.J. Feliciano, and S. Daunert, "New Generation of Cell-Based Sensing Systems for Arsenite that Employ cobA as the Reporter Gene", (Selected for the SciMIX), 224th ACS National Meeting, August 18, 2002, Boston, MA.
- 202.S. Daunert, E. A. Moschou, J. D. Ehrick, S. F. Peteu, S. K. Deo, J. C. Ball, L. G. Bachas, and M. J. Madou "Electro- and Bio-Chemical Microactuators for Responsive Drug Delivery", 224th ACS National Meeting, August 19, 2002, Boston, MA.
- 203.S. Daunert, "Biosensing and Microanalytical Methods Based on Genetic Engineering Strategies", Plenary Lecture "Euroanalysis 12", September 8-13, 2002, Dortmund, Germany.

204. J. Feliciano, X. Guan, Y. Liu, E. D'Angelo, J.R. van der Meer, L.G. Bachas, and S. Daunert. "Bacterial Sensing Systems for Monitoring Superfund Chemicals" Superfund Meeting, November 4, 2002, Tucson, AZ.
205. X. Guan, W. Luo, J. Feliciano, R. S. Shetty, A. Rotherth, L. Millner, S. K. Deo, E. D'Angelo, L. G. Bachas, and S. Daunert, "Sensing Superfund Chemicals with Recombinant Systems", Internet Seminar, Sponsored by: National Institutes of Health, National Institutes of Environmental Health, Environmental Protection Agency, November 13, 2002.
206. E. A. Moschou, J. D. Ehrick, S. F. Peteu, S. K. Deo, J. C. Ball, L. G. Bachas, J. Zoval, M. J. Madou, S. Daunert "Microfabricated Responsive Drug Delivery System", Nanotech 2002, 6th Annual European Conference on Micro and Nanoscale Technologies for the Biosciences, November 26, 2002, Montreux, Switzerland.
207. S. Daunert, "Genetic Engineering Strategies in Biosensing and Micro/Nanoanalytical Methods", NanoTech2002, November 26, 2002, Montreux, Switzerland.
208. S. Daunert, E. A. Moschou, J. D. Ehrick, S. F. Peteu, S. K. Deo, J. C. Ball, L. G. Bachas, M. J. Madou, "ChipRx: Responsive Drug Delivery Systems", First Annual Kentucky Innovation and Enterprise Conference, March 5, 2003, Lexington, KY.
209. E. Dikici, S. K. Deo, S. Daunert, "Whole-Cell Based Assay for the High-Throughput Screening of Calmodulin Antagonists", 225th ACS National Meeting, New Orleans, LA, 2003.
210. L. G. Puckett, E. Dikici, J. Zoval, M. J. Madou, L. G. Bachas and S. Daunert, "Design and Development of Centrifugal Microfluidics Platform for Protein-Based Assays", 225th ACS National Meeting, March 23, 2003, New Orleans, LA.
211. J. D. Ehrick, S. K. Deo, L.G. Bachas, S. Daunert, "Stimuli-Responsive Hydrogels with Integrated Protein Recognition for Sensing Application", 225th National Meeting of the American Chemical Society, March 23, 2003, New Orleans, LA.
212. B. V. Sharma, S. K. Deo, L. G. Bachas, and S. Daunert, "Class-Selective Drug Screening Assay Using Fluorescence Resonance Energy Transfer between a Fluorescently Labeled Calmodulin and 2,6-Anilino-Napthalene Sulfonate" Drug Discovery Technology, Stuttgart, Germany. April 1, 2003.
213. J. D. Ehrick S. K. Deo, L. G. Bachas, S. Daunert, "Stimuli-Responsive Hydrogels with Integrated Protein Recognition for Sensing Application", Twenty-Ninth Annual Naff Symposium on Chemistry and Molecular Biology, April 18, 2003, Lexington, KY.
214. J. Feliciano, X. Guan, Y. Liu, E. D'Angelo, J. R. van der Meer, L. G. Bachas, and S. Daunert, "Bacterial Sensing Systems for Monitoring Superfund Chemicals", Twenty-Ninth Annual Naff Symposium, April 18, 2003, Lexington, KY.
215. J. Feliciano, X. Guan, E. D'Angelo, J. R. van der Meer, L. G. Bachas, and S. Daunert "Bacterial Biosensing Systems For Monitoring Environmental Pollutants: From The Laboratory To The Field", International Symposium On Sensor Science, June 16, 2003, Paris, France.
216. J. D. Ehrick, S. K. Deo, L. G. Bachas, S. Daunert, "Stimuli-Responsive Hydrogels with Integrated Protein Recognition for Sensing and Drug Delivery Applications", International Symposium on Sensor Science, June 19, 2003, Paris, France.
217. X. Qu, S. K. Deo, E. Dikici, M. Poon, and S. Daunert, "Bioluminescent Immunoassay for a Cardiac Marker: Adaptation to Clinical Analysis", Kentucky Nanomaterials Workshop (KyNanoMat 2003), September 25, 2003, Louisville, KY.
218. J. D. Ehrick, E. A. Moschou, S. K. Deo, J. Zoval, M. J. Madou, L. G. Bachas, S. Daunert, "Microactuators for Responsive Drug Delivery Systems", Kentucky Nanomaterials Workshop (KyNanoMat 2003), September 25, 2003, Louisville, KY.
219. B. V. Sharma, S. K. Deo, L. G. Bachas and S. Daunert, "Multiple Platform Evaluation of a Calmodulin-Based Fluorescence Resonance Energy Transfer Screening Assay", AAPS Meeting, October 27, 2003, Salt Lake City, UT.
220. S. Xu, D. Ghosh, J. Feliciano, S. K. Deo, E. D'Angelo, S. Daunert, "Development of a Whole-Cell Sensing System for PCBs Detection", Superfund Basic Research Program Annual Meeting 2003, November 9, 2003, Hanover, NH.
221. J. Feliciano, A. Rotherth, S. K. Deo, L. Puckett, L. Millner, J. R. Van der Meer, M. J. Madou, S. Daunert, "Bacterial Biosensing Systems for Arsenic Detection: From the Laboratory to the Field", Superfund Basic Research Program Annual Meeting 2003, November 10, 2003, Hanover, NH.
222. A. Rotherth, S. K. Deo, L. G. Puckett, L. Millner, M. Madou, and S. Daunert, "Adaptation of a Whole-Cell Based Reporter Gene Assay for Arsenite and Antimonite to a Compact Disc Centrifugal Microfluidics Platform", SERMACS, November 16, 2003, Atlanta, GA.
223. J. D. Ehrick, C. Wang, H. Xu, E. A. Moschou, S. K. Deo, M. J. Madou, L. G. Bachas, S. Daunert, "Responsive Drug Delivery Systems: ChipRx", 7th Annual European Conference on Micro & Nanoscale Technologies for the Biosciences, (NanoTech 2003), November 25-27, 2003, Montreux, Switzerland.
224. J. D. Ehrick, T. W. Browning, S. K. Deo, L. G. Bachas, S. Daunert, "Stimuli-Responsive Hydrogels with Integrated Protein Recognition for Sensing and Drug Delivery Applications", 7th Annual European Conference on Micro & Nanoscale Technologies for the Biosciences, (NanoTech 2003), November 25-27, 2003, Montreux, Switzerland.
225. M. Mirasoli, E. Michelini, S.K. Deo, E. Dikici, A. Roda and S. Daunert, "Acquorin fusion proteins as bioluminescent tracers for competitive immunoassays", Conference on Genetically Engineered and Optical Probes for Biomedical Applications II, January 24-27, 2004, San Jose, CA.
226. J. D. Ehrick, T. W. Browning, S. K. Deo, L. G. Bachas, S. Daunert, "Stimuli-Sensitive Hydrogel Microspots for Sensing and High-Throughput Drug Screening", 227th National Meeting of the American Chemical Society, March 29, 2004, Anaheim, CA.

- 227.X. Qu, S. K. Deo, E. Dikici, M. D. Poon, and S. Daunert, "Bioluminescent Immunoassay Based on Recombinant Aequorin for Angiotensin II Detection", 227th ACS National Meeting, March 29, 2004, Anaheim, CA.
- 228.J. D. Ehrick, T. W. Browning, S. K. Deo, L.G. Bachas, S. Daunert, "Stimuli-Responsive Hydrogel Microspots for Sensing and High-Throughput Drug Screening", Thirtieth Annual Naff Symposium on Chemistry and Molecular Biology, April 2, 2004, Lexington, KY.
- 229.C. Logue, L. Rowe, E. Dikici, S. K. Deo, and S. Daunert, "Altering the Emission Spectrum of the Photoprotein Aequorin", 2004 Undergraduate Regional Poster Competition, April, 2004, University of Kentucky, Lexington, KY.
- 230.G. Jia, K. Ma, J.T. Kim, J. V. Zoval, M. J. Madou, S. K. Deo, S. Daunert, R. Peytavi, and M. G. Bergeron, "CD (compact disc)-Based DNA Hybridization and Detection", Conference on MEMS, MOEMS and Micromachining, April 29-30, 2004, Strasbourg, France.
- 231.S. Daunert, "Genetic Engineering Strategies in Biosensing and Micro/Nanoanalytical Methods", Plenary Lecture, Europtode VII, April 6, 2004, Madrid, Spain.
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- 235.S. Xu, D. Ghosh, J. Feliciano, S. K. Deo, E. D' Angelo, and Sylvia Daunert, "Analysis of PCBs using Biphenyl Biosensor Employing Dechlorination Method", PCB Workshop, June 13-15, 2004, University of Illinois College of Veterinary Medicine, Urbana-Champaign, IL.
- 236.J. D. Ehrick, E. A. Moschou, S. K. Deo, M. J. Madou, L. G. Bachas, and S. Daunert, "Development of Therapeutic Systems: Responsive Drug Delivery and High-Throughput Screening Devices", International NanoMaterials Workshop, September 20, 2004, Lexington, KY.
- 237.S. K. Deo, S. Xu, A. Rothert, J. Feliciano, X. Guan, D. Ghosh, E. D'Angelo, L. G. Bachas, and S. Daunert "Recombinant Tools for Detection of Superfund Chemicals", Superfund Basic Research Program Annual Meeting, November 4, 2004, Seattle, WA.
- 238.S. Xu, D. Ghosh, J. Feliciano, S. K. Deo, E. D'Angelo, and S. Daunert., "Analysis of PCBs Using Biphenyl Biosensor Employing Dechlorination Method", Superfund Basic Research Program Annual Meeting, November 4, 2004, Seattle, WA.
- 239.L. Rowe, E. C. Dikici, S. K. Deo, S. Daunert "Spectral Tuning of the Bioluminescent Photoprotein Aequorin", Kentucky Academy of Sciences, November 5, 2004, Murray, KY
- 240.S. Daunert "Genetic Engineering Strategies in Biosensing and Micro/Nanoanalytical Methods", "Plenary Lecturer", International BIOMEMS Symposium, March 4, 2005, Monterrey, Mexico.
- 241.S. Deo, A. Rothert, J. Feliciano, J. Zoval, M.J. Madou, S. Daunert, "Bacterial-based whole sell sensing systems: Applications in field studies and miniaturized analytical systems", 229th National Meeting of the American-Chemical-Society, March 13, 2005, San Diego, CA.
- 242.J.D. Ehrick, S. Deo, L.G. Bachas, S. Daunert, "Dimeric protein integrated stimuli-responsive hydrogels for biomedical and sensing applications", 229th National Meeting of the American-Chemical-Society, March 13-17, 2005, San Diego, CA.
- 243.L. Rowe, C. Logue, E. Dikici, D. Scott, S. K. Deo, and S. Daunert, "Spectral Tuning of the Bioluminescent Photoprotein Aequorin", 229th National Meeting of the American-Chemical-Society, March 13-17, 2005, San Diego, CA.
- 244.J. D. Ehrick, S. K. Deo, L. G. Bachas, and S. Daunert, "Stimuli-Responsive Hydrogels with integrated Protein Multimers for Sensing Applications", 229th National Meeting of the American-Chemical-Society, March 13-17, 2005, San Diego, CA.
- 245.S. Deo, S. Daunert, H. Shashidar, P. Pasini, A. Kumari, "Nowinvasive biosensors for the diagnosis and management of Crohn's disease", 229th National Meeting of the American-Chemical-Society, March 13-17, 2005, San Diego, CA.
- 246.B. Sharma, A. Gass, S. K. Deo, L. G. Bachas, and S. Daunert, "Monitoring Interactions of Calmodulin with Target Peptides Using Fluorescence Resonance Energy Transfer", 229th National Meeting of the American-Chemical-Society, March 13-17, 2005, San Diego, CA.
- 247.H. Shashidhar, S. Daunert, S.K. Deo, P. Pasini, A. Kumari, "Evaluation of a New Marker for Crohn's Disease and Development of Non-Invasive Biosensors for the Diagnosis and Management of the Disease", 2005 Pediatric Academic Societies' (PAS) Annual Meeting, Washington, DC, May 14-17, 2005.
- 248.S. Bachas-Daunert, S. Stokes, J. D. Ehrick, E. A. Moschou, S. K. Deo, and S. Daunert "Stimuli-Responsive Hydrogels Integrating Binding Protein Recognition Elements", National Meeting of the American Institute for Chemical Engineers, October 31, 2005, Cincinnati, OH.
- 249.L. G. Bachas, E. A. Moschou, H.-K. Tsai, J. Zoval, M. J. Madou, and S. Daunert, "Polymeric Microactuators for Responsive Drug Delivery Systems", National Meeting of the American Institute for Chemical Engineers, November 1, 2005, Cincinnati, OH.
- 250.S. Daunert, J. D. Ehrick, S. K. Deo, and L. G. Bachas, "Biohybrid Stimuli-Responsive Hydrogels with Integrated Protein Recognition for Biomedical and Diagnostic Applications", National Meeting of the American Institute for Chemical Engineers, November 1, 2005, Cincinnati, OH.

- 251.S. K. Deo and S. Daunert, "Photoproteins in Bioanalysis", Pacificchem 2005, December 15-20, 2005, Honolulu, HI.
- 252.L. Rowe, E. Dikici, C. Logue, D. Scott, S. K. Deo, and S. Daunert, "Altering the Bioluminescent Properties of the Photoprotein Aequorin", Pacificchem 2005, December 15-20, 2005, Honolulu, HI.
- 253.J. D. Ehrick, S. K. Deo, S. Bachas-Daunert, S. Stokes, E. A. Moschou, S. K. Khatwani, S. Daunert, and L. G. Bachas,, "Stimuli-Responsive Hydrogels with Integrated Protein Recognition for Sensing Applications", Pacificchem 2005, December 15-20, 2005, Honolulu, HI.
- 254.S. Xu, K. Turner, P. Pasini, S. K. Deo, L. G. Bachas, and S. Daunert. "Quantitation of Hydroxylated Polychlorinated Biphenyls by Using Whole Cell Sensing System", 2005 Superfund Basic Research Program Annual Meeting: Research Translation and Megasites, 12-13 January, 2006, New York, NY.
- 255.L. A. Rowe, E. Dikici, X. Qu, S. K. Deo, and S. Daunert, "Genetically Engineered Photoproteins in Biosensing", SPIE-Photonics West, January 24, 2006, San Jose, CA.
- 256.L. Rowe, M. Ensor, D. Scott, S. Deo, S. Daunert, "Genetically engineered luminescent proteins in biosensing - art. no. 60980H", January 24, 2006, San Jose, CA.
- 257.E. A. Moschou, J. D. Ehrick, L. A. Rowe, A. Kumari, D. Scott, C. M. Ensor, P. Pasini, S. K. Deo and S. Daunert, "Genetic Engineering in Biosensing and Micro/Nanoanalytical Methods", 40th Western Regional Meeting of the ACS, January 25, 2006, Anaheim, CA.
- 258.S. Xu, K. Turner, P. Pasini, S. Deo, L. Bachas, and S. Daunert. Bioluminescent and Chemiluminescent Whole Cell Sensing Systems for the Detection of Hydroxylated/dihydroxylated Polychlorinated Biphenyls. Kentucky Water Resources Annual Symposium, Lexington, KY, March 2, 2006.
- 259.J. D. Ehrick, S. K. Deo, S. Bachas-Daunert, S. Stokes, E. A. Moschou, S. K. Khatwani, L. G. Bachas, and S. Daunert, "Stimuli-Responsive Hydrogels with Integrated Protein Multimers for Sensing Applications", "Nanohybrid Bioanalytical Systems", PITTCON '06, March 7-12, 2006, Orlando, FL.
- 260.L. A. Doleman, J. D. Morris, L. L. Davies, L. Rowe, E. A. Moschou, S. K. Deo, and S. Daunert, "Development of DNA hybridization assay for Plasmodium falciparum", 231st National Meeting of the American Chemical Society, March 20-26, 2006, Atlanta, GA.
- 261.A. Kumari, P. Pasini, D. Flomenhoff, H. Shashidhar, S. Daunert, "Non-Invasive Quorum-Based Biosensors for the Evaluation of Bacterial Behavior in GI Disorders", 15th Naff Symposium, March 31, 2006, Lexington, KY.
- 262.K. Turner, S. Xu, P. Pasini, S. Deo, L. Bachas, S. Daunert, "Bioluminescent and Chemiluminescent Whole Cell Sensing Systems for the Detection of Hydroxylated/Dihydroxylated Polychlorinated Biphenyls", 15th Naff Symposium, March 31, 2006, Lexington, KY.
- 263.L. A. Doleman, J. D. Morris, L. L. Davies, L. Rowe, E. A. Moschou, S. K. Deo, and S. Daunert, "Development of DNA hybridization assay for Plasmodium falciparum", 15th Naff Symposium, March 31, 2006, Lexington, KY.
- 264.L. A. Rowe, E. Dikici, A. Rother, C. M. Ensor, S. K. Deo, and S. Daunert, "Bioluminescent Characteristics of Genetically Altered Photoproteins", XX1st IUPAC Symposium of Photochemistry, April 4, 2006, Kyoto, Japan.
- 265.L. A. Doleman, J. D. Morris, L. L. Davies, L. Rowe, E. A. Moschou, S. K. Deo, and S. Daunert, "Development of DNA hybridization assay for Plasmodium falciparum", Kentuckiana Undergraduate Research Symposium (KURS), University of Louisville, Louisville, KY April 8, 2006.
- 266.L. A. Doleman, J. D. Morris, L. L. Davies, L. Rowe, E. A. Moschou, S. K. Deo, and S. Daunert, "Development of DNA hybridization assay for Plasmodium falciparum", Showcase of Undergraduate Scholars, University of Kentucky, Lexington, KY, April, 2006.
- 267.A. Kumari, D. Flomenhoff, H. Shashidhar, P. Pasini, S. Daunert, "Development of Non-Invasive Biosensors for Evaluating Association Between Quorum Sensing Molecules in Stool and Health Indicators in Neonates", 2006 Pediatric Academic Societies' (PAS) Annual Meeting, April 29-May 2, 2006, San Francisco, CA.
- 268.J. D. Ehrick, S. Bachas-Daunert, S. Stokes, E. A. Moschou, S. K. Deo, L. G. Bachas, and S. Daunert, "Stimuli-Responsive Hydrogels Based on Hinge Motion Binding Proteins as Recognition Elements", 232nd National Meeting of the American Chemical Society, September 10, 2006, San Francisco, CA.
- 269.L. G. Bachas, K. Turner, S. Xu, P. Pasini, S.K. Deo, and S. Daunert, "Sensing Superfund Chemicals with Recombinant Systems". IV PCB Workshop, Zakopane, Poland, September 6-10, 2006.
- 270.S. Khatwani, J. D. Morris, E. A. Moschou, N. Chopra, L. G. Bachas, S. Daunert, "Development of "Smart" Biofilters Based on the Ligand Binding Protein Calmodulin", 232nd ACS National Meeting, September 10-14, 2006, San Francisco, CA, USA.
- 271.A. Kumari, P. Pasini, D. Flomenhoff, H. Shashidhar, S. Daunert, "Non-Invasive Quorum-Based Biosensors for the Evaluation of Bacterial Behavior in GI Disorders", 232nd American Chemical Society (ACS) National Meeting, San Francisco, CA, September 10-14, 2006.
- 272.A. Date, P. Pasini, and S. Daunert, "Construction of Spores for Portable Bacterial Whole-Cell Biosensing Systems", 232nd American Chemical Society (ACS) National Meeting, San Francisco, CA, September 10-14, 2006.
- 273.L. A. Rowe, K. Teasley, C. M. Ensor, S. K. Deo, and S. Daunert, "Molecular Tuning of Aequorin for Bioanalytical Applications", 14th International Symposium on Bioluminescence and Chemiluminescence, October 17, 2006, San Diego, CA.

- 274.A. Kumari, P. Pasini, D. Flomenhoff, H. Shashidhar, S. Daunert, "Non-Invasive Biosensors for the Evaluation of Bacterial Quorum Sensing in GI Disorders", 14th International Symposium on Bioluminescence and Chemiluminescence, October 17, 2006, San Diego, CA.
- 275.N. Chopra, S. Khatwani, E. A. Moschou, L. G. Bachas, S. Daunert, "Mechanical Characterization of Stimulus-responsive Hydrogels Based on Genetically Engineered Proteins for Actuation and Drug Delivery Applications", 2006 Materials Research Society Fall Meeting, November 27-December 1, 2006, Boston, MA.
- 276.K. Turner, S. Xu, P. Pasini, S.K. Deo, L. G. Bachas, and S. Daunert, "Genetically Engineered Biosensors for Superfund Chemicals: Toward Miniaturization and Field Applications", ATSDR Workshop "Advancing Environmental Public Health: Science, Practice, New Frontiers", Atlanta, GA, December 4-6, 2006.
- 277.K. Turner, S. Xu, P. Pasini, S.K. Deo, L. G. Bachas, and S. Daunert, "Quantitation of Hydroxylated Polychlorinated Biphenyls Using a Whole Cell Sensing System", 2006 Superfund Basic Research Program (SBRP) Annual Meeting, San Diego, CA, December 11-12, 2006.
- 278.L. A. Rowe, C. M. Ensor, and S. Daunert "EF-hand Ca<sup>2+</sup>-binding Bioluminescent Proteins: Effect of Mutations and Alternative Cations", Conference on Genetically Engineered and Optical Probes for Biomedical Applications IV, The Society of Photo-Optical Instrumentation Engineers (SPIE), January 23-24, 2007, San Jose, CA.
- 279.K. Turner, S. Xu, P. Pasini, S. Deo, L. Bachas, S. Daunert, "Quantitation of Hydroxylated Polychlorinated Biphenyls Using Recombinant Sensing Systems", Naff Symposium, April 13, 2007, Lexington, KY.
- 280.S. Daunert, "In vivo Biosensing and Implantable Devices", Medical Devices Technologies, Minneapolis, MN, April 18, 2007.
- 281.A. Kumari, P. Pasini, D. Flomenhoff, H. Shashidhar, and S. Daunert, "Non-Invasive Quorum-Based Biosensors for the Evaluation of Bacterial Behavior in GI Disorders", CERMACS, Cincinnati, OH, May 21, 2007.
- 282.K. Teasley Hamorsky, C. M. Ensor, and S. Daunert, "A Bioluminescent Molecular Sensing Switch Based on an Engineered Split Aequorin," 39th Central Regional Meeting of the American Chemical Society, Covington, KY, May 20-23, 2007.
- 283.S. Joel, B. Haley, L. G. Bachas and S. Daunert, "Reagentless Fiber Optic Biosensors for the Continuous Monitoring of Glucose", 39th Central Regional Meeting of the American Chemical Society, Covington, KY, May 20-23, 2007.
- 284.A. Date, P. Pasini, and S. Daunert, "Development of Spore-Based Sensing Systems Integrated into a Portable Microcentrifuge Microfluidic Platform." 39th Central Regional Meeting of the American Chemical Society, Covington, KY, May 20-23, 2007.
- 285.N. Raut, P. Pasini, and S. Daunert, "Whole-Cell Biosensing Systems for Bacterial Quorum Sensing Signal Molecules on a Compact Disk Microfluidic Platform", 39th Central Regional Meeting of the American Chemical Society, Covington, KY, May 20-23, 2007.
- 286.S. Khatwani, N. Chopra, E. Moschou, L. G. Bachas, L. G., and S. Daunert, "Separation of Biomolecules using Stimuli-Responsive Calmodulin Hydrogel Nanostructures", 39th Central Regional Meeting of the American Chemical Society, Covington, KY, May 20-23, 2007.
- 287.A. Kumari, P. Pasini, D. Flomenhoff, H. Shashidhar, N. Raut, and S. Daunert, "Evaluation of Metronidazole Effect on Bacterial Quorum Sensing by Whole-Cell-Based Biosensors", Third International Symposium on Pediatric Gastroenterology, Hepatology and Nutrition, June 14-15, 2007, Montreal, Canada.
- 288.S. Daunert, "Genetic Engineering Strategies in Biosensing and Micro/Nanoanalytical Methods", 41st IUPAC World Congress, Torino, Italy, August 5-11, 2007.
- 289.X. Qu, E. Dikici, C. M. Ensor, S. K. Deo, and S. Daunert, "Rational Design of Photoprotein Aequorin Mutants", 234th ACS National Meeting, Boston, MA, United States, August 19-23, 2007.
- 290.S. Daunert, "Molecular Recognition in Biosensing, Biomaterials, and Responsive Drug Delivery", 12th International Meeting on Recent Developments in Pharmaceutical Analysis, RDP A 2007 Symposium, Isle of Elba, Italy, September 23-26, 2007.
- 291.P. J. Rosado, K. B. Turner, S. Daunert and E. A. Moschou, "Development of Glucose-Responsive Hydrogels Based upon Genetically Engineered Glucose Binding Protein Dimer", XXXI ACS Senior Technical Meeting, Mayaguez Resort and Casino, Puerto Rico, November 2-3 2007.
- 292.K. Turner, S. Xu, P. Pasini, S.K. Deo, L. G. Bachas, and S. Daunert, "Quantitation of Hydroxylated Polychlorinated Biphenyls Using Recombinant Sensing Systems", 20th Anniversary of the Superfund Program of the National Institutes of Environmental Health Sciences, Raleigh, NC, December 3, 2007.
- 293.A. Date, P. Pasini and S. Daunert, "Portable Spore-based Whole-Cell Sensing Systems for On-site Applications", 20th Anniversary of the Superfund Program of the National Institutes of Environmental Health Sciences, Raleigh, NC, December 3, 2007.
- 294.K. Turner, A. Date, P. Pasini, L. G. Bachas, and S. Daunert, "Sensing Superfund Chemicals with Recombinant Systems", 20th Anniversary of the Superfund Program of the National Institutes of Environmental Health Sciences, Raleigh, NC, December 2, 2007.
- 295.S. Daunert, "Achieving Scientific Goals Through Integration: Genetic Engineering Strategies in Biosensing and Micro/Nanoanalytical Methods", PITCON 2008, New Orleans, LA, March 3, 2008.

- 296.A. Kumari, P. Pasini, D. Flomenhoff, H. Shashidhar, N. Raut, and S. Daunert, "Evaluation of Metronidazole Effect on Bacterial Quorum Sensing by Whole-Cell-Based Biosensors", 17th Naff Symposium, University of Kentucky, Lexington, KY, April 5, 2008.
- 297.D. Scott, K. Teasley-Hamorsky, C. M. Ensor, K. Anderson, and S. Daunert, "Bioluminescent cAMP Molecular Switch for in vivo Detection and Imaging", 17th Naff Symposium, University of Kentucky, Lexington, KY, April 5, 2008.
- 298.S. Joel, E. A. Moschou, and S. Daunert, "Reagentless Fiber Optic Biosensors for the Continuous Monitoring of Glucose", 17th Naff Symposium, University of Kentucky, Lexington, KY, April 5, 2008.
- 299.N. Raut, P. Patrizia, and S. Daunert, "Whole-cell Biosensing Systems for Bacterial Quorum Sensing Signal Molecules on a Compact Disk Microfluidic Platform", 17th Naff Symposium, University of Kentucky, Lexington, KY, April 5, 2008.
- 300.K. T. Hamorsky, C. M. Ensor, Y. Wei, and S. Daunert, "A Bioluminescent Molecular Switch for Glucose", 17th Naff Symposium, University of Kentucky, Lexington, KY, April 5, 2008.
- 301.A. Date, P. Pasini, and S. Daunert, "Integration of Spore-Based Whole-Cell Sensing Systems into a Portable Microcentrifuge Microfluidic Platform" 17th Naff Symposium, University of Kentucky, Lexington, KY, April 5, 2008.
- 302.S. L. Khatwani, N. Chopra, E. Moschou, L. G. Bachas, and S. Daunert, "Calmodulin-based Nanoporous Membranes for Protein Separation and Drug Delivery", 17th Naff Symposium, University of Kentucky, Lexington, KY, April 5, 2008.
- 303.K. Turner, P. Pasini, L. Bachas, and S. Daunert, "Protein-Based Sensing System for Hydroxylated Polychlorinated Biphenyls Based on the Regulatory Protein HbpR", 235th Annual ACS National Meeting, April 6-10, 2008, New Orleans, LA.
- 304.S. L. Khatwani, N. Chopra, E. Moschou, L. G. Bachas, and S. Daunert, "Calmodulin-based Nanoporous Membranes for Protein Separation and Drug Delivery", 235th Annual ACS National Meeting, April 6-10, 2008, New Orleans, LA.
- 305.P.J. Rosado, K.B. Turner, E. Moschou, S. Daunert, "CHED 817-Development of Glucose-Responsive Hydrogels Based Upon Genetically Engineered Glucose Binding Protein Dimer (GBPd)", 235th American-Chemical-Society National Meeting, April 6-10, 2008, New Orleans, LA.
- 306.A. Date, P. Pasini, S. Daunert, "ANYL 67-Integration of Spore-Based Whole-Cell Sensing Systems into a Portable Microcentrifuge Microfluidic Platform", 235th American-Chemical-Society National Meeting, April 6-10, 2008, New Orleans, LA.
- 307.S. Daunert, "Genetic Engineering Strategies in Biosensing and Micro/Nanoanalytical Methods", Department of Chemistry, University of Illinois, Urbana-Champaign, May 4, 2008.
- 308.D. Scott, K. Teasley-Hamorsky, C. M. Ensor, K. Anderson, and S. Daunert, "Bioluminescent cAMP molecular Switch for in vivo Detection and Imaging", University of Kentucky Interdisciplinary Graduate Student Research Conference, University of Kentucky, Lexington, KY, May, 2008.
- 309.D. Scott, L. Moschou and S. Daunert, "A Portable, Reagentless Potassium Sensor Capable of Real Time, in vivo Detection and Monitoring" 3rd Annual Clinical and Translational Science Spring Conference, Lexington, KY, June 3, 2008.
- 310.S. Joel, E. A. Moschou, and S. Daunert, "Reagentless Fiber Optic Biosensors for the Continuous Monitoring of Glucose", 3rd Annual Clinical and Translational Science Spring Conference, Lexington, KY, June 3, 2008.
- 311.A. Kumari, P. Pasini, D. Flomenhoff, H. Shashidhar, N. Raut, and S. Daunert, "Evaluation of Metronidazole Effect on Bacterial Quorum Sensing by Whole-Cell-Based Biosensors", 3rd Annual Clinical and Translational Science Spring Conference, Lexington, KY, June 3, 2008.
- 312.N. Raut, P. Patrizia, and S. Daunert, "Whole-cell Biosensing Systems for Bacterial Quorum Sensing Signal Molecules on a Compact Disk Microfluidic Platform", 3rd Annual Clinical and Translational Science Spring Conference, Lexington, KY, June 3, 2008.
- 313.S. L. Khatwani, N. Chopra, E. Moschou, L. G. Bachas, and S. Daunert, "Calmodulin-based Nanoporous Membranes for Protein Separation and Drug Delivery", 3rd Annual Clinical and Translational Science Spring Conference, Lexington, KY, June 3, 2008.
- 314.L. A. Doleman, E. A. Moschou and S. Daunert, "Development of a DNA hybridization assay for Plasmodium falciparum", 3rd Annual Clinical and Translational Science Spring Conference, Lexington, KY, June 3, 2008.
- 315.A. Date, P. Pasini, and S. Daunert, "Integration of Spore-Based Whole-Cell Sensing Systems into a Portable Microcentrifuge Microfluidic Platform", 3rd Annual Clinical and Translational Science Spring Conference, Lexington, KY, June 3, 2008.
- 316.K. Turner, P. Pasini, L. Bachas, S. Daunert, "Detection of Hydroxylated Polychlorinated Biphenyls by Whole-Cell- and Protein-Based Sensing Systems Employing the Regulatory Protein HbpR", 3rd Annual Clinical and Translational Science Spring Conference, June 3, 2008, Lexington, KY.
- 317.K. T. Hamorsky, C. M. Ensor, Y. Wei, and S. Daunert, "A Bioluminescent Molecular Switch for Glucose", 3rd Annual Clinical and Translational Science Spring Conference, June 3, 2008, Lexington, KY.
- 318.S. L. Khatwani, N. Chopra, E. Moschou, L. G. Bachas, and S. Daunert, "Protein Transport Through Stimuli-responsive Hydrogel-based Nanoporous Membranes", Polymer Innovation Northeast Ohio (PINO) Conference, Cleveland, OH, United States, June 27, 2008.
- 319.D. Scott, K. Teasley-Hamorsky, C. M. Ensor, K. Anderson, and S. Daunert, "Bioluminescent cAMP molecular Switch for in vivo Detection and Imaging", 236th ACS National Meeting, Philadelphia, PA, August, 2008.

- 320.S. Daunert, "Biosensing with Bioluminescent Genetically Engineered Proteins and Cells: From Molecular Switches to Quorum Sensing", XIII International Symposium on Luminescence Spectrometry, Bologna, Italy, September 10, 2008.
- 321.S. Joel, B. Haley, L. G. Bachas and S. Daunert, "Biosensors Based on Site-Specific Labeling of Antibodies", The 14th Annual EPSCoR Conference, October 3, 2008, Louisville, KY, United States.
- 322.M. Gillespie, Y. Wei, S. Daunert, and L. Bachas, "A Thermostable Phenol Hydroxylase for the Cathode in a Biofuel Cell", Kentucky Academy of Science, November 1, 2008, Lexington, KY.
- 323.S. R. Lewis, A. Montague, Y. Li, S. Daunert, L. G. Bachas, and D. Bhattacharyya, "Chelate-Modified Hydrogel Radical Reactions for Detoxification of Chlorinated Organics: Experimental Results and Model Development", 2008 Annual National Meeting of the American Institute for Chemical Engineers, Philadelphia, PA, November 19, 2008.
- 324.K. Teasley-Hamorsky, B. Metts, K. Turner, C. M. Ensor, P. Pasini, L. Bachas, S. Daunert, "Development of a Bioluminescent Protein Switch for the Detection of Hydroxylated Polychlorinated Biphenyls", NIEHS Superfund Basic Research and Training Program 2008 Annual Meeting, Pacific Grove, CA, December 7-9, 2008.
- 325.K. Turner, P. Pasini, L. Bachas, S. Daunert, "Detection of Hydroxylated Polychlorinated Biphenyls (OH-PCBs) Based Upon the Recombinant Binding Domain of the Regulatory Protein HbpR", NIEHS Superfund Basic Research and Training Program 2008 Annual Meeting, Pacific Grove, CA, December 7-9, 2008.
- 326.A. Date, P. Pasini, S. Daunert, "Spore-Based Whole-Cell Sensing Systems Incorporated into a Portable Microcentrifuge Microfluidic Platform", NIEHS Superfund Basic Research and Training Program 2008 Annual Meeting, Pacific Grove, CA, December 7-9, 2008.
- 327.L. A. Doleman, P. Bachas-Daunert, Y. Wei, J. Z. Hilt, and S. Daunert, "Remote Haloacid Bioremediation Using a Hydrogel Encapsulated Thermophilic Enzyme", The Materials Science Institute/IGERT Retreat, University of Oregon, Eugene, Oregon, December 16-18, 2008.
- 328.S. Daunert, "Achieving Scientific Goals Through Integration: Genetic Engineering Strategies in Biosensing and Micro/Nanoanalytical Methods", University of Miami, February 20, 2009.
- 329.S. Daunert, "Achieving Scientific Goals Through Integration: Genetic Engineering Strategies in Biosensing and Micro/Nanoanalytical Methods", University of Florida, February 25, 2009.
- 330.S. Joel, B. Haley, L. G. Bachas and S. Daunert, "Development of Universal Biosensing Systems based on Monoclonal Antibody", 60th Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy (PITTCO 2009), Chicago, IL, March 8-13, 2009.
- 331.N. Raut, P. Pasini, D. Flomenhoff, H. Shashidhar, and S. Daunert, "Whole Cell-Based Biosensing System for the Detection of Autoinducer-2 in IBD Patient Samples", 60th Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy (PITTCO 2009), Chicago, IL, March 8-13, 2009.
- 332.S. Joel, B. Haley, Y. Wei, L. G. Bachas and S. Daunert, "Versatile Biosensing Systems Based on Semi-Synthetic Modified Antibodies for Monitoring Astronaut Health Status", NASA The Institute for Biological Engineering Annual Meeting, Santa Clara, CA, March 19-22, 2009.
- 333.H. A. Tsai, X. Casadevall I Solvas, L. Kulinsky, E. Moschou, S. Daunert and M. J. Madou "Utilization of Electroactive Polymers in Responsive Drug Delivery Systems", UC Irvine Inaugural Research Symposium, From Molecular Biology to Human Therapies: Strategies, Challenges and Opportunities, The Arnold and Mable Beckman Center of the National Academies of Engineering, Irvine, CA, April 20, 2009.
- 334.M. Gillespie, Y. Wei, S. Daunert, D. Bhattacharyya, and L. Bachas, "Studying a Mutant Glucose Oxidase and Phenol Hydroxylase for a Biofuel Cell", Naff Symposium, University of Kentucky, April 24, 2009, Lexington, KY.
- 335.D. A. Flomenhoff, H. Shashidhar, A. Struss, P. Pasini, O. H. Ballard, H. E. Mardini, and S. Daunert, "Evaluation of Association Between QSM in Stool and Health Indicators in the Neonatal Population", Digestive Disease Week/110th Annual Meeting of the American-Gastroenterological-Association, May 30-June 4, 2009, Chicago, IL.
- 336.S. Joel, A. K. Bhattacharyya, B. E. Haley, L. G. Bachas, and S. Daunert, "Biosensors based on site-specific labeling of antibodies", The 238th ACS National Meeting, Washington, DC, August 16, 2009.
- 337.L. A. Doleman, P. Bachas-Daunert, Y. Wei, J. Z. Hilt, and S. Daunert, "Haloacid Bioremediation Using a Hydrogel Encapsulated Thermophilic Enzyme", The 238th ACS National Meeting, Washington, DC, August 16, 2009.
- 338.A. Sangal, P. Pasini, and S. Daunert, "Stability of Spore-Based Sensing Systems", The 238th ACS National Meeting, Washington, DC, August 16, 2009.
- 339.K. Teasley Hamorsky, K. B. Turner, C. M. Ensor, P. Pasini, L. G. Bachas, and S. Daunert, "Bioluminescent Protein Switches in Biomedical and Environmental Analysis", The 238th ACS National Meeting, Washington, DC, August 16, 2009.
- 340.D. F. Scott, K. Teasley Hamorsky, C. M. Ensor, K. W. Anderson, and S. Daunert, "Reagentless, Intracellular cAMP Monitoring of Intact Cells Via a Bioluminescent Molecular Switch", The 238th ACS National Meeting, Washington, DC, August 16, 2009.
- 341.N. G. Raut, P. Pasini, and S. Daunert, "Detection of Bacterial Quorum Sensing Signaling Molecules on a Compact Disk Microfluidic Platform Employing Whole-Cell-Based Biosensing System", The 238th ACS National Meeting, Washington, DC, August 16, 2009.



- 342.L. Doleman, P. G. Bachas-Daunert, Y. Wei, J. Z. Hilt, and S. Daunert. "Haloacid bioremediation using an immobilized thermophilic enzyme" Biomaterials Conference, University of Kentucky, September 2009
- 343.V. Ho, X. Casadevall i Solvas, D. Scott, L. S. Dolci, L. Kulinsky, S. Daunert, and M. Madou, "Integrated Microchip Based Biosensor for Drug Delivery", Biomaterials Day, University of Kentucky and Case Western Research University, Lexington, KY, September 25, 2009.
- 344.M. M. Gillespie, X. Liu, Y. Wei, S. Daunert, D. Bhattacharyya, and L. Bachas, "Enzyme-Electrode Interfaces for Biofuel Cells", Society for Biomaterials, September 25, 2009, Lexington, KY.
- 345.S. Daunert, "Genetically Diverse Biosensors: Rational Design, Packaging and Applications", Plenary Lecture, Fourth International Workshop on Biosensors for Food Safety and Environmental Monitoring in Tangier (Morocco), October 1-3, 2009.
346. T. Head, S. Joel and S. Daunert "Design of Fluorescent Glucose Biosensors Employing Genetically Engineered Proteins", 2009 Kentucky Academy of Sciences Annual Meeting, Convington, KY, November 1, 2009.
- 347.N. Ray, S. Joel, K. Turner, and S. Daunert, "Fiber Optic Biosensors for In Situ Monitoring of Hydroxylated PCB's ", 2009 Kentucky Academy of Sciences Annual Meeting, Convington, KY, November 1, 2009.
- 348.S. Daunert, "Genetically Diverse Biosensors and Bionanoanalytical Methods", Plenary Lecture, Symposium on Bionanotechnology, 2009 AIChE National Meeting, Nashville, TN, November 8-13, 2009.
- 349.V. Ho, X. Casadevall i Solvas, D. Scott, L. S. Dolci, L. Kulinsky, S. Daunert, and M. Madou, "Utilization of Electroactive Polymer Actuators in Micromixing and in Extended-Life Biosensor Applications", SPIE 2010 Smart Materials and Structures, San Diego, CA, March 2010.
- 350.D. F. Scott, C. M. Ensor, K. W. Anderson, and S. Daunert, "Simultaneous, Multiplexed Cytokine Analysis via Semi-Synthetic Aequorin Fusion Proteins", 239th ACS National Meeting, San Francisco, CA, United States, March 21-25, 2010.
- 351.L. Doleman, P. G. Bachas-Daunert, N. Ali, Y. Wei, J. Z. Hilt, and S. Daunert. "Haloacid Bioremediation Using a Hydrogel Encapsulated Thermophilic Enzyme", Naff Symposium, University of Kentucky, April 2010.
- 352.D. Tobler, J. Siegrist, T. Kazarian, M. Madou, P.H. Wang, S. Daunert, "A Novel Genetically Engineered Biosensor for Real-Time In Vivo Glucose Sensing", 70th Annual Meeting of the American-Diabetes-Association, June 25-29, 2010, Orlando, FL.
- 353.N. Ali, L. Doleman, Y. Wei, J. Z. Hilt, and S. Daunert, "Haloacid Bioremediation Using a Hydrogel Encapsulated Thermophilic Enzyme" Undergraduate Superfund Poster Presentation, University of Kentucky, August 2010.
- 354.S. Daunert, "Genetically Diverse Biosensors and Bionanoanalytical Methods", Plenary Lecturer, International Symposium on Biotechnology, Rimini, Italy, September, 2010.
- 355.S. R. Lewis, E. L. Coker, S. Daunert and D. Bhattacharyya, "Overview of Iron-Functionalized Oxidative Membrane Platforms for Water Treatment", 2010 Annual Meeting American Institute of Chemical Engineers, Salt Lake City, UT, November 11, 2010.
- 356.L. Doleman, N. Ali, Y. Wei, J. Z. Hilt, and S. Daunert, "Remotely Controlled Haloacid Bioremediation Using an Enzyme-based Hydrogel", Pacificchem 2010 Congress, December 16, 2010, Honolulu, Hawaii.
- 357.D. Scott; C. M. Ensor; K. Anderson, and S. Daunert, "Expanding Bioluminescence Multiplexing beyond Dual-Analytes: Application of Semisynthetic Aequorin for Multiple Cytokine Detection", Pacificchem 2010 Congress, December 16, 2010, Honolulu, Hawaii.
- 358.M. Gillespie, S. Daunert, D. Bhattacharyya, and L. Bachas, "Biofuel Cells and Biosensors With a Mutated Non-Oxygen Binding Glucose Oxidase", Pacificchem 2010 Congress, December 16, 2010, Honolulu, Hawaii.
- 359.A. Clouse, L. Bachas, S. Daunert, "Oriented Immobilization of T4 Lysozyme on Polyethylene Terephthalate for Use in Food Packaging", Research, Creativity and Innovation Forum- University of Miami, March 2011.
- 360.G. O'Connor, N. Raut, P. Pasini, S. Daunert, "Application of whole cell based biosensors for bacterial quorum sensing molecules in Inflammatory Bowel Disease", Research, Creativity and Innovation Forum- University of Miami, March 2011.
- 361.J. Orbulescu, M. Micic, C. M. Ensor, S. Trajkovic, S. Daunert, and R. M. Leblanc, A. Dadlani, R.A. Patel, "Fluorescence-based detection of human cardiac Troponin I using a chemically-attached mutant antibody modified quartz slide", 242nd National Meeting of the American-Chemical-Society (ACS), August 28-September 1, 2011, Denver, CO.
- 362.L. D. Knecht, P. Pasini, S. Deo, S. Daunert. "Evaluating the Effect of Environmental Contaminants on Quorum Sensing Bacterial Cell-to-Cell Communication", Superfund Research Symposium, Lexington KY, October 2011.
- 363.K. Turner, P. Pasini, L. Bachas, S. Daunert, "Hydroxylated polychlorinated biphenyls (OH-PCBs) detection using an engineered biosensor based on the binding domain of the regulatory protein HbpR. Superfund Research Program Annual Meeting", Lexington, KY, October 24-26, 2011.
- 364.A. Clouse, L. Bachas, S. Daunert, "Oriented immobilization of T4 lysozyme on polyethylene terephthalate for use in food packaging", Miami Winter Symposium, Miami FL, February 2012.
- 365.L.D. Knecht, N. Ali, Y. Wei, J. Zach Hilt, S. Daunert. "Remotely Controlled Haloacid Bioremediation Using a Hydrogel-Encapsulated Thermophilic Enzyme", Miami Winter Symposium, Miami FL, February 2012.

- 366.K. Grinstead, L. Rowe, S. Daunert, "The Site-Specific Incorporation of Non-Natural Amino Acids into Aequorin to Develop New Aequorin Mutants for Use as a Molecular Reporter", Miami Winter Symposium, Miami FL, February 2012.
- 367.G. O'Connor, N. Raut, P. Pasini, S. Daunert, "Application of Whole Cell based Biosensors for Bacterial Quorum Sensing Molecules in Inflammatory Bowel Disease", Miami Winter Symposium, Miami FL, February 2012.
- 368.S. Joel and S. Daunert, "Glucose Biosensors Based on Designer Glucose Recognition Proteins", Miami Winter Symposium, Miami FL, February 2012.
- 369.D. Scott, X. Yu, E. Dikici, and S. Daunert, "Genetically Enhanced Semi-synthetic Aequorin Variant with Improved Detection and Imaging Capabilities", Miami Winter Symposium, Miami FL, February 2012.
- 370.M. M. Gillespie, E. Dikici, L. G. Bachas, K. Harnosky, and S. Daunert, "Dissecting Aequorin: From Engineering the Protein to Diversifying its Use in Bioanalysis", 244th National Fall Meeting of the American-Chemical-Society (ACS), Philadelphia, PA, August 19, 2012.
- 371.S. Daunert, "Bionanotechnology-Inspired Biosensors and Molecular Diagnostic Tools", Keynote Lecturer, International Neonatology Conference, Miami, FL, November 1, 2012.
- 372.S. Daunert, "Bionanotechnology-Inspired Biosensors, Molecular Diagnostic Tools and Drug Delivery Systems", Plenary Lecture, Sixth International Workshop on Biosensors for Food Safety and Environmental Monitoring in Essaouira, Morocco, October 3-5, 2013.
- 373.S. Daunert, "Bacterial Chatter: Listening in on Host-Microbiome Conversations", Invited Speaker, IUBMB 2013, 14th IUBMB Conference "Host-microbe interactions", Marrakech, Morocco, November 16-20, 2013.
- 374.D. Wynn, L. Knecht, S. Deo, S. Daunert, "Development of a Paper-Based Assay for Hazardous Pollutants Based on Genetically Engineered Bacterial Cells", NanoFlorida 2014, Miami, FL, September 24-26, 2014.
- 375.T. Head, P. Dao, S. Deo, S. Daunert, "A Chimeric Protein Sensor for Bioluminescence-based Apoptosis Detection", NanoFlorida 2014, Miami, FL, September 24-26, 2014.
- 376.M. Gillespie, A. Gonzalez Estevez, S. Joel, K. Hamorsky, S. Daunert, "Engineered Aequorin for the Detection of Apoptosis", NanoFlorida 2014, Miami, FL, September 24-26, 2014.
- 377.K. Grinstead, L. Rowe, S. Daunert, "The Site-Specific Incorporation of Non-Natural Amino Acids into Aequorin to Develop New Aequorin Mutants for Use as a Molecular Reporter", NanoFlorida 2014, Miami, FL, September 24-26, 2014.
- 378.X. Yu, D. Scott, E. Dikici and S. Daunert, "Simultaneous Multiplexed Cytokine Analysis Using semi-synthetic Aequorin Fusion Proteins", NanoFlorida 2014, Miami, FL, September 24-26, 2014.
- 379.S. Joel, R. Utharala, A.K. Bhattacharya, B.E. Haley, L.G. Bachas, and S. Daunert, "Antigen Modulation of the Non-Canonical IgG Binding Site as a Universal Sensing Strategy", NanoFlorida 2014, Miami, FL, September 24-26, 2014.
- 380.S. Daunert. "Biochemistry: The Central Science Educating the New Generation of Physician Scientist", UM Miller School Parents Council, Miami, FL, March 6, 2015.
- 381.S. Daunert, "Bionanotechnology-Based Enabling Technologies in Translational Medicine", Nephrology Conference, UM Miller School of Medicine, Miami, FL, March 13, 2015.
- 382.S. Daunert, "Induction into the Royal Academy", Induction Speech: "Bionanotechnology-Based Enabling Technologies in Translational Medicine", Real Academia Nacional de Farmacia de España, Madrid, Spain, April 8, 2015.
- 383.G. O'Connor, N. Raut, P. Pasini, M. Abreu, S. Daunert, "Detection of bacterial quorum sensing molecules in Inflammatory Bowel Disease", NanoFlorida 2014, Miami, FL, September 24-26, 2014.
- 384.S. Daunert, "Targeted Cell Delivery via Nanocarriers for Wound Healing", "Wound Healing: Innovation and Discovery Symposium, Hawks Cay, Florida Keys, FL, December 12-14, 2014.
- 385.D. Wynn, G. O'Connor, L.D. Knecht, S. Daunert, "The Influence of Persistent Organic Pollutants on the Human Microbiome", 2016 Miami Winter Symposium: Inflammation, Causes and Cure, Miami, FL, January 25, 2016.
- 386.J.M. Zingg, S. Daunert, "Cyclodextrin-Based Nanocarriers for Alpha-Tocopheryl Phosphate and Regulatory Activity in THP-1 Monocytes", 2016 Miami Winter Symposium: Inflammation, Causes and Cure, Miami, FL, January 25, 2016.
- 387.S. Jativa, N. Thapar, P. Daftarian, S. Daunert, S. Deo, "Skeletal Muscle Binding Peptide Conjugated Dendrimer Nanoparticles as a Gene Delivery platform for Anti-Inflammatory Mediators", 2016 Miami Winter Symposium: Inflammation, Causes and Cure, Miami, FL, January 25, 2016.
- 388.E. Jeffrey, G. O'Connor, N. Salgado, S. Daunert, D. Dietrich, S. Deo, "Interplay Between Spinal Cord Injury and the Gut Microbiome: Potential Mechanisms and Therapies for SCI-Induced Bowel Dysfunction", 2016 Miami Winter Symposium: Inflammation, Causes and Cure, Miami, FL, January 26, 2016.
- 389.X. Yu, D. Scott, E. Dikici, S. Daunert, "Simultaneous Multiplexed Cytokine Analysis Using Semi-Synthetic Aequorin Fusion Proteins", 2016 Miami Winter Symposium: Inflammation, Causes and Cure, Miami, FL, January 26, 2016.
- 390.L.D. Knecht, G. O'Connor, R. Mittal, X. Liu, P. Daftarian, P. Pasini, S.K. Deo, S. Daunert, "The Janus Nature of Serotonin", 2016 Miami Winter Symposium: Inflammation, Causes and Cure, Miami, FL, January 26, 2016.
- 391.E. Jeffrey, G. O'Connor, N. Salgado, L.D. Knecht, S. Deo, and S. Daunert, "Host-Microbiome Interactions in Biomedicine", FACCS, Miami, FL, March 3, 2016.
- 392.S. Daunert, "Bionanotechnology-Based Enabling Technologies", 251th ACS Meeting, March 14, 2016.

- 393.S. Daunert, "Bionanotechnology-Based Enabling Technologies in Environmental Sensing and Remediation", Department of Civil and Environmental Engineering, Stanford University, April 1, 2016.
- 394.S. Daunert, "Bionanotechnology-Based Enabling Technologies in Translational Science and Medicine", Lilly Analytical Chemistry Symposium, April 26, 2016.
- 395.S. Daunert, "Bionanotechnology-Based Enabling Technologies in Translational Science and Medicine", Gordon Research Conference in Analytical Biosensors, Newport, Rhode Island, June 27, 2016.
- 396.S. Daunert, "Induction into the Reial Academia de Fàrmacia de Catalunya", Indcution Speech: "Bionanotechnology-Based Enabling Technologies in Translational Medicine", Reial Academia de Fàrmacia de Catalunya, Barcelona, Catalunya, Spain, June 26, 2016.
397. NON-CONFERENCE PRESENTATIONS
- 398.M. S. Barbarakis, S. Daunert, and L. G. Bachas, "Charge Effects in Immunoassays", 2nd International Bioanalytical Workshop, May 23, 1989, Lawrence, KS.
- 399.S. Daunert, A. Florido, and L. G. Bachas, "Anion-Selective Electrodes Based on Electropolymerized Ion-Carriers", Gordon Conference, July, 1991, RI.
- 400.A. Witkowski, S. Daunert, M. S. Kindy, and L. G. Bachas, "An Enzyme-Linked Immunosorbent Assay (ELISA) for an Octapeptide Based on a Genetically Engineered Fusion Protein", The 9th International Biotechnology Symposium", August 18, 1992, Crystal City, VA.
- 401.S. Daunert, "Exploring the Interface of Analytical Chemistry and Molecular Biology: Design of Highly Sensitive and Selective Methods", April 8, 1996, Department of Chemistry, University of Kansas, Lawrence, KS.
- 402.S. Daunert, "Exploring the Interface of Analytical Chemistry and Molecular Biology: Design of Highly Sensitive and Selective Methods", September 13, 1996, Department of Chemistry, University of Louisville, Louisville, KY.
- 403.S. Daunert, "Exploring the Interface of Analytical Chemistry and Molecular Biology: Design of Highly Sensitive and Selective Methods", September 19, 1996, Department of Chemistry, University of Pittsburgh, Pittsburgh, PA.
- 404.S. Daunert, "Exploring the Interface of Analytical Chemistry and Molecular Biology: Design of Highly Sensitive and Selective Methods", October 8, 1996, Center of Membrane Sciences, University of Kentucky, Lexington, KY.
- 405.S. Daunert, "Genetically Engineered Proteins and Cells for Optical Sensing", NSF-Workshop on Chemical Sensors, May 9, 1997, Black Mountain Lake, NY.
- 406.S. Daunert, "Sensing Systems Based on Genetically Engineered Proteins and Cells", General Electric Corporate Research and Development, June 25, 1997, Niskayuna, NY.
- 407.S. Daunert, "Sensing Systems Based on Genetically Engineered Proteins and Cells", Gordon Conference on Analytical Chemistry, August 11, 1997, New England College, Henniker, NH.
- 408.S. Daunert, "Exploring the Interface of Analytical Chemistry and Molecular Biology: Design of Highly Sensitive and Selective Methods", September 24, 1997, Department of Chemistry, Texas A&M University, College Station, TX.
- 409.S. Daunert, "Chemical Sensors for Life-Support Systems", 1997 and Beyond: Capacity and Infrastructure Building in the EPSCoR States, February 19, 1997, Wintergreen, VA.
- 410.S. Daunert and L. G. Bachas, "Chemical Sensors for Life-Support Systems", 1997 Kentucky-EPSCoR Conference, May 6, 1997, Lexington, KY.
- 411.S. Daunert, "Design of Highly Sensitive and Selective Methods Based on Genetically Engineered Proteins and Cells", October 30, 1997, Department of Chemical Engineering, University of California at Santa Barbara, Santa Barbara, CA.
- 412.S. Daunert, "Exploring the Interface of Analytical Chemistry and Molecular Biology: Design of Highly Sensitive and Selective Methods", November 5, 1997, Naval Research Laboratories, Washington, DC.
- 413.S. Daunert, "Higly Sensitive and Selective Biosensing Methods and Microanalyses Based on Genetic Engineering Strategies", November 21, 1997, Center for Industrial Sensors and Measurements, Ohio State University, Columbus, OH.
- 414.S. Daunert, "Exploring the Interface of Analytical Chemistry and Molecular Biology: Design of Highly Sensitive and Selective Methods", November 28, 1997, Department of Chemistry, University of Athens, Athens, Greece.
- 415.S. Daunert, "Exploring the Interface of Analytical Chemistry and Molecular Biology: Design of Highly Sensitive and Selective Methods", February 2, 1998, Department of Biochemistry and Molecular Biology, Wayne State University, Detroit, MI.
- 416.S. Daunert, "Exploring the Interface of Analytical Chemistry and Molecular Biology: Design of Highly Sensitive and Selective Methods", March 24, 1998, Department of Chemistry, University of Massachusetts, Amherst, MA.
- 417.S. Daunert, "Exploring the Interface of Analytical Chemistry and Molecular Biology: Design of Highly Sensitive and Selective Methods", May 1, 1998, Department of Chemistry, University of North Carolina-Greensboro, Greensboro, NC.
- 418.S. Daunert, "Design of Highly Sensitive and Selective Methods Based on Genetically Engineered Proteins and Cells", July, 1998, US Geological Survey, Louisville, KY.
- 419.S. Daunert, "Design of Highly Sensitive and Selective Methods Based on Genetically Engineered Proteins and Cells", September 28, 1998, Gamera Bioscience, Medford, MA.

- 420.S. Daunert, "Design of Highly Sensitive and Selective Methods Based on Genetically Engineered Proteins and Cells", October 16, 1998, Lilly Research Laboratories, Eli Lilly and Company, Indianapolis, IN.
- 421.S. Daunert "Sensing Systems Based on Genetically Engineered Bacteria", National Science Foundation CAREER Awardees Symposium, January 10, 1999, Washington, DC.
- 422.S. Daunert, "Sensing with Recombinant Proteins and Cells", January 13, 1999, Gordon Research Conference on Biosensors, Ventura, CA. S. Daunert, "Highly Sensitive and Selective Biosensing and Microanalytical Methods Based on Genetic Engineering Strategies", Becton-Dickinson, July, 1999, Raleigh, NC.
- 423.S. Daunert, "Genetically Engineered Microorganisms as Biosensors for Environmental Toxins", 9th European Congress on Biotechnology, July 13, 1999, Brussels, Belgium.
- 424.S. Daunert, "Bioluminescence in the Sensitive and Small Volume Detection of Biological Molecules", Gordon Research Conference on Analytical Chemistry, August 6, 1999, Henniker, NH.
- 425.S. Daunert, "Highly Sensitive and Selective Biosensing and Microanalytical Methods Based on Genetic Engineering Strategies", Naval Research Laboratories, September 10, 1999, Washington, DC.
- 426.S. Daunert, "Recombinant Methods in Protein and Whole Cell Biosensing", The International Society for Optical Engineering, September 22, 1999, Boston, MA.
- 427.S. Daunert, "Luminescent Reporter Proteins in the Development of Highly Sensitive Assays", FACSS XXVI, October 24-29, 1999, Vancouver, Canada.
- 428.S. Daunert, "Reporter Proteins in Genetically Engineered Sensing Systems", Gordon Research Conference on Electrochemistry, January 19, 2000, Ventura, CA.
- 429.S. Daunert, "Highly Sensitive and Selective Biosensing and Microanalytical Methods Based on Genetic Engineering Strategies", Abbott Research Laboratories, February 16, 2000, Chicago, IL.
- 430.S. Daunert, "Highly Sensitive and Selective Biosensing and Microanalytical Methods Based on Genetic Engineering Strategies", Center for Biomedical Engineering, University of Kentucky, February 21, 2000, Lexington, KY.
- 431.S. Daunert, "Highly Sensitive and Selective Biosensing and Microanalytical Methods Based on Genetic Engineering Strategies", University of Washington, April 10, 2000, Seattle, WA.
- 432.S. Daunert, "Highly Sensitive and Selective Biosensing and Microanalytical Methods Based on Genetic Engineering Strategies", University of Arizona, April 26, 2000, Tucson, AZ.
- 433.S. Daunert, "Highly Sensitive and Selective Biosensing and Microanalytical Methods Based on Genetic Engineering Strategies", University of Cincinnati, May 4, 2000, Cincinnati, OH.
- 434.S. Daunert, "Recombinant Methods in Protein and Whole Cell Biosensing", CMACS 2000 Meeting, May 17, 2000, Cincinnati, OH.
- 435.S. Daunert, "Highly Sensitive and Selective Biosensing and Microanalytical Methods Based on Genetic Engineering Strategies", Bioscience Division, Los Alamos National Laboratories, September 20, 2000, Los Alamos, NM.
- 436.J. Feliciano, J.R. van der Meer, D. Balluch, and S. Daunert. "Rapid and Cheap Testing of Arsenic Contamination" Arsenic Symposium: Arsenic in Rocks, Soils, Sediments and Water, October 2, 2001, Bern, Switzerland.
- 437.J. Feliciano, J. R. van der Meer, and S. Daunert. "Bacterial Biosensors Based on Reporter Gene Technology for Arsenic Detection" Swiss Federal Institute for Environmental Science and Technology (EAWAG) Process MIX Seminar Series, October 12, 2001, Duebendorf, Switzerland.
- 438.J. R. van der Meer, J. Feliciano, D. Balluch, and S. Daunert. "Development of a Bacterial Biosensor for Measuring Arsenic Contamination in Drinking Water" Swiss Federal Institute for Environmental Science and Technology (EAWAG) Friday Seminar Series, November 9, 2001, Duebendorf, Switzerland.
- 439.S. Daunert, "Biosensing and Microanalytical Methods Based on Genetic Engineering Strategies", ISAS, January 3, 2002, Dortmund, Germany.
- 440.S. Daunert, "Biosensing and Microanalytical Methods Based on Genetic Engineering Strategies", Eli Lilly, January 12, 2002, Indianapolis, IN.
- 441.S. Daunert, "Biosensing and Microanalytical Methods Based on Genetic Engineering Strategies: New Tools for the 21st Century", Environmental Systems, University of Kentucky, January 29, 2002, Lexington, KY.
- 442.S. Daunert, "Biosensing and Microanalytical Methods Based on Genetic Engineering Strategies: New Tools for the 21st Century", Department of Physiology, University of Kentucky, February 12, 2002, Lexington, KY.
- 443.S. Daunert, "Biosensing and Microanalytical Methods Based on Genetic Engineering Strategies", Materials Research Society Meeting, April 4, 2002, San Francisco, CA.
- 444.S. Daunert, "Biosensing and Microanalytical Methods Based on Genetic Engineering Strategies", Symposium in the Honor of Dr. G. Digenis, University of Kentucky 2002 Post-Graduate Conference, College of Pharmacy, May 9, 2002, Lexington, KY.
- 445.S. Daunert, "Genetic Engineering Strategies in Biosensing and Micro/Nanoanalytical Methods", Department of Mechanical and Aeronautical Engineering, University of California Irvine, November 21, 2002, Irvine, CA.
- 446.J. Feliciano and Sylvia Daunert, "Biosensing and Microanalytical Methods Based on Genetic Engineering Strategies", Invited Lecture, Department of Materials Science and Chemical Engineering, University of Kentucky, November 26, 2002, Lexington, KY.

447. J. D. Ehrick, S. K. Deo, L. G. Bachas, S. Daunert, "Stimuli-Responsive Hydrogels with Integrated Protein Recognition for Sensing and Drug Delivery Applications", Bioengineering and Biochemistry Group (BBG) Research Symposium, July 11, 2003, Tarragona, Spain.
448. S. Daunert, "Achieving the Whole through Integration: Genetic Engineering Strategies in Biosensing and Micro/Nanoanalytical Methods", Department of Chemistry, Tufts University, October 10, 2003, Medford, MA.
449. S. Daunert, "Achieving the Whole through Integration: Genetic Engineering Strategies in Biosensing and Micro/Nanoanalytical Methods", Keynote Speaker, Graduate Symposium, University of Kansas, October 2003, Lawrence, KA.
450. S. Daunert, "Genetic Engineering Strategies in Biosensing and Micro/Nanoanalytical Methods: Potential for Diagnostics in Dentistry", Louisiana State University, November 7, 2003, New Orleans, LA.
451. J. D. Ehrick, S. K. Deo, L.G. Bachas, S. Daunert, "Stimuli-Responsive Hydrogels with Integrated Protein Recognition for Sensing and Drug Delivery Applications", United States Food and Drug Administration, Center for Devices and Radiological Health, Division of Chemistry and Materials Engineering, June 4, 2004, Rockville, MD.
452. S. Daunert, "Achieving Multianalyte Detection Through Integration of Genetically Engineered Biosensing Systems in Microfabricated Devices", Universitat Rovira i Virgili, July 16, 2004, Tarragona, Spain.
453. S. Daunert, "Genetic Engineering in Biosensing and Micro/Nanoanalytical Methods", Universitat Rovira i Virgili, July 18, 2004, Tarragona, Spain.
454. E. Dikici, S. K. Deo, L. Rowe, and S. Daunert, "Genetic Engineering Strategies in Biosensing and Micro/Nanoanalytical Methods", Calcium-Regulated Photoproteins and Green Fluorescent Proteins Friday Harbor Laboratories Symposium, August 29-September 3, 2004, Friday Harbor, WA.
455. S. Daunert "Genetic Engineering Strategies in Biosensing and Micro/Nanoanalytical Methods", University of Kentucky, College of Dentistry, February 15, 2005, Lexington, KY.
456. S. Daunert, "Genetic Engineering Strategies in Biosensing and Micro/Nanoanalytical Methods", Distinguished Professor Award Lecture, College of Arts & Sciences, University of Kentucky, March 23, 2005, Lexington, KY.
457. S. Daunert, "In vivo Biosensing and Implantable Devices", Gordon Research Conference on Chemical Sensors and Interfacial Design, September 1, 2005, Queen's College, Oxford, England.
458. S. Daunert, "In vivo Biosensing and Implantable Devices", Grand Rounds, Department of Internal Medicine, College of Medicine, University of Kentucky, September 23, 2005, Lexington, KY.
459. K. Turner, S. Xu, P. Pasini, S.K. Deo, L. G. Bachas, and S. Daunert, "Quantitation of Hydroxylated Polychlorinated Biphenyls Using Recombinant Sensing Systems", Kentucky Research Consortium for Energy and the Environment (KRCEE) Technical Symposium, April, 2007, Lexington, KY.
460. K. Turner, A. Date, P. Pasini, L. G. Bachas and S. Daunert, "Sensing Superfund Chemicals with Recombinant Systems", Kentucky Research Consortium for Energy and the Environment (KRCEE) Technical Symposium, Lexington, KY, October 30, 2007. S. Daunert, "Nanomedicine: Science Fiction or a Reality?", Phi Beta Kappa, Lexington, KY, April 25, 2007.
461. L. Doleman, L. Davies, L. A. Rowe, E. Moschou, S. K. Deo, and S. Daunert, "Development of a DNA Hybridization Assay for Plasmodium falciparum based on the Photoprotein Aequorin" Clinical and Translational Sciences Spring Conference, University of Kentucky, April 2008.
462. S. Daunert, "Achieving Scientific Goals Through Integration: Genetic Engineering Strategies in Biosensing and Micro/Nanoanalytical Methods", University of Minnesota, April 30, 2009.
463. S. Daunert, "Genetically Diverse Biosensors and Bionanoanalytical Methods", Florida International University, February 5, 2010.
464. S. Daunert, "Genetically Diverse Biosensors and Bionanoanalytical Methods", University of Miami, March 5, 2010.
465. S. Daunert, "Genetically Diverse Biosensors and Bionanoanalytical Methods", University of Arkansas, April 29, 2010.
466. S. Daunert, "Genetically Diverse Biosensors and Bionanoanalytical Methods", University of Alabama, April, 2010.
467. S. Daunert, "Genetically Diverse Biosensors and Bionanoanalytical Methods", "Plenary Lecture", Symposium on Engineered Molecules for Optical Biosensors, Gordon Research Conference on Bionalytical Sensors, June 20-25, 2010 Colby-Sawyer College New London, NH.
468. S. Daunert, "Genetically Diverse Biosensors and Bionanoanalytical Methods", Invited Lecturer Florida International University, Miami, FL, November 12, 2010.
469. S. Daunert, "Genetically Diverse Biosensors and Bionanoanalytical Methods", Keynote Lecturer, The 2nd Annual Retreat of the Biomedical Nanoscience Initiative of the University of Miami, BioNium, Miami, FL, December 9, 2010.
470. S. Daunert, "Genetically Diverse Biosensors and Bionanoanalytical Methods", Annual Meeting of the Association of Medical and Graduate Departments of Biochemistry, January 16, 2011, Saint Maartens.
471. S. Daunert, "Bionanotechnology-Inspired Biosensors and Molecular Diagnostic Tools", Invited Lecturer, University of Miami Obesity Symposium, Miami, FL, October 10, 2011.
472. S. Daunert, "Bionanotechnology-Inspired Biosensors and Molecular Diagnostic Tools", Invited Lecturer, University of Miami Molecular and Cellular Pharmacology Seminar Series, Miami, FL, December 15, 2011.
473. S. Daunert, "Symposium Miami Executive Leadership in Academic Medicine, Organizer and Speaker, Mileir School of Medicine, Miami, FL, January 26, 2012.

- 474.S. Daunert, "Detroit Executive Leadership in Academic Medicine Symposium", Invited Speaker, Wayne State University, Detroit, MI, October 12, 2012.
- 475.S. Daunert, "Bionanotechnology-Inspired Biosensors and Molecular Diagnostic Tools", International Neonatology Conference, Miami, FL, November 2, 2012.
- 476.S. Daunert, "Invited Speaker", Gut Microbiology Web Workshop, U.S. Office of Naval Research and Air Force Research Laboratory, June 20, 2013.
- 477.S. Daunert, "Bionanotechnology-Inspired Biosensors, Molecular Diagnostic Tools and Drug Delivery Systems", Grand Rounds, Department of Otorrinolaringology, Miller School of Medicine, University of Miami, Miami, December 5, 2013.
- 478.S. Belkin and S. Daunert, "Standoff Direction of Buried Landmines and Unexploded Ordnance", Grand Rounds, NATO Headquarters, Brussels, Belgium, June 19, 2014.
- 479.S. Daunert, "Biochemistry: The Central Science Educating the New Generation of Physician Scientist", UM Miller School Parents Council, Miami, FL, March 6, 2015.
- 480.S. Daunert, "Bionanotechnology-Based Enabling Technologies in Translational Medicine", Nephrology Conference, UM Miller School of Medicine, Miami, FL, March 13, 2015.
- 481.S. Daunert, "Bionanotechnology-Based Enabling Technologies in Translational Medicine", Induction Ceremony into the Real Academia Nacional de Farmacia, Madrid, Spain, April 8, 2015.

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#### **INVITED PRESENTATIONS**

1. XVIII Annual Congress, III Italian-Spanish Congress on Thermodynamics of Metal Complexes, June 1993, Rome, Italy.
2. International Conference on Biofunctional Membranes, April 1995, Lexington, KY.
3. International Chemical Congress of Pacific Basin Societies, December 1995, Honolulu, HI.
4. 1996 Water Resources Institute Annual Symposium, February 1996, Lexington, KY.
5. Department of Chemistry, University of Kansas, April 1996, Lawrence, KS.
6. Department of Chemistry, University of Louisville, September 1996, Louisville, KY.
7. Department of Chemistry, University of Pittsburgh, September 1996, Pittsburgh, PA.
8. Center of Membrane Sciences, University of Kentucky, October 1996, Lexington, KY.
9. 1997 and Beyond: Capacity and Infrastructure Building in the EPSCoR States, February 1997, Wintergreen, VA.
10. NSF-Workshop on Chemical Sensors, May 1997, Black Mountain Lake, NY.
11. 80th Canadian Society of Chemistry Conference, June 1997, Windsor, Canada.
12. General Electric Corporate Research and Development, June 1997, Niskayuna, NY.
13. Gordon Conference on Analytical Chemistry, August 1997, New England College, Henniker, NH.
14. Department of Chemistry, Texas A&M University, September 1997, College Station, TX.
15. Department of Chemical Engineering, University of California at Santa Barbara, October 1997, Santa Barbara, CA.
16. Center for Industrial Sensors and Measurements, Ohio State University, November 1997, Columbus, OH.
17. Department of Chemistry, University of Athens, November 1997, Athens, Greece.
18. The International Society for Optical Engineering, January 1998, San Jose, CA.
19. Department of Biochemistry and Molecular Biology, Wayne State University, February 1998, Detroit, MI.
20. Department of Chemistry, University of Massachusetts, March 1998, Amherst, MA.
21. Department of Chemistry, University of North Carolina-Greensboro, May 1998, Greensboro, NC.
22. US Geological Survey, July 1998, Louisville, KY.
23. Medical Diagnostics Symposium, 215th ACS National Meeting, August 24, 1998, Boston, MA.
24. 10th. Symposium on Bioluminescence and Chemiluminescence, September 7, 1998, Bologna, Italy.
25. Gamera Bioscience, September 28, 1998, Medford, MA.
26. Department of Chemistry, Concordia University, October 1998, Montreal, Canada.
27. Lilly Research Laboratories, Eli Lilly and Company, October 1998, Indianapolis, IN.
28. National Science Foundation CAREER Awardees Symposium, January 1999, Washington, DC.
29. Gordon Research Conference on Biosensors, January 1999, Ventura, CA.
30. National Science Foundation Workshop on Analytical Instrumentation Challenges for the Next Millenium, March 1999, Orlando, FL.
31. American Chemical Society Meeting, Symposium on Environmental Chemistry, Anaheim, CA, March 1999.
32. Materials Research Society, April 1999, San Francisco, CA.

33. American Chemical Society Meeting, Symposium on Materials in Micromachining: A New Vision for MEMS, June 1999, Columbus, OH.
34. Becton-Dickinson, July 1999, Raleigh, NC.
35. 9th European Congress on Biotechnology, July 1999, Brussels, Belgium.
36. Gordon Research Conference on Analytical Chemistry, August 6, 1999, Henniker, NH.
37. Naval Research Laboratories, September 1999, Washington, DC.
38. National Institutes of Dental and Craniofacial Research-Workshop on Oral Diagnostics, September 1999, Airlie, VA.
39. The International Society for Optical Engineering, September 1999, Boston, MA.
40. FACSS XXVI, October 1999, Vancouver, Canada.
41. Gordon Research Conference on Electrochemistry, January 2000, Oxnard, CA.
42. NanoSpace 2000, January 2000, Houston, TX.
43. "Distinguished Scientist", Abbott Research Laboratories, February 2000, Chicago, IL.
44. American Institute of Chemical Engineers, March 2000, Atlanta, GA.
45. Department of Chemistry, University of Washington, April 2000, Seattle, WA.
46. Department of Chemistry, University of Arizona, April 2000, Tucson, AZ.
47. Department of Chemistry, University of Cincinnati, May 2000, Cincinnati, OH.
48. CMACS 2000 Meeting, May 2000, Cincinnati, OH.
49. "Distinguished Lecturer", Bioscience Division, Los Alamos National Laboratories, September 2000, Los Alamos, NM.
50. SPIE Meeting, January 2001, San Jose, CA.
51. Nanogen, March 15, 2001, San Diego, CA.
52. North American Membrane Society Meeting, May 15, 2001, Lexington, KY.
53. "Award Address", Eastern Analytical Symposium, October 4, 2001, Atlantic City, NJ.
54. ISAS, January 3, 2002, Dortmund, Germany.
55. "Awardee Speaker", Eli Lilly, January 12, 2002, Indianapolis, IN.
56. Environmental Systems, University of Kentucky, January 29, 2002, Lexington, KY.
57. Department of Physiology, University of Kentucky Medical School, February 12, 2002, Lexington, KY.
58. "Keynote Speaker", PITTCO'02, March 2002, New Orleans, LA.
59. Materials Research Society Meeting, April 4, 2002, San Francisco, CA.
60. "Keynote Speaker", University of Kentucky 2002 Post-Graduate Conference, College of Pharmacy, May 9, 2002, Lexington, KY.
61. "Keynote Speaker", The 5th Workshop on Biosensor and Bioanalytical Techniques in Environmental Analysis, May 2002, Cornell University, Ithaca, NY.
62. "Celebrating Women in Analytical Chemistry", 224th ACS National Meeting, August 19, 2002, Boston, MA.
63. Annual Meeting of the Society for Industrial Microbiology, August 2002, Philadelphia, PA
64. "Plenary Lecturer", Euroanalysis, September 2002, Dortmund, Germany.
65. Internet Seminar, Sponsored by: National Institutes of Health, National Institutes of Environmental Health, Environmental Protection Agency, November 2002.
66. Department of Mechanical and Aeronautical Engineering, University of California Irvine, November 2002, Irvine, CA.
67. "Keynote Speaker" NanoTech2002, November 2002, Montreux, Switzerland.
68. Purdue University, April 2003, West Lafayette, IN.
69. Tufts University, October 2003, Medford, MA.
70. "Plenary Lecturer", University of Kansas, October 2003, Lawrence, KA.
71. NanoTech2003, November 2003, Montreux, Switzerland.
72. Louisiana State University, November 2003, New Orleans, LA.
73. Superfund Basic Research Program Annual Meeting 2003, November 2003, Hanover, NH.
74. "Plenary Lecturer", Europtode VII, April 2004. Madrid, Spain.
75. "Plenary Lecturer", Universitat Rovira i Virgili, July 2004, Tarragona, Spain.
76. Friday Harbor Laboratories Symposium, August 2004, Friday Harbor, WA.
77. Superfund Basic Research Program Annual Meeting, November 2004, Seattle, WA.
78. University of California Davis, January 2005, Davis, CA.

79. "Plenary Lecturer", College of Dentistry, University of Kentucky, February 2005, Lexington, KY.
80. "Plenary Lecturer", International BIOMEMS Symposium, March 2005, Monterrey, Mexico.
81. 227<sup>th</sup> National Meeting of the American Chemical Society, March 2005, San Diego, CA.
82. Distinguished Professor Award Lecture, College of Arts & Sciences, University of Kentucky, March 23, 2005, Lexington, KY.
83. "Plenary Lecturer", Gordon Research Conference on Chemical Sensors and Interfacial Design, September 1, 2005, Queen's College, Oxford, England
84. Grand Rounds Lecture, College of Medicine, University of Kentucky, September 23, 2005, Lexington, KY.
85. "Plenary Lecturer", National Meeting of the American Institute for Chemical Engineers, November 1, 2005, Cincinnati, OH.
86. SPIE-Photonics West, January 24, 2006, San Jose, CA.
87. "Frontiers in Colloids, Surface and Supramolecular Chemistry in Biomedical Applications", 40th Western Regional Meeting of the American Chemical Society, January 22-25th, 2006, Anaheim, CA.
88. "Nanohybrid Bioanalytical Systems", PITTCO '06, March 12-16, 2006, Orlando, FLA.
89. "Polymers Divisions", 231<sup>st</sup> National Meeting of the American Chemical Society, September 10, 2006, San Francisco, CA.
90. "Bacterial Biofilms", 232<sup>nd</sup> American Chemical Society (ACS) National Meeting, San Francisco, CA, September 10-14, 2006.
91. "Biosensors", 2006 Materials Research Society Fall Meeting, November 27-December 1, 2006, Boston, MA.
92. Invited Speaker, KRCEE, Lexington, KY, April, 2007.
93. Medical Devices Technologies, Minneapolis, MN, April 18, 2007.
94. Phi Beta Kappa, Lexington, KY, April 26, 2007.
95. CERMACS, May 21, 2007.
96. "Plenary Lecturer", 41<sup>st</sup> IUPAC World Congress, Torino, Italy, August 5-11, 2007.
97. "Distinguished Professor", AMC/FUMEC, IPN, Mexico DF, Mexico, September 3-8, 2007.
98. "Keynote Speaker", 12<sup>th</sup> International Meeting on Recent Developments in Pharmaceutical Analysis, RDP A 2007 Symposium, Isle of Elba, Italy, September 23-26, 2007.
99. Invited Speaker, KRCEE, Lexington, KY, October 30, 2007.
100. Invited Speaker, 20<sup>th</sup> Anniversary of the NIEHS-SBRP Program", Raleigh, NC, December 3, 2007.
101. Invited Speaker, PITTCO 2008, New Orleans, LA, March 3, 2008.
102. Invited Lecturer, Department of Chemistry, University of Illinois, Urbana-Champaign, May 4, 2008.
103. Invited Speaker, XIII International Symposium on Luminescence Spectrometry, Bologna, Italy, September 10, 2008.
104. NIEHS Superfund Basic Research and Training Program 2008 Annual Meeting, Pacific Grove, CA, December 7-9, 2008.
105. "Invited Lecturer", Department of Chemistry, University of Florida, February 25, 2009.
106. "Invited Lecturer", NASA The Institute for Biological Engineering Annual Meeting, Santa Clara, CA, March 19-22, 2009.
107. From Molecular Biology to Human Therapies: Strategies, Challenges and Opportunities, The Arnold and Mable Beckman Center of the National Academies of Engineering, Irvine, CA, April 20, 2009.
108. "Invited Lecturer", Department of Chemistry, University of Minnesota, April 30, 2009.
109. "Plenary Lecturer", Fourth International Workshop on Biosensors for Food Safety and Environmental Monitoring in Tangier (Morocco), October 1-3, 2009.
110. "Plenary Lecturer", Symposium on Bionanotechnology, 2009 AIChE National Meeting, Nashville, TN, November 10, 2009.
111. "Invited Lecturer", Department of Chemical Engineering, Florida International University, February 5, 2010.
112. "Invited Lecturer", Department of Chemistry, University of Miami, March 5, 2010.
113. "Invited Lecturer", Department of Chemical Engineering, University of Arkansas, April 29 4, 2010.
114. "Invited Lecturer", Department of Chemical Engineering, University of Alabama, April 2010.
115. "Plenary Lecturer", Symposium on Engineered Molecules for Optical Biosensors, Gordon Research Conference on Bioanalytical Sensors, Colby-Sawyer College New London, NH, June 20-25, 2010.
116. "Plenary Lecturer", International Symposium on Biotechnology, Rimini, Italy, September, 2010.
117. "Invited Lecturer", College of Medicine, Florida International University, November 12, 2010.



118. "Keynote Lecturer", BioNium, Miami, FL, December 9, 2010.
119. "Plenary Lecturer", Annual Meeting of the Association of Medical and Graduate Departments of Biochemistry, Sint Maartens, January 16, 2011.
120. "Invited Lecturer", University of Miami Obesity Symposium, October 10, 2011
121. "Invited Lecturer", University of Miami Molecular and Cellular Pharmacology Seminar Series, December 15, 2011.
122. "Invited Lecturer", Symposium Miami Executive Leadership in Academic Medicine, January 26, 2012.
123. "Invited Lecturer", Detroit Executive Leadership in Academic Medicine Symposium, Wayne State University, October 12, 2012.
124. "Invited Lecturer" Miami Neonatology Conference, November 1, 2012.
125. "Commencement Speaker" University of Miami Graduate Commencement Ceremony, May 9, 2013.
126. "Invited Speaker", Gut Microbiology Web Workshop, U.S. Office of Naval Research and Air Force Research Laboratory, June 20, 2013.
127. "Invited Speaker", 14<sup>th</sup> IUBMB Conference on Host-Gut Microbiome Interactions, November 19, 2013.
128. "Invited Speaker", Grand Rounds, Department of Otorrinolaringology, Miller School of Medicine, University of Miami, December 6, 2013.
129. "Invited Speaker", presented "BioNano Enabling Technologies", 22nd Annual Chandler Society Resident & Fellow Research Forum, Department of Otorrinolaringology, Miller School of Medicine, University of Miami, June 7, 2014.
130. "Invited Speaker", NATO Headquarters, Brussels, Belgium, June 19, 2014.
131. "Invited Speaker", Wound Healing: Innovation and Discovery Symposium, Hawks Cay, Florida Keys, FL, December 12-14, 2014.
132. "Invited Speaker" UM Miller School Parents Council, "Biochemistry: The Central Science Educating the New Generation of Physician Scientist", Miami, FL, March 6, 2015.
133. "Invited Speaker" Nephrology Conference, UM Miller School of Medicine "Bionanotechnology-Based Enabling Technologies in Translational Medicine", Miami, FL, March 13, 2015.
134. "Induction into the Royal Academy", Induction Speech: "Bionanotechnology-Based Enabling Technologies in Translational Medicine", Real Academia Nacional de Farmacia de España, Madrid, Spain, April 8, 2015.
135. "Host-Microbiome Interactions in Biomedicine", FACCS, Miami, FL, March 3, 2016.
136. "Bionanotechnology-Based Enabling Technologies", 251<sup>th</sup> ACS Meeting, March 14, 2016.
137. "Bionanotechnology-Based Enabling Technologies in Environmental Sensing and Remediation", Stanford University, April 1, 2016.
138. "Bionanotechnology-Based Enabling Technologies in Translational Science and Medicine", Lilly Analytical Chemistry Symposium, April 26, 2016.
139. "Bionanotechnology-Based Enabling Technologies in Translational Science and Medicine", Gordon Research Conference in Analytical Biosensors, Newport, Rhode Island, June 27, 2016.
140. "Induction into the Real Academia de Farmacia de Catalunya", Induction Speech: "Bionanotechnology-Based Enabling Technologies in Translational Medicine", Real Academia de Farmacia de Catalunya, Barcelona, Catalunya, Spain, June 26, 2016.

#### **SELECTED MEDIA COVERAGE**

- Dr. Daunert featured in Telenoticiario Univision, December 2015, <http://www.univision.com/shows/noticiero-univision/tatuajes-de-uso-medico-video>
- Daniel Wynn, a graduate student in the Daunert Group featured in the NIH Series "The Future Heroes of Medical Research", July 2015, <http://www.labtv.com/Home/Profile?researcherId=1374>
- Samuel Jativa, a graduate student in the Bionano Group featured in the NIH Series "The Future Heroes of Medical Research", July 2015, <http://www.labtv.com/Home/Profile?researcherId=1410>
- David Broyles, a graduate student in the Bionano Group featured in the NIH Series "The Future Heroes of Medical Research", July 2015, <http://www.labtv.com/Home/Profile?researcherId=1411>
- Dr. Smita Joel, a postdoctoral fellow in the Daunert Group featured in the NIH Series "The Future Heroes of Medical Research", July 2015 <http://www.labtv.com/Home/Profile?researcherId=1396>
- Dr. Sylvia Daunert Elected to Scientific Academy in Spain, UM's e-update newsletter, April 28, 2015, <http://med.miami.edu/news/dr.-sylvia-daunert-elected-to-scientific-society-in-spain>
- RANF-TV: "Toma de Posesión de la Ilma. Sra. Dña. Sylvia Daunert"; <http://www.ranf.tv/index.php/video/332/toma-de-posesion-de-la-ilma-sra-dña-sylvia-daunert>
- Real Academia Nacional de Farmacia de España: "Toma de Posesión de la Dra. Sylvia Daunert", Miércoles, 8 de Abril del 2015, <http://www.ranf.com/sesiones-y-actos/recepciones/2126-toma-de-posesion-dra-daunert.html>



- Dr. Daunert featured on Bio-Medicine: June 11, 2014 "Toward 24-7 glucose monitoring to help manage diabetes" <http://www.bio-medicine.org/medicine-news-1/Toward-24-7-glucose-monitoring-to-help-manage-diabetes-126906-1/>
- Dr. Daunert featured on Right Now Plus: June, 2014 "Toward 24-7 glucose monitoring to help manage diabetes" <http://rightnowplus.org/EC/es/6864/1/web/n/tecnologia/New-Discoveries-Could-Help-Neutralize-Chemical-Weapon/>
- Dr. Daunert featured on eHealth: June 2014 "New implantable device to track your blood-sugar levels 24/7" <http://ehealth.eletsonline.com/2014/06/new-implantable-device-to-track-your-blood-sugar-levels-247/>
- Dr. Daunert featured on Phys Org: June 11, 2014 "Toward 24-7 glucose monitoring to help manage diabetes" <http://phys.org/news/2014-06-glucose-diabetes.html>
- Dr. Daunert featured on Science Daily: June 11, 2014 "Toward 24-7 glucose monitoring to help manage diabetes" <http://www.sciencedaily.com/releases/2014/06/140611112822.htm>
- Dr. Daunert featured on ACS in the News: June 11, 2014 "Toward 24-7 glucose monitoring to help manage diabetes" <http://acsinthenews.org/?p=2044>
- Dr. Daunert featured on ACS News Service Weekly PressPac: June 11, 2014 "Toward 24-7 glucose monitoring to help manage diabetes" <http://www.acs.org/content/acs/en/pressroom/presspacs/2014/acs-presspac-june-11-2014/toward-24-7-glucose-monitoring-to-help-manage-diabetes.html>
- Leslie Knecht, Graduate Student in the Daunert group, story featured in a video entered in the Tribeca Film Festival and won the Outstanding Role Model Award. [https://www.youtube.com/watch?v=97Uu3\\_m15YM](https://www.youtube.com/watch?v=97Uu3_m15YM)
- Leslie Knecht, Graduate Student in the Daunert group presented Superfund Research Program Trainee Webinar Series, "Sensing Environmental Contaminants with Paper-Based Platforms" May 13, 2014 <http://www.niehs.nih.gov/research/supported/dert/programs/srp/training/webinar/>
- Drs. Sylvia Daunert, members of her research group and Dean Pascal Goldschmidt featured on eUpdate UM Miller School of Medicine signing research partnership agreement with BERG Pharma president Niven Narain, "Miller School Signs Agreement for Drug Discovery Partnership", May 1, 2014 <http://med.miami.edu/news/miller-school-signs-agreement-for-drug-discovery-partnership>
- Press release: University of Miami Miller School of Medicine Partners with Boston Biotech Firm Berg to Fuel the Next Generation of Drug Discovery", April 28, 2014 <http://www.miamiherald.com/2014/04/28/4085080/university-of-miami-miller-school.html>
- Dr. Michal Toborek, Professor and Vice Chair for Research at the Biochemistry and Molecular Biology Department featured on eUpdate UM Miller School of Medicine, "Multidisciplinary Researcher-Physician Earns Society's Highest Honor", April 29, 2014 <http://med.miami.edu/news/multidisciplinary-researcher-physician-earns-societys-highest-honor>
- Members of the Daunert research group featured on eUpdate UM Miller School of Medicine, "Department of Biochemistry and Molecular Biology Dominates at Graduate School Awards", April 22, 2014 <http://med.miami.edu/news/department-of-biochemistry-and-molecular-biology-dominates-at-first-um-gr/>
- Leslie Knecht, a graduate student in the Daunert Group featured in the NIH Series "The Future Heroes of Medical Research", March 2014. [https://www.youtube.com/watch?v=97Uu3\\_m15YM](https://www.youtube.com/watch?v=97Uu3_m15YM)
- Dr. Sylvia Daunert featured on E-veritas University of Miami receiving the Provost Award for Scholarly Activity, "Three Stand-Out Scholars Recognized for Their Achievements", April 4, 2014 <http://everitas.univmiami.net/2014/04/04/three-stand-out-scholars-recognized-for-their-achievements/>
- Leslie Knecht, Graduate Student in the Daunert group research highlighted on IGERT-NSF website, "Remotely Activating Biological Materials with Nanocomposites", December 2013, <http://www.igert.org/highlights/799>
- Leslie Knecht, Graduate Student in the Daunert group won second place on non-biomedical posters at the Annual Meeting of the Superfund Research Program, October 2013, <http://www.niehs.nih.gov/research/supported/dert/programs/srp/events/archive/SRPAnnualMeeting/SRPTraineeAwardWinners/index.cfm>
- Dr. Sylvia Daunert and her collaborator Dr. Richard Cote featured on Miami Herald Newspaper, "Where are Gigantic Breakthroughs Happening in the Tiniest Scale? Nanotechnology at the University of Miami", July 22, 2013, [www.miamiherald.com](http://www.miamiherald.com)
- Dr. Sylvia Daunert and members of her research group featured on E-veritas University of Miami, "First Online Industrial PhD Program Launched by the Department of Biochemistry and Molecular Biology", July 11, 2013 <http://everitas.univmiami.net/2013/07/11/first-online-industrial-ph-d-program-launched-by-department-biochemistry-and-molecular-biology/>
- Dr. Sylvia Daunert, Dean Pascal Goldschmidt and members of the Daunert research group featured on E-veritas University of Miami, "Researchers Develop Model to Predict and Reduce Sudden Cardiac Deaths", May 9, 2013 <http://everitas.univmiami.net/2013/05/09/researchers-develop-model-to-predict-and-reduce-sudden-cardiac-deaths/>

- Dr. Sylvia Daunert featured on E-Veritas University of Miami, Dr. Daunert was the Graduate Commencement Speaker at the Ceremony on May 9, 2013 <http://everitas.univmiami.net/2013/04/26/spring-commencement-ceremonies-to-honor-graduates-distinguished-luminaries/>
- Dr. Sylvia Daunert highlighted on eUpdate UM Miller School of Medicine, "2013 Miami Winter Symposium Focuses on Metabolism and Nutrition" February 12, 2013 <http://med.miami.edu/news/2013-miami-winter-symposium-focuses-on-metabolism-and-nutrition>
- Featured in Nanoworks, October, 2012; [www.nanowerk.com](http://www.nanowerk.com). "Remotely Controlled Haloacid Bioremediation Using an Enzyme-Based Hydrogel".
- Editor's Choice, Analytical and Bioanalytical Chemistry, "Bioluminescence Inhibition Assay for the Detection of Hydroxylated Polychlorinated Biphenyls", August 21, 2012 <http://pubs.acs.org/doi/abs/10.1021/ac301872u?mi=qryllt&af=R&pageSize=20&searchText=tumor>
- The Miami Herald, "Can your genes help create "designer" diets, exercise programs for you?" November 24, 2011
- Feature Cover of Analytical and Bioanalytical Chemistry "Young Investigators Issue", "Probing a Myth: Does the Younger Generation of Scientists have it easier?", June 2012 [http://download.springer.com/static/pdf/876/art%253A10.1007%252Fs00216-012-6083-7.pdf?auth66=1353948146\\_28d0c1b586026937e82121a32ffd835b&ext=.pdf](http://download.springer.com/static/pdf/876/art%253A10.1007%252Fs00216-012-6083-7.pdf?auth66=1353948146_28d0c1b586026937e82121a32ffd835b&ext=.pdf)
- Daunert Group highlighted in E-Veritas Miller School of Medicine: "A Debate on Nutrition and Physical Activity", April 25, 2011 [http://www.miami.edu/index.php/news/releases/a\\_debate\\_on\\_nutrition\\_and\\_physical\\_activity/](http://www.miami.edu/index.php/news/releases/a_debate_on_nutrition_and_physical_activity/)
- Feature Cover of ACS Chemical Biology on "Flashing at Different Colors: Modulating Bioluminescence Emission of the Photoprotein Aequorin by *In Vivo* Site-Directed Incorporation of Non-Natural Amino Acids", May 21, 2010. <http://pubs.acs.org/action/showLargeCover?issue=347665544>
- Featured in Popular Science, "Rebuilding America: 25 New Technologies to our Crumbling Infrastructure", February, 2010, page 41. <http://www.popsci.com/announcements/article/2010-01/february-2010-issue-rebuilding-americas-infrastructure>
- November Podcast of Analytical Chemistry on "Engineering Bioluminescent Proteins: Expanding their Analytical Potential", November 1, 2009: <http://pubs.acs.org/subscribe/journals/ancham/audio/ancham120109.mp3>
- Feature Cover of Analytical Chemistry on "Engineering Bioluminescent Proteins: Expanding their Analytical Potential", November 1, 2009. <http://pubs.acs.org/action/showLargeCover?issue=346494680>
- Feature Cover of Macromolecular Biosciences on "'Accordion"-like Response Mechanism in Glucose-Responsive Hydrogels", September 9, 2009. <http://www3.interscience.wiley.com/journal/122579771/issue?CRETRY=1&SRETRY=0>
- The 2009 Albert D. and Elizabeth H. Kirwan Memorial Prize: <http://www.newswise.com/articles/view/552326/>
- The Daunert group's research has been featured in the production of a video that aired on the Research Channel on November 2008: <http://www.researchchannel.org/prog/displayevent.aspx?rID=27385&fID=345>
- The research on GFP While Cell Biosensors for the environmental detection of arsenic and heavy metals in Bangladesh was highlighted in the "Nobel Prize Information for the Public about the 2008 Nobel Prize in Chemistry" as an important application of GFP, October 2008: [http://nobelprize.org/nobel\\_prizes/chemistry/laureates/2008/info.pdf](http://nobelprize.org/nobel_prizes/chemistry/laureates/2008/info.pdf)
- The Daunert group's research has been highlighted in the Fall 2008 Issue of Ampersand – The Magazine of the UK College of Arts and Sciences: <http://www.as.uky.edu/alumni/ampersand/Pages/default.aspx>
- The Daunert group's research is highlighted in an article on microbe-based sensors in EARTH Magazine in December 2008.
- Feature Cover of Analytical and Bioanalytical Chemistry on "Genetically Modified Foods", October 2008.
- Feature Frontpiece on "A Bioluminescent Molecular Switch for Glucose", *Angewandte Chemie International Edition*, June, 2008.
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- Highlight in Analytical Chemistry, "Binding Proteins: Unrevealing their Analytical Potential", November 1, 2006.
- Pod-Cast Analytical Chemistry on "Binding Proteins: Unrevealing their Analytical Potential"
- Featured in the Cover of Analytical Chemistry, "Binding Proteins: Unrevealing their Analytical Potential", October 15, 2006.
- Featured in the Cover of Analytical and Bioanalytical Chemistry, "Quo Vadis? Leading the Way with the Younger Generation of Scientists", October 1, 2006.

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- Featured in the Cover of Analytical and Bioanalytical Chemistry, "Bioluminescence Resonance Energy Transfer from Aequorin to a Fluorophore: An Artificial Jellyfish", April 1, 2005.
- "Swell Hydrogels", Nature Materials, April 2005, <http://www.nature.com/nmat/thisissue/0405-5.html>
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- University of Kentucky Press, "Daunert Delivers 2005-06 Distinguished Professor Lecture" [http://www.uky.edu/PR/UK\\_News/March\\_28\\_2005/daunert\\_lecture.htm](http://www.uky.edu/PR/UK_News/March_28_2005/daunert_lecture.htm)
- [http://www.uky.edu/PR/UK\\_News/March\\_28\\_2005/bot\\_recognizes.htm](http://www.uky.edu/PR/UK_News/March_28_2005/bot_recognizes.htm)
- [http://www.uky.edu/PR/UK\\_News/April%2026%202004/DaunertDistinguished.html](http://www.uky.edu/PR/UK_News/April%2026%202004/DaunertDistinguished.html)
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- "Primer Simposium en Latino América sobre Micro y Nano tecnologías para aplicaciones médicas y biológicas reúne Pioneros y Líderes en el campo. Biónica, Biochips, Nanotecnología y MEMS Marketing son solo algunos temas a discutir", January 10, 2005, <http://www.ambosmedios.com/releases/2005/1/prweb195686.htm>
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#### CURRENT AND PENDING GRANTS AND CONTRACTS

1. "Protein Displayed Spores and Spore Ghosts Platforms for Detection and Biotransformation", S. Daunert, PI; S. Deo, Co-I, National Science Foundation CHE-1506740, \$360,000, 6/1/15-5/31/18.
2. "A Point-of-Care HPV Test To Screen for Cervical Cancer", S. Daunert, S. Deo, E. Kobetz, PIs, Wallace H. Coulter Center for Translational Research 2016 Commercialization Grant, \$125,000, 6/1/15-5/31/16.
3. "Biologically Targeted Preformulation Delivery System for Novel BERG Investigational Pharmaceutical", S. Daunert, PI; S. Deo, Co-PI; J. Jimenez, Co-PI, BERG Pharma, \$1,152,473, 1/1/14-5/31/16.
4. "Bacterial Quorum Sensing in Inflammatory Bowel Disease Pathogenesis and Management", S. Daunert, PI; S. K. Deo, M. Abreu, and P. Pasini, Co-PIs, Department of Defense-Department of the Army-USAMRAA, \$379,934, 9/1/13-2/28/16.

5. "Th17 Cells as a New Therapeutic Target for Depression", S. Daunert, Co-PI; E. Beurel, PI, NIH-R01, National Institutes of Health-NIMHS, \$1,886,640, 4/1/15-3/31/20.
6. "Sensitive Detection of Viral Persistency Using Bioluminescent Stem-Loop Probes", Daunert, Co-PI; Deo, PI, NIH-R01, National Institutes of Health-NIGMS, \$1,250,000, 4/1/15-3/31/20.
7. "Detection of HIV Viral Persistency", S. Deo, PI; S. Daunert, Co-PI, G. Stone, Co-PI, Miami Center for AIDS Research Florida State Pilot Award, \$60,000, 01/01/15-06/30/15.
8. "Validating a Rapid HPV Test to Increase Screening Intake to Reduce Cervical Cancer Disparities ", E. Kobetz, PI; S. Daunert, PI; S. Deo, PI, Sylvester Developmental Cancer Research Grant Program, \$150,000, 10/1/2014-12/31/16.
9. "Firefighters and Cancer Initiative", S. Daunert, PI; S. Deo, Co-PI, State of Florida, \$150,000, 6/1/16-6/30/17.
10. "REU Site: Research Experiences at the Interface of Chemistry and Biological Sciences", S. Daunert, Co-PI; M. Knecht, PI, National Science Foundation-CHE 1560103, \$306,843, 1/1/16-12/31/19.
11. "Design of a Miniaturized Self-Charging Power Sources for Medical Devices", S. Daunert, Co-PI; L. Bachas, PI; S. Deo, Co-PI, UM/FIU Nanotechnology Collaborative Research Exchange Forum (CREF), \$25,000, 8/1/14-7/31/15.
12. "Remote Long-Lived Sensors for the Detection of Explosives", S. Daunert, PI; S. Deo, Co-PI, Ministry of Defense of the Government of Israel, \$240,000, 3/15/16-2/14/18.
13. "Sense-Drive", S. Daunert and S. K. Deo, Co-PIs; C. Schulman, PI, BMW, \$150,000, 2/1/14-1/31/17.
14. "Zika Virus: Diagnostics and Pathogenesis", S. Daunert, Co-PI; D. Watkins, PI, Miami CTSI Emerging Diseases Research Funding, \$150,000, 1/5/16-5/31/16.
15. "Zika Virus: Diagnostics and Pathogenesis", Co-PI, David Watkins PI; G. Barber, S. K. Deo, M. Stevenson, R. C. Desrosiers, M. Nadjji, E. Kalla, M. Oliveira, M. Bonaldo, G. Silvestri, Co-PIs), CTSI, \$100,000, 1/3/16-12/31/16.
16. "Nanocarrier-Targeted Mesenchymal Stem Cells to Treat Inflammatory Bowel Disease", S. Daunert, M. T. Abreu, and O. Velázquez, PIs, National Institutes of Health-NIAID, \$420,750, 4/1/16-3/31/18, pending.
17. "A Novel Immunoenhancing Nanovaccine for Cocaine", S. Izenwasser, PI; P. V. Lemmon, PI; S. Daunert, Co-PI) National Institutes of Health, \$1,955,976, 4/1/16-6/30/21, pending.
18. "Targeting Tumor Stromal Fibroblasts for Melanoma Therapeutic-Intervention", S. Daunert, Co-PI, Z.J. Liu, PI, National Institutes of Health, \$ 1,918,732, 4/1/16-6/30/21, pending.
19. "Multiplexed TB DNA Detection", S. K. Deo, PI; S. Daunert, Co-PI, National Institutes of Health-NIGMS, \$422,125, 6/1/2016-5/30/2018, pending.
20. "Mood Disorder Treatment by Selective CNS Inhibition of GSK3", S. Daunert, Co-PI; E. Beurel, PI; S. Deo, Co-PI, National Institutes of Health, \$422,482, 4/1/16-3/31/18, pending.
21. "University of Miami-Medicine, Industry, and Discovery Science (UM-MINDS) Traineeship Program", S. K. Deo, PI; S. Daunert, Co-PI, S. Lee, Co-PI, NIH-T-32, National Institutes of Health-NIGMS, \$ 1,048,890, 7/1/16-6/30/21 pending.
22. "NRT-IGE: Big Scientists of America and Beyond", S. K. Deo, PI; S. Daunert, Co-PI; S. Lee, Co-PI, NSF, \$453,810, 6/1/2016 5/30/2018 pending
23. "Regulation of the HIV Life Cycle in the brain by methamphetamine", M. Toborek, PI; S. Daunert, PI, NIH, \$1,918,750, 12/01/16-11/30/21 pending

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#### **PAST GRANTS AND CONTRACTS**

1. "Homogeneous Time-Resolved Fluorescence Assays", American Association for Clinical Chemistry, \$5,000, 6/1/92-5/31/93.
2. "Summer Research Program for Undergraduates", National Science Foundation, \$118,800, 5/29/90-5/28/93. Summers 90 and 91: J. Appling, P.I. Summer 1992: S. Daunert, PI.
3. "Summer Research Program for Undergraduates", National Science Foundation, \$131,400, 5/15/93-5/14/96.
4. "New Affinity Chromatography Materials Based on Complexes of Soft Metals with Immobilized Phosphine Sulfide Ligands for the Separation of Amino Acids", Spanish Ministry of Education and Science, \$40,000, 2/1/93-1/31/94.
5. "Assessment of Water Quality Using Bioluminescent Gene-Regulated Chromate-Resistance Systems", U.S. Geological Survey-Kentucky Water Resources Research Institute, \$15,000, 7/1/94-6/30/95.
6. "Assessment of Water Quality Using Bioluminescent Gene-Regulated Chromate-Resistance Systems", U.S. Geological Survey-Kentucky Water Resources Research Institute, \$15,000, 7/1/95-6/30/96.
7. "Chemical Sensors for Life-Support Systems in Space Human Habitats" (Co-PI; L. G. Bachas, PI), NASA, \$270,000, 7/1/94-6/30/97.
8. "Optical Sensors Based on Inducible Bacterial Bioluminescence", NSF-CAREER Award, National Science Foundation, \$218,000, 8/1/95-9/30/98.
9. "Single-Chain Antibodies with Dual Specificity and Increased Avidity" in "Center for Structural and Molecular Biology" (Co-PI; L. Hersch, PI), National Science Foundation, \$40,000 (this project), 7/1/96-6/30/98.
10. "Aequorin as a Bioluminescent Indicator for Use in the Determination of Biomolecules in Single Cells" (PI; K. W. Anderson, Co-PI ), Department of Energy, \$488,674, 4/1/95-8/31/99.

11. "Sensing Superfund Chemicals with Bioluminescent Bacteria" (PI; V. P. (Bill) Evangelou, L. G. Bachas, and M. S. Kindy, Co-PIs), in "Superfund Chemicals: Transport, Metabolism and Toxicity" (L. Robertson, P.I.), National Institutes of Environmental Health, Superfund Program, \$10M, \$495,000 this project, 4/1/97-3/31/2000.
12. "Expression of Mammalian Receptor Proteins in Tobacco Cell Cultures", (Co-PI; D. Falcone, PI), Tobacco and Health Research Institute, \$105,200, 6/1/99-5/31/01.
13. "Undergraduate Research Experiences in Polymeric Membrane Materials and Thin Films", National Science Foundation (DMR), (Co-PI; L. G. Bachas, PI), \$141,300, 3/1/98-6/30/01.
14. "Chemical Sensors for Life-Support Systems in Space Human Habitats" (S. Daunert, Co-PI; L. G. Bachas, PI), NASA, \$162,000, 7/1/97-12/31/01.
15. "Chemical Sensors for Life Sciences", NASA, \$7,500, 6/1/99-12/31/01 (additional funds for #10 above).
16. "Chemical Sensors for Life-Support Systems in Space Human Habitats", NASA, \$73,501, 7/1/99-12/31/01 (additional funds for #10 above).
17. "Biomolecular Functional Materials: Relevance to DoD Hazardous Substances", Department of Defense (Co-PI; D. A. Butterfield, PI), \$453,097, 11/14/97-11/13/01.
18. "Ligand-Induced Conformational Changes of Binding Proteins: Probing Signaling Events in Single Cells", Cottrell Scholar Award, Research Corporation, \$50,000, 6/1/97-6/31/03.
19. "Eli Lilly Faculty Award in Analytical Chemistry", Eli Lilly, \$20,000, 10/1/97-9/30/03.
20. "Biomimetic Detection Schemes on a Microfluidic Platform (LabCD)", (S. Daunert, PI; L. G. Bachas, Co-PI; M. J. Madou, Co-PI), NASA, \$839,537, 8/1/99-7/15/03.
21. Responsive Drug Delivery Systems: ChipRx", (S. Daunert, Co-PI; M. J. Madou, PI), TAF-State of Ohio, TOTAL: \$500,000, THIS PROJECT: \$178,920, 10/1/00-3/31/03.
22. "Undergraduate Research Experiences in Polymeric Membrane and Composite Materials", National Science Foundation (DMR), (Co-PI; L. G. Bachas, PI), \$174,659, 2/15/01-7/31/04.
23. "Integrated Sensing Architectures", NSF-IGERT, (Co-PI; L. G. Bachas, PI), \$2,330,876, 4/1/98-8/31/04.
24. "Monitoring and Assessment of Human Health and Responses to Countermeasures During Space Flight Deconditioning" (Co-PI; L. G. Bachas, PI), \$20,000, Commonwealth of Kentucky (matching funds to grant above), 8/1/01-10/31/03.
25. "Photoproteins as Labels in Bioluminescence Assays", National Institutes of Health, \$1,235,642, 3/1/00-2/28/05.
26. "Responsive Drug Delivery Systems", Kentucky Science and Technology Center, R&D Voucher, \$100,000, 12/1/02-11/30/04.
27. "Biosystems for Remote Identification of Chemical Warfare Agents", NSF, \$100,000, 9/1/03-3/31/05.
28. "Optical Sensing Based on Inducible Bacterial Luminescence", National Science Foundation, \$274,000, 5/1/99-4/31/02. Supplemented by "Genetically Engineered Metalloregulatory Proteins in Optical Biosensors", Special Creativity Award, National Science Foundation, \$240,000, 4/1/02-3/31/05.
29. "Biosystems for Remote Identification of Chemical Warfare Agents", NSF, \$100,000, 9/1/03-3/31/05.
30. "Sensing Superfund Chemicals with Recombinant Systems" (PI; E. D'Angelo and M. S. Kindy, Co-PIs), in "Superfund Chemicals: Transport, Metabolism and Toxicity" (L. Robertson, P.I.), National Institutes of Environmental Health, Superfund Program, TOTAL: \$8,123,437, THIS PROJECT: \$703,475, 4/1/00-3/31/05.
31. "Non-invasive Biosensors for the Diagnosis and Management of Crohn's Disease" (Co-PI; PI: H. Shashidhar) Children's Miracle Network, 7/1/05-6/31/06, \$10,000.
32. "Bio-Inspired Materials for Sensing and Actuation in Biomedical Applications", (PI; L. G. Bachas, Co-PI; M. J. Madou, Co-PI), NIH, \$357,693, 09/30/03-09/29/06.
33. "Sensing Superfund Chemicals with Recombinant Systems" (PI; E. D'Angelo and M. S. Kindy, Co-PIs), in "Superfund Chemicals: Transport, Metabolism and Toxicity" (L. Robertson, P.I.), National Institutes Environmental Health, Superfund Program, TOTAL: \$8,123,437, THIS PROJECT: \$703,475, 4/1/00-3/31/07.
34. "Monitoring and Assessment of Human Health and Responses to Countermeasures During Space Flight Deconditioning" (Co-PI; L. G. Bachas, PI), \$400,000, NASA, 8/1/01-7/31/07.
35. "Integrated Biomarker Diagnostic Systems for Monitoring Astronaut Health", (Co-PI; L. G. Bachas, PI), NASA, \$42,000, 7/1/06-5/31/07.
36. "REU Site. Undergraduate Research Experiences in Functional Materials", (Co-PI; L. G. Bachas, PI), National Science Foundation (DMR), \$192,561, 2/1/05-1/31/08.
37. "Sensing Superfund Chemicals with Recombinant Systems" (PI; L. G. Bachas and S. K. Deo, Co-PIs), in "Nutrition as Modulator of Toxicity of Superfund Chemicals" (B. Hennig, PI) National Institutes of Environmental Health, Superfund Program, TOTAL: \$13,911,431, THIS PROJECT: \$976,315, 5/16/05-3/31/09.
38. "Integrated Biomarker Diagnostic Systems for Monitoring Astronaut Health", (Co-PI; L. G. Bachas, PI), \$40,000, NASA, 8/1/07-7/31/08.
39. "REU Site: Undergraduate Research for Appalachian Students at the Department of Chemistry of the University of Kentucky", (Co-PI, D. J. Clouthier, PI), National Science Foundation, \$238,197, 4/1/06-3/31/09.
40. "Modified Photoproteins as Labels and Molecular Switches in Bioanalysis", (PI), National Institutes of Health, \$1,012,580, 4/1/04-3/31/09.



41. "Non-Invasive Biosensors for the Diagnosis and Management of Crohn's Disease", (PI; H. Shashidhar, Co-PI; D. A. Flomenhoff, Co-PI), Broad Foundation, \$110,000, 5/1/07-4/30/09.
42. "NIRT: C-MEMS/C-NEMS for Miniature Biofuels Cells", (Co-PI; Marc J. Madou, PI), National Science Foundation-NIRT, \$1,000,000, 9/1/07-8/31/10.
43. "A Whole-Cell Biosensor Panel for Agricultural Endocrine Disruptors", (Co-PI; Shimshon Belkin, PI), United States-Israel Binational Agricultural Research and Development Fund (BARD), THIS PROJECT: \$97,289, 10/1/07-9/30/10.
44. "Spore-Based Biosensing Systems: A Stabilized Dormant-Active Approach to Whole-Cell Biosensors, (PI) National Science Foundation, \$405,000, 8/1/07-7/30/12.
45. "Collaborative Research: Extended Life Implantable Biosensor Platform", (PI), National Science Foundation, PI, \$330,000, 7/1/08-6/30/12.
46. "Tissue Repair and Regeneration Following Orthopedic and Craniofacial Trauma", (Co-PI; D. Puleo, PI), US Army Medical Research and Material Command, \$849,000, 7/1/09-9/30/12.
47. "Sensing Superfund Chemicals with Recombinant Systems", (S. Daunert, PI; L. G. Bachas, co-PI), in "Nutrition and Superfund Chemical Toxicity" (B. Hennig, PI), National Institute of Environmental Health Sciences, Superfund Program, TOTAL: \$10,296,028, THIS PROJECT: \$819,732, 4/1/08-3/31/13.
48. "Versatile Biosensing Platform for Monitoring Bone Markers for Space Medicine", (Co-PI; L. G. Bachas, PI), National Aeronautics and Space Administration, \$500,000, 8/1/08-1/31/13.
49. "Use of Natural Antimicrobials to Mitigate Biological Threat Agents in High Risk Foods", (Co-PI; M. Newman, PI), National Institute of Homeland Security, \$1,333,929, 10/1/09-4/30/13.
50. "Targeted Drug Delivery", Berg Pharma (Daunert, Sylvania, PI), \$850,000, 3/15/13-12/31/13.
51. "Biomarker and molecular Diagnostics", Berg Pharma (Daunert, Sylvania, PI), \$575,131, 3/15/13-12/31/13.
52. "IGERT: Engineered Molecular and Biological Materials", (S. Daunert, Co-PI; K. W. Anderson, PI), National Science Foundation, \$3,099,815, 9/1/07-12/31/14.
53. "A Novel Vaccine Strategy Targeting Cocaine", (S. Daunert, Co-PI; P. Dafatarian, Co-PI; S. Izenwasser, Co-PI; V. Lemmon, PI), Interdisciplinary Research Development Initiative (IRDI), \$70,000, 6/1/12-12/31/14.
54. "Development of a Rapid Screening Test for Preventing and Detecting Cervical Cancer", (S. Daunert, PI; E. Kobetz, PI; Sapna Deo, PI), Woman's Cancer Association, \$40,000, 6/1/14-5/31/15.
55. "Scaling an Innovative Cervical Cancer Screening Intervention within Two Underserved Communities in South Florida", (E. Kobetz, PI; S. Daunert, Co-I; S. Deo, Co-I) GE Foundation, \$209,536, 9/1/14-8/31/15.
56. "Modified Photoproteins as Labels and Molecular Switches in Bioanalysis", (S. Daunert, PI), National Institutes of Health, \$2,101,735, 1/1/09-8/31/15.

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## **CURRENT RESEARCH GROUP**

### **Doctoral Students**

- Jeremy Baum (co-director with Professor Leonidas G. Bachas), Chemistry, University of Miami
- David Broyles (Director Professor Sapna Deo), Biochemistry, University of Miami
- Trajen Head, Biochemistry, University of Miami
- Samuel Játiva (co-director with Professor Sapna Deo), Biochemistry, University of Miami
- Elisabeth Jeffrey, Biochemistry, University of Miami
- Anita Manfredi, Università degli Studi di Parma
- Angeliki Moutsopoulos (co-director with Professors Angel Kaifer and Sapna Deo), Chemistry, University of Miami
- Gregory O'Connor, Biochemistry, University of Miami
- Devon Pawley, Biochemistry, University of Miami
- Xavier Prado, Biochemistry, University of Miami
- Nelson Salgado, Biochemistry, University of Miami
- Daniel Wynn, Biochemistry, University of Miami
- Yu-Ping Yang (co-director with Professor Richard Cote), Biochemistry, University of Miami
- Xiaowen Yu, Chemistry, University of Miami

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### **Medical Students**

- Nora Faesal Alsaud, Alfaisal University, Saudi Arabia

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### **Undergraduate and High School Students**

- Arshia Arora, University of Miami
- Matthew Cascio, University of Miami
- Juan C. Diaz, FSU
- Daphne Eckembrecher, Miami Dade College
- Francelia Eckembrecher, Miami Dade College
- Rahul Gupta, University of Miami

- Eleni Katsouli, University of Miami
- Ji Lin, University of Miami
- Carolina Sousa Limoeiro, Federal University of Bahia, Brazil
- Lydia Livas, University of Miami
- Patricia Martin, Florida State University
- Luana Moraes, Federal University of Alfenas, Brazil
- Jean Jacques Rhode-Armelle, University of Miami
- Neelanshu Tapar, University of Miami
- Sydney Venzler, Gulliver High School
- Kristen Woodward, University of Miami

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#### **Postdoctoral Fellows and Senior Research Associates**

- Peter Dau
- Dr. Emre Dikici
- Dr. Leslie Doleman
- Prathiba Joshi
- Dr. Rahul Mittal
- Dr. Jean-Marc Zingg

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#### **Research Professors/Visiting Professors, PhDs and MDs**

- Dr. Gerson Botacini Das Dores

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#### **Faculty Mentees**

- Dr. Esperanza Bass, Department of Otorhinolaryngology, University of Miami
- Dr. Eleonore Béurel, Departments of Psychiatry and Biochemistry and Molecular Biology, University of Miami
- Dr. Christine Dihn, Department of Otorhinolaryngology, University of Miami
- Dr. Erin Kobetz, Department of Epidemiology and Public Health, University of Miami

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#### **FORMER MEMBERS OF THE GROUP AND CURRENT EMPLOYMENT**

##### **FORMER GRADUATE STUDENTS (Graduated 44 Ph.D.s and 16 M.S. since January 1994)**

- J. Christopher Ball, Ph.D. Chemistry (co-director with Professor Leonidas G. Bachas), 2003, University of Kentucky  
Current Employment: USPTO
- Danielle Brewster, MS Chemistry, 2011, University of Kentucky  
Current Employment: Lab Manager/Process Engineer, McKechnie Vehicle Components
- Àngels Cano-Odena, Ph.D. Chemistry (primary director: Professor Cristina Palet, Universitat Autònoma de Barcelona), 2006  
Current Employment: Product Manager, Porometer
- Marta Casado, Ph.D. Chemistry (primary director: Professor Manuel Valiente, Universitat Autònoma de Barcelona), 1992  
Current Employment: Senior Technician CSIC
- Adam Clouse, M.S. Chemistry (co-director with Professor Leonidas G. Bachas), 2012, University of Miami  
Current Employment: Laboratory Manager, Lexar Labs
- Czarena Crofcheck, M.S. Chemical and Materials Engineering (co-director with Professor Kimberly W. Anderson), 2001, University of Kentucky  
Current Employment: Professor of Agricultural Engineering, University of Kentucky
- Amol Date, Ph.D. Chemistry, 2010, University of Kentucky  
Current Employment: Scientist, Reliance.
- Sapna Deo, Ph.D. Chemistry, 2000 University of Kentucky  
Current Employment: Associate Professor and Graduate Program Director, Department of Biochemistry and Molecular Biology, Miller School of Medicine, University of Miami; Director of Education, Biomedical Nanotechnology Institute, University of Miami
- Urvee Desai, Ph.D. Chemistry, 2002, University of Kentucky  
Current Employment: Senior Scientist, AbD Serotec/ Bio-Rad Company
- Emre Dikici, Ph.D. Chemistry, 2008, University of Kentucky  
Current Employment: Senior Scientist and Director of the Bionanotechnology Laboratories, Department of Biochemistry and Molecular Biology, Miller School of Medicine, University of Miami
- Leslie Doleman-Knecht, Ph.D. Chemistry, 2014, University of Miami  
Current Employment: Lecturer, Department of Chemistry, University of Miami
- Phillip Douglass, Ph.D. Pharmaceutical Sciences, 2002, University of Kentucky  
Current Employment: Clinical Genomics Manager, Agilent Technologies

- Jason Ehrick (co-director with Professor Leonidas G. Bachas), Ph.D. Chemistry, 2007, University of Kentucky  
Current Employment: Director of Research, Merck
- Agatha Feltus, Ph.D. Pharmaceutical Sciences, 2001, University of Kentucky  
Current Employment: Eli Lilly and Company
- Jessika Feliciano, Ph.D. Chemistry, 2006, University of Kentucky  
Current Employment: Associate Director, Johnson and Johnson
- Anne Grosvenor, Ph.D., Chemical and Materials Engineering (co-director with Professor Kimberly W. Anderson), 1999  
University of Kentucky  
Current Employment: Sales, Georgia-Pacific LLC
- Xiyun Guan, Ph.D. Chemistry (co-director with Professor Leonidas G. Bachas), 2002, University of Kentucky  
Current Employment: Associate Professor of Chemistry, Illinois Institute of Technology
- Megan Gillespie, Ph.D. Chemistry (co-director with Professor Leonidas G. Bachas), 2015, University of Miami  
Current Employment: Postdoctoral Fellow, University of Miami
- Kristen Grinstead, Ph.D. Chemistry, 2015, University of Miami  
Current Employment: Scientist, West Virginia
- Krystal Teasley Hamorsky, Ph.D. Chemistry, 2011, University of Kentucky  
Current Employment: Instructor of Medicine and Leading Scientist Owensboro Cancer Research Program University of Louisville
- Jingjing Huang, MS Chemistry, 2010, University of Kentucky  
Current Employment: Financial Engineer Bloomberg LP
- Keryn Hughes, PhD Biochemistry (Director, Joaquin Jimenez), 2015, University of Miami  
Current Employment: Homemaker
- Eric Hunt, PhD Biochemistry (Director, Professor Sapna Deo), 2015, University of Miami  
Current Employment: Research Assistant, University of Miami
- Smita Joel, Ph.D. Chemistry, 2011, University of Kentucky  
Current Employment: Scientist, Bionanotechnology Laboratories, Department of Biochemistry and Molecular Biology, Miller School of Medicine, University of Miami
- Santosh Khatwani, Ph.D. Chemistry, 2010, University of Kentucky  
Current Employment: Scientist, Biovision.
- Leticia Kovalski, Ph.D. Biochemistry (co-director with Professor Sapna K. Deo), 2013, University of Miami  
Current Employment: Deceased, 2013.
- Padmini Krishnan, M.S. Chemical and Materials Engineering (co-director with Professor Kimberly W. Anderson),  
University of Kentucky  
Current Employment:
- Anjali Kumari Struss, Ph.D. Chemistry, 2009, University of Kentucky  
Current Employment: Staff Scientist, Roswell Biotechnologies
- Jennifer Lewis, Ph.D. Chemistry, 1999, University of Kentucky  
Current Employment: Associate Director, Analytical Services, Freethink Technologies
- Scott Lewis, Ph.D. Chemical Engineering (co-director with D. Bhattacharrya), 2011, University of Kentucky  
Current Employment: Senior Staff Scientist, Solenis
- D. Scott Lutterbie, M.S. Chemistry, 2010, University of Kentucky  
Current Employment: Chemistry High School Teacher and Basketball Coach, Hammons HS in Columbia SC.
- Yue Liu, M.S. Chemistry, University of Kentucky  
Current Employment:
- Ashley Melchior, M. S. Biochemistry (co-director with Professor Sapna Deo), 2012, University of Miami  
Current Employment: Regional Dietician at Apple Homecare Medical Supply
- Mara Mirasoli, Ph.D. Pharmaceutical Chemistry (primary director: Professor Aldo Roda, University of Bologna), 2001  
Current Employment: Professor, Department of Pharmaceutical and Analytical Sciences, Università di Bologna, Italy
- Adrienne Nicholson, M.S. Chemistry, 2003, University of Kentucky  
Current Employment: Quality Manager, Shurtape Technologies LLC
- Patizia Pasini, Ph.D. Pharmaceutical Chemistry (primary director: Professor Aldo Roda, University of Bologna), 2005  
Current Employment: College of the Bahamas
- Jignaben Patel, M.S. Chemistry, 2013 University of Kentucky  
Current Employment:
- Libby Puckett, Ph.D. Chemistry (co-director with Professor Leonidas G. Bachas), 2003, University of Kentucky  
Current Employment: Associate Professor of Chemistry, Appalachian State University
- Xiaoge Qu, Ph.D. Chemistry, 2010, University of Kentucky  
Current Employment: Biotechnology Scientist, Greater NY Area
- Sridhar Ramanathan, Ph.D. Chemistry, 1998, University of Kentucky  
Current Employment: Executive Director, Operations, Reamatrix

- Nilesh Raut, Ph.D. Chemistry, 2012, University of Kentucky  
Current Employment: Financial Analyst II, Amazon
- Nazanin Raouf, M.S. Chemistry, 2008, University of Kentucky  
Current Employment:
- Anabel Rodriguez, MS, Biochemistry, 2015, University of Miami  
Current Employment: Department of Chemistry, University of Notre Dame
- Laura Rowe, Ph.D. Chemistry, 2008, University of Kentucky  
Current Employment: Assistant Professor, Department of Chemistry, Valparaiso University
- Lyndon Salins, Ph.D. Chemistry, 2000, University of Kentucky  
Current Employment: Sigma-Aldrich
- Abhishek Sangal, M.S. Chemistry, 2010, University of Kentucky  
Current Employment: Cedars Sinai, UCLA
- Vesna Schauer-Vukasinovic, Ph.D. Chemistry, 1998, University of Kentucky  
Current Employment: Regulatory Affairs Manager Biopharmaceuticals at Sandoz
- Daniel Scott, Ph.D. Chemistry, 2011, University of Kentucky  
Current Employment: Assistant Professor, Department of Chemistry, DePaw University
- Bethel Sharma, Ph.D. Pharmaceutical Sciences, 2006, University of Kentucky  
Current Employment: Associate Professor, Department of Biochemistry, University of the South
- Ranjit Shetty, Ph.D. Chemistry, 2001, University of Kentucky  
Current Employment: Staff Scientist, MGH Cancer Center/Translational Research Laboratory
- Suresh Shrestha, Ph.D. Chemistry, 2001, University of Kentucky  
Current Employment:
- Mianmian Sun, M.S. Chemistry, 2007, University of Kentucky  
Current Employment: Research Specialist at Eshelman School of Pharmacy, University of North Carolina at Chapel Hill
- Gargi Sur, M.S. Chemistry, University of Kentucky  
Current Employment:
- Sanja Trajkovic, Ph.D. Chemistry, 2014, University of Kentucky  
Current Employment: Senior Analytical Chemist/Lab Manager, Alltech
- Kendrick Turner, Ph.D. Chemistry, 2011, University of Kentucky  
Current Employment: Center for Biomolecular Science and Engineer, Naval Research Laboratories
- Ramesh Utharala (co-director with Professor Leonidas G. Bachas), M.S., 2011, University of Miami  
Current Employment: Microfluidics/lab engineer, EMBL, Frankfurt am Main Germany
- Vicky Vamvakaki, Ph.D. Chemistry, (primary director: Professor Nicholas Chaniotakis, University of Crete), 2006  
Current Employment: Regulatory Affairs Officer HELP SA, Greece
- Jianquan Wang, Ph.D. Chemistry (co-director with Professor Leonidas G. Bachas), 2006, University of Kentucky  
Current Employment: Boehringer Mannheim
- Jennifer Wininger-Melton, MS. Chemistry, 1998, University of Kentucky  
Current Employment: Broker, Edward Jones
- Cui Ye, Ph.D. Chemistry  
Current Employment: Postdoctoral Researcher, University of California, Berkeley
- Jivan Yewle (co-director with Professor Leonidas G. Bachas), Ph.D. Chemistry, 2012, University of Kentucky  
Current Employment: Senior Research Scientist, Vindico Nanobiotechnology

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**FORMER POST-DOCTORAL STUDENTS (since January 1994)**

- Dr. Oscar Alcázar
- Dr. Ibrahim Badr
- Dr. Gary Barrett
- Dr. Celia Caruso
- Dr. H. T. Chang
- Dr. Richard Conover
- Dr. Larry Cullen
- Dr. Pirouz Dafatarian
- Dr. Sapna K. Deo
- Dr. Luisa Stella Dolci
- Dr. C. Mark Ensor
- Dr. Dhritimen Ghao
- Dr. Smita Joel

- Sweta Kapoor, M.D.
- Dr. Nathaniel Hentz
- Dr. Irina Kaneva
- Dr. Manoj Kumar
- Dr. Sergio Lizano
- Dr. Alba Martínez Florez, Universitat Autònoma de Barcelona, DVM
- Dr. Sergei Matveev
- Dr. Mara Mirasoli
- Dr. Elisabeth Moschou
- Dr. Patrizia Pasini
- Dr. Insook Rae Paeng
- Dr. Serban Peteu
- Dr. Sridhar Ramanathan
- Dr. Laura Rowe
- Dr. Donna Scott
- Dr. Wendy Smith-Spencer
- Sebastian Strobel, MD
- Dr. Kendrick Turner
- Aram Vosoughi, MD
- Dr. Jianquan Wang
- Dr. Xin Lu
- Dr. Shifen Xu

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**FORMER MEDICAL STUDENTS/RESIDENTS/FELLOWS-Research Advisor to 12 MDs**

- Philip Ames, MD, Research Honors, Molecular Medicine Pathway, University of Miami
- Logan Davis, MD, Research Advisor, University of Kentucky
- Dhananjay Deo, MD, Research Advisor, University of Kentucky
- Jacob Erickson, MD, Research Honors, Molecular Medicine Pathway, University of Miami
- Greg Hardin, MD, Research Advisor, University of Kentucky
- Roger Nehaul, MD, Research Honors, Molecular Medicine Pathway, University of Miami
- Michael Schoor, MD, Research Honors, Molecular Medicine Pathway, University of Miami
- David Schwimmer, MD, Research Honors, Molecular Medicine Pathway, University of Miami
- Sebastian Stroble, MD, Research GI Resident, University of Miami
- Matthew Varghese, MD, Research Honors, Molecular Medicine Pathway, University of Miami
- Daniel Vo, MD, Research Honors, Molecular Medicine Pathway, University of Miami
- Brian Wasserman, MD, Research Honors, Molecular Medicine Pathway, University of Miami
- Khamila Ziodeen, MD, Research Honors, Molecular Medicine Pathway, University of Miami

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**FORMER ASSISTANT RESEARCH PROFESSOR/SENIOR RESEARCHERS**

- Dr. Pirouz Daffarian, University of Miami  
Current Employment: NGM Biopharmaceuticals and Nanovax Therapeutics
- Dr. Sapna Deo, University of Kentucky  
Current Employment: Associate Professor and Graduate Program Director, Department of Biochemistry and Molecular Biology, Miller School of Medicine, University of Miami; Director of Education, Biomedical Nanotechnology Institute, University of Miami
- Dr. C. Mark Ensor, University of Kentucky  
Current Employment: University of Kentucky
- Dr. Laura Rowe, University of Kentucky  
Current Employment: Assistant Professor, Valparaiso University
- Dr. Patrizia Pasini, University of Kentucky and University of Miami  
Current Employment: College of the Bahamas

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**FORMER FACULTY MENTEES**

- Dr. Victor Andreev, Research Assistant Professor, Departments of Psychiatry and Biochemistry and Molecular Biology, University of Miami  
Current Employment: Arbor Research Collaborative for Research
- Dr. Deborah Auer Flomenthoff, Assistant Professor, Department of Gastroenterology, Chandler Medical Center, University of Kentucky

- Current Employment: Associate Professor, Department of Gastroenterology, Chandler Medical Center, University of Kentucky
- Dr. Nicholas Chaniotakis, Associate Professor, Department of Chemistry, University of Crete, Greece  
Current Employment: Professor, Department of Chemistry, University of Crete, Greece
  - Dr. Pirouz Daftarian, Research Assistant Professor, Department of Biochemistry and Molecular Biology, University of Miami  
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  - Dr. C. Mark Ensor, Research Assistant Professor, University of Kentucky  
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  - Dr. Christa Hestekin, Assistant Professor, Department of Chemical Engineering, University of Arkansas  
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  - Dr. J. Zachary Hilt, Assistant Professor, Department of Chemical and Materials Engineering, University of Kentucky  
Current Employment: Professor, Department of Chemical and Materials Engineering, University of Kentucky
  - Dr. Marc Knecht, Assistant Professor, Department of Chemistry, University of Kentucky  
Current Employment: Associate Professor, Department of Chemistry, University of Miami
  - Dr. Chenzhong Li, Assistant Professor, Department of Biomedical Engineering, Florida International University  
Current Employment: Associate Professor, Department of Biomedical Engineering, Florida International University
  - Dr. Patrizia Pasini, Research Assistant Professor, Department of Chemistry, University of Kentucky and Department of Biochemistry and Molecular Biology, University of Miami  
Current Employment: College of the Bahamas
  - Dr. Laura Rowe, Research Assistant Professor, University of Kentucky  
Current Employment: Assistant Professor, Valparaiso University
  - Dr. Julia Scialla, Assistant Professor, Division of Nephrology, Department of Medicine, University of Miami  
Current Employment: Assistant Professor, Division of Nephrology, Department of Medicine, Duke University

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**FORMER UNDERGRADUATE STUDENTS (since January 1994)**

- Rose Adme, Florida International University
- Katelyn Ahern, Auburn University
- Hanna Anderson, Rice University
- Anantratn Asthana, University of California Berkeley
- Christie Ataiades Pereira, Federal University of Goias, Brazil
- Myriam Borque, Universidad Francisco de Vitoria
- Tyler Browning, University of Kentucky
- Danielle Buchananm, University of Kentucky
- L. Cai, University of Kentucky
- Benjamin Caplan, University of Miami
- Christian Cignoni, University of Miami
- Jerry Coll, La Pontiffca Universidad Católica de Puerto Rico
- Kelly Combs, University of Kentucky
- Ray Crawford, University of Kentucky
- Logan Davies, University of Kentucky
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- Maria Guadalupe Espinosa, Universidad Iberoamericana, Mexico City, Mexico
- Jessika Feliciano, La Pontiffca Universidad Católica de Puerto Rico
- Agatha Feltus, University of Kentucky
- William Figueras, University of Miami
- Amy Gass, University of Kentucky
- Justin Garris, University of Kentucky
- Jeremy Garris, University of Kentucky
- Daniela Gayol, University of Miami
- Alba Gonzales, Universidad Francisco de Vitoria
- Teodoro Gonzalez, University of North Carolina
- Matthew Gulau, University of Miami
- Trajen Head, University of Kentucky
- Eric Hunt, IUPUI
- Jennifer Huntley, University of Kentucky
- Kenneth Hyland, University of Kentucky

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- Matthew Mancao, University of Miami
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- Leah Mitchel, University of Kentucky
- Hannah Montague (Pinecrest High School)
- Jonathan Morris, University of Kentucky
- Brian Mulberry, University of Kentucky
- Gabriela Muñiz, University of Miami
- Kasey Markel, University of Miami
- Charmaine Neal, University of Kentucky
- Nina Pakzad, University of Miami
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- Peter Rosado, Universidad de Puerto Rico Río Piedras
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- Great Schriff, University of Kentucky
- Daniel Scott, Georgetown College
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- Apurva Subbaswammy, Grinelle College
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- Diego Vidal, University of Miami
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- Brett Wenner, University of Buffalo
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- Jamie Wilhite, University of Kentucky
- Jacqueta Wilson, University of Kentucky

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- Sabine Jocelin, North Miami Sr. High, Miami, FL  
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- Hannah Zossmann, School for Advanced Studies, Miami, FL  
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## COLLABORATORS

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- Dr. Mara Mirasoli, University of Bologna, Italy
- Dr. Elisa Michelini, University of Bologna, Italy
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#### **GRADUATE ADVISORY COMMITTEES**

- J. Christopher Ball, Ph.D. Chemistry, July 18, 2003
- Sonia Basin, MS Chemistry, August 2008
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- Bethel Sharma, Ph.D. Pharmaceutical Sciences, June 15, 2006
- Ranjit Shetty, Ph.D. Chemistry
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- Kathik Venkatachalam, Ph.D. Chemistry
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