

L. MARIO AMZEL, Ph.D.
Johns Hopkins University School of Medicine
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PERSONAL INFORMATION

Born: Buenos Aires, Argentina
Citizenship: U.S.A.

EDUCATION

Licenciado en Quimica in Physical Chemistry, Universidad de Buenos Aires,
Argentina 1960 - 1965
Ph.D. in Physical Chemistry, Universidad de Buenos Aires, Argentina 1965 - 1968

RESEARCH AND PROFESSIONAL EXPERIENCE

Undergraduate Teaching Assistant, Universidad de Buenos Aires 1962 - 1965
Graduate Teaching Assistant, Universidad de Buenos Aires 1965 - 1966
Instructor, Universidad Central, Caracas, Venezuela 1967 - 1969
Postdoctoral Fellow, Johns Hopkins University School of Medicine 1969 - 1970
Invited Professor, Regional Course in Physical Chemistry July, 1971
Organization of American States, Caracas, Venezuela
Instructor of Biophysics, Johns Hopkins School of Medicine 1970 - 1973
Assistant Professor of Biophysics, Johns Hopkins School of Medicine 1973 - 1978
Associate Professor of Biophysics, Johns Hopkins School of Medicine 1978 - 1983
Professor of Biophysics, Johns Hopkins School of Medicine 1984 – present
Interim Director, Department of Biophysics and Biophysical Chemistry November 2003 – June 2006
Director, Department of Biophysics and Biophysical Chemistry July 2006 - present

HONORS

Damon Runyon Postdoctoral Fellowship 1970 -1971
Honorary Professor, University of Buenos Aires, Argentina 1988 - present
Teacher of the Year Award Graduate Students 1994
Teaching Award University Alumni 1999
Colman Fellow in Life Science – Ben Gurion University, Israel 2007
RAICES Prize, Ministerio de Ciencia, Tecnologia e Innovacion Productiva, Argentina 2011
Fellow, American Association for the Advancement of Science 2014
Fellow, Biophysical Society (award in 2016) 2016
Honorary Speaker, Honorary Hispanic Society of the Baltimore Polytechnic Institute 2017
Doctor Honoris Causa, University of Buenos Aires September, 2019

PROFESSIONAL ACTIVITIES

Biological Energy Research Workshop - Department of Energy 1979
Workshop: Applications of Supercomputers to Life Sciences - NSF 1984

| | |
|---|----------------------|
| Scientific Advisory Panel, Institute of Genetic Eng. and Biotech. - Spain | 1986 |
| Member of DRR-BRS NIH Special Study Sections | 1984 |
| Member of Am. Soc. of Eng. Education Fellowships Study Section | 1985 & 1987 |
| Latino American Biophysical Society - Treasurer | 1985 - 2000 |
| NSF Panel for Facility Centers | 1987 - 1992 |
| Editorial Board Journal of Molecular Recognition | 1987 - 2008 |
| Biophysical Society - Annual Meeting - Co-Chairman | 1990 |
| Member of BIOM NIH Study Section | 1990 - 1994 |
| Consultant for SmithKline Beecham | 1990 - 1992 |
| Editorial Board of Proteins: Structure, Function and Genetics | 1991 - present |
| Editorial Board Journal of Bioenergetics and Biomembranes | 1991 - present |
| Chairman Proteins Gordon Research Conference (with Dr. E. Getzhoff) | 1995 |
| Biophysical Society Annual Meeting - Local Chairman | 1996 |
| Hopkins Protein Folding Meeting - Chairman (with Dr. E. Freire) | 1997 |
| Review Board for NCI Supercomputing | 1987 - present |
| Biophysical Society Annual Meeting - Local Chairman | 1996 |
| Member, Biophysical Society Council | 1998 |
| Biophysical Society Annual Meeting - Local Chairman | 1999 |
| Biophysical Society Annual Meeting - Program Sort Committee (most years) | 1988 - present |
| Johns Hopkins Protein Folding Meeting – Chair (with E. Friere) | 2000 |
| Scientific Review of Argentinean Science – Panel Member | 2000 |
| Latino American Biophysical Society – Vice President (President Elect) | 2000-2002 |
| Member, NSLS Science Advisory Committee | May, 2001-2005 |
| The Scientific World, Editorial Board | August, 2001-2004 |
| National Science Foundation Advisory Panel | October 9-11, 2002 |
| National Synchrotron Light Source Advisory Panel | November 7, 2002 |
| National Institute Health Review Panel | November 21-22, 2002 |
| President, Society of Latin American Biophysicists | 2003-2006 |
| Organizing Committee, V SOBLA Congress | 2006 |
| National Science Foundation – Molecular Biochemistry Panel | April 5-7, 2004 |
| Co-Organizer, Mid-Atlantic Protein Crystallography Meeting | June 2-4, 2004 |
| Scientific Advisory Committee, National Synchrotron Light Source | 2004 – 2013 |
| Chair, National Synchrotron Light Source - X6A Advisory Committee | 2004 - 2014 |
| Member, External Advisory Council of the Instituto Leloir | 2003 - 2013 |
| Member, Crystallography Expert, | 2006 |
| Center for Scientific Review Special Emphasis Panel | |
| Member, Editorial Board of Journal of Thermodynamics | 2008 |
| Panel Member, F04B Study Section, NIH | 2009 |
| Member, BNL Light Sources Directorate Science Advisory Committee | 2009 |
| Co-Organizer, Mid-Atlantic Protein Crystallography Meeting | June 10-12, 2010 |
| Member of the International Advisory Committee, Universidad de Leloir | October 2010 |
| Organizer, Latin American Protein Society | October 12-16, 2010 |
| Panel Member, PDB NSF Site Visit | November 1 2010 |
| The Scientific World, Editorial Board | 2009-present |
| Panel member, Institutional Education | 2009-2018 |

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| Session Chair, ASBMB | April 9-13, 2011 |
| Four Symposium Organizer, ASBMB | April 9-13, 2011 |
| Session Chair, Gordon Conference | June 19-24, 2011 |
| Summary and Concluding Remarks, Future of Biophysics | 2011 |
| Member of the Future of Biology Committee | 2011 |
| Member of NIH, NSF and ONR Grants Review Panels | |
| Member of NSF Small Business Grants Panel | |
| Member of NIH Small Business Study Section | |
| Reviewer, Board of Scientific Counselors | October 13-14, 2011 |
| Reviewer, Molecular Biochemistry Panel Meeting | November 30-December 2, 2011 |
| Reviewer, NIH Internet Assisted Review | March 15, 2012 |
| Ad Hoc Consultant, Board of Scientific Counselors | June 11-13, 2012 |
| Peer Reviewer, National Agency for the Evaluation of Universities and Research Institute, Italy | 2012 |
| Reviewer, Fellowships: Biophysical, Physiological, Pharmacological, and Bioengineering Neuroscience | March 4, 2013 |
| Reviewer, Virtual Panel, Protein Data Bank Management | April 15, 2013 |
| Reviewer, Site Visit for Protein Data Bank | May 9-10, 2013 |
| Member, PhD Evaluation Committee, Danish Technical University of Denmark | Sept. 16-20, 2013 |
| Reviewer, Millennium Science Initiative, Chile | 2014-present |
| External Reviewer, University of Maryland Structural Biology | May 19, 2014 |
| Reviewer, Site Visit for Cell Biology and Metabolism Program, NIH | March 11-12, 2015 |
| International Reviewer, Search Committee, IBR Rosario, Argentina | May 2015 |
| Biomedical Technology Research Resources Assessment Panel (NIGMS) | Dec 2, 2015 |
| Grant Reviewer for Kuwait, Denmark, Italy, Argentina and Colombia | |
| Reviewer, NSF Site Visit | June, 2016 |
| National Cryo-EM Facility Oversight Working Group, Frederick National Laboratory Advisory Committee | April, 2017 |
| Grant Reviewer, NSF Bio-XFEL | March 2018 |
| Reviewer, Molecular Biophysics | March 2019 |

PROFESSIONAL ACTIVITIES AT HOPKINS

Medical School

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| Academic Council | 1975 - 1977 |
| Ad-Hoc Committee on Tenure Policy | 1976 - 1977 |
| Admissions Committee (Year I) | 1975 - 1976 |
| Medical Scientist Training Program | 1977 – present |
| Director, Computing and X-Ray Facility | 1981 – present |
| Academic Council | 1991 - 1992 |
| Professorial Promotions Committee | 1997 - 2002 |
| Search Committee, Pharmacology | 1997 - 1998 |
| Faculty Leadership Program | 1999 - 2001 |
| Search Committee Chair, Pharmacology | 2000 - 2001 |

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| Search Committee, Physical Medicine and Rehabilitation | 2001 - 2003 |
| Search Committee, Biomedical Engineering | 2007 - present |
| Department Faculty Search | 2007 - present |
| Committee on Education, Value and Reward | 2007 – present |
| Standing Committee on Discipline | 2007 - 2013 |
| Advisory Board to the Medical Faculty | 2007 - present |
| Agenda Committee | 2009 – 2012 |
| Member, Institute for Basic Biomedical Sciences | 2007 - present |
| Advisory Committee Member, Institute for Excellence in Education | 2009-present |

University

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|---|------------|
| Member, Steering Committee of Institute for Biophysical Research on Macromolecular Assemblies (IBRMA) | |
| Chairman, Instrumentation Committee IBRMA | ended 2000 |
| Member, Program in Iberian and Latin American Studies | ended 2000 |
| Advisory Committee, Department of Biology | 2010-2015 |

GRADUATE PROGRAMS AT HOPKINS

Graduate Program in Biochemistry, Cellular and Molecular Biology

| | |
|--|----------------|
| Member | 1978 - present |
| Steering Committee | 1975 - 2000 |
| Examinations Committee, Chairman | 1976 - 1978 |
| Ad-Hoc Committee for the Evaluation of Curriculum | 1976 |
| Admissions Committee, Chairman | 1978 - 1982 |
| Admissions Committee | 1982 - 1998 |
| Curriculum Committee - Program Review ¹ | 1989 and 1994 |
| Course Director - Topics in Biophysical Chemistry | 1987 - 2003 |
| Course Director - Computer Modeling of Biological Macromolecules | 1994 - present |
| Course Director – Biochemical and Biophysical Principles | 2003 - present |

Program in Molecular Biophysics

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| Admissions Committee | present |
| Curriculum Committee | 1984-2016 |
| Steering Committee | 1984-present |

Program Institute for Multiscale Modeling of Biological Interactions

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| Steering Committee | 2003-present |
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Other Graduate Programs

Graduate Program in Immunology
Pharmacology Graduate Program

TEACHING AT HOPKINS

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|--|----------------|
| Physical Biochemistry - Year I (Course Director) | 1975 - 1978 |
| Biochemistry | 1978 - 1982 |
| Topics in Biophysical Chemistry - Course Director | 1981 - 2003 |
| Biochemical and Biophysical Principles – Course Director (replaces Topics in Biophysical Chemistry) | 2004 - present |
| Topics in Biophysics and Molecular Biology | 1978 -1991 |
| X-Ray Diffraction of Biological Macromolecules | 1978 - 2006 |
| Bioorganic Chemistry (Lectures on Enzyme Mechanisms, isotope effect, nicotinamide enzymes, flavin enzymes) | 1981- present |
| Principles of Protein Structure | 1982 - 1998 |
| Topics in Macromolecular Structure and Function | 1983 - present |
| Immunoglobulins: Structure, Synthesis and Genetics (lectures on Ig Structure) | 1987 - 1992 |
| Graduate Immunology (lectures on immunoglobulin structure) | 1988 - 2002 |
| Computer Modeling of Biological Macromolecules (Course Director) | 1991 - present |
| *Molecular Physiology (Homewood) (lectures on Immunoglobulins and ATPases) | 1992 - 2002 |
| Molecular Biophysics (Homewood) (lectures on binding) | 1998 - 2002 |
| Physical Chemistry of Biological Macromolecules (Homewood) (lectures on binding) | 2002 - 2014 |
| Biological Macromolecules (lectures on ATPases) | 2002 - 2009 |

Mentoring

Graduate Students

| | | |
|----------------|------------------|--|
| Odell, L. | 1998-04 (PhD) | University of Chicago |
| Siebert, X. | 1999-05 (PhD) | Université Libre de Bruxelles |
| Lopez, G. | 2000-04 | Reed College |
| Armstrong, A. | 2001-07 (PhD) | University of Illinois Urbana, Champaign |
| Kang, L.-W. | 2001-04 (PhD) | Pohang University Science and Technology, Korea |
| Pabon, G. | 2001-07 (PhD) | University National Columbia |
| Messing, S. | 2002-10 (PhD) | Macalester College |
| Nadella, M. | 2002-07 (PhD) | McMaster University |
| Huang, C.-H. | 2004-08 (PhD) | National Taiwan University |
| Duong-Ly, K. | 2006-11 (PhD) | Swarthmore College |
| Echeverria, I. | 2007-11 (PhD) | Pontificia Universidad Catolica de Chile |

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|-----------------|-----------------------|--|
| Boto, A. | 2005-2012 (MD/PhD) | Caltech |
| Erdemli, B. | 2006-2012 (PhD) | Koc University, Istanbul, Turkey |
| Yeh, T.-L. | 2006-2012 (PhD) | National Tsing Hua University (Taiwan) |
| Aripirala, S. | 2007-2013 (PhD) | IIT Kharagpur, Integrated 5 Yr Course |
| Kim, Y.S. | 2010-2012 (PhD) | Johns Hopkins University |
| Simon, O. | 2008-2014 (PhD) | University of New Mexico |
| Hernandez, A. | 2010-2015 (PhD) | University of Houston |
| Al Qassim, S. | 2010-2014 (PhD) | University of Michigan, Ann Arbor |
| Liu, Yunlong | 2013-2018 (PhD) | Tsinghua University |
| Yoder, J. | 2013-2018 (PhD) | Goshen College |
| Chakrabarti, M. | 2017-present | Univ MD Balto. Co. Johns Hopkins Univ |

Postdoctoral Fellows

| | | | | | |
|------------|--------------------------------|---|--------------|---|---|
| Y. Sanchez | 1997- 2002 2014- 2015 | University of Los Andes | 2002 2015 | Computation of binding affinities | Faculty/ Univ. of NAC Colombia |
| S. Yuhasz | 1997- 2002 | JHU | 1987 | Structure of antibodies. Structure of A β -protein complexes. | Editor Rehabilitation Research and Development published by the Veterans Administration |
| M. Faig | 1998- 2002 | University of La Plata, Argentina | 1994 | Structure of Lipoxygenase | Scientist Associate JHU |
| A. Leyva | 2001 – 2007 | Johannes Gutenberg University | 2001 | Computer simulation of the F1 ATPase synthesis hydrolysis | Faculty, Universidad Javeriana |
| M. Urquiza | 2010- pres | University of Colombia | 2008 | Kinetic and structural studies of MICAL | Postdoc/ NIH |

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|-------------------------|----------------|--|------------------|---|--|
| K. Rudzka | 2010-2014 | Utah State University | 2008 | Structural and mechanistic studies of PAM (Peptidylglycine alpha-amidating monooxygenase) | Postdoc/ Paragon Instructor – Towson University |
| S. DiLella | Jan-March 2011 | University of Buenos Aires | 2009 | The effect of pH in the affinity and specificity of human gelectin-1. | Visiting Postdoctoral Fellow/ Instructor, Argentina |
| E. Chufan | 2005-2010 | National University of San Luis, Argentina | 1999 | Structural and mechanistic studies on peptidylglycine α -amidating mooxygenase (PAM) | Research Fellow/Laboratory of Cell Biology/NCI/NIH |
| M. A. Bianchet | 1990-pres | University of La Plata | 1988 | 3-D structure quinone reductase/ structure and mechanism MICAL | Asst. Prof./JHMI, Neuroscience, Joint Appt in Biophysics and Biophysical Chemistry |
| Ghosh, A. | 2010-2014 | Purdue University | PhD | Interaction of the HIV-Tat protein with NMDA receptor | Postdoctoral Fellow/ NIH |
| De Almeida Marques, Ivo | 2015-2016 | University Federal de Goias (Brazil) | PhD | Structural studies of Septine | Postdoctoral fellow CNPQ (Brasil) |
| Avila, Cesar | 2015 | Universidad de Jucuman | PhD | Binding of GAPDH to hipsinonimst CS | Visiting Scientist/ Fulbright |
| Maheshwari, Sweta | 2014-present | University of Montpellier, France | PhD | Biochemical structural characterization of phosphoinositid e 3-kinase | Postdoctoral fellow/ DOD and NSF |
| Panozzo, Esteban | 2014-2015 | National University of Rosario (UNR) | PhD | Purification and structural elucidation of NHE3 citoplasmatic tail | Visiting Scientist |
| Saavedra, Harry | 2015-pre | Uni (Peru) PUC-Rio (Brazil) Johns Hopkins University | BS MSc PhD | Understanding transport mechanism of Na ⁺ /I ⁻ symporter (NIS) | Post-doctoral fellow/ NIH |

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|-------------------|-----------|------------------------------|-----|---|--|
| Miller, Miller | 2013-2019 | Monash University, AU | PhD | Fragment based approach to target novel PISKx binding sites. | Scientist/ Walter and Eliza Hall Institute |
| Wright, Katharine | 2017-pres | University of Scanton | BSc | Laser-induced breakdown spectroscopy (LIBS) for elemental analysis in pharmaceutical market products | Postdoctoral Fellow/ |
| | | George Washington University | PhD | Structural and functional analysis of human MID1 B-box1 E3 ligase domain: Implications to X-linked optiz syndrome and overall MID1 function | |

THESIS COMMITTEES (past 5 years)

Feiran Zhang
 Jacqueline McCabe
 Lily Raines
 Elizabeth Petro
 Alfredo Julio Caro
 Maia Shoemaker
 Tural Aksel
 Melissa Zarr
 Andrew Buller
 Hoku West-Foyle
 Sarah Classen
 Osi Iyalomhe
 Juan Perilla
 Thomas Cleveland
 Yunlong Liu
 John Belcher
 Jordan Wagner
 Samerjeet Samerjeet
 Tyler Wied
 Brian Tenner
 Yunlong Liu
 Boyang Hua

Jesse Yoder
Mariusz Matyszewski
Sean Klein
Afif Bandak

VISITORS FOR COLLABORATIONS - (1990-2012)

Pedro Alzari. Immunologie Structurale - Institut Pasteur- Paris, France

Visit: May and June, 1990 (Duration 6 weeks)

Subject: Phase improvement Using Maximum Entropy

Hugo Monaco . Dipartimento di Strutturistica Chimica - University of Pavia - Pavia Italy

Visit: Monaco to Hopkins, July, 1990 (Duration: 4 weeks)

Visit: Amzel to Pavia, March, 1991 (Duration: 3 weeks)

Subject: Structural Studies of an Odorant Binding Protein - (NATO Collaboration Grant)

Julio Urbina. Departamento de Biologia Universidad Central- Caracas, Venezuela

Visit: September and October, 1990 (Duration 8 weeks)

Subject: Crystallization of Proteins from Trypanosoma Cruzi (NSF Collaboration Grant)

Fred Saul. Immunologie Structurale - Institute Pasteur, Paris, France

Visit: June 1992 to September 1992 (Duration 12 weeks)

Subject: Fatty acid binding to Lipoxygenase.

Pedro Alzari. Immunologie Structurale - Institute Pasteur, Paris, France

Visit: December 1992 (duration 2 weeks)

Subject: Implementation of New Molecular Replacement Software

Ewa Jankun. University of Toledo

Visit: Several visits, 1994-1995

Subject: Structure of Soybean Lipoxygenase L3

Hugo Monaco. Dipartimento di Strutturistica Chimica - University of Pavia - Pavia, Italy

Visit: Amzel to Pavia, May 1996

Subject: Odorant Binding Protein

Hugo Monaco. Dipartimento di Strutturistica Chimica - University of Pavia -Pavia Italy

Visit: Monaco to Hopkins, March 1997

Subject: Odorant Binding Protein

Alberto Pojarni. Strasbourg, France

Visit: August 1999

Subject: Refinement of structures at very high resolution (NSF Collaboration Grant)

Mauricio Urquiza. Instituto Immunologico - Bogota, Colombia

Visit: September 1999 - November 1999

Subject: Calorimetry of Vaccine Peptides

Alberto Podjarni. Strasbourg, France

Visit: June 2000

Subject: Refinement of structures at very high resolution (NSF Collaboration Grant)

Daniel Vega. Atomic Energy Comission - Buenos Aires, Argentina

Visit: August-September 2000

Subject: Establishment of Crystallographic software in Argentina.

Carlos Rojas Avellandeda, Unviersidad Javeriana – Bogota, Colombia

Visit: August/September 2003

Subject: Implementation on crystallographic software in Colombia.

Juan Pablo Acierno - Instituto Leloir, Buenos Aires, Argentina

Visit: November 2004

Subject: Collaboration

Maximo Barreras, Instituto Leloir, Buenos Aires, Argentina

Visit: June/July 2005

Subject: Collaboration

Yuly Sanchez, Pontificia Universidad Javeriana, Bogota, Colombia

Visit: November 2007

Subject: Training in computational biology.

Manuel Furlani, University of Verona, Italy

Visit: September 2009 – February 2010

Subject: Collaboration

Santiago DiLella, Universidad de Buenos Aires, Argentina

Visit: January 15, 2010 -March 30, 2010

Subject: Collaboration

Melisa Jacobs, Intituto Leloir, Buenos Aires, Argentina

Visit: March 2011 – May 2011

Subject: Collaboration

Yuly Sanchez, Pontificia Universidad Javeriana, Bogota, Colombia

Visit: February 2012 – August 2012

Subject: Training in computational biology.

Basilio Cieza Huaman, Universidad Cayetano Heredia, Peru

Visit: January 2014 – March 2014

Subject: Training in computational biology.

Yuly Sanchez, Pontificia Universidad Javeriana, Bogota, Colombia

Visit: July 2014 – December 2014

Subject: Training in computational biology.

César Ávila, Universidad Tucuman, Argentina

Visit: May 2015 – September 2015

Subject:

COLLABORATORS

Solomon Snyder

Johns Hopkins University Medical School

Ernesto Freire

Johns Hopkins University

Hamilton Smith

Johns Hopkins University Medical School

Maurice Bessman

Johns Hopkins University

Peter L. Pedersen

Johns Hopkins University Medical School

Eduardo Marban

Johns Hopkins University Medical School

William Guggino

Johns Hopkins University Medical School

COLLABORATORS (continued)

| | |
|-------------------------|---|
| Paul Talalay | Johns Hopkins University Medical School |
| Stephen Desiderio | Johns Hopkins University Medical School |
| Betty Eipper | University of Connecticut Health Center |
| Betty Gaffney | Florida State University |
| Richard Mains | University of Connecticut Health Center |
| Shiuan Chen | Beckman Institute of the City of Hope |
| David Ross | University of Colorado Health Sciences Center |
| Blas Frangione | New York University Medical School |
| Jorge Ghiso | New York University Medical School |
| Nancy Carrasco | Yale University |
| Gerardo Vasta | Center for Marine Biotechnology |
| Gordon Tomaselli | Johns Hopkins University Medical School |
| Steve Gould | Johns Hopkins University Medical School |
| Alexander Kolodkin | Johns Hopkins University Medical School |
| Mark Donowitz | Johns Hopkins University Medical School |
| Albert Mildvan | Johns Hopkins University Medical School |
| Manuel Patarroyo | Immunology Institute, Colombia |
| Susanne O-Handley | Rochester Institute of Technology |
| Donald McCarthy | University of Florida |
| Thomas Hurley | University of Indiana |
| Ying Zhang | Bloomberg School of Public Health |
| Jim Stivers | Johns Hopkins University Medical School |
| Bert Vogelstein | Johns Hopkins University Medical School |
| Ninian Blackburn | Oregon Health and Sciences University |
| Tony Romeo | University of Florida |
| Dario Estrin | University of Buenos Aires, Argentina |
| Peter Espenshade | Johns Hopkins University Medical School |
| Blanca Barquera | Rensselaer Polytechnic Institute |
| Roberto Docampo | University of Georgia |
| Svetlana Lutsenko | Johns Hopkins University Medical School |
| Ritimukta Sarangi | Stanford Synchrotron Radiation Lightsource |
| Juan Bautista Rodriguez | University of Buenos Aires, Argentina |
| Eric Oldfield | University of Illinois |
| Chris Ross | Johns Hopkins University Medical School |
| Dolores Gonzalez | Pacanowk- Granada, Spain |
| Silvia Piñeiro | University of Maryland |
| Joel B. Belasco | New York University, Skirball Center |
| Thomas Woolf | Johns Hopkins University Medical School |
| Phillip Cole | Johns Hopkins University Medical School |
| Gonzalo Pratt-Gay | Institute Leloir, Argentina |
| Caren Meyer | Johns Hopkins University Medical School |
| Jun Liu | Johns Hopkins University Medical School |
| James Barrow | Lieber Institute |
| Peter Devreotes | Johns Hopkins University Medical School |

Greg Semenza
Daniel Raben

Johns Hopkins University Medical School
Johns Hopkins University Medical School

SHORT COLLABORATIONS

Jonathan Schneck
Noel Rose
Janice Clements
Susan MacDonald
Jeremy Nathans
David Valle
Craig Montell
Min Li
Santiago DiLella
Melisa Jacobs

Johns Hopkins University Medical School
Bloomberg School of Public Health
Johns Hopkins University Medical School
Johns Hopkins University Medical School
Johns Hopkins University Medical School
Johns Hopkins University Medical School
Johns Hopkins University Medical School
Johns Hopkins University Medical School
University of Buenos Aires
Institute of Leloir, Argentina

PRESENTATIONS AND CONFERENCES - (since 1996)

- Indiana University Medical Center, Indianapolis, IN** January 22, 1996
Seminar: Structure and Mechanism of DT-Diaphorase:
A Flavoprotein Involved in Cancer Chemoprotection.
- University of California - Member Breast Cancer Panel** March 28, 1996
Seminar: Immunology and Drug Development
- University of Verona-Faculty of Science** May 21, 1996
Seminar: Three-Dimensional Structure of Quinone Reductase: Mechanism
of Cancer Chemoprotection
- Jacques Cartier Conferences, Structure and Dynamics of Proteins** Sept. 30 - Oct. 4, 1996
Seminar: Structure of Soybean Lipoxygenase
- FASEB Conference - Transport ATPases, Cooper Mountain, Colorado** August 18-23, 1996
Seminar: The Structure of Rat Liver F₁-ATPase
- Cornell Medical School, Department of Physiology** October 29, 1996
Seminar: Structure of F₁-ATPase and the Mechanism of ATP Synthesis
- University of Buenos Aires, Fac. of Pharmacy and Biochemistry** December 3, 1996
Seminar: Structure of ATP Synthase and the Mechanism of ATP Synthesis
- Florida State University - Tallahassee, FL** January 8, 1997
Seminar: Structure of ATP Synthase and the Mechanism of ATP Synthesis
- American Chemical Society, Maryland** March 27, 1997
Seminar: The Three-dimensional Structure of Bovine Odorant Binding
Protein and its Mechanism of Odor Recognition.
- III Ibero American Biophysical Congress, Buenos Aires, Argentina** September 1997
Key note speaker: Three-dimensional structure of rat-liver F₁-ATPase.
- Intern. Union of Pure and Applied Biophysics, La Plata, Argentina** September 24, 1997
Seminar: Future of Ibero American Biophysics.
- University of Buenos Aires, Fac. of Pharmacy and Biochemistry** October 1, 1997
Talk: Amidation of peptide hormones: Structure and function of
peptidylamino monooxygenase.
- Case Western. Cleveland, Ohio** October 30, 1997
Talk: Three-dimensional structure of rat-liver F₁-ATPase.
- Gordon Conference. Redox active amino acid side chains. Pisa, Italy** May 1997
Talk: Structure and mechanism of peptidyl amino monooxygenase.
- Course on Structural Biology. Cartagena, Colombia (IUPMB)** May 1997
Topic: Structural and thermodynamical aspects of binding and recognition.
- Gordon Conference Bioenergetics, New Hampshire** July 1997
Talk: Structure and mechanism of F₁-ATPase.
- University of Michigan** December 1997
Talk: Chemistry and Related Sciences Special Emphasis Panel
- Johns Hopkins University, Department of Biophysics** February 1998
Seminar: Three-dimensional structure of rat-liver F₁-ATPase.
- University of Pennsylvania, Dept. Chemistry and Pharmacology.** March 12, 1998
Seminar: Enzyme Symposium: "Structure of fatty acid lipoxygenases"

- Protein Folding Meeting. Coolfont, W.Va.** March 14-17, 1998
Discussion Leader. Protein Folding: thermodynamics and kinetics.
- Instituto de Inmunologia. Bogota, Colombia** March 1998
 Course on Structure and Thermodynamics of Peptide Binding.
- Universidad Nacional. Bogota, Colombia.** March 24-27, 1998
 Course on Membrane Proteins (with Dr. N. Carrasco).
- Lehman College, Bronx, New York.** April 23, 1998
 (1) Amidation of peptide hormones: Structure and function of Peptidylamino monooxygenase.
 (2) Use of monoclonal antibodies in the design of antihypertensive compounds.
- University of Maryland, School of Medicine, Maryland** October 25, 1998
Seminar: The structure of rat liver F1-ATPase: Configuration of a critical intermediate in ATP synthesis/ hydrolysis.
- Catholic University of America, Washington, D.C.** September 21, 1998
Seminar: The structure of rat liver F1-ATPase: Insights into the mechanism of ATP synthesis.
- City College of New York, New York** October 14, 1998
Seminar: Amidation of Bioactive peptides: The structure and mechanism of peptidylglycine hydroxylating monooxygenase.
- Johns Hopkins University, School of Medicine, Maryland** October 30, 1998
 Roundtable Discussion - Hispanics in Science
- Albert Einstein College of Medicine, New York** November 16, 1998
Seminar: The structure of rat liver F1-ATPase: Configuration of a critical intermediate in ATP synthesis/ hydrolysis.
- Lorne Protein Conference, Victoria, Australia** February 9, 1999
Symposium Speaker: The structure of rat liver F1-ATPase: Configuration of a critical intermediate in ATP synthesis/ hydrolysis.
- University of Delaware, Dept. of Chemistry** March 8, 1999
Talk: Structure and mechanism of peptidyl amidating monooxygenase: Pathway for electron transfer.
- Protein Folding Conference, Coolfont, West Virginia** March 30, 1999
Talk: Estimation of free-Energies of binding and stabilization: Combined empirical and statistical mechanical approach.
- British Biochemical Society. Meeting on Quinone Biochem. Glasgow, UK.** April 7-9, 1999
Talk: Structure and Mechanism of Cytosolic Quinone Reductases.
- NIH/NIDDK, Bethesda, Maryland** June 17, 1999
Talk: The structure of F1-ATPase: New insights into the mechanism of ATP synthesis.
- Universidad Javeriana. XVIII Physics Congress Bogota, Colombia.** June 24-30, 1999
Keynote Speaker: Structural and thermodynamical studies of binding.
- Colombian Physics Society, Annual Meeting.** June 30, 1999
Lecture: Thermodynamics of Binding: Combined Empirical and Statistical Mechanical Approach.
- FASEB Summer Research Conference, Snowmass, Colorado** July 5, 1999
Special Lecture: The structure at 2.8 Å of rat liver F₁ATPase reveals new insights into the mechanism of ATP synthesis.

Hispanic and Latin American Heritage, USAMRICD September 30, 1999
Talk: Structural Studies and Drug Design

Gibbs Conference on Biothermodynamics, Carbondale, Illinois October 2-5, 1999
Talk: Calculation of entropy changes in biological processes: Folding, Binding, and Oligomerization

Texas A&M University October 6, 1999
Talk: The structure of F1-ATPase: New insights into the mechanism of ATP synthesis.

Congress of Biophysics - Cordoba - Argentina November 5-7, 1999
Keynote Speaker: New insights into the mechanism of ATP synthesis.

Review Panel Synchrotron Line. Argonne National Laboratory November 10-11, 1999

Latino American Immunology Congress, Punta del Este, Uruguay December 12-15, 1999
Talk: Affinity maturation of anti NP antibodies.

Symposium on Structural Molecular Biology, Instituto Campomar Buenos Aires, Argentina December 17, 1999
Talk: Structure and mechanism of biological redox reactions.

Mount Sinai School of Medicine, New York January 19, 2000
Talk: Biochemistry and Physiology of Peptide Amidation.

Universidad Javeriana. Bogota, Colombia February 7-12, 2000
 Course on Molecular Biophysics

Hopkins Protein Folding Meeting, Berkeley Springs, West Virginia March 18-21, 2000
 Organizer (with Ernesto Friere)

Baylor College of Medicine, Houston, TX April 12, 2000
Talk: Biological Redox Reactions: Insights from Structure.

Secretary of Science and Technology, SECyT. Buenos Aires, Argentina April 18-19, 2000
 Review Panel on Strategic Research Areas.

Séminaire de Biologie Structurale, Paris, France June 7, 2000
Talk: Structure and Mechanism of Quinone Reductase: Improving Chemotherapeutic Drugs.

Séminaires à l'IGBMC, Strasbourg, France June 16, 2000
Talk: Structure and Mechanism of Quinone Reductase: Improving Chemotherapeutic Drugs.

Mayo Clinic, Rochester, Minnesota June 22, 2000
Talk: Structure and Mechanism of Quinone Reductase: Improving Chemotherapeutic Drugs.

Gordon Conference, Hormonal and Neural Peptide Biosynthesis, New Hampshire July 2000
Talk: Structure of PHM and its mechanistic implications.

IV Ibero American Biophysics Congress, Alicante, Spain October 11-14, 2000
Talk: Hormone Processing in Secretory Granules: Structure and Mechanism of the amidating enzyme.

Universidad de Granada, Granada, Spain. October 16, 2000
Talk: Redesigning Chemotherapeutic prodrugs: Structure and Function of Quinone Reductase.

DARPA BioMIMS Meeting January 3-4, 2001
Keynote Speaker: Structural Biology

The Sixth Johns Hopkins Folding Meeting, Berkeley Springs, W.Va. March 17-20, 2001
Presentation/Discussion Leader - Summary Session

Department of Pharmacy and Biochemistry, Universidad de Buenos Aires April 6, 2001
Talk: Excretion of peptidic hormones: amidation by oxidative hydroxylation.

Instituto de Investigaciones Fundacion Campomar, Buenos Aires, Argentina April 2001
Talk: Directions and Challenges in Structural Biology

Universidad de San Martin, Buenos Aires, Argentina. April 2001
Talk: Excretion of peptidic hormones: amidation by oxidative hydroxylation.

International Workshop on Protein Folding, Structure and Design, Trieste, Italy June 11-27, 2001
Talk: Evaluation of entropy changes in binding, and folding.

Bioenergetics Gordon Conference, New Hampshire June 17-22, 2001
Talk/Session Chair: Mechanism of ATP synthesis.

Course in Molecular Modeling, Cuernavaca, Mexico August 13-21, 2001
Course Director/ Lectures

Universidad Nacional Autonoma de Mexico, Cuernavaca, Mexico August 16, 2001
Talk: Estimating Binding Affinities based on Structural Data.

Annual Biophysics/Cell Biology Symposium, Purdue University, W. Lafayette, Indiana November 10, 2001
Keynote Speaker: The mechanism of ATP synthesis.

XIV International Biophysics Congress Buenos Aires, Argentina April 27-May 1, 2002
Talk: Understanding ATP synthesis: Structure and mechanism of the F1-ATPase.

Satellite-IUPAB 2002 An Ion Channels and Transporters Odyssey Centro de Estudios Cientificos, Valdivia, Chile May 3-4, 2002
Talk: Proton transport and ATP synthesis: Structure and mechanism in the Mitochondrial ATPase.

Instituto de Investigaciones Biologicas de la Fundacion Campomar Buenos Aires, Argentina April 24, 2002
Talk: Mechanism of ATP synthesis: Structure and function of the Mitochondrial ATPase.

Universidad Nacional de la Patagonia, Delegacion San Juan Bosco, Puerto Madryn, Argentina April 26, 2002
Talk: Mechanism of ATP synthesis: Structure and function of the Mitochondrial ATPase.

Universidad Nacional de Buenos Aires, Facultad de Ciencias Chemistry Department, Argentina April 30, 2002
Talk: Mechanism of electron transfer in peptidylglycine hydroxylating monooxygenase.

Structural Biology and Structural Genomics/Proteomics, Bethesda Marriott, Maryland May 7-10, 2002
Talk: Proton transport and synthesis of ATP: Structure and Mechanism of the Mitochondrial ATP-Synthase

- Gordon Research Conference, Connecticut College, Connecticut** July 21-26, 2002
Session Chair: "What's in a structure?"
Talk: The mechanism of ATP synthesis.
- Instituto Fundacion Compomar, Buenos Aires, Argentina** October 25, 2002
Talk: Chemoprotection and chemotherapy: two sides of the same coin.
- Mount Sinai School of Medicine, New York, NY** December 6, 2002
Seminar: Chemoprotection and chemotherapy: two sides of the same coin.
 Structure and mechanism of Quinone Reductases.
- University of Connecticut Health Science Center, Farmington, CT** Feb. 20, 2003
Seminar: Chemoprotection and chemotherapy: two sides of the same coin.
- Instituto Fundacion Compomar, Buenos Aires, Argentina** March 24 – April 3, 2003
 Course: X-ray Crystallography Diffraction of Macromolecules
- Instituto Immunologico de Colombia, Bogota, Colombia** May 5 – 9, 2003
Talk: External Evaluation and Advisor
- Instituto Fundacion Compomar, Buenos Aires, Argentina** March 24 – April 3, 2003
Seminar: Structure and mechanism of Nudix hydrolases.
- Organizing Committee V SOBLA Congress, Rio de Janeiro, Brazil** October 12-15, 2003
- University of Colorado Health Sciences Center, Denver, Colorado** November 13, 2003
Talk: Amidation of bioactive peptides. Structure and mechanism of copper monooxygenase.
- University of Maryland at College Park, Chemistry and Biochemistry Department, Baltimore, Maryland** December 2, 2003
Talk: Amidation of bioactive peptides. Structure and mechanism of copper monooxygenase.
- Universidad del Pais Vasco – Instituto de Biofisica, Bilbao, Spain** February 9, 2004
Seminar: Chemoprotection and chemotherapy: Two sides of the same coin.
 Structure and mechanism of quinone reductase.
- Instituto for Biocomputation and Physics of Complex Systems (BIFI) Zaragoza, Spain** February 13, 2004
 International Conference Biology after the genome: A physical view.
Symposium: Molecular Mechanics/ Dynamics Calculations of Biochemical Processes
Course: X-ray Diffraction of Macromolecules
- Instituto Leloir – Fundación Campomar, Buenos Aires, Argentina** March 31, 2004
Symposium in honor of Dr. Amzel
Talk: Amidation of Bioactive Peptides
- Instituto Leloir – Fundación Campomar, Buenos Aires, Argentina** March 28 – April 2, 2004
Course: Crystallography Class
- Society for Free Radical Biology and Medicine, Buenos Aires, Argentina** May 5-9, 2004
Talk: Cancer chemoprevention and chemotherapeutics: two sides of the same coin.
 Structure and mechanism of quinone reductase.
Chairperson: Reactive Species and Cancer
- CyberInfrastructure and CyberScience Workshop, Johns Hopkins University** June 22, 2004
Talk: Computational Biophysics: What can we learn from atomic level calculations.

- Indiana University School of Medicine, Indiana** September 27, 2004
Seminar: Catching oxygen in the act: Structure and mechanism of the bioactive-peptide amidating enzyme.
- Wake Forest University, North Carolina** January 11, 2005
Seminar: Catching oxygen in the act: Structure and mechanism of the bioactive-peptide amidating enzyme.
- Rutgers University, New Jersey** March 20, 2005
Panel: Scientific Review of the Protein Data Bank
- Universidad Autonoma de Mexico-Chemistry Institute, Mexico** August 16-26, 2005
Course: Structure based drug design
Section on: X-ray diffraction of proteins.
- Universidad Autonoma de Mexico–Institute of Cellular Physiology, Mexico** August 25, 2005
Seminar: “Amidation of neuropeptides and hormones: structure and mechanism of the amidating enzyme”
- Institut Pasteur, Paris, France** September 22, 2005
Talk: Structure and activity of MICAL, an axon guidance protein.
- 3rd International SFB Conference: Metal Mediated Reactions Modeled after Nature** September 28, 2005
Talk: Catching oxygen in the act: Structure and mechanism of peptidylglycine hydroxylating monooxygenase.
- Universidad Nacional de Colombia, Bogota, Colombia** October 7, 2005
Talk: Activation of oxygen by copper: Structure and mechanism of amidating hydroxylase.
- Sociedad Argentina de Investigaciones Clinicas, Mar del Plata, Argentina** Nov 29 - Dec 2, 2005
Talk: From structure to function to drug design: use of structural research in Biomedical Sciences.
- Sociedad Argentina de Investigaciones Bioquímicas, Pinamar, Argentina – Panamerican Association for Biochemistry and Molecular Biology** December 6, 2005
Talk: Structure and function of farnesyl diphosphate synthase from *Trypanosoma cruzi*: implications for drug design.
- Johns Hopkins University, Maryland** January 25, 2006
Talk: Hydride transfer in flavin reactions: A quantum mechanical Molecular dynamics approach to enzyme function.
- University of Zaragoza, Spain** February 8-11, 2006
Talk: From physics to biology: The interface between experiment and computation.
- IV Ibero American Biophysics Congress, Madrid, Spain** September 24-27, 2006
Plenary Lecture: From structure to function to drug design: The use of structural information in Biomedical Research.
- Johns Hopkins University Homewood Campus, Baltimore, Maryland** December 13, 2006
Seminar (Evening Series): Electron transfer reactions: What’s the matter?
- University of Chicago, Chicago, Illinois** January 10, 2007
Talk: Redox signaling in axon guidance: Structure and activity of MICAL.

- Instituto Leloir – Fundación Campomar, Buenos Aires, Argentina** May 8–11, 2007
External Advisory Committee
- Pharmacy School, University of Buenos Aires, Argentina** May 28 - June 1, 2007
Talk: From structure to function to drug design: The role of structural biology in biomedical research.
- Ben-Gurion University, Beer-Sheva, Israel** May 28 - June 1, 2007
Noun Shavit Memorial Lecture: From structure to function to drug design: The role of structural biology in biomedical research.
- Ben-Gurion University, Beer-Sheva, Israel** May 28 - June 1, 2007
Talk: Activation of bioactive peptides: Structure and mechanism of peptidyl hydroxylating monooxygenase.
- Universidad Javeriana. Bogota, Colombia.** August 1, 2007
Talk: Structure and function in the drug design: The use of structural biology in biological sciences.
- Universidad Javeriana. Bogota, Colombia.** August 3, 2007
Talk: Mechanism of a copper enzyme: Peptide amidating monooxygenase.
- Universidad Nacional de Buenos Aires, Facultad de Ciencias, Chemistry Department, Argentina** September 23, 2007
Talk: Redox signaling in axon guidance: Structure and activity of MICAL.
- Universidad Nacional de Buenos Aires, Facultad de Ciencias, Chemistry Department, Argentina** September 24-25, 2007
Faculty Evaluation Committee
- Universidad Javeriana, Bogota, Colombia** October 25, 2007
Talk: Entropic contributions to reactions rates.
- Universidad Javeriana, Bogota, Colombia** October 26, 2007
Talk: Unfolding proteins by forces.
- Albert Einstein College of Medicine** November 26, 2007
Talk: Redox signaling in axon guidance: Structure and activity of MICAL.
- Instituto de Biología Molecular y Celular de Rosario, Argentina** October 21, 2008
Talk: Structure and mechanism of Oncogenic PI3K- α mutations.
- Instituto Leloir – Fundación Campomar, Buenos Aires, Argentina** October 24, 2008
Talk: Structure and mechanism of Oncogenic PI3K- α mutations.
- NIGMS Meeting** October 30-31, 2008
Panel: Future of Protein Structure Initiative
- Albert Einstein College of Medicine** November 10, 2008
Talk: Amidation of bioactive peptides: Structure and mechanism of PAM, the amidating enzyme.
- Centro de Biología Molecular, Universidad Autónoma de Madrid, Spain** January 28, 2009
Talk: Redox reactions in axon guidance: Structure and mechanism of MICAL.
- Universidad Complutense, Madrid, Spain** January 29, 2009
Talk: Structure and mechanism of oncogenic PI3K- α mutations.
- Centro Nacional de Investigaciones Oncológicas, Madrid, Spain** January 30, 2009
Talk: Insights into the oncogenic effects of PIK3CA mutations from the structure of p110 α /p85 α .

- 14th International Conference on Biological Inorganic Chemistry, Nagoya, Japan** July 29, 2009
Talk: Peptidylglycine α -hydroxylating monooxygenase (PHM): Oxygen activation and small molecule binding by a copper center.
- Rio De Janeiro, Brazil** October 3, 2009
Talk: Insights into the oncogenic effects of PIK3CA mutations from the structure of p110 α /p85 α .
- University of Maryland, Department of Chemistry and Biochemistry** November 10, 2009
Talk: Insights into the oncogenic effects of PIK3CA mutations from the structure of phosphoinositide-3-kinase.
- Johns Hopkins University, School of Medicine, Dean's Lecture** January 25, 2010
Dean's Lecture: Capitalizing on tumor genotyping toward the design of mutation-specific drugs.
- University of Missouri, Kansas City** February 4, 2010
Talk: Capitalizing on tumor genotyping toward the design of mutation-specific drugs.
- PTEN Pathways and Targets Conference, Cold Spring Harbor, NY** March 16, 2010
Talk: Insights into the oncogenic effects of PIK3CA mutations from the structure of phosphoinositide-3-kinase.
- Institut Pasteur de Montevideo, Uruguay** May 1, 2010
Course: "Macromolecular Crystallography: Introduction and applications."
Course: Fourier Theory: the diffraction experiment revisited.
- Institut Pasteur de Montevideo, Uruguay** May 1, 2010
Course: "Macromolecular Crystallography: Introduction and applications."
Lecture: The Fourier transform: concepts & properties; related functions. May 1, 2010
- Universita Degli Studi Di Verona, Verona, Italy** September 28, 2010
Talk: Insights into the oncogenic effects of PIK3CA mutations from the structure of Phosphoinositide-3-kinase.
- XXXIX Annual Meeting of the Argentinean Biophysical Society, Salta, Argentina** October 12-16, 2010
Talk: Capitalizing on tumor genotyping: Toward the design and mutation-specific inhibitors.
- Sociedad Mexicana de Bioquimica, Tuxtla Gutierrez, Mexico** November 12, 2010
Talk: Mechanisms of activations by mutations revealed by the structure of PI3K-alpha.
- Johns Hopkins University, Chemistry-Biology Department** January 28, 2011
Talk: What is a nice chemist like you doing in a place like Biophysics?
- ASBMB, Washington, D.C.** April 9-13, 2011
Talk: Structural and mechanistic studies on peptidylglycine alpha-amidating enzyme.
- Seoul University, Korea** August 10, 2011
Talk: Activation of PI3Kalpha by physiological effectors and by oncogenic Mutations: structural and dynamic effects.

- Konkuk University, Korea** August 12, 2011
Talk: Activation of PI3K α by physiological effectors and by oncogenic mutations: structural and dynamic effects.
- Gibbs25 Conference, Carbondale, Illinois** September 17-20, 2011
Talk: Computation of free energies by multi-step trajectory combinations.
- National Institutes of Health, Washington, DC** October 5, 2011
Talk: Activation of PI3K α by physiological effectors and by oncogenic mutations: structural and dynamic effects.
- Universidad Autonoma Metropolitana, Mexico** October 27, 2011
Talk: Activation of PI3K α by physiological effectors and by oncogenic mutations: structural and dynamic effects.
- LaFeBS Congress, Brazil** October 25, 2012
Session Chair: Plenary Lecture A
- LaFeBS Congress, Brazil** October 25, 2012
Session Chair: Plenary Lecture A
- Panel Evaluation of Faculty Promotions, University of Buenos Aires Argentina** October 29, 2012
Panel member
- Facultad de Ciencias Exactas de Naturales, University of Buenos Aires Argentina** November 5, 2012
Conference
- Gordon Research Conference, Mechanisms of Membrane Transport** June 16-21, 2013
Session Chair: Mechanisms of Membrane Transport
- Gordon Research Conference, Mechanisms of Membrane Transport** June 16-21, 2013
Speaker: Thermodynamic/kinetic analysis of the populations contributing to iodide transport by NIS
- Denmarks Tenknisk Universitet, Denmark** September 18, 2013
Talk: Structure and mechanism of peptidylglycine- α -amidating monooxygenase PAM.
- Kurume University School of Medicine, Japan** November 14, 2013
Talk: Amidation of Bioactive Peptides: Structure and Mechanism of Peptidylglycine α -Amidating Monooxygenase
- Konkuk University, South Korea** November 17, 2013
Talk: Amidation of Bioactive Peptides: Structure and Mechanism of Peptidylglycine α -Amidating Monooxygenase
- University of Maryland Baltimore, Graduate Student Association Lecture** May 9, 2014
Talk: Activation of PI3K by physiological effectors and by oncogenic mutations: structural and dynamic effects.
- LABIC, University of Buenos Aires, Argentina** August 5, 2014
Talk: Structure and mechanism of the metalloenzyme peptidylglycine amidating monooxygenase.
- Rensselaer Polytechnic Institute, New York** October 20, 2014
Talk: Activation of PI3K by physiological effectors and by oncogenic mutations: structural and dynamic effects.

- Reunion de la Asociacion, Argentina de Cristografia,
Mar del Plata, Argentina** October 28, 2014
Plenary Lecture: Crystallography and drug design: inhibition of parasitic farnesylpyrophosphate synthase.
- Facultad de Ciencias Exactas of Naturales, University of Buenos
Aires, Argentina** November 5, 2014
Seminar: Structure and function of farnesyl diphosphate synthase from *Trypanosoma cruzi*: implications for drug design.
- Sociedad Argentina de Investigaciones Bioquimicas,
Rosario, Argentina** November 13, 2014
Talk: Control of PIP3 levels: Structure and mechanism of PI3K α .
- XLIII Annual Del Sociedad, Argentina de Biofisica (SAB),
Sierra de la Ventana, Buenos Aires, Argentina** December 5, 2014
Closing Conference: Control of PIP3 levels: Structure and mechanism of PI3K α .
- Konkuk University, South Korea** January 12, 2015
Workshop: Protein Structure
- Yale University Medical School** April 7, 2015
Talk: Binding and Transport by the Sodium/Iodide symporter NIS
- Yale University Medical School** April 9, 2015
Talk: Activation of PI3K by physiological effectors and by oncogenic mutations: Structural and dynamic effects.
- Pyeongchang Campus, Seoul National University, South Korea** August 18, 2015
Talk: Control of the levels of PIP3 in normal and tumor cells: Structure and Function of the lipid kinase PI3K α .
- Korean Society for Applied Biological Chemistry South Korea** August 18, 2015
Talk: Control of the levels of PIP3 in normal and tumor cells: Structure and Function of the lipid kinase PI3K α .
- Konkuk University, Seoul National University, South Korea** August 19, 2015
Talk: Amidation of Bioactive Peptides.
- Biophysical Society Thematic Meeting, Stellenbosch, South Africa** November 18, 2015
Talk: Inhibition of Parasitic Farnesyl Diphosphate Synthases (FPPS)
- Institute Cardilogic Investigations, Argentina** December 9, 2015
Talk: Calmodulin and Ca²⁺ control of voltage gate Na⁺ channels.
- Ku Bio Symposium, Konkuk University, South Korea** May 10-11, 2016
Talk: Activation of PI3K α by physiological effectors and by oncogenic mutations: structural and dynamic effects.
- SAIC-SAFE, Annual de la Sociedad, Mar del Plata, Argentina** November 16, 2016
Talk: Regulation of the cardiac sodium channel Nav1.5 by calmodulin and calcium.
- SAIC, Annual de la Sociedad, Mar del Plata, Argentina** November 18, 2016
Talk: Control of PIP3 levels by PI3K alpha in health and disease.
- Vaccines R&D 2016, Cartagena, Colombia** November 10-12, 2016
Talk: Development of inhibitors of parasitic Farnesyl Pyrophosphate Synthases.
- Vaccines R&D 2016, Cartagena, Colombia** November 10-12, 2016
Talk: Recognition of the native protein by anti-peptide antibodies.

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| Universidad Nacional de Colombia, Bogota, Colombia | March 13-17, 2017 |
| <i>Three Classes on x-ray diffraction.</i> | March 13, 2017 |
| <i>Three Classes on Molecular Modeling</i> | March 16, 2017 |
| <i>Talk: Control of PIP3 levels of PI3Kα in health and disease</i> | March, 2017 |
| <i>Talk: Calcium regulation of sodium channels: carboxy terminal tail interactions with calmodulin</i> | March, 2017 |
| Virginia Commonwealth University, Virginia | April 6, 2017 |
| <i>Talk: Calmodulin and Ca²⁺ control of voltage gated Na⁺ channels.</i> | |
| Universidad de La Habana, Havana, Cuba | July 10-11, 2017 |
| <i>Talk: Control of PIP3 levels by PI3K-alpha in health and disease.</i> | |
| Congreso SEADIM, Varadero, Cuba | July 12-14, 2017 |
| <i>Talk: Calmodulin and Ca²⁺ control of voltage gated Na⁺ channel.</i> | |
| SISTAM, Symposium in Signal Transduction and Molecular Medicine, Bariloche, Argentina | October 14-19, 2018 |
| <i>Talk: Control of PIP3 levels by PI3Kα and PTEN.</i> | |
| XIV Reunión Anual de la AACr – Inaugural Lecture, Argentina | Oct 31-Nov 2, 2018 |
| <i>Talk: Conformational landscape of Peptidylglycine α-Hydroxylating Monooxygenase</i> | |
| AACR Targeting PI3K/mTOR Signaling, Boston, Massachusetts | Nov 30-Dec 3, 2018 |
| <i>Talk: Control PIP3 levels by PI3Kα and PTEN</i> | |
| ASBMB, The Many Faces of Kinases and Pseudokinases, San Diego, CA | Dec 9-12, 2018 |
| <i>Talk: Increase in activity in PI3Kα by oncogenic mutations is caused by changes in the protein dynamics(5).</i> | |