

CURRICULUM VITAE

(last updated 6-15-17)

PERSONAL INFORMATION

Name: Diomedes E. Logothetis
Title: Professor of Pharmaceutical Sciences, School of Pharmacy
Institution Name: Bouvé College of Health Sciences, Northeastern University
Business Address: Department of Pharmaceutical Sciences
805 Columbus Avenue, ISEC building, Rm. 428
City, State, Zip: Boston, MA 02120
Business Phone: (617) 373-7937
Business Email: d.logothetis@northeastern.edu

PROFESSIONAL SUMMARY

Research Interests:

- Phosphoinositide signaling to ion channels and membrane proteins
- Heteromeric GPCR signaling in health and disease
- Mechanisms of action of small molecule ligands on ion channels and GPCRs

EDUCATION

POSTGRADUATE:

1989-1993 Research Associate, Howard Hughes Medical Institute, Department of Cardiology, Children's Hospital (Bernardo Nadal-Ginard)
1987-1989 Department of Cardiology, Children's Hospital, Boston, (Bernardo Nadal-Ginard) & Dept. of Cellular & Molecular Physiology, Harvard Medical School (HMS) (Peter Hess)

GRADUATE:

1987 Ph.D., Harvard University (Physiology and Biophysics, Mentor: David Clapham)
1981 M.A., Northeastern University (Psychology, Mentor: Michael Terman)

UNDERGRADUATE:

1980 B.A., Northeastern University (NEU) (Physics)

ACADEMIC APPOINTMENT HISTORY

2017- Professor and of Pharmaceutical Sciences, Northeastern University, Bouvé College of Health Sciences, Boston, MA.
2016 - 2017 Professor and Chair of Pharmaceutical Sciences, Northeastern University, Bouvé College of Health Sciences, Boston, MA.

| | |
|-------------|--|
| 2016 Jul - | Adjunct Professor of Physiology and Biophysics, VCU-SOM, Richmond, VA |
| 2008 - 2016 | Professor and John D. Bower Chair of Physiology and Biophysics, Virginia Commonwealth University (VCU) School of Medicine (SOM), Richmond, VA. |
| 2008 - | Adjunct Professor of Structural and Chemical Biology, <u>Mount Sinai School of Medicine (MSSM)</u> |
| 2002-2007 | Professor, Molecular Physiology and Biophysics/ Structural & Chemical Biology, MSSM, NYU |
| 1997-2002 | Associate Professor, Physiology and Biophysics, MSSM, City University of New York (CUNY) |
| 1993-1997 | Assistant Professor, Physiology and Biophysics, MSSM, CUNY |
| 1987-1993 | Instructor, Cellular & Molecular Physiology, Harvard Medical School (HMS) |

EMPLOYMENT HISTORY (Administrative Experience)

| | |
|-------------|--|
| 2017 - | Director of Graduate & Undergraduate Programs in Pharmaceutical Sciences, Northeastern University, Bouvé College of Health Sciences, Boston, MA. |
| 2016 – 2017 | Chair of Pharmaceutical Sciences, Bouvé College of Health Sciences, School of Pharmacy, Northeastern University, Boston, MA. |
| 2008 – 2016 | John D. Bower Chair of Physiology and Biophysics, Virginia Commonwealth University School of Medicine, Richmond, VA. |
| 2003 – 2007 | MD/PhD Director, Mount Sinai School of Medicine |
| 2002 - 2006 | Dean of Biological Sciences, Mount Sinai Sch. of Medicine, New York, NY |
| 2002- 2007 | Vice Chairman, Dept. of Molecular Physiology and Biophysics/ Department of Structural and Chemical Biology, MSSM |

AWARDS AND HONORS

| | |
|-----------|---|
| 2014 | 2014 Distinguished Mentor Award, VCU |
| 2014 | Honorary Professor, School of Medicine, U. of Crete in Heraklion, Greece |
| 2008 | Outstanding Mentor Award, MSSM |
| 2005 | Student Council Appreciation Award, MSSM |
| 2002 | Excellence in Teaching Award, 1 st year grad students, MSSM |
| 2001 | Excellence in Teaching Award, 1 st year grad students, MSSM |
| 2000 | Excellence in Teaching Award, 1 st year grad students, MSSM |
| 1992 | Excellence in Teaching Award, 1 st year Med. students, HMS, Class of |
| 1986-1987 | Albert J. Ryan Fellow, Division of Medical Sciences, HMS |
| 1980 | Avrom Aaron Leve Award, Outstanding Psychology Student, NU |

MEMBERSHIP IN PROFESSIONAL SOCIETIES:

| | |
|-------|---|
| 2013- | American Society for Biochemistry & Molecular Biology |
| 2012- | Society for Neuroscience |
| 2008- | American Physiological Society |
| 1995- | New York Academy of Sciences |
| 1994- | American Association for the Advancement of Science |
| 1986- | Biophysical Society |

SCIENTIFIC AND SCHOLARLY

ACTIVITIES GRANTS: ACTIVE/PENDING

1. Principal Investigator: Diomedes E. Logothetis

Active (ranked at 1st percentile)

Project Number (Principal Investigator): R01HL59949 (Yrs. 19-22); Diomedes E. Logothetis
Source: NIH/NHLBI

Title of Project (and/or Subproject): Structural Determinants of PIP2 Regulation

Dates of Approved/Proposed Project: 4/1/16-1/31/20

Annual Direct Costs / Percent Effort: \$250,000; 15%

The major goals of this project are on one hand to elucidate the mechanism by which PKC-dependent phosphorylation inhibits Kir3 channels via specific phosphorylation of key residues that alter channel-PIP2 interactions. Moreover, we have demonstrated that Kv2.1 voltage-gated channels U-type inactivation depends on channel-PIP2 interactions and the mechanism by which PIP2 couples to the selectivity filter gate promises to elucidate the missing link of how the channel gates are coupled through PIP2.

Overlap (summarized for each individual): None

2. Principal Investigator: Diomedes E. Logothetis

Pending: NIH-R01 A1 revision in preparation for 7/5/17 submission

Project Number (Principal Investigator): NEW PROPOSAL; Diomedes E. Logothetis
Source: NIH/NIMH

Title of Project (and/or Subproject): Heteromeric complexes of 5-HT2A with D2 and mGlu2 receptors in psychosis

Dates of Approved/Proposed Project: Pending

Annual Direct Costs / Percent Effort: \$500,000; 15%

The major goals of this project are: a) to elucidate the molecular basis of heteromeric coupling of 2AR with either D2R or mGlu2R and to employ a peptide-mediated disruption of these GPCR complexes in heterologously expressed as well as in native heterocomplexes; b) to control the electrical behavior of VTA and PFC neurons by signaling through D2, mGlu2, and 5-HT2A receptors; c) to investigate the antipsychotic-like behavior in mice in which 2AR and D2R are unable to signal as heteromers.

Overlap (summarized for each individual): None

3. Principal Investigator: Diomedes E. Logothetis

Pending: NIH-R01: A1 revision in preparation

Project Number (Principal Investigator): 2 R01 HL090882-05; Diomedes E. Logothetis
Source: NIH/NHLBI

Title of Project (and/or Subproject): Modulation of K Channel Function by Gasotransmitters

Dates of Approved/Proposed Project: Pending

Annual Direct Costs / Percent Effort: \$250,000; 15%

The major goals of this project are: a) to identify the mechanism by which the gasotransmitter H2S activates K-ATP channels; b) to test the hypothesis that cellular excitatory/inhibitory effects of H2S depend on the relative expression of Kir channels; c) to test for H2S-dependent cardiac effects during ischemia reperfusion in small animal models.

Overlap (summarized for each individual): None

4. Principal Investigator: Diomedes E. Logothetis

Pending: NIH-R01: A1 revision in preparation

Project Number (Principal Investigator): RGM111087A; Diomedes E. Logothetis

Source: NIH/NIGMS

Title of Project (and/or Subproject): Mechanism of G protein regulation of neuronal K channel activity

Dates of Approved/Proposed Project: Pending

Annual Direct Costs / Percent Effort: \$287,000; 15%

The major goals of this project are: a) To elucidate the mechanism of $G\beta\gamma$ activation of neuronal homomeric versus heteromeric GIRK channels; b) to clarify how G proteins regulate GIRK1/2 homomeric and heteromeric channels in a pure system; c) To discern the basis of differential regulation of GIRK1 versus GIRK2 activity by the $G\alpha$ subunits

Overlap (summarized for each individual): None

GRANTS: PAST

NIH

R01HL59949

2011-2016

National Institutes of Health, National Heart, Lung and Blood Institute, R01HL59949-14 through year 18. Title: Structural determinants of PIP_2 Regulation. Direct overall funds: \$1,646,860; Competitive Renewal Awarded. (VCU)

2007-2011

National Institutes of Health, National Heart, Lung and Blood Institute, R01HL59949-09 through year 13. Title: Structural determinants of PIP_2 Regulation. Direct overall funds: \$900,000; Competitive Renewal Awarded. (MSSM/VCU)

2001-2006

National Institutes of Health, National Heart, Lung and Blood Institute, R01HL59949-05 through year 09. Title: Structural determinants of PIP_2 Regulation. Direct overall funds: \$800,000; Competitive Renewal Awarded. (MSSM)

1997-2001

National Institutes of Health, National Heart, Lung and Blood Institute, R01HL59949-01 through year 04. Title: Lipid Control of G Protein-Gated K^+ Channel Activity. Direct overall funds: \$658,068. (MSSM)

R01HL090882

2009-2013

National Institutes of Health, National Heart, Lung and Blood Institute, R01HL090882-01 through year 04. Title: Modulation of Kir Channel Function by Phosphorylation. Direct overall funds: \$1,153,038 Competitive Renewal in Preparation. (VCU)

R01HL54185

2001-2005

National Institutes of Health, NHLBI R01HL54185-06 through year 09. Title: Specificity of $G\beta\gamma$ Signaling. Direct overall funds: \$801,937 (MSSM)

1996-2001 National Institutes of Health, National Heart, Lung and Blood Institute R01HL54185-01 through year 05. Title: Potassium Channel Modulation by G Protein Subunits. Direct overall funds: \$848,255. (MSSM)

Transitional Award

1992-1996 National Institutes of Health Research FIRST Award (R29HL46383). Title: Structural Basis of Potassium Channel Function. Direct Overall Funds: \$274,391. (Children's Hospital, Boston/MSSM)

Training Grant

2007-2012 National Institutes of Health, National Institute of General Medical Sciences (NIGMS), Title: Mount Sinai Medical Scientists Training Program. Direct overall funds: \$1,013,791 (2007-2008); Years 2-5: \$1,158,618/yr (7/1/08-6/30/12 was transferred to succeeding Program Director, Dr. Lisa Satlin). (MSSM)

Scientific Meeting Organization

2005 National Institutes of Health, NIEHS – Office of Rare Diseases, Title: FASEB Conference: Ion Channel Regulation. Direct overall funds: \$25,000; Supplemented R13HL082354 and NSF 0509719 awards for 2005 FASEB Summer Research Conference (Snowmass, CO). (MSSM)

2005 National Institutes of Health, National Heart, Lung and Blood Institute, 1R13HL082354-01 Title: FASEB Conference: Ion Channel Regulation. Direct overall funds: \$10,000; Supplemented ORD- NIEHS and NSF 0509719 awards for 2005 FASEB Summer Research Conference (Snowmass, CO). (MSSM)

Collaborative Grants

2003-2006 Fogarty International Center, R03 TW006020. Title: Protein Kinase C-dependent inhibition of Kir channels. Direct Overall Funds: \$96,000. (Dr. Hailin Zhang, Hebei Medical University, Shijiazhuang, China). (MSSM)

2000-2003 Fogarty International Center, R03 TW01240. Title: Identification of channel sites in G β γ subunits. Direct Overall Funds: \$96,000. (Dr. Cheng He, Second Military Medical University, Shanghai, China). (MSSM)

NSF

Research grant

1999-2002 National Science Foundation, IBN-9818053. Title: G β γ sites for human brain recombinant potassium channels. Direct Overall Funds: \$157,104. (MSSM)

Scientific Meeting Organization

2005 National Science Foundation, Award No. 0509719 (co-PI with Victoria Bolotina), Title: FASEB Conference: Ion Channel Regulation. Direct overall funds: \$15,000; Supplemented ORD-NIEHS and NIH R13HL082354 awards for 2005 FASEB Summer Research Conference (Snowmass, CO). (MSSM)

FOUNDATIONS

American Heart Association

- 2000-2004 American Heart Association – Established Investigator Award, 0040238N. Title: Specific residues involved in allosteric interactions of K⁺ channel sites with G protein $\beta\gamma$ subunits and PIP₂. Direct Overall Funds: \$300,000. (MSSM)
- 1996-1999 American Heart Association, National Center, Grant-In-Aid. Title: Subunit Interactions of G Protein-Gated Potassium Channels. Direct overall funds: \$120,000. (MSSM)
- 1994-1997 American Heart Association, New York Affiliate, Grant-In-Aid. Title: Identification of G-protein Subunits Involved in K⁺ Channel Activation. Direct overall funds: \$128,250. (MSSM)

Stavros Niarchos Foundation

- 2017 Greek Diaspora Fellowship Program funded by the Stavros Niarchos Foundation and administered by the Institute of International Education, Washington DC. Scholarship to cover expenses for spending July 2017 in the laboratory of Dr. Kyriaki Sidiropoulou at the University of Crete in Heraklion, Greece. Direct overall funds: \$8,806.96

Life and Health Insurance

- 1995-1998 Life and Health Insurance Medical Research Fund. Title: G-protein Subunit Regulation of an ATP-Sensitive Potassium channel. Direct overall funds: \$75,000. (MSSM)

Institutional Bridging Support

- 2005-2006 Mount Sinai School of Medicine - Bridge Funds for HL54185. Title: Distinct G Protein Signaling Pathways Regulate Potassium Channels (Competitive Continuation Proposal with NIH was not funded – A1 revision score: 163, 18.2 percentile; A2 revision score: 168, 22.7 percentile). Direct overall funds: \$225,000. (MSSM)

Private Support

- 2000-2006 Mark Pruzansky, MD. Private donor contributing \$5,000-10,000 annually in support of research programs. (MSSM)

RESEARCH ADVISING AND MENTORING:

Present Research Scientists:

-
- | | |
|--------|---|
| 2017- | 1. Leigh Plant (PhD, 2003); Research Associate Professor, NEU |
| 2017- | 2. Meng Cui (PhD, 1999); Research Associate Professor, NEU |
| 2017 - | 3. Edgar Leal-Pinto (MD, 1964); Adjunct Professor, NEU |
| 2016- | 4. Lia Baki (PhD, 1997); Research Assistant Professor, NEU |
| 2016 - | 5. Takeharu Kawano (PhD, 2000); Senior Res. Scientist, NEU |
| 2016 - | 6. Yu Xu (PhD, 2012); Associate Research Scientist, NEU |

Past Post-doctoral Fellows and Associates:

- 2015 – 2016 1. Yu Xu (PhD, 2012), Post-doctoral fellow, VCU; currently at NEU
- 2013 – 2016 2. Takeharu Kawano (PhD, 2000); Postdoc/Research Assist. Professor, VCU; currently at NEU
- 2008 - 2015 3. Lia Baki (PhD, 1997); Res. Assistant Professor, VCU; currently at NEU
- 2008 – 2016 4. Edgar Leal-Pinto (MD, 1964); Adjunct Professor, VCU; currently at NEU
- 2008 - 2014 5. Qiongyao Tang (PhD, 2004); currently: Assistant Prof., XuZhou, China
- 2012 - 2014 6. Miao Zhang (PhD, 2007); currently: Assistant Prof., Chapman U, CA
- 2012- 2013 7. Xuan-Yu Meng (PhD, 2012); currently: Assistant Professor in China
- 2009 - 2013 8. Shobana Sundaram (PhD, 1994); currently: Computer Analyst
- 2008 - 2013 9. Zhe Zhang (PhD, 2002); currently: Jiangsu Specially Appointed Professor, Anesthesiology Department, XuZhou Medical University, XuZhou, China
- 2010 – 2011 10. Hailong An (PhD, 2005); Post-doctoral fellow; currently: Associate Professor School of Sciences, Hebei University of Technology, Tianjin, China
- 2009 – 2010 11. Wu (Cathy) Deng, MD (PhD, 2009); currently: Resident in anesthesiology, BU School of Medicine
- 2008 – 2010 12. Aldo Rodriguez-Menchaca (PhD, 2008); currently: Assoc. Professor at University of San Luis, Mexico
- 2008 – 2015 13. Meng Cui (PhD, 1999); Research Assistant Professor, VCU
- 2007-2009 14. Radda Rusinova, (Ph.D, 2007); currently: Research Assistant Prof., Weill Medical College, Cornell University, New York, NY
- 2006 – 2008 15. Zhang, Yu-yang (MD, 2004); currently: Medical Staff, University of Maryland St. Joseph Medical Center
- 2001 – 2008 16. Rosenhouse-Dantsker, Avia (PhD, 1991); currently: Research Assistant Professor, University of Illinois
- 2003 – 2007 17. Zhao, Qi (PhD, 2003); currently: Patent Attorney, Washington DC
- 2002 - 2006 18. Shen, Albert (PhD, 2000); currently: Statistician
- 2003 - 2006 19. Jin, Taihao (PhD, 2003); currently: Research Scientist, City of Hope Medical Center, Duarte, CA.
- 2000 – 2004 20. Lopes, Coeli (PhD, 1996); currently: Associate Professor, University of Rochester Medical Center, Rochester, NY
- 1999 – 2002 21. Peng, Luying (PhD, 1997); currently: Director of Genetics, Tongji University, Shanghai, China
- 1998 – 2005 22. Rohacs, Tibor (PhD, 1997); currently: Professor of Pharmacology, Physiology and Neuroscience, UMDNJ, Rutgers Univ., Newark, NJ
- 1998 – 2001 23. Yan, Xixin (MD, 1988); currently: Chair of Pulmonary Medicine, Shijiazhuang, China
- 1997 – 2004 24. Mirshahi, Tooraj (PhD, 1997); currently: Staff Scientist, Weis Research Ctr Geisinger Clinic, Danville, PA
- 1997 – 2001 25. Zhang, Hailin (PhD, 1995); currently: Professor and Chair of Pharmacology, Vice President, Hebei

- 1997 – 1999 26. He, Cheng (PhD, 1995); currently: Professor and Chair of Neurobiology, Second Military Medical University, Shanghai, China
- 1997 – 2000 27. Kobrinsky, Evgeny (PhD, 1998); currently: Staff Scientist, NIH, Bethesda, MD
- 1997 – 2000 28. Petit-Jacques, Jerome (PhD, 1992); currently: Middle School Science Teacher, Brooklyn, NY
- 1996 – 2001 29. Langan, Marie-Noelle (MD, 1984); currently: Clinical Electrophysiologist, Mount Sinai Hosp., New York, NY
- 1993 – 1997 30. Sui, Jin-Liang (MD/PhD, 1993);
2004 – 2007 currently: Senior Scientist at CFRx Lab LLC, Charlestown, MA
- 1993 – 1996 31. Chan, Kim (PhD, 1993); currently: Scientist, University of Technology, Hong Kong, China
- 1992 – 1993 32. Gross, Gil (MD, 1985); currently: Associate Professor, Hospital for Sick Children, Toronto, Canada

Present Pre-doctoral Students:

- 2014- 1. Amr Ellaithy, MD (VCU PhD Candidate), 4th year, finishing at NEU
- 2014- 2. Guoqing Xiang (VCU PhD Candidate), 4th year, finishing at NEU
- 2016- 3. Tyler Hendon (VCU PhD Candidate), 5th year, finishing at NEU
- 2016- 4. Miao Huang (VCU PhD Candidate), 4th year, finishing at NEU

Past Pre-doctoral Students:

- 2012 - 2017 1. Junghoon Ha (MD/PhD Candidate); currently: M3 year, VCU
- 2011 – 2016 2. Candice Hatcher (PhD, 2016); Postdoctoral Fellow (NIDA, NIH)
- 2011 - 2016 3. Jason Younkin (PhD, 2016); currently: Virginia State University, Lecturer
- 2009 - 2013 4. Scott Adney (MD/PhD, 2015); currently: Neurology Resident Year 3, Northwestern University, Chicago, IL.
- 2006 – 2012 5. Vasileios Petrou (PhD 2012); currently: Postdoctoral Fellow, Columbia University with Filippo Mancina, New York, NY
- 2008 – 2012 6. Rahul Mahajan (MD/PhD, 2014); currently: Neurology Resident Year 4, Massachusetts General Hospital, Harvard Medical School.
- 2007 - 2011 7. Miguel Fribourg (PhD, 2011), currently: Research Assistant Prof. with S. Sealton, MSSM, NY, NY

- 2004 - 2010 8. Lupyan, Dmitry (PhD 2010 / co-mentored with Dr. Roman Osman); currently: Shroedinger, Inc. MSSM, New York, NY
- 2002 - 2006 9. Keselman, Inna (MD/PhD, 2008); currently: Neurologist, UC Davis, CA.
- 2001 - 2006 10. Angelopoulos, Spiros (PhD, 2006 / co-mentored with Dr. Roberto Sanchez); Diseased (2008)
- 2000 – 2006 11. Rusinova, Radda (PhD, 2006); currently: Res. Assistant Prof., Weill SOM, Cornell with Olaf Andersen
- 2003 – 2005 12. Woolard-Pickens, Patrisha (PhD, 2005 / co-mentored after David Coleman relocated to McGill); currently: Pediatrician in Brooklyn NY and Mount Sinai School of Medicine, New York, NY
- 2000 – 2003 13. Craciun, Liviu, MD (PhD, 2004); currently: Neurologist, New Jersey
- 1999 – 2004 14. Michailidis, Ioannis (PhD, 2004); currently: Postdoctoral Fellow with Jian Yang, Columbia University, NY, NY
- 1999 – 2003 15. Jin, Taihao (PhD, 2003); currently: Research Scientist, City of Hope Medical Center, Duarte, CA
- 1994 – 1997 16. Kozak, Julius Ashot (PhD, 1998); currently: Associate Professor, Wright University, OH
- 1990 – 1993 17. Welsh, David (MD/PhD, 1995); currently: Associate Professor, University of California, San Diego, CA
- 1990 – 1992 18. Kammen, Bamidele Fayemi (MD, 1994); currently: Radiologist, Oakland, CA

Masters Students:

Present:

- 2017 - 1. Kshamita Subhedar (MS-2 candidate, Pharmaceutical Sciences, NEU)
- 2017 - 2. Yuchen Yang (MS-2 candidate, Pharmaceutical Sciences, NEU)

Past:

- 2014 – 2015 1. Sneha Shah (currently: Medical Student, VA Polytechnic Institute)
- 2012 – 2013 2. Chulho Yang (currently: Medical School Candidate)
- 2010 – 2011 3. Gyu Park (currently: Endodontics Resident at New York University, New York, NY)
- 2008 - 2009 4. Junghoon Ha (currently: MD/PhD student in M3 year at VCU)

Visiting Scientists:

- 2017-2018 Domna Karagogeos, Ph.D., Professor of Molecular Biology/Developmental Neurobiology, University of Crete Medical School, Greece (NEU)
- 2016 Kyriaki Sidiropoulou, Ph.D., Assistant Professor, University of Crete, Department of Biology, 6-week visit (VCU)
- 2012-2013 George Liapakis, Ph.D., Associate Professor of

| | |
|-----------|---|
| | Pharmacology, University of Crete Medical School, Sabbatical year (VCU) |
| 2011-2012 | Linda Boland, Ph.D., Associate Professor and Chair of Biology, U. of Richmond, VA, Sabbatical semester (VCU) |
| 2002-2003 | Ray Ochs, Ph.D., Visiting Professor, St. John's U., Jamaica, New York, Sabbatical year (MSSM) |
| 1995-1996 | Michel Vivaudou, Ph.D., Visiting Professor, CEA, DBMS, Biophysique Moleculaire et Cellulaire, CNRS Grenoble, France, Sabbatical year (MSSM) |

Ph.D. Student Advisory and Oral Preliminary Examination Committees:

| | |
|-----------|--|
| 2017- | 1. Charles Perry (Booth Lab, NEU) |
| 2014- | 2. Vishaka Santosh (Escalante Lab, VCU) |
| 2014- | 3. Iwona Ruchala (De Felice/Eltit Lab, VCU) |
| 2014- | 4. William D. Marks (Houser Lab, VCU) |
| 2013- | 5. Vinay Idikuda (Zhou Laboratory, VCU) |
| 2013- | 6. Tyler Steele (DeFelice/Eltit, VCU) |
| 2015-2016 | 7. Urjita Shah (Glennon Laboratory, VCU) |
| 2014-2016 | 8. Varsha Ananthapadmanabhan (MS, Litovchick Lab, VCU) |
| 2013-2016 | 9. Supriya Gaitonde (Glennon Laboratory, VCU) |
| 2013-2015 | 10. Laura O'Brien (Bennett Laboratory, VCU) |
| 2013-2015 | 11. Joy Ngwainmbi (Akbarali Laboratory, VCU) |
| 2013-2015 | 12. Krasnodara Cameron (De Felice, VCU) |
| 2011-2015 | 13. Annamarie Carter Dalton (Barton Laboratory, VCU) |
| 2010-2014 | 14. Aaron Randolph (Ramsey Laboratory, VCU) |
| 2012-2013 | 15. Shannon Harding (Bennett/Taylor Laboratories, VCU) |
| 2006-2012 | 16. Justin Costa (Basil Hanss Laboratory, MSSM) |
| 2011-2012 | 17. Justin Elenewski (John Hackett Laboratory, VCU) |
| 2009-2011 | 18. Crystal West (Shyama Masilamani Laboratory, VCU) |
| 2008-2010 | 19. Sherry Pinkstaff (Ross Arena Laboratory, VCU) |
| 2006-2008 | 20. Tony Flores (Diverse Laboratory, MSSM) |
| 2004-2007 | 21. Tao Ma (Blitzer Laboratory, MSSM) |
| 2004-2008 | 22. Elvera Baron (Max/Osman Laboratories, MSSM) |
| 2003-2004 | 23. Xiaochu Zhang (First Year Student, MSSM) |
| 2002-2003 | 24. Cheryl Tan (Gelb Laboratory, MSSM) |
| 2001-2005 | 25. Ailan Lu (Hirsch Laboratory, MSSM) |
| 2001-2004 | 26. Eugene Tombler (Diverse Laboratory, MSSM) |
| 2000-2001 | 27. Ilona Gurevich (Schmauss Laboratory, MSSM) |
| 2000-2001 | 28. Tatyana Gindin (Osman Laboratory, MSSM) |
| 2000-2001 | 29. Monica Bhanot (Wang Laboratory, MSSM) |
| 2000-2001 | 30. Panayiotis Tsokas (Landau Laboratory, MSSM) |
| 1999-2001 | 31. Brian Bloom (Bancroft Laboratory, MSSM) |
| 1998-1999 | 32. Maya Srinivas (Forrest Laboratory, MSSM) |
| 1997-2002 | 33. Joshua Rappoport (Abramson Laboratory, MSSM) |
| 1997-2001 | 34. Montserrat Batle (Hirsch Laboratory, MSSM) |

| | |
|-----------|--|
| 1997-2003 | 35. Cristian Perez (Margolskee Laboratory, MSSM) |
| 1997-1998 | 36. Peter Morgan (Weiss Laboratory, MSSM) |
| 1996-1998 | 37. Avniel Klein (Weiss Laboratory, MSSM) |
| 1996-2001 | 38. Michael Ross (Klottman Laboratory, MSSM) |
| 1996-1997 | 39. Elizabeth Buck (Iyengar Laboratory, MSSM) |
| 1995-1998 | 40. Frank Chuang (Sassaroli Laboratory, MSSM) |
| 1994-1997 | 41. Xiaohuai Chen (Bancroft Laboratory, MSSM) |
| 1994-1998 | 42. Desiree Pardi (Margiotta Laboratory, MSSM) |
| 1994-1997 | 43. Liangxue Zhu (Thornhill Laboratory, MSSM) |
| 1994-1997 | 44. Edward Rachofsky (Ross Laboratory, MSSM) |
| 1994-1997 | 45. Phil Mulieri (Krauss Laboratory, MSSM) |

Ph.D. Student Thesis Examination Committees:

| | |
|------|---|
| 2015 | 1. Krasnodara Cameron (Louis De Felice Lab, VCU) |
| 2014 | 2. Aaron Randolph (I. Scott Ramsey Laboratory, VCU) |
| 2014 | 3. Dac Ahn, (Basil Hanss Laboratory, MSSM) |
| 2012 | 4. Crystal West (Shyama Masilamani Laboratory, VCU) |
| 2012 | 5. Justin Costa (Basil Hanss Laboratory, MSSM) |
| 2011 | 6. Justin Elenewski (John Hackett Laboratory, VCU) |
| 2010 | 7. Sherry Pinkstaff (Ross Arena Laboratory, VCU) |
| 2007 | 8. Keri Fogle (Garrett Tibbs Lab, Columbia U., NY) |
| 2006 | 9. Philip Pian (S. Siegelbaum Lab, Columbia U, NY) |
| 2006 | 10. Vishwanatha Jogini (Benoit Roux Laboratory, Cornell U Medical School) |
| 2005 | 11. Panayiotis Tsokas (Robert Blitzler/Emmanuel Landau Laboratory, MSSM) |
| 2004 | 12. Amit Dhamoon (Jose Jalife Lab, Syracuse U, NY Medical School) |
| 2004 | 13. Christov Roberson (David Clapham Laboratory, Harvard) |
| 2004 | 14. Ailan Lu (Jeanne Hirsch Laboratory, MSSM) |
| 2003 | 15. Yi Lee (Jian Yang Laboratory, Columbia University Medicine) |
| 2001 | 16. Montserrat Batle (Jeanne Hirsch Laboratory, MSSM) |
| 1999 | 17. Yi Ri (Bargiello Laboratory, Albert Einstein School of) |
| 1998 | 18. Desiree Pardi (Joseph Margiotta Laboratory, MSSM) |
| 1997 | 19. Makiko Fliss (Carter Bancroft Laboratory, MSSM) |
| 1997 | 20. Andres Couve (Jeanne Hirsch Laboratory, MSSM) |
| 1996 | 21. Jianqiang Chen (Ravi Iyengar laboratory, MSSM) |
| 1995 | 22. Rabin Nouranifar (Emmanuel Landau Laboratory, MSSM) |

Laboratory Rotation PhD Students:

| | |
|------|--|
| 2016 | 1. Miao Huang (Ph.D. student, Chemical Biology, VCU) |
| 2016 | 2. Tyler Hendon (Ph.D. student, VCU) |
| 2016 | 3. Nicole Ekanem (PhD student, VCU) |
| 2015 | 4. Jefferson Overlin (MD/PhD student, VCU) |
| 2014 | 5. Guoqing Xiang (PhD student, VCU) |
| 2013 | 6. Amr Ellaithy (PhD student, VCU) |
| 2013 | 7. Ryan Mischel (MD/PhD student, VCU) |
| 2012 | 8. William Marks (PhD student, VCU) |
| 2012 | 9. Leonid Reshko (MD/PhD student, VCU) |
| 2012 | 10. Sarah Kim (MD/PhD student, VCU) |

- 2011 11. Jason Younkin (PhD Logothetis Laboratory 2011-2016, VCU)
2011 12. Nick Russell (MD/PhD student, VCU)
2010 13. Candice Hatcher (PhD Logothetis Laboratory 2011-2016, VCU)
2009 14. Charles Anderson (PhD Grider Laboratory 2009-2011, VCU)
2009 15. Sayak Bhattacharya (PhD Karnam Laboratory 2010-2014, VCU)
2008 16. Scott Adney (MD/PhD Logothetis Laboratory 2009-2014, VCU)
2008 17. Rahul Mahajan (MD/PhD Logothetis Laboratory 2008-2013, VCU)
2007 18. Jason Cook (MD/PhD Ramirez laboratory 2009-, MSSM)
2007 19. Miguel Fribourg (Logothetis Laboratory 2007-2011, MSSM)
2006 20. Vasileios Petrou (Logothetis Laboratory 2006-2012, MSSM)
2006 21. Nikos Tzavaras (Blitzer Laboratory 2006-2012, MSSM)
2004 22. David Carpenter (Tang Laboratory 2005-2010, MSSM)
2004 23. Paul Rosenstiel (MD/PhD - M. Klotman Lab. 2005-2009, MSSM)
2004 24. Dmitry Lupyan (Logothetis/Osman laboratories, co-mentorship 2004-2010, MSSM)
2004 25. Elvera Baron (MD/PhD - Max Lab 2004-08, MSSM)
2003 26. Ioana Carcea (Benson Laboratory 2003-08, MSSM)
2003 27. Noura Abul-Husn (MD/PhD - Devi Lab 2004-07, MSSM)
2003 28. Spiros Angelopoulos (Logothetis/Sanchez laboratories, co-mentorship 2001-07, MSSM)
2002 29. Inna Keselman (MD/PhD - Logothetis Lab 2002-06, MSSM)
2001 30. David Mintz (MD/PhD - Benson Laboratory 2001-05, MSSM)
2001 31. Radda Rusinova (Logothetis Laboratory 2001-06, MSSM)
2000 32. Karishma Manzoor (Zhou Laboratory 1999-04, MSSM)
1999 33. Maya Srinivas (Forest Laboratory 1999-05, MSSM)
1999 34. Liviu Craciun (Logothetis Laboratory 1999-03, MSSM)
1999 35. Geo Serban (Robakis Laboratory 1999-05, MSSM)
1999 36. Panayiotis Tsokas (Landau Laboratory 1999-05, MSSM)
1998 37. Ioannis Michailidis (Logothetis Laboratory 1999-04, MSSM)
1997 38. Kelley Yan (MD/PhD - Zhou Laboratory 1999-04, MSSM)
1997 39. Cristian Perez (Margolskee Laboratory 1998-03, MSSM)
1997 40. Elizabeth Buck (Iyengar Laboratory 1997-01, MSSM)
1994 41. Smiljka Kitanovic (Sealfon laboratory 1995-99, MSSM)
1993 42. Ashot Kozak (Logothetis Laboratory 1994-97, MSSM)

Summer/Volunteer Undergraduate Students:

- | | | |
|-----------|-----|---|
| 2017- | 1. | Austin Baggetta (NEU, Sophomore, BS in Pharmaceutical Sciences) |
| 2017- | 2. | Yakun Fu (NEU, Sophomore, PharmD) |
| 2017- | 3. | Erin Lopez (NEU, Junior, BS in Behavioral Neuroscience) |
| 2017- | 4. | Meghan Masotti (NEU, Middler, BS in Behavioral Neuroscience) |
| 2017- | 5. | Nicole McFarlane (NEU, Sophomore, BS in Health Sciences, Premed) |
| 2017- | 6. | Alison Miller (NEU, Sophomore, BS in Pharmaceutical Sciences) |
| 2015-2016 | 7. | Shiva-Siddha Rings (VCU, Biology/Philosophy student) |
| 2015 | 8. | Maria Ghawji (Medical student, Alfaisal Univ. SOM, Saudi Arabia) |
| 2014-2015 | 9. | Ashkhan Hojati (VCU, BME student) |
| 2014 | 10. | Danae Manolakou (6 th year Med. Student, U of Athens, Greece) |
| 2014 | 11. | Agisilaos Balatsoukas (5 th yr. Med. Student, U. of Athens, Greece) |
| 2012-2014 | 12. | Thaison Nguyen (technician) |
| 2013 | 13. | Maria Lambadaris (SURP, U of Toronto M2 Med. Student) |
| 2013 | 14. | Anas Abdulkarim Abudan (Medical student, Alfaisal Univ. SOM) |
| 2013 | 15. | Yaser Sami Al-Hamshari (MD, 3 rd yr resident, Philadelphia) |
| 2013 | 16. | Katerina Spyridaki (PhD, U of Crete, Greece - Pharmacist) |
| 2013 | 17. | Gifty Ross (High School Student) |
| 2012 | 18. | Eleftherios Koulierakis (University of Athens, Graduate Student) |
| 2012 | 19. | Zoya Khokar (MD, Eastern Virginia Medical Sch.) |
| 2010 | 20. | Luke Gergoudis (MD, VCU) |
| 2010 | 21. | Brittany Shaw (Mary Baldwin College, STEP-UP Program) |
| 2010 | 22. | Gyu Park (Endodontics Resident, NYU) |
| 2010 | 23. | Mohleen Kang (MD, VCU) |
| 2009 | 24. | Kunal Kapoor (VCU Undergrad, HHMI Summer Program) |
| 2009 | 25. | Alexandra Hayes (William and Mary, Senior) |
| 2009 | 26. | Adishesh Narahari (MD/PhD student at UVa) |
| 2009 | 27. | Kiara Williams (MSIP Summer Intern Program) |
| 2007 | 28. | Stanimir Rachev (Columbia University, SURP) |
| 2007 | 29. | Edith Schussler (MD, MSSM) |
| 2007 | 30. | Jacqueline Trogan (New York University, Premedical student) |
| 2006 | 31. | Necrisha Roach (MD, Resident) |
| 2005 | 32. | Jason Cook (MD/PhD, MSSM) |
| 2005 | 33. | Kirstine Calloe (Scientist, University of Copenhagen, Panum Institute, Denmark) |
| 2004 | 34. | Victor Lukacs (Postdoc at UCSF) |
| 2004-05 | 35. | Ajay Prakash (Columbia University; SURP – MD/PhD student University of Pennsylvania) |
| 2003 | 36. | Katie Crawford (Summer before freshman year to Swathmore College) |
| 2002 | 37. | Marlene Moskowitz (Cornell U, Ithaca ; SURP) |
| 2002 | 38. | Jianhong Li (Postdoctoral trainee, Second Medical Military University, Shanghai, China) |
| 2002 | 39. | Zoltan Molnar (MD/PhD student at Semmelweis University, Budapest, Hungary) |
| 2002 | 40. | Matthew Hopperstad (Psychiatry Resident - Mount Sinai School of Medicine) |
| 2000 | 41. | Robert Xia (Bronx High School – Massachusetts Institute of Technology) |
| 2000 | 42. | Pavan Ramdya (Drew College) – (PhD, Harvard University, Assistant Professor Lausanne, SW) |
| 1997 | 43. | Samantha Acunto (Riverdale Country School – Cornell U) |

- 1999-00 44. Jason Pruzansky (MD, MSSM – Orthopedic surgeon, New York)
 1998-99 45. Mike Kalogiannis (PhD, MBA, CMPP, Pfizer)
 1995-96 46. Pauline Papavassiliou (Bronx HS, William and Mary College, VCU/MCV-MD/PhD – Pathologist Northside Hospital Forsyth, Durham, NC)
 1995-96 47. Peter Rose (UT Houston, Johns Hopkins School of Medicine, Orthopedic Surgeon, Mayo Clinic, Rochester, MN)
 1994-95 48. Mahul Shah (Stuyversant High – University of Pennsylvania)

EXTRAMURAL PRESENTATIONS

Local:

- 2017 (September) Broad Institute, MIT, Channel Therapeutics group (Anna Greka)
 2017 (April) Northeastern University School of Pharmacy, Rho Chi Annual Lecture (PharmD students)
 2016 (December) Northeastern University, Department of Physics (Alain Karma)
 2015 (November) University of Richmond, Introduction to Research for Undergrads (John Warrick)
 2015 (October) VCU School of Medicine, Department of Microbiology/Immunology (Masoud Manjili)
 2013 (November) VCU School of Medicine, Dept. of Biochemistry (Charles Chalfant)
 2012 (September) VCU, Institute of Structural Biology and Drug Design (Glen Kellog)
 2011 (April) VCU, Women in Science, Dentistry and Medicine (WISDM), Academic career mentoring, Invited Speaker
 2010 (December) VCU School of Medicine, Dept. Pharmacology and Toxicology (Hamid Akbarali)
 2010 (March) VCU School of Pharmacy, Grad. Program (Student invitation)
 2009 (February) VCU School of Medicine, Department of Anatomy and Neurobiology (John Povlishock)
 2008 (September) VCU School of Medicine, Dept. of Biochemistry (Jessica Bell)
 2007 (October) City College New York, Department of Biochemistry (Thomas Haines)
 2007 (October) Cornell University - Weill Medical College, Department of Physiology and Biophysics (Harel Weinstein)
 2007 (March) Mount Sinai School of Medicine, Department of Medicine, Nephrology Division (Michael Lipkowitz)
 2006 (October) Bio-Med Society, Student Organization, Baruch College (Mary Zhitnikova)
 2006 (October) Columbia University, Department of Biology, Neurolunch series, New York (Jian Yang)
 2005 (April) Mount Sinai, NY, Office of Postdoctoral Affairs, Panel on career advice (Sandra Masur)
 2004 (July) New York University School of Medicine, Department of Cardiology (Bill Coetzee)

- 2004 (February) New York Medical College on Graduate School Education (Frances Belloni)
- 2002 (October) Mount Sinai School of Medicine, Dean's Lecture Series, New York (Dean's committee)
- 2002 (September) Mount Sinai School of Medicine, Molecular Cell & Developmental Biology (Paul Wassarman)
- 2002 (June) S.U.N.Y. Stony Brook, Dept. of Physiology and Biophysics (Suzanne Scarlata)
- 2002 (May) Einstein Medical College, Department of Cardiology (Thomas MacDonald)
- 2002 (February) Columbia University School of Medicine, Dept. of Pharmacology (Robert Kass)
- 2001 (April) New York University, Washington Square Campus, Dept. of Biology (Todd Holmes)

Regional:

- 2017 (April) Weill Cornell School of Medicine, Physiology & Biophysics (Radda Rusinova)
- 2017 (February) NIDA Intramural Program, Molecular Targets and Medications Discovery Branch, Integrative Neurobiology Section (Sergi Ferre)
- 2016 (July) Gordon Research Conference on Ion Channels, Mount Holyoke College, MA (Emily Liman)
- 2016 (March) Montana State University, Dept. Cell Biology and Neuroscience (Susy Kohout)
- 2015 (March) Northeastern University, Dept. Pharmaceutical Sciences, (Ray Booth)
- 2014 (September) Tufts U School of Medicine, Molecular Cardiology Research Institute, 16th annual retreat Distinguished speaker (Jonas Galper)
- 2014 (September) Northeastern University, Ctr for Drug Discovery, Boston (Ray Booth)
- 2014 (February) University of Central Florida, Burnett School of Biomedical Sciences (BSBS), College of Medicine (Srch Committee for Director of BSBS)
- 2013 (October) University of Illinois in Chicago, Dept. of Physiology (John Solaro)
- 2013 (March) Indiana University Sch. of Medicine, Stark Neuroscience Research Institute, Indianapolis, Indiana (Fletcher White)
- 2013 (February) The Biophysical Society, Membrane Biophysics Subgroup, Speaker, Chair and Organizer of 2013 symposium
- 2012 (June) Gordon Research Conference, Phosphorylation and G protein mediated signaling networks, U of New England, ME (John Tesmer)
- 2012 (May) Harvard Medical School, Children's Hospital, Boston (Speaker and Organizer of Symposium in honor of David Clapham)
- 2012 (January) University of Pennsylvania, Department of Physiology (Toshi Hoshi)
- 2011 (November) New York Structural Biology Ctr, New York, NY (Wayne Hendrickson)
- 2011 (November) American Society of Nephrology, Protein Lipid Interactions in Cell Physiology, Philadelphia, PA (Jeff Schelling)

- 2011 (November) University of Connecticut, Storrs Campus, Storrs, CT
(Anastasios Tsingounis)
- 2011 (October) University of Michigan, Department of Pharmacology, Ann Arbor, MI (Georgios Skiniotis)
- 2011 (April) New York Structural Biology Center, City College, New York, NY (David Stokes)
- 2011 (February) Columbia University Medical Center, Department of Physiology and Cellular Biophysics, New York, NY (Ming Zhou)
- 2011 (January) University of Cincinnati College of Medicine, Department of Pharmacology and Cellular Biophysics, OH (Litsa Kranias)
- 2010 (December) Global Hellenic Medical and Biosciences Network, New York, NY Lenox Hospital, (invited speaker)
- 2010 (April) Washington University, Dept. Anesthesiology, St. Louis, MO (Chris Lingle)
- 2010 (February) Wright State University, Dept. of Neuroscience, Cell Biology and Physiology, Dayton, OH (Ashot Kozak)
- 2009 (October) Hellenic Biosciences Association (Invited Speaker at Multidisciplinary workshop, Boston, MA. (Thomas Thomou)
- 2009 (July) 36th International Congress of Physiological Sciences, Speaker on Regular Symposium: Current Advances in G protein and lipid modulation of ion channels, Kyoto, Japan (organizer: Paul Slesinger)
- 2009 (April) ASPET's Division of Molecular Pharmacology, Meeting on G-Protein Targets, Featured Presentation, New Orleans, LA (Alan Smrcka)
- 2008 (December) U of Rochester, Aab Cardiovascular Institute (Coeli Lopes)
- 2008 (April) Experimental Biol. Meeting, APS Cell & Molecular Physiology, Featured Presentation, San Diego, CA. (He-Ping Ma)
- 2008 (February) The Biophysical Society, Invited Speaker on subgroup Symposium (Eitan Reuneny)
- 2007 (October) University of Medicine and Dentistry of New Jersey, Department of Physiology (Tibor Rohacs)
- 2007 (May) Solmap Pharmaceuticals, Cambridge, Massachusetts (Frank Guarnieri)
- 2007 (April) University of Oklahoma, Dept. Cell Biology, Biochem. and Molecular Biology (Leonidas Tsiokas)
- 2007 (March) The Biophysical Society, Invited Speaker on Symposium organized by the J. Physiol (Mark Shapiro)
- 2005 (December) McGill University, Montreal Neurological Institute, Canada (Phillippe Sequela)
- 2005 (October) 4th Annual Ion Channel Drug Targets, Seattle, WA
- 2005 (June) FASEB Summer Res. Conference on "Ion Channel Regulation", Snowmass, CO. (Organizer)
- 2005 (March) Case Western Reserve University, Pharmacology

- (Toni Scarpa)
- 2004 (December) University of Pennsylvania, Institute for Medicine and Engineering (Irena Levitan)
- 2004 (November) University of Texas, Health Science Center, San Antonio, Dept. of Physiology (Mark Shapiro)
- 2004 (October) University of Medicine and Dentistry at NJ, Dept. Pharmacology and Physiology (Martha Nowicky)
- 2004 (September) Society of General Physiologists, Invited Speaker in Lipid Signaling Symposium (Don Hilgemann)
- 2004 (June) New Jersey Medical School, UMDNJ on Graduate School Education (Nick Ingoglia)
- 2004 (February) Biophysical Society 48th Annual Meeting, Invited Symposium Speaker, Baltimore (Don Hilgemann)
- 2004 (January) Case Western Reserve University, Physiology and Biophysics (Kim W. Chan)
- 2003 (December) Oregon Health & Science University, Physiology & Pharmacology (Show-Ling Shyng)
- 2003 (November) American Heart Association, Scientific Sessions 2003 (Awardees Presentations)
- 2003 (October) University of Virginia, Department of Pharmacology (Douglas Bayliss)
- 2003 (October) Jefferson Medical College, Department of Physiology, Institute of Hyperexcitability (Dick Horn)
- 2003 (September) University of Rochester School of Medicine and Dentistry, Physiology (Alan Smrcka)
- 2003 (June) FASEB Conference, Invited Speaker, Tucson (David Armstrong and Sandy Rossie)
- 2003 (January) Keystone Symposia, Invited Speaker in Cardiac Arrhythmias Conference, New Mexico (A. Marks).
- 2002 (October) Weis Center for Research, Penn State College of Medicine, Danville, PA (Catherine Berlot)
- 2002 (April) University of Illinois, Department of Pharmacology (Shigehiro Nakajima)
- 2001 (December) Yale School of Medicine, Department of Physiology, New Haven, CT. (Fred Sigworth)
- 2001 (May) NASPE (Invited Speaker), Boston MA. (Gordon Tomasseli)
- 2001 (April) Medical College of Ohio, Anatomy & Neuroscience, Toledo, OH (Joseph Margiotta)

International:

- 2017 (October) 5th International Bahcesehir University (BAU) Drug Design Congress, Istanbul, Turkey (Serdar Durdagi)
- 2017 (May) European Interreg Med Aristoil program, Athens Old Parliament (Prokopios Magiatis)
- 2015 (June) 3rd Hellenic Forum of Research and Innovation, Demokritos, Athens, Greece (Iro Georgoussi)
- 2015 (May) 37th Annual Meeting, Greek Society of Biological Sciences, Volos, Greece (Afroditi Lazou)
- 2015 (May) 4th WHBA Summer School, Itilo, Mani, Greece (S. Mantalaris, M. Dermitzakis)
- 2014 (October) University of Crete Medical School, Graduate Program on the Molecular Basis of Human Disease (Dimitris Kardassis)
- 2014 (May) 32nd CNC Symposium on Trends in Drug Research (Cyprus, invited speaker)
- 2014 (May) 3rd WHBA Summer School, Itilo, Mani, Greece (Costas Drosatos)
- 2014 (January) University of Crete, Heraklion, Sch. of Medicine, Honorary degree recipient (Andrew Margioris)
- 2014 (January) University of Athens, Department of Pharmacognosy and Chemistry of Natural Products, School of Pharmacy (Leandros Skaltsounis)
- 2013 (June) The 4th International Ion Channel Conference, Shijiazhuang, China
- 2013 (June) Hebei U of Technology, Institute for Biophysics, Tianjin, China (Hailong An)
- 2013 (May) 2nd WHBA Summer School, Monemvasia, Greece (Costas Drosatos)
- 2013 (May) National Ctr for Scientific Research, Demokritos, Athens, Greece (Zafiroula – Iro Georgoussi)
- 2013 (February) Symposium on Translational Medicine, University of Ioannina, Ioannina, Greece (co-organizer with Dr. Dimitrios Boumpas)
- 2013 (February) University of Athens Chemistry Department, Athens, Greece (Thomas Mavromoustakos)
- 2012 (May) 1st World Hellenic Biosciences Association, Summer School, Itilo, Mani (Costas Drosatos)
- 2011 (May) Seventh Aegean Meeting on Neurologic Therapeutics, Heraklion, Crete, Greece (invited speaker, Andreas Plaitakis)
- 2011 (May) Aristotle University of Thessaloniki, Study Group of Medical Justice and Bioethics and Department of Ethics and Sociology, Thessaloniki, Greece (Ioannis Petrou)
- 2011 (May) Aristotle University of Thessaloniki, School of Pharmacy and Department of Biology, Thessaloniki, Greece (Christos Panagiotidis)
- 2011 (May) International School of Biophysics, Erice, Sicily, Italy (invited Speaker – Louis De Felice)
- 2010 (October) University of Crete Medical School, Program of Graduate Studies in the Neurosciences (Andreas Plaitakis)

- 2009 (November) University of Crete Medical School, Dept. Medicine, Division Basic Sciences, Heraklion, Crete, Greece (Dimitris Kardassis)
- 2008 (October) University of Crete School of Medicine, Program in Neurosciences (Andreas Plaitakis)
- 2007 (February) University of Leuven, Department of Pharmacology, Belgium (Mathieu Bollen)
- 2007 (February) University of Freiburg, Department of Physiology, Germany (Bernd Fakler)
- 2006 (September) Institut de Pharmacologie: CNRS, Sophia Anapolis, France (Eric Honore and Michel Lazdunski)
- 2006 (May) University of Leuven, Department of Molecular Cell Biology, Belgium (Bernd Nilius)
- 2006 (May) The Royal Danish Academy of Sciences, Copenhagen, Denmark (Søren-Peter Olesen)
- 2005 (November) International workshop on ionic channels, Colima, Mexico (José Sanchez Chapula)
- 2005 (September) University College London, Pharmacology, UK (David Brown)
- 2005 (September) Ion Channels in Smooth Muscle Conference, University of Oxford, UK (David Beech & Tom Bolton)
- 2003 (March) Neural Signalplexes and Ion Channel Regulation, Okazaki, Aichi, Japan (Keiji Imoto)
- 2002 (September) University of Lyon, Invited speaker in "Ion Channel Conference", France (Michel Vivaudou)
- 2002 (July) University of Thessaloniki, Department of Biochemistry, Greece (Margarita Hadzopoulou-Cladaras)
- 2002 (June) University of Athens, Department of Biology, Athens, Greece (Spiros Efthimiopoulos)
- 2002 (June) University of Crete, Department of Cardiology, Crete, Greece (Panos Vardas)
- 2002 (March) Chinese Academy of Science, Institute of Neuroscience, Shanghai, China (Zhuan Zhou)
- 2002 (March) Hebei Medical University, Shijiazhuang, China (Hailin Zhang)
- 2001 (November) Second Military Medical University, Shanghai, China (Cheng He)
- 2001 (November) Hebei Medical University, Shijiazhuang, China (Hailin Zhang)
- 2001 (August) Gordon Conference on G proteins (Invited Speaker), Oxford, England (Dafna Bar-Sagi)
- 2001 (August) University College, London, Center for Clinical Pharmacology and Therapeutics (Lucie Clapp)
- 2001 (July) Second Military Medical U, Shanghai, China (Cheng He)

TEACHING, ADVISING AND MENTORING

Teaching experience:

NEU

- 2016- Directed Study: Pharmaceutical Sciences Seminar Series (PHSC 5976), PhD students, 1SH
- 2016- Special Topics in Pharmaceutical Sciences (PHSC 6314), PhD students, 2SH
- 2016- Doctoral Student Research Updates (PHSC 6810), PhD stud., 1SH
- 2017- Introduction to Health Science Research (PHSC 2650), 4SH course to Health Sciences Undergraduates taught both Fall and Spring semesters
- 2017- PHSC 6212: Research Skills and Ethics (1SH)
- 2017- Special Topic: Discussion cases of ethics in Health Sciences Research (2SH/3SH)

VCU/U. Crete

- 2007 - Molecular Medicine Masters Program, University of Crete, Greece, (Lecturer, 7.5 hours, Fall)
- 2014 - 2016 Physiology 301: Engaging in Undergraduate Research (Course Director, Spring)
- 2014 - 2015 Cellular Signaling (IBMS 635, lecturer, 2 lectures, 1 Journal Club, Spring – alternate even years)
- 2012 - 2016 Physiology 606: Cell, Molecular and Systems Physiology (Course co-director, Lecturer, Spring)
- 2010 -2014 Physiology 512: ECG and Mechanisms of Disease (Course co- director, Lecturer, Spring)
- 2008 - 2016 Physiology 604: Cell, Molecular and Systems Physiology (Course co-director, Fall)
- 2008 - 2013 Physiology 612 – Cardiovascular Physiology (Lecturer, 2 lectures, Spring – alternate even years)
- 2008 - 2016 Neurosciences 609: Cellular and Molecular Neuroscience (Lecturer, 7 lectures, Fall)
- 2009 - 2015 Physiology 620: Ion Channels in Membranes (Lecturer, 5 lectures, Spring)
- 2009 - 2016 OVPR 610: Scientific Integrity (Case Facilitator, Fall)
- 2008 - 2014 Physiology 691-801: Physiology Research Seminar (Course co- director, Lecturer, Fall)
- 2008 - 2011 MEDI 117 – Medical Physiology Course (Lecturer, 4 lectures, Spring)

MSSM

- 2005 - 2006 Responsible Conduct in Research (Course Director, Lecturer)
- 2005- 2006 Methods in the Biomedical Sciences (Course Director)
- 2004 -2007 BSBB Core III Course (Lecturer, 2 lectures on Ion Channel Biophysics)

| | |
|-------------|--|
| 2004 - 2005 | Cell Biology – Core II (Lecturer, 5-7 lectures) |
| 2003 - 2005 | Medical Physiology Course (Lecturer, 3 lectures on cardiac excitability) |
| 2003 – 2004 | Intro to Journal Club (Course Director) |
| 2003 – 2004 | Meet the Authors Seminars (Course Director) |
| 2001 – 2004 | Principles of Neurobiology I (Lecturer) |
| 2001 – 2003 | Medical Physiology (Course Director) A required course for first year medical students covering organ systems (Autonomic Nervous, Cardiovascular, Respiratory, Gastrointestinal, Renal, Reproductive and Endocrine). The course involved 106 students, 28 faculty and 7 teaching assistants. New initiatives incorporated: Laboratories in cardiovascular and respiratory physiology, organization of the endocrine block of the course, power point presentations with corresponding handouts for note taking for <u>all</u> lectures, Web based organization of all aspects of the course, including detailed on line evaluations. |
| 2001- 2003 | Molecules and Cells Course (Lecturer) Seven lectures on Membrane Ion Transport and Cellular Excitability. |
| 2000 -2003 | Cell Physiology for Medical Students (Component Director) in Molecules & Cells Block. |
| 1999-2004 | Cell Biology – Core II (Course director) A required course for first year graduate students covering cell membranes and membrane proteins, electrical and chemical signaling via membrane proteins, intracellular compartments, protein sorting and vesicular traffic, cytoplasmic signaling, cytoskeleton, cell-matrix interactions, cell cycle, fertilization, development, differentiation, cancer, apoptosis and immunology, MSSM. |
| 1997-1998 | Lecturer (Lecture on Membrane Delimited Signaling), Albert Einstein School of Medicine, Neuroscience Course, (Course Director: Thadeus Bargiello). |
| 1996-1998 | Medical Sciences and Technology Program, Physiology Journal Club, MSSM |
| 1995 | Course Director of Ion Channels Graduate Level Course, (since 1998 co-directed course with Vladimir Brezina), MSSM |
| HMS | |
| 1994-2003 | Lab Co-director in Cardiovascular Pathophysiology (HST-090), Health Sciences & Techonology, MIT and HMS Joint Program. |
| 1993-2002 | Lecturer and Cardiovascular lab Director, first year physiology course, MSSM. |
| 1993-1995 | Cardiovascular lab director in Metabolism and Function Course (first year), HMS. |
| 1987-1993 | Lecturer, Conference leader, Tutorial leader in Metabolism and Function course at HMS |
| 1983-1993 | Organized and ran Physiology laboratories for first year medical students at HMS; Conference leader in Physiology course. |
| 1981-1983 | Assisted in preparation and teaching of |

Physiology laboratories at HMS.

NEU
1981

Teaching Assistant, Department of Psychology,
Northeastern University, introduction to Psychology for
undergraduates.

SERVICE ACTIVITIES

SERVICE TO THE PROFESSION:

Grant Reviewer

- 2017 NIH, Experimental and Bioinformatic approaches in the Druggable Genome, Special Emphasis Panel/Scientific Review Group, ZRG1 GGG-D (50), June.
- 2014 Human Brain Project, Review Panel Member, European Union, London, UK
- 2010 - 2014 National Institutes of Health, NHLBI, Regular member and co-chair of Electrical Signaling, Ion Transport, and Arrhythmias Study Section
- 2005- 2009 National Institutes of Health/General Medicine (Permanent member – Training Grants BRT-B and BRT-A study sections)
- 2004 National Institutes of Health/ Biophysics of Synapses, Channels and Transporters (BSCT) Study Section (Ad hoc member)
- 2000- Welcome Trust Foundation, UK
- 1998 – 2000 National Science Foundation, Neuronal and Glial Mechanisms Ad hoc member)
- 1993- Israel Science Foundation
- 1994 -2010 Northeast American Heart Association (regular member, Vice Chair in 2002-2004)
- 1993- 2010 National Institutes of Health/National Heart, Lung and Blood Institute (Ad hoc member)

Journal Reviewer

Editorial Board

Member

- 2007 - European J. of Physiology (Pflugers Archives);
2007 - Journal "Channels"
2015 - Journal of Biological Chemistry

Executive Editor

- 2007 European Journal of Physiology, Pflugers Archives
Special Issue on "Regulation of Ion Channels by Phosphoinositides"
2016 Cellular Physiology and Biochemistry
Special Issue on "Physiological Mechanisms: 30 years of
pursuit influenced by David Clapham"

Reviewer (Ad hoc) Nature, Nature Cell Biology, Nature Neuroscience, Nature Chemical Biology, Nature Communications, Nature Protocols, Cell, Neuron, Molecular Cell, Science Signaling, Proceedings of

the National Academy of Science (USA), EMBO Journal, Molecular Pharmacology, PloS1, Journal of American Chemical Society, Journal of Cell Biology, Journal of General Physiology, Journal of Physiology (London), Biophysical Journal, Journal of Biological Chemistry, Journal of Neuroscience, Circulation Research

Consultant

1997 – 2001 CeNeS Pharmaceuticals, Inc.: Advisor on K⁺ channel blocker development project
 2015 - 2016 Altria - ALCS, Center for Research & Technology: Bitter taste assays

SERVICE TO UNIVERSITY:

NEU

2016-2017 Member of the Executive Committee of the School of Pharmacy
 2016- Member of Curriculum Committee of Undergraduate Programs in School of Pharmacy
 2017- Board member of University Cores Oversight Committee

VCU

2013-2015 Chair, Steering Committee of KL2 Scholars Program
 2009-2016 Assistant Director of MD/PhD Program
 2008-2016 Steering Committee Member of MD/PhD Program (VCU)
 2008-2016 Director of Xenopus Oocyte Core Facility
 2011 Search Committee for Neurosurgery Faculty
 2009 Search Committee Member for Chair of Internal Medicine 2009
 Search Committee Member for Director of the Institute for Structural Biology and Drug Design
 2009 Committee on School of Medicine Salary Policy (VCU)
 2008-2009 Chair of Graduate Programs Review Committee – Reviewed all Graduate and Certificate Programs in the School of Medicine and made recommendations for improvements to the Dean.

MSSM

2006 Oversight Committee for the planning of a Translational Research Building (MSSM)
 2005 Task Force charged by the Dean of Research to evaluate institutional needs of facilities in existing buildings
 2003-2006 Dean's Senior Management Committee
 2002-2007 Ad Hoc Member of Appointments and Promotions Committee
 2002-2007 Member of the selection committee for the Dean's

| | |
|-----------|--|
| | Seminar series |
| 2002-2003 | Special Awards and Grants Committee |
| 2001-2003 | Member of Executive Curriculum Committee (Medical School) |
| 2001 | Education Center Technology Committee |
| 2000-2001 | Member of the Graduate Student Recruitment Committee (International Students) |
| 1999-2000 | Member of the Advisory Committee to the Peptide Synthesis Core |
| 1999-2000 | Member of the Translational Facility Faculty Workgroup |
| 1999-2000 | Member of the Evaluation of Teaching for Medical Education |
| 1999-2000 | Member of the Year 1 Curriculum 2000 Committee for Medical Education |
| 1999-2007 | Member of the Faculty Disciplinary Tribunal Committee |
| 1999-2003 | Elected to Graduate School Executive Committee |
| 1998-2000 | Member of Search Committee for Chair of the Molecular Biology and Biochemistry Department |
| 1998 | Member of Advisory Committee to the Dean on Neuroscience Program at Mount Sinai |
| 1998 | Chair of Anatomy/Embryology/Physiology/Histology Curriculum Subcommittee |
| 1998 | Member of Curriculum 2000 Committee for Medical Education |
| 1998-2000 | Member of Shared Facilities Committee |
| 1995-2007 | Interviewer for the Biomedical Sciences Doctoral Program |
| 1994-2007 | Graduate School Curriculum Committee |
| 1995-2007 | Interviewer of incoming students for the Medical |
| 1994-2002 | Director of <i>Xenopus</i> Oocyte Core Facility |

SERVICE TO DEPARTMENT

NEU

| | |
|-----------|--|
| 2016-2017 | Chaired Department of Pharmaceutical Sciences |
| 2016-2017 | Directed Department of Pharmaceutical Sciences Seminar Series |
| 2016-2017 | Organized and ran biweekly Pharmaceutical Sciences Faculty presentations of new and exciting data |
| 2016- | Chair of the Graduate Committee and director of the Graduate Program in Pharmaceutical Sciences |
| 2016- | Co-director of new direct entry BS in Pharmaceutical Sciences program |

VCU

2008-2016 Chair of Physiology and Biophysics
 2010-2012 Interim Director of Graduate Program in Physiology and Biophysics

MSSM

2002-2006 Member of Senior Faculty Leadership Committee
 2002-2007 Member of Departmental Appointments & Promotions Committee
 2002-2004 Chair of Departmental Seminar Committee
 1999-2000 Member of Search Committee for Integrative Physiology faculty positions
 1998-2001 Ad hoc member of Departmental Appointments & Promotions Committee
 1998-1999 Member of Instrumentation Committee
 1997-1999 Member of Departmental Seminar and Colloquia Committee
 1996-1999 Member of Senior Faculty Committee Advisory to the Chairman
 1995-1998 Co-Chairman of Instrumentation Committee
 1995-1997 Chair of Departmental Seminar Committee
 1993-1995 Member Departmental Brochure Committee
 1993-2007 Member of Medical Physiology Teaching Committee

PUBLICATIONS

Journals (102 original publications and 24 reviews; Google Scholar (GS) by 6/15/17 9980 citations, h-index: 47, i10-index: 88)

1. Logothetis DE. On the molecular regulation of the cardiac muscarinic K channel by the subunits of GTP binding proteins. Dissertation Harvard University 1987 (cited GS: 2 times).
2. Logothetis DE, Kurachi Y, Galper J, Neer EJ, and Clapham DE. The $G\beta\gamma$ subunits of GTP- binding proteins activate the muscarinic K^+ channel in heart. Nature 1987; **325**:321-326 (cited GS: 1093 times). Impact Factor: 36.280.
3. Logothetis DE, Kurachi Y, Galper J, Neer EJ, and Clapham DE. G protein opening of K^+ channels (Scientific Correspondence). Nature 1987; **327**:22 (cited GS: 9 times). Impact Factor: 36.280.
4. Logothetis DE, Kim D, Northup JK, Neer EJ, and Clapham DE. Specificity of the G protein subunits on the cardiac muscarinic K^+ channel. PNAS 1988; **85**:5814-5818 (cited GS: 154 times). Impact Factor: 10.5.
5. Clapham DE and Logothetis DE. Delayed rectifier potassium current in embryonic chick heart ventricle. Am J Physiol 1988; **254**:H192-H197 (cited GS: 38 times). Impact Factor: 3.878

6. Plummer MR, Logothetis DE, and Hess P. Elementary Properties and Pharmacological Sensitivities of Calcium Channels in Mammalian Peripheral Neurons. *Neuron* 1989; **4**:1453- 1463 (cited GS: **650** times). Impact Factor: 15.710
7. Koren G, Liman ER, Logothetis DE, Nadal-Ginard B, and Hess P. Gating mechanism of a cloned K⁺ channel expressed in frog oocytes and mammalian cells. *Neuron* 1990; **2**:39-51 (cited GS: **132** times). Impact Factor: 15.710
8. Boulos Z and Logothetis DE. Rats anticipate and discriminate between two daily feeding times. *Physiology & Behavior* 1990; **48**:523-529 (cited GS: **53** times). Impact Factor: 3.226
9. Logothetis DE, Movahedi S, Satler C, Lindpaintner K, and Nadal-Ginard B. Incremental reductions of positive charge within the S4 region of a voltage-gated K⁺ channel result in corresponding decreases in gating charge. *Neuron* 1992; **8**:531-540 (cited GS: **153** times). Impact Factor : 15.710
10. Logothetis DE, Kammen BF, Lindpaintner K, Bisbas D, and Nadal-Ginard B. Gating charge differences between two voltage-gated K⁺ channels are due to the specific charge content of their respective S4 regions. *Neuron* 1993; **10**:1121-1129 (cited GS: **58** times). Impact Factor: 15.710
11. Castle NA, Fadous S, Logothetis DE, and Wang GK. Aminopyridine block of Kv1.1 potassium channels expressed in mammalian cells and *Xenopus* oocytes. *Mol. Pharmacol.* 1994; **45**:1242-1252 (cited GS: **22** times). Impact Factor: 4.580
12. Castle NA, Fadous S, Logothetis DE, and Wang GK. 4-Aminopyridine binding and slow inactivation are mutually exclusive in rat Kv1.1 and Shaker potassium channels. *Mol. Pharmacol.* 1994; **46**:1175-1181 (cited GS: **31** times). Impact Factor: 4.580
13. Chen J, DeVivo M, Dingus J, Harry A, Li J, Sui J, Carty D, Blank JL, Exton J, Stoffel, RH, Inglese J, Lefkowitz RJ, Logothetis DE, Hildebrandt JD, and Iyengar R. A region of adenylyl cyclase 2 critical for regulation by G protein $\beta\gamma$ subunits. *Science* 1995; **268**:1166-1169 (cited GS: **263** times). Impact Factor: 32.452.
14. Welsh DK, Logothetis DE, Meister M, and Reppert SM. Individual neurons dissociated from rat suprachiasmatic nucleus express independently phased circadian firing rhythms. *Neuron* 1995; **14**:697-706 (cited GS: **1259** times). Impact Factor: 15.710
15. Chan KW, Langan MN, Sui J, Kozak JA, Pabon A, Ldias JAA, and Logothetis DE. A recombinant inwardly-rectifying potassium channel coupled to GTP-binding proteins. *J. Gen. Physiol.* 1996; **107**:381-397 (cited GS: **75** times). Impact Factor: 3.970.
16. Sui J-L, Chan KW, and Logothetis DE. Na⁺ activation of the muscarinic K⁺ channel by a G-protein-independent mechanism. *J. Gen. Physiol.* 1996; **108**: 381-391 (cited GS: **115**

times). Impact Factor: 3.970.

17. Chan KW, Sui J, Vivaudou M, and Logothetis DE. Control of channel activity through a unique amino acid residue of a G protein-gated inwardly rectifying K⁺ channel subunit. PNAS 1996; **93**: 14193-14198 (cited GS: **97** times). Impact Factor: 10.5.
18. Chan KW, Sui J-L, Vivaudou M, and Logothetis DE. Specific regions of heteromeric subunits involved in the enhancement of G-protein-gated K⁺ channel activity. J. Biol. Chem. 1997; **272**: 6548-6555 (cited GS: **53** times). Impact Factor: 5.117.
19. Kozak JA and Logothetis DE. A calcium-dependent chloride current in insulin-secreting β -TC3 cells. Pflügers Arch. 1997; **433**: 679-690 (cited GS: **22** times). Impact Factor: 3.724.
20. Vivaudou M, Chan KW, Sui J-L, Jan LY, Reuveny E., and Logothetis DE. Probing the G- protein regulation of GIRK1 and GIRK4, the two subunits of the KACH channel, using functional homomeric mutants. J. Biol. Chem. 1997; **272**:31553-31560 (cited GS: **130** times). Impact Factor: 5.117.
21. Sui J-L, Petit-Jacques J, and Logothetis DE. Activation of the atrial KACH channel by the $\beta\gamma$ subunits of G proteins or intracellular Na⁺ ions depends on the presence of Phosphatidylinositol phosphates. PNAS 1998; **95**:1307-1312 (cited GS: **217** times). Impact Factor: 10.5.
22. Kozak JA, Mislser S. and Logothetis DE. Characterization of a Ca²⁺-activated K⁺ current in insulin-secreting β -TC3 cells. J. Physiol. London 1998; **509**:355-370 (cited GS: **30** times). Impact Factor:4.988.
23. He C, Zhang H, Mirshahi T, and Logothetis DE. Identification of a potassium channel site that interacts with G protein $\beta\gamma$ subunits to mediate agonist-induced signaling. J. Biol. Chem. 1999, **274**: 12517-12524 (cited GS: **113** times). Impact Factor: 5.117.
24. Zhang H, He C, Yan X, Mirshahi T, and Logothetis DE. Activation of inwardly rectifying K⁺ channels by distinct PtdIns(4,5)P2 interactions. Nature Cell Biology 1999, **1**:183-188 (cited GS: **298** times). Impact Factor: 20.116.
25. Petit-Jacques J, Sui J-L, and Logothetis DE. Synergistic activation of GIRK channels by Na⁺, Mg²⁺ and G $\beta\gamma$ subunits. J. Gen. Physiol. 1999, **114**:673-684. (Cover) (cited GS: **78** times). Impact Factor: 3.970.
26. Rohács T, Chen J, Prestwich GD, and Logothetis DE. Distinct specificities of inwardly rectifying K⁺ channels for phosphoinositides. J. Biol. Chem. 1999, **274**:36065-36072 (cited GS: **164** times). Impact Factor: 5.117.
27. Kobrinsky E, Mirshahi T, Zhang H, Jin T, and Logothetis DE. Receptor-mediated

- hydrolysis of plasma membrane messenger PIP2 leads to K⁺-current desensitization. *Nature Cell Biology* 2000, **2**:507-514 (cited GS: **214** times). Impact Factor: 20.116.
28. Pabon A, Chan KW, Sui J-L, Wu X, Logothetis DE, and Thornhill WB. Glycosylation of GIRK1 at Asn 119 and ROMK1 at Asn 117 Has Different Consequences in Potassium Channel Function *J. Biol. Chem.* 2000, **275**: 30677–30682 (cited GS: **25** times). Impact Factor: 5.117.
29. Hughes T, Zhang H, Logothetis DE, and Berlot CH. Visualization of a functional Gaq-green fluorescent protein fusion in living cells: Association with the plasma membrane is disrupted by mutational activation and by elimination of palmitoylation sites, but not by activation mediated by receptors or AlF₄⁻. *J. Biol. Chem.* 2001, **276**: 4227-4235 (cited GS: **127** times). Impact Factor: 5.117.
30. Zhu L, Wu X, Chan KW, Logothetis DE, and Thornhill WB. Cloning and characterization of G protein-gated K⁺ channel (GIRK1) isoforms from heart and brain. *Molecular Neuroscience* 2001, **16**:21-32 (cited GS: **10** times). Impact Factor: 2.432.
31. London B, Guo W, Pan X-h, Lee JS, Shusterman V, Logothetis DA, Nerbonne JM, and Hill JA. Targeted replacement of Kv1.5 in the mouse leads to loss of the 4-Aminopyridine-sensitive component of I_{K,slow} and resistance to drug-induced QT prolongation. *Circ. Res.* 2001, **88**:940-946 (cited GS: **99** times). Impact Factor: 10.037.
32. Mirshahi T, Robillard L, Zhang H, Hébert TE, and Logothetis DE. Distinct effects of Gβγ proteins on K⁺ channels involve Gβ residues that do not interact with Ga and underlie agonist-independent channel activity. *J. Biol. Chem.* 2002, **277**: 7348-7355 (cited GS: **45** times). Impact Factor: 5.117.
33. He C, Yan X, Zhang H, Mirshahi T, Jin T, Huang A, and Logothetis DE. Identification of critical residues in the cytoplasmic N- and C-terminal domains of GIRK channels involved in interactions with the βγ subunits of G proteins and generation of basal activity. *J. Biol. Chem.* 2002, **277**: 6088-6096 (cited GS: **89** times). Impact Factor: 5.117.
34. Lopes CMB, Zhang H, Rohacs T, Yang J, and Logothetis DE. Alterations in Conserved Interactions between PIP2 and Kir Channels Underlie Channelopathies. *Neuron* 2002, **34**:933-944 (cited GS: **335** times). Impact Factor: 15.710
35. Mirshahi T, Mittal V, Zhang H, Linder ME, and Logothetis DE. Distinct sites on G protein βγ subunits regulate different effector functions. *J Biol Chem* 2002, **277**:36345-50 (cited GS: **64** times). Impact Factor: 5.117.
36. Jin T, Peng L, Mirshahi T, Rohacs T, Chan KW, Sanchez R, and Logothetis DE. The βγ

subunits of G proteins gate a K^+ channel by pivoted bending of a transmembrane segment. *Molecular Cell* 2002, **10**:469-481 (cited GS: 114 times). Impact Factor: 14.202.

37. Rohacs T, Lopes CMB, Ramdya P, Jin T, and Logothetis DE. Specificity of activation by phosphoinositides determines lipid regulation of Kir channels. *PNAS* 2003, **100**:745-750 (cited GS: 156 times). Impact Factor: 10.5.
38. Zhang H, Craciun LC, Mirshahi T, Rohacs T, Lopes CMB and Logothetis DE. PIP2 activates all KCNQ channels and underlies inhibition of M currents by agonists that signal its hydrolysis. *Neuron* 2003, **37**:963-975 (cited GS: 385 times). Impact Factor: 15.710
39. Chan KW, Zhang H, and Logothetis DE. N-terminal transmembrane domain of the SUR controls trafficking and gating of Kir6 channel subunits. *EMBO J.* 2003, **22**:3833-43 (cited GS: 161 times). Impact Factor: 8.833.
40. Davila V, Yan Z, Craciun LC, Logothetis D, and Sulzer D. D3 dopamine autoreceptors do not activate G-protein-gated inwardly rectifying potassium channel currents in substantia nigra dopamine neurons. *J Neurosci.* 2003, **23**:5693-7 (cited GS: 60 times). Impact Factor: 7.915.
41. Peng L, Mirshahi T, Zhang H, Hirsch JP, and Logothetis DE. Critical determinants of the G protein γ subunits in the $G\beta\gamma$ stimulation of GIRK channel activity. *JBC* 2003, **278**:50203-11 (cited GS: 23 times). Impact Factor: 5.117
42. Mirshahi T. and Logothetis DE. Molecular Determinants Responsible for Differential Cellular Distribution of G Protein-gated Inwardly Rectifying K^+ Channels. *JBC* 2004, **279**:11890-7 (cited GS: 16 times). Impact Factor: 5.117
43. Du X, Zhang H, Lopes C, Mirshahi T, Rohacs T, and Logothetis DE. Characteristic interactions with PIP2 determine regulation of Kir channels by diverse modulators. *JBC* 2004, **279**:37271-81 (cited GS: 179 times). Impact Factor: 5.117
44. Scott DB, Michailidis IE, Mu Y, Logothetis D, and Ehlers MD. Endocytosis and Degradative Sorting of NMDA Receptors by Conserved Membrane-Proximal Signals *J Neurosci.* 2004; **24**:7096-109 (cited GS: 111 times). Impact Factor: 7.915.
45. Lopes CMB, Rohács T., Czirják G, Balla T, Enyedi P, and Logothetis DE. PIP2 hydrolysis underlies agonist-induced inhibition and regulates voltage-gating of 2-P domain K^+ channels. *J Physiol.* 2005, **564**:117-29 (cited GS: 133 times). Impact Factor: 4.988.
46. Rohács T, Lopes CMB, Michailidis I and Logothetis DE. PtdIns(4,5)P2 regulates the

activation and desensitization of TRPM8 channels through the TRP domain. *Nature Neurosci.* 2005, **8**:626-634 (cited GS: 461 times). Impact Factor: 16.289.

47. Mirshahi T, Logothetis DE. and Rosenhouse-Dantsker A. Hydrogen bonding dynamics between adjacent blades in G protein β subunit regulate GIRK channel activation. *Biophys J.* 2006 **90**:2776-85 (cited GS: 6 times). Impact Factor: 4.137.
48. Rosenhouse-Dantsker A and Logothetis DE. New roles for a key glycine and its neighboring residue in potassium channel gating. *Biophys J.* 2006 **91**:2860-2873 (cited GS: 32 times). Impact Factor: 4.137.
49. Ishii Y, Pirkmaier A, Alvarez JV, Frank DA, Keselman I, Logothetis D, Mandeli J, O'Connell MJ, Waxman S, Germain D. Cyclin D1 overexpression and response to bortezomib treatment in a breast cancer model. *J. Natl. Cancer Inst* 2006 **98**:1238-47 (cited GS: 60 times). Impact Factor: 14.537.
50. Pyo RT, Sui JL, Dhume A, Palomeque J, Blaxall BC, Diaz G, Tunstead J, Logothetis DE, Hajjar RJ, and Schechter AD Cxcr4 modulates contractility in adult cardiac myocytes. *J Mol Cell Cardiol* 2006 **41**:834-844 (cited GS: 72 times). Impact Factor: 4.988.
51. Zhao Q, Yang M, Ting A, and Logothetis DE. PIP2 regulates the ionic current of P2X receptors and P2X7 receptor-mediated cell death. *Channels* 2007 **1**:46-55 (cited GS: 37 times). Impact Factor: 2.402.
52. Michailidis IE, Helton TD, Petrou VI, Mirshahi T, Ehlers MD, and Logothetis DE. Phosphatidylinositol-4,5-bisphosphate regulates NMDA receptor activity through α -actinin. *J. Neurosci* 2007 **27**:5523-5532 (cited GS: 47 times) Impact Factor: 7.915.
53. Keselman I, Fribourg M, Felsenfeld DP, and Logothetis DE. Mechanism of PLC-mediated Kir3 current inhibition *Channels* 2007 **1**:113-123 (cited GS: 34 times). Impact Factor: 2.402.
54. Lopes CMB, Remon JI, Matavel A, Sui JL, Keselman I, Medei E, Shen Y, Rosenhouse-Dantsker A, Rohacs T, and Logothetis DE. Protein kinase A modulates PLC-dependent regulation and PIP2 sensitivity of K⁺ channels *Channels* 2007 **1**:124-134 (cited GS: 44 times). Impact Factor: 2.402.
55. Rosenhouse-Dantsker A and Logothetis DE. Potassium channel gating in the absence of the highly conserved glycine of the inner transmembrane helix. *Channels* 2007 **1**:189- 197 (cited GS: 8 times). Impact Factor: 2.402.
56. Gibor G, Yakubovich D, Rosenhouse-Dantsker A, Peretz A, Schottelndreier H, Seebohm G, Dascal N, Logothetis DE, Paas Y and Attali B. An inactivation gate in the selectivity filter of KCNQ1 potassium channels *Biophysical J.* 2007 **93**:4159-72 (cited GS: 23

times). Impact Factor: 4.137.

57. Rusinova R, Mirshahi T, and Logothetis DE. Specificity of $G\beta\gamma$ signaling to potassium channels depends on the helical domain of Pertussis toxin-sensitive $G\alpha$ subunits J Biol Chem. 2007 **282**:34019-34030 (cited GS: 22 times). Impact Factor: 5.117.
58. Jin T, Sui JL, Rosenhouse-Dantsker A, Chan KW, Jan LY, Logothetis DE. Stoichiometry of Kir channels with phosphatidylinositol bisphosphate. Channels 2008 **2**:19-33 (cited GS: 8 times). Impact Factor: 2.402.
59. Bernier L-P, Ase AR, Tong X, Hamel E, Blais D, Zhao Q, Logothetis DE, Sequeira P. Direct modulation of P2X1 receptor-channels by the lipid phosphatidylinositol 4,5-bisphosphate. Mol. Pharm. 2008 **74**:785-792 (cited GS: 33 times). Impact Factor: 4.580.
60. Rosenhouse-Dantsker A, Sui JL, Zhao Q, Rusinova R, Rodriguez Menchaca A, Zhang Z, Logothetis DE. A sodium-mediated structural switch that controls PIP2 interactions with Kir channels. Nat. Chem. Biol. 2008 **4**:624-631 (cited GS: 41 times). Impact Factor: 16.052.
61. Bernier LP, Ase AR, Chevallier S, Blais D, Zhao Q, Boué-Grabot E, Logothetis D, Séguéla P. Phosphoinositides regulate P2X4 ATP-gated channels through direct interactions. J Neurosci. 2008 **28**:12938-45 (cited GS: 56 times). Impact Factor: 7.915.
62. Rusinova R, Shen A, Dolios G, Padovan J, Yang H, Kirchberger M, Wang R, Logothetis D. Mass spectrometric analysis reveals a functionally important PKA phosphorylation site in a Kir3 channel subunit. Pflugers Arch. 2009 **458**:303-14 (cited GS: 14 times). Impact Factor: 3.724.
63. Epshtein Y, Chopra A, Rosenhouse-Dantsker A, Kowalsky G, Logothetis DE and Levitan I. Identification of a C-terminus domain critical for the sensitivity of Kir2.1 to cholesterol. Proc Natl Acad Sci U S A 2009 **106**:8055-60 (cited GS: 61 times). Impact Factor: 10.5.
64. Geng X, Du XN, Rusinova R, Liu BY, Li F, Zhang X, Chen XJ, Logothetis DE, Zhang HL. Specificity of $G\beta\gamma$ signaling depends on $G\alpha$ subunit coupling with G-protein-sensitive K^+ channels. Pharmacology 2009 **84**:82-90 (cited GS: 6 times). Impact Factor: 1.909.
65. Mo G, Bernier LP, Zhao Q, Chabot-Doré AJ, Ase AR, Logothetis D, Cao CQ, Séguéla P. Subtype-specific regulation of P2X3 and P2X2/3 receptors by phosphoinositides in peripheral nociceptors. Mol Pain 2009 **5**:47 (cited GS: 35 times). Impact Factor: 4.262.
66. Lupyan D, Mezei M, Logothetis DE and Osman R. A molecular dynamics investigation of

- lipid bilayer perturbation by PIP2. *Biophys. J.* 2010 98:240-7 (cited GS: 52 times). Impact Factor: 4.137.
67. Rosenhouse-Dantsker A, Leal-Pinto E, Logothetis DE, Levitan I. Comparative analysis of cholesterol sensitivity of Kir channels: role of the CD loop. *Channels* (Austin). 2010 4:63-6 (cited GS: 32 times). Impact Factor: 2.402.
68. Tang QY, Zhang Z, Xia J, Ren D, Logothetis DE. Phosphatidylinositol 4,5-bisphosphate activates Slo3 currents and its hydrolysis underlies the epidermal growth factor-induced current inhibition. *J Biol Chem.* 2010 285:19259-66 (cited GS: 21 times). Impact Factor: 5.117.
69. Zhang Z, Rosenhouse-Dantsker A, Tang QY, Noskov S, Logothetis DE. The RCK2 domain uses a coordination site present in Kir channels to confer sodium sensitivity to Slo2.2 channels. *J Neurosci.* 2010 30:7554-62 (cited GS: 29 times). Impact Factor: 7.915.
70. Leal-Pinto E, Gomez-Llorente Y, Sundaram S, Tang QY, Ivanova-Nikolova T, Mahajan R, Baki L, Zhang Z, Chavez J, Ubarretxena-Belandia I, Logothetis DE. Gating of a G protein-sensitive mammalian Kir3.1 - prokaryotic Kir channel chimera in planar lipid bilayers. *J Biol Chem.* 2010, 285:39790-800 (cited GS: 28 times) Impact Factor: 5.117.
71. Styer AM, Mirshahi UT, Wang C, Girard L, Jin T, Logothetis DE, and Mirshahi T. G protein $\beta\gamma$ gating confers volatile anesthetic inhibition to Kir3 channels. *J Biol Chem.* 2010, 285:41290-9 (cited GS: 9 times) Impact Factor: 5.117.
72. Michailidis IE, Rusinova R, Georgakopoulos A, Yibang C, Iyengar R, Robakis NK, Logothetis DE, and Baki L. Phosphatidylinositol-4,5-bisphosphate regulates epidermal growth factor receptor activation. *Pflugers Arch.* 2011, 461:387-97 (cited GS: 34 times) Impact Factor : 3.724.
73. Rosenhouse-Dantsker A, Logothetis DE, and Levitan I. Cholesterol sensitivity of Kir2.1 is controlled by a belt of residues around the cytosolic pore. 2011 *Biophys. J* 100:381-9 (cited GS: 32 times). Impact Factor: 4.137.
74. Fribourg M, Moreno JL, Terrell Holloway T, Provasi D, Mahajan R, Park G, Lia Baki L, Adney SK, Hatcher C, Ruta JD, Albizu L, Li Z, Shim J, Fabiato A, Mackerell AD, Brezina V, Sealfon SC, Filizola M, González-Maeso J and Logothetis DE Decoding the signalling of a GPCR heteromeric complex reveals the mechanism of action of antipsychotic drugs. 2011 *Cell* 147:1011-23 (cited GS: 144 times). Impact Factor: 34.774
75. Deng W, Bukiya AN, Rodríguez-Menchaca AA, Zhang Z, Baumgarten CM, Logothetis DE, Levitan I, Rosenhouse-Dantsker A. J Hypercholesterolemia induces upregulation of KACH cardiac currents via a mechanism independent of PIP2 and G $\beta\gamma$. 2012 *J. Biol Chem.*

- 287:4925-35 (cited GS: 19 times). Impact Factor: 5.117.
76. Meng XY, Zhang HX, Logothetis DE, and Cui M. The molecular mechanism by which PIP2 opens the intracellular G-loop gate of a Kir3.1 channel. 2012 *Biophys J*. 102:2049-59 (cited GS: 33 times). Impact Factor: 4.137.
77. Wells GD, Tang QY, Heler R, Tompkins-MacDonald GJ, Pritchard EN, Leys SP, Logothetis DE, and Boland LM. A unique alkaline pH-regulated and fatty acid-activated tandem pore domain (K2P) potassium channel from a marine sponge. 2012 *J Exper Biol*. 215:2435-44 (cited GS: 6 time). Impact Factor: 3.301.
78. Rodriguez-Menchaca AA, Adney SK, Tang QY, Meng XY, Rosenhouse-Dantsker A, Cui M, and Logothetis DE. PIP2 controls voltage-sensor movement and pore opening of Kv channels through the S4-S5 linker. 2012 *Proc Natl Acad Sci U S A*. 109:E2399-408 (cited GS: 50 times). Impact Factor: 10.5.
79. An H-L, Lü S-Q, Li J-W, Meng X-Y, Zhan Y, Cui M, Long M, Zhang H-L, and Logothetis DE. The cytosolic GH-loop regulates the PIP2-induced gating kinetics of Kir2 channels. 2012 *J Biol Chem*. 287:42278-42287 (cited GS: 13 times). Impact Factor: 5.117.
80. Rosenhouse-Dantsker A, Noskov S, Han H, Adney SK, Tang Q-Y, Rodríguez-Menchaca AA, Kowalsky GB, Osborn CV, Logothetis DE and Levitan I. Distant cytosolic residues mediate a two-way molecular switch that controls the modulation of Kir channels by cholesterol and PI(4,5)P2. 2012 Sep 20 *J Biol Chem* (cited GS: 4 times). Impact Factor: 5.117.
81. Mahajan R, Ha J, Zhang M, Kawano T, Kozasa T, Logothetis DE. A Computational Model Predicts That G $\beta\gamma$ Acts at a Cleft Between Channel Subunits to Activate GIRK1 Channels. 2013 Aug 13; *Sci Signal* 6(288):ra69 (cited GS: 15 times). Impact Factor: 7.648.
82. Zhang Z, Tang Q-Y, Alaimo JT, Davies AG, Bettinger JC, and Logothetis DE. SLO-2 isoforms with unique Ca²⁺- and voltage-dependence characteristics confer sensitivity to hypoxia in *C. elegans*. *Channels (Austin)*. 2013 May 1;7(3):194-205. (cited GS: 5 times) doi: 10.4161/chan.2449. Epub 2013 Apr 16. PMID: 23590941
83. Rosenhouse-Dantsker A, Noskov S, Logothetis DE, Levitan I. Cholesterol sensitivity of KIR2.1 depends on Functional inter-links between the N and C termini. *Channels (Austin)*. 2013 Jun 27;7(4) (cited GS: 7 times). Impact Factor: 2.402
84. Rosenhouse-Dantsker A, Noskov S, Durdagi S, Logothetis DE, Levitan I. Identification of novel cholesterol-binding regions in Kir2 channels. *J Biol Chem*. 2013 Oct 25;288(43):31154-64. doi: 10.1074/jbc.M113.496117. Epub 2013 Sep 9. PMID: 24019518. (cited GS: 22 times) Impact factor: 5.117

85. Tang Q-Y, Zhang Z, Meng X-Y, Cui M, Logothetis DE. Structural determinants of the coordinated regulation of BK channel activity by Ca^{2+} and PIP₂. *J Biol Chem*. 2014 Jul 4;289(27):18860-72. (cited GS: 17 times) doi: 10.1074/jbc.M113.538033. Epub 2014 Apr 28. PMID: 24778177
86. Spyridaki K, Matsoukas MT, Cordomi A, Gkountelias K, Papadokostaki M, Mavromoustakos T, Logothetis DE, Margioris AN, Pardo L, Liapakis G. Structural-Functional Analysis of the Third Transmembrane Domain of the CRF1 Receptor: Role in Activation and Allosteric Antagonism. *J Biol Chem*. 2014 Jul 4;289(27):18966-77. (cited GS: 6 times) doi: 10.1074/jbc.M113.544460. Epub 2014 May 16. PMID: 24838244
87. Zhang M, Meng XY, Cui M, Pascal JM, Logothetis DE, Zhang JF. Selective phosphorylation modulates the PIP₂ sensitivity of the CaM-SK channel complex. *Nat Chem Biol*. 2014 Sep;10(9):753-9. (cited GS: 13 times) doi: 10.1038/nchembio.1592. Epub 2014 Aug 10. PMID: 25108821
88. Li J, Xie X, Liu J, Yu H, Zhang S, Zhan Y, Zhang H, Logothetis DE, H An H. Lack of negatively charged residues at the external mouth of Kir2.2 channels enable voltage-dependent block by external Mg^{2+} . 2014 PloS one 9 (10), e111372 (cited GS: 3 times)
89. Mastorodemos V, Kanavouras K, Sundaram S, Providaki M, Petraki Z, Kokkinidis M, Zaganas I, Logothetis DE, Plaitakis A. Side-chain interactions in the regulatory domain of human glutamate dehydrogenase determine basal activity and regulation. *J Neurochem*. 2015 Apr;133(1):73-82 (cited GS: 5 times)
90. Tang QY, Larry T, Hendra K, Yamamoto E, Paul A, Bell J, Cui M, Logothetis DE, and Boland LM. Nature's mutations evolved a high affinity PIP₂ binding site in vertebrate inwardly rectifying potassium channels. *J Biol Chem*. 2015 Jul 3;290(27):16517-29 (cited GS: 0 times)
91. Zhang M, Meng X-Y, Zhang J-F, Cui M, Logothetis DE. Molecular overlap in the regulation of SK channels by small molecules and phosphoinositides. *Sci Adv*. 2015 Jun 3;1(6):e1500008. (cited GS: 4 times)
92. Li J, Lü S, Liu Y, Pang C, Chen Y, Zhang S, Yu H, Long M, Zhan H, Logothetis DE, Zhan Y and An H. Identification of the Conformational transition pathway in the Opening of Kir Channels by PIP₂. *Sci Rep*. 2015 Jun 11;5:11289. (cited GS: 8 times)
93. Adney SK, Meng X-Y, Kawano T, and Logothetis DE. A Critical Gating Switch at a Modulatory site in Neuronal Kir3 Channels *J Neurosci*. 2015 Oct 21;35(42):14397-405. (cited GS: 0 times)

94. Tang Q-Y, Zhang F-F, Xu J, Wang R, Chen J, Logothetis DE, Zhang Z. Epilepsy-related Slack channel mutants lead to channel over-activity by two different mechanisms. *Cell Rep.* 2016 Jan 5;14(1):129-39. (*cited GS: 4 times*)
95. Moreno JL, Miranda-Azpiazu P, García-Bea A, Cui M, Kozlenkov A, Fakira AK, Georgakopoulos A, Morón JA, Milligan G, López-Giménez JF, Robakis NK, Logothetis DE, Meana JJ, González-Maeso J. Mechanistic insights into the allosteric crosstalk between mGlu2 and 5-HT2A receptors acting as an altered heteromer in schizophrenia. *Sci Signal.* 2016 Jan 12;9(410):ra5. (*cited GS: 17 times*)
96. Baki L, Fribourg M, Younkin J, Eltit JM, Moreno JL, Park G, Vysotskaya Z, Narahari A, Sealfon SC, González-Maeso J, Logothetis DE. Cross-signaling in metabotropic Glutamate 2 and serotonin 2A receptor heteromers in mammalian cells. *Pflugers Arch.* 2016 May;468(5):775-93. (*cited GS: 7 times*)
97. Deng W, Mahajan R, Baumgarten CM, Logothetis DE. The ICI_{swell} inhibitor DCPIB blocks Kir channels that possess weak affinity for PIP₂. *Pflugers Arch.* 2016 May;468(5):817-24. (*cited GS: 1 time*)
98. Younkin J, Gaitonde SA, Ellaithy A, Vekariya R, Baki L, Moreno JL, Shah S, Drossopoulos P, Hideshima KS, Eltit JM, González-Maeso J, Logothetis DE, Dukat M, Glennon RA. Reformulating a Pharmacophore for 5-HT_{2A} Serotonin Receptor Antagonists. *ACS Chem Neurosci.* 2016 Jul 19. [Epub ahead of print]. (*cited GS: 1 time*)
99. Meng XY, Liu S, Cui M, Zhou R, Logothetis DE. The Molecular Mechanism of Opening the Helix Bundle Crossing (HBC) Gate of a Kir Channel. *Sci Rep.* 2016 Jul 21;6:29399. doi: 10.1038/srep29399. (*cited GS: 0 times*)
100. Li J, Xiao S, Xie X, Zhou H, Pang C, Li S, Zhang H, Logothetis DE, Zhan Y, An H. Three pairs of weak interactions precisely regulate the G-loop gate of Kir2.1 channel. *Proteins.* 2016 Dec;84(12):1929-1937. doi: 10.1002/prot.25176. Epub 2016 Oct 25. (*cited GS: 0 times*)
101. Tobelaim WS, Dvir M, Lebel G, Cui M, Buki T, Peretz A, Marom M, Haitin Y, Logothetis DE, Hirsch JA, Attali B. Competition of calcified calmodulin N lobe and PIP₂ to an LQT mutation site in Kv7.1 channel. *Proc Natl Acad Sci U S A.* 2017 Jan 31;114(5):E869-E878. doi: 10.1073/pnas.1612622114. Epub 2017 Jan 17. (*cited GS: 0 times*)
102. Fribourg M, Logothetis DE, González-Maeso J, Sealfon SC, Galocha-Iragüen B, Las-Heras Andrés F, Brezina V. Elucidation of molecular kinetic schemes from macroscopic traces using system identification. *PLoS Comput Biol.* 2017 Feb 13;13(2):e1005376. doi: 10.1371/journal.pcbi.1005376. eCollection 2017 Feb. (*cited*

GS: 0 times)

Abstracts (Last 10 years, 2008-2017)

2008

1. Petrou VI, Thyagarajan B, Rohacs T, Selimi F, Heintz N, Logothetis DE. 2008. The activity of a mutant $\delta 2$ ionotropic glutamate receptor is modulated by phosphatidylinositol 4, 5- biphosphate (PIP2). Biophysical Journal, Fifty second annual meeting, Long Beach, CA.
2. Rusinova R, Shen A, Yang H, Dolios G, Wand R, Logothetis DE. 2008. Identification of Kir3 phosphorylation residues through mass spectrometric analysis. Biophysical Journal, Fifty second annual meeting, Long Beach, CA.
3. Rosenhouse-Dantsker A, Zhao Q, Sui JL, Rusinova R, Logothetis DE. 2008. Sodium coordination site reveals a novel sodium-sensitive phenotype in a Kir channel. Biophysical Journal, Fifty second annual meeting, Long Beach, CA.
4. Jin T, Liu B, Peng L, Logothetis DE, Jan YN, Jan LY. 2008. Different roles attributed to the hydrophobicity and the aromaticity of the phenylalanine residue located at the helix bundle crossing region of GIRK channels. Biophysical Journal, Fifty second annual meeting, Long Beach, CA.
5. Zhang YY, Zhao Q, Rosenhouse-Dantsker A, Logothetis DE. 2008. PIP2 regulates the activation and voltage dependence of voltage-gated potassium channels. Biophysical Journal, Fifty second annual meeting, Long Beach, CA.
6. Fribourg M, Gonzalez-Maeso J, Sealfon SC, Logothetis DE. 2008. Functional evidence for G protein-coupled receptor heterocomplexes. Biophysical Journal, Fifty second annual meeting, Long Beach, CA.

2009

7. Nikolov EN, Logothetis DE, Ivanova- Nikolova TT 2009. Rhythmic Control of Atrial GIRK Channel Function by PKC. Biophysical Journal 96 (3): 463a. Fifty third annual meeting, Boston, MA.
8. Baki L, Rodriguez AA, Rusinova R, et al. 2009. HI-1 Cardiomyocytes as a Tool for the Study of Regulation of Kir.1/Kir.4 Channel Activity. Biophysical Journal 96 (3): 465a. Fifty third annual meeting, Boston, MA.

9. Zhang Z, Rosenhouse-Dantsker A, Adney SK, et al. 2009. Regulation of the Slo2.2 Channel by Na⁺ Ions and Phosphatidylinositol 4,5 Bisphosphate. *Biophysical Journal* 96 (3): 482a. Fifty third annual meeting, Boston, MA.
10. Petrou VI, Logothetis DE 2009. A Mutant *d2* Ionotropic Glutamate Receptor Exhibits Dual Regulation by Phosphoinositides. *Biophysical Journal* 96 (3): 489a. Fifty third annual meeting, Boston, MA.
11. Fribourg-Casajuana M, Gonzalez-Maeso J, Sealfon SC et al. 2009. Functional Evidence for Gi-Gq crosstalk through G protein-coupled Receptor Heterocomplexes. *Biophysical Journal* 96 (3): 674a-675a. Fifty third annual meeting, Boston, MA.

2010

12. Zhang Z, Rosenhouse-Dantsker A, Tang Q, et al. 2010. The Na⁺ Activated Potassium Channel Slack Shares a Similar Na⁺ Coordination Site with KIR3 Channels. *Biophysical Journal* 98 (3): 533a-534a. Fifty fourth annual meeting, San Francisco, CA.
13. Rosenhouse-Dantsker A, Leal-Pinto E, Logothetis DE, et al. 2010. Comparative Analysis of Cholesterol Sensitivity of KIR Channels: Role of the Cytoplasmic Domain. *Channels* 4 (1): 63-66. Fifty fourth annual meeting, San Francisco, CA..
14. Leal-Pinto E, Gomez-Llorente Y, Sundaram S, et al. 2010. Functional Reconstitution of a GIRK1-Chimera and its Regulation by the $\beta\gamma$ Subunits of G Proteins. *Biophysical Journal* 98 (3): 700a-701a. Fifty fourth annual meeting, San Francisco, CA.
15. Tang QY, Zhang Z, Petrou V, et al. 2010. An Epilepsy/Dyskinesia-Associated Mutation in BK Channel Enhanced Channel-PIP2 Apparent Affinity. *Biophysical Journal* 100 (3): 582a- 583a. Fifty fourth annual meeting, San Francisco, CA.
16. Leal-Pinto E, Gomez-Llorente Y, Sundaram S, et al. 2010. G Protein Gating of a KIR3.1- Prokaryotic KIR Channel Chimera Functionally Reconstituted in Planar Lipid Biplayers. *Journal of Biological Chemistry* 285 (51): 39790-39800. Fifty fourth annual meeting, San Francisco, CA.

2011

17. Rodriguez-Menchaca A, Adney S, Logothetis DE. 2011. Dual Regulation of KV1.2 Activation by PIP2. *Biophysical Journal* 100 (1): 98. Fifty fifth annual meeting, Baltimore, MD.
18. Rosenhouse-Dantsker A, Logothetis DE, Levitan I. 2011. Cholesterol Sensitivity of KIR2.1

is Modulated by a Cytosolic Belt: Implications for KIR Gating. *Biophysical Journal* 100 (2): 381-389. Fifty fifth annual meeting, Baltimore, MD.

19. Provasi D, Li Z, Shim J et al. 2011. Metadynamics-Based Mechanistic Interpretation of Functional Crosstalk between Serotonin 2A and Metabotropic Glutamate 2 Receptors. *Biophysical Journal* 100 (3): 255a. Fifty fifth annual meeting, Baltimore, MD.
20. Petrou V, Logothetis DE. 2011. The Lurcher Mutant of $\delta 2$ Ionotropic Glutamate Receptor is regulated by Phosphoinositides. *Biophysical Journal* 100 (3): 268a. Fifty fifth annual meeting, Baltimore, MD.
21. Mahajan R, Logothetis DE. 2011. Functional Sites of Interaction between G-Protein $\beta\gamma$ Subunits and GIRK Channels. *Biophysical Journal* 100 (3): 358a-359a. Fifty fifth annual meeting, Baltimore, MD.
22. An H, Li J, Zhan Y et al. 2011. Flexibility Between the Linker of the CD and G-Loops Determines the Gating Dynamics of Hte Kir2.1 Channel. *Biophysical Journal* 100 (1): 430a. Fifty fifth annual meeting, Baltimore, MD.
23. Meng X, Zhang H, Logothetis DE, et al. 2011. Molecular Dynamics Simulations of PIP₂- Driven Kir Channel Activation. *Biophysical Journal* 100 (3): 431a. Fifty fifth annual meeting, Baltimore, MD.
24. Zhang Z, Tang QY, Logothetis DE. 2011. C. Elegans Slo-2b uses its RCK1 Domain as a Ca²⁺ Sensor and does not Exhibit Cl⁻ Dependence. *Biophysical Journal* 100 (3): 582a. Fifty fifth annual meeting, Baltimore, MD.

2012

25. Zhang Z, Tang QY, Logothetis DE. 2012. Cooperative regulation of Slack channel by Na⁺, Cl⁻ and PIP₂. *Biophysical Journal*, Fifty sixth annual meeting, San Diego, CA
26. Deng W, Bukiya AN, Rodríguez-Menchaca AA, Zhang Z, Baumgarten CM, Logothetis DE, Levitan I and Rosenhouse-Dantsker A. 2012. Hypercholesterolemia induces upregulation of k_{ach} cardiac currents. *Biophysical Journal*, Fifty sixth annual meeting, San Diego, CA
27. Rosenhouse-Dantsker A, Noskov S, Rodríguez-Menchaca AA, Logothetis DE and Levitan I. 2012. Modulation of Kir channels by cholesterol and PI(4,5)P₂ is controlled by a two-way molecular switch. *Biophysical Journal*, Fifty sixth annual meeting, San Diego, CA
28. Petrou VI and Logothetis DE. 2012. Phosphoinositide signaling regulates the surface localization of the $d2$ ionotropic glutamate receptor. *Biophysical Journal*, Fifty sixth annual meeting, San Diego, CA

2013

29. Rosenhouse-Dantsker A, Noskov S, Han H, Adney SK, Tang QY, Rodríguez-Menchaca AA, Kowalsky GB, Petrou VI, Osborn CV, Logothetis DE, Levitan I. 2013. Distant cytosolic residues in Kir channels control channel gating and modulation by cholesterol and PI(4,5)P₂. Biophysical Journal, Fifty seventh annual meeting, Philadelphia, PA
30. Baki L, Eltit JM, Fribourg M, Younkin J, Park G, Vysotskaya Z, Sealfon SC, Liapakis G, Gonzalez-Maeso J, Logothetis DE. 2013. Functional crosstalk between mGluR2 and 5-HT_{2A} depends on their expression ratios. Biophysical Journal, Fifty seventh annual meeting, Philadelphia, PA
31. Tang QY, Zhang Z, Meng XY, Cui M, Logothetis DE. 2013. Identification of a novel PIP₂ interaction site and its allosteric regulation by the RCK1 site associated with Ca²⁺ coordination in Slo1 channels. Biophysical Journal, Fifty seventh annual meeting, Philadelphia, PA
32. Hatcher CN, Liapakis G, Logothetis DE. 2013. Characterizing the effect of A_{2A}R-D₂R Heteromeric complex formation on A_{2A}R and D₂R signaling. Biophysical Journal, Fifty seventh annual meeting, Philadelphia, PA
33. Meng X, Cui M, Logothetis DE. 2013. Simulations of the helix bundle crossing gate opening in Kir channels. Biophysical Journal, Fifty seventh annual meeting, Philadelphia, PA
34. Mahajan R, Ha J, Logothetis DE. 2013. Structural model of K⁺ channel activation by the βγ subunits of G-proteins (Gβγ). Biophysical Journal, Fifty seventh annual meeting, Philadelphia, PA
35. Adney SK, Meng XY, Logothetis DE. 2013. Unique PIP₂ sensitivity at a putative PKC site in GIRK2 (Kir 3.2). 2013. Biophysical Journal, Fifty seventh annual meeting, Philadelphia, PA
36. Younkin J, Logothetis DE. 2013. Functional signaling changes resulting from GPCR heteromerization: relevance to psychosis. Biophysical Journal, Fifty seventh annual meeting, Philadelphia, PA
37. Rosenhouse-Dantsker A, Logothetis DE, Levitan I. 2013. Coupling between the N- and C- termini of Kir2.1 is critical for cholesterol modulation. Biophysical Journal, Fifty seventh annual meeting, Philadelphia, PA
38. Sundaram S, Yang C, Logothetis DE. 2013. Molecular basis of the blocking mechanism of inwardly rectifying channels by tertiapin. Biophysical Journal, Fifty seventh annual meeting, Philadelphia, PA.

39. Logothetis DE. 2013. Regulation of K channels by the G proteins (G $\beta\gamma$) signaling system. Biophysical Journal, Fifty seventh annual meeting, Philadelphia, PA

2014

40. Baki L, Younkin J, Eltit J, Fribourg M, Park G, Vysotskaya Z, Logothetis DE. 2014. Cross- Signaling Between the Metabotropic Glutamate 2 Receptor and the Serotonin (5-HT) 2A Receptor in HEK-293 Cells. Biophysical Journal, Fifty eighth annual meeting, San Francisco, CA.
41. Leal-Pinto E, Ha J, Kawano T, Zhang M, Tang Q, Gomez-Llorente Y, Chavez J, Ubarretxena I, Logothetis DE. 2014. Requirement for an Activated G Protein Subunit for G Beta Gamma Activation of a Purified Mammalian GIRK1 Channel Reconstituted in Planar Lipid Bilayers. Biophysical Journal, Fifty eighth annual meeting, San Francisco, CA
42. Rosenhouse-Dantsker A, Noskov S, Durdagi S, Logothetis DE, Levitan I. 2014. Identification of Novel Cholesterol Binding Regions in the Transmembrane Domain of KIR2, 1. Biophysical Journal, Fifty eight annual meeting, San Francisco, CA.
43. Tang Q, Zhang Z, Meng X, Cui M, Logothetis DE. 2014. Calcium and PIP2 Interplay Regulates BK Channel Activity via the RCK1 Gating Ring. Biophysical Journal, Fifty eighth annual meeting, San Francisco, CA.
44. Zhang M, Cui M, Meng X, Zhang J, Logothetis DE. 2014. PIP2-Channel Interaction as a Critical Element in Regulation of SK Channel Activity. Biophysical Journal, Fifty eighth annual meeting, San Francisco, CA.
45. Zhang Z, Eltit JM, Tang Q, Subler M, Zhang FF, Xu J, Yu XL, Cao J, Logothetis DE. 2014. Pore-deleted Slo3 channel mutant disrupts alkalinization-induced Ca²⁺ entry in mouse spermatozoa by controlling membrane potential. Biophysical Journal, Fifty eighth annual meeting, San Francisco, CA.

2015

46. Younkin J, Baki L, Ellaithy A, Logothetis DE. 2015. Allosteric effects of G-protein coupled receptor heteromerization : Relevance to psychosis. Biophysical Journal, Fifty ninth annual meeting, Baltimore, MD.
47. Hatcher-Solis C, Logothetis DE. 2015. Pharmacological implications of A2AR-D2R heteromerization and the significance for Parkinson's disease. Biophysical Journal, Fifty ninth annual meeting, Baltimore, MD.
48. Baki L, Younkin J, Eltit JM, Fribourg M, Ellaithy A, Park G, Vysotskaya Z, Logothetis DE. 2015. Cross-signaling between the metabotropic glutamate receptor 2 and the

serotonin 2A receptor in HEK-293 cells. *Biophysical Journal*, Fifty ninth annual meeting, Baltimore, MD.

49. Ellaithy A, Younkin J, Baki L, Logothetis DE. 2015. A positive allosteric modulator of the metabotropic glutamate 2 receptor alters 5-HT_{2A} receptor signaling in a heteromeric complex. *Biophysical Journal*, Fifty ninth annual meeting, Baltimore, MD.
50. Xiang G, Logothetis DE. 2015. Signaling through homomeric and heteromeric dopamine D₂ and cannabinoid CB₁ receptors. *Biophysical Journal*, Fifty ninth annual meeting, Baltimore, MD.

2016

51. Xiang G, Kawano T, Baki A, and Logothetis DE. 2016. Decoding the signaling through homomeric and heteromeric dopamine D₂ and Cannabinoid CB₁ receptors. *Biophysical Journal*, Sixtieth annual meeting, Los Angeles, CA.
52. Kawano T, Baki A, Xiang G, and Logothetis DE. Construction of G alpha-16 chimeras for detection of GPCR activation. Sixtieth annual meeting, Los Angeles, CA.
53. Xu Y, Ellaithy A, and Logothetis DE. Positive allosteric modulators induced conformational changes in the metabotropic glutamate receptor 2 - in silico predictions and experimental tests. Sixtieth annual meeting, Los Angeles, CA.
54. Younkin J, Baki L, and Logothetis DE. Allosteric Effects of G-Protein Coupled Receptor Heteromerization: Relevance to Psychosis. Sixtieth annual meeting, Los Angeles, CA.

2017

55. Ren SX, Li JW, Zhang SH, Logothetis DE, An HL, Zhan Y. E224G Regulation of the PIP₂-Induced Gating Kinetics of Kir_{2.1} Channels. *Chinese Physics Letters* 34 (1), 016102
56. Xu Y, Ellaithy A, Kawano T, Gonzalez-Maeso J, Logothetis D. Ionic Lock: Functional Role in Activation of Metabotropic Glutamate Receptor 2 *Biophysical Journal* 112 (3), 530a
57. Ha J, Xu Y, Hendon T, Kawano T, Garai S, Thakur G, Papapetropoulos A, et al. Hydrogen Sulfide (H₂S) Regulation of Kir (Inwardly Rectifying K⁺) Channels *Biophysical Journal* 112 (3), 226a-227a
58. Xu Y, Kawano T, Ha J, Garai S, Xiang G, Thakur G, Logothetis DE. Mechanism of Action of a Small Molecule Activator of Phosphoinositide-Dependent GIRK Channels *Biophysical Journal* 112 (3), 254a

59. Xiang G, Kawano T, Baki A, Logothetis D. Decoding the Signaling through Homomeric and Heteromeric Cannabinoid CB1 Receptors *Biophysical Journal* 112 (3), 88a
60. Tang QY, Liu Y, Xu Z, Zhang FF, Zhang FF, Li Y, Eltit JM, Logothetis DE, et al., Slo3 Channel is Essential for Fertilized Egg Development by Controlling Critical Molecules for Mitosis *Biophysical Journal* 112 (3), 405a

Books and Other Monographs

1. Logothetis DE, Kurachi Y, Galper J, Neer EJ, Clapham DE. 1987. G protein opening of K⁺ channels. *Nature* 327:22 (cited GS: 9 times)
2. Neer EJ, Kim SY, Ang SL, Bloch DB, Kawahara Y, Tolman C, Lee R, Logothetis DE, Kim D, Seidman JG, and Clapham DE. 1988. Functions of G-Protein Subunits. *Cold Spring Harbor Symposia on Quantitative Biology*; LIII:241-246 (cited GS: 7 times)
2. Plummer MR, Hess P and Logothetis DE. 1989. Calcium channels in mammalian sympathetic neurons and PC12 cells. In: Keeling D and Benham C, eds. *Ion transport*. London: Academic Press; 97-114
3. Langan MN and Logothetis DE. 1996. Molecular Properties of cardiac potassium channels in health and disease. In: Marks A and Taubman M, eds. *Molecular biology of cardiovascular disease*. New York: marcel dekker, inc., **30**: 197-235
4. Logothetis DE and Zhang H. Gating of G protein-sensitive inwardly rectifying K⁺ channels through PIP₂. *J. Physiol. (London)* 1999; **520**:630 (cited GS: 45 times)
5. Sui J-L, Chank KW, Langan MN, Vivaudou M and Logothetis DE. 1999. G-protein-gated potassium channels. In: Armstrong D and Rossie S, eds. *Ion channel modulation: Advances in second messenger and phosphoprotein research*. 33: 179-201 Academic Press (cited GS: 30 times)
6. Sui J-L, Petit-Jacques J and Logothetis DE. 1999. Effect of Phosphatidylinositol phosphates on the gating of G protein-activated K⁺ channels. In: Kurachi Y, Jan LY, and Lazdunski M, eds. *Potassium channels: Molecular structure, function, and diseases*. San Diego, CA.: Academic Press. **46**:337-354 (cited GS: 1 time)
7. Mirshahi T Logothetis DE and Sassaroli M. 2001. Imaging GFP tagged channels in the membrane of *Xenopus* oocytes. In "Ion Channel Localization Methods and Protocols: Methods in Pharmacology and Toxicology, edited by Nichols CG and Lopatin A. pp.215-31. Humana Press. (cited GS: 9 times)
8. Rohacs T, Lopes CMB, Mirshahi T, Jin T, Zhang H, and Logothetis DE. 2002. Assaying PIP₂ regulation of Potassium Channels. In *G Protein Pathways, Methods in Enzymology* edited by John Hildebrandt and Ravi Iyengar. *Methods in Enzymology* **345**:71-92 (cited GS: 52 times)
9. Mirshahi T and Logothetis DE. GIRK channel trafficking: Different paths for different family members. *Molecular Interventions* 2002, **2**:289-291. (cited GS: 9 times)

10. Mirshahi T, Jin T, Logothetis DE. $G\beta\gamma$ and K_{ACh} : old story, new insights. 2003 Sci STKE. **192**:pe32. Perspective. (cited GS: **21** times)
11. Logothetis DE. and Sui J.L. Kir3.4. AfCS-Nature Molecule Pages 2005. (doi:10.1038/mp.a001334.01).
12. Logothetis DE and Nilius B 2007. Dynamic changes in phosphoinositide levels control ion channel activity. Pflügers Arch. **455**:1-4 (cited GS: **16** times)
13. Logothetis DE, Jin T, Lupyan D, and Rosenhouse-Dantsker A. 2007. Phosphoinositide-mediated gating of inwardly rectifying K^+ channels Pflügers Arch. **455**:83-96 (cited GS: **114** times)
14. Logothetis DE, Lupyan D, and Rosenhouse-Dantsker A. 2007. Diverse Kir modulators act in close proximity to residues implicated in phosphoinositide binding J Physiol. **582**:953-65 (cited GS: **52** times)
15. Rosenhouse-Dantsker A and Logothetis DE. 2007. Molecular characteristics of phosphoinositide binding (Pflügers Arch. **455**:45-54 (cited GS: **64** times)
16. Zhao Q, Logothetis DE, and Séguéla P. 2007. Regulation of ATP-gated P2X receptors by phosphoinositides Pflügers Arch. **455**:181-186 (cited GS: **20** times)
17. Logothetis DE, Petrou VI, Adney SK, Mahajan R. Channelopathies linked to plasma membrane phosphoinositides. Pflügers Arch. 2010 460:321-41 (cited GS: **81** times)
18. Rodriguez-Menchaca AA, Adney SK, Zhou L, and Logothetis DE. Dual regulation of voltage-sensitive ion channels by PIP_2 . Front Pharmacol. 2012;3:170 (cited GS: **17** times)
19. Zhou L, Logothetis DE. The where and how of PIP regulation of cone photoreceptor CNG channels. J Gen Physiol. 2013 141(4):403-7 (cited GS: **1** time)
20. Mahajan R and Logothetis DE. Mechanism of G protein regulation of K^+ channels. Chapter 34 in "Handbook of Ion Channels" 2015. Edited by Jie Zheng and Matthew C. Trudeau. Published by Taylor and Francis Books, LLC. (cited GS: **1** time)
21. Logothetis DE, Petrou VI, Zhang M, Mahajan R, Meng XY, Adney SK, Cui M, Baki L. Phosphoinositide Control of Membrane Protein Function: A Frontier Led by Studies on Ion Channels. Annu Rev Physiol. 2015;77:81-104. (cited GS: **8** times) doi: 10.1146/annurev-physiol-021113-170358. Epub 2014 Oct 2.
22. Hatcher-Solis C, Fribourg M, Spyridaki K, Younkin J, Ellaithy A, Xiang G, Liapakis G, Gonzalez-Maeso J, Zhang H, Cui M, Logothetis DE. G protein-coupled receptor signaling to Kir channels in Xenopus oocytes. Curr Pharm Biotechnol. 2014;15(10):987-95. (cited GS: **7** times)

23. Logothetis DE, Mahajan R, Adney SK, Ha J, Kawano T, Meng X-Y, Cui M. Unifying Mechanism of Controlling Kir3 Channel Activity by G Proteins and Phosphoinositides Int Rev Neurobiol. 2015;123:1-26. (*cited GS: 3 times*)
24. Ellaithy A, Younkin J, Gonzalez-Maeso J, and Logothetis DE. Positive Allosteric Modulators of Metabotropic Glutamate 2 Receptors in Schizophrenia Treatment Trends Neurosci. 2015 Aug;38(8):506-16. (*cited GS: 22 times*)