

January, 2024

CURRICULUM VITAE

J. Silvio Gutkind, Ph.D.

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[UC San Diego profile](#)



Education:

1976-1980 Pharmacy Degree (M.Sc.), University of Buenos Aires, Argentina
1976-1983 Biochemistry Degree (M.Sc.), University of Buenos Aires, Argentina.
1985 Ph.D. in Pharmacy and Biochemistry (*Pharmacology*), University of Buenos Aires, Argentina

Employment History:

2020-Present Chair, Department of Pharmacology, School of Medicine, University of California San Diego (UCSD), USA
2019-Present Distinguished Professor, Department of Pharmacology, School of Medicine, University of California San Diego (UCSD), USA
2015-Present Associate Director of Basic Science, UCSD Moores Cancer Center, and Co-Director, Head and Neck Cancer Center
2015-Present Co-Director, Hanna and Mark Gleiberman Head and Neck Cancer Center
2015-2019 Professor, Department of Pharmacology, School of Medicine, University of California San Diego (UCSD), USA
1998-2015 Chief, Oral and Pharyngeal Cancer Branch, National Institute of Dental and Craniofacial Research, NIH, Bethesda, USA
1997-2015 Chief, Cell Growth Regulation Section and Molecular Carcinogenesis Unit, Oral and Pharyngeal Cancer Branch, National Institute of Dental and Craniofacial Research, NIH, Bethesda, USA
1996-1997 Acting Chief, Oral and Pharyngeal Cancer Branch, National Institute of Dental Research, NIH, Bethesda, USA
1993-1997 Chief, Molecular Signaling Unit, Laboratory of Cellular Development and Oncology, National Institute of Dental Research, NIH, Bethesda, USA
1992-1993 Head, Molecular Signaling Group, Laboratory of Cellular Development and Oncology, National Institute of Dental Research, NIH, Bethesda, USA
1989-1992 Visiting Associate, Laboratory of Cellular Development and Oncology, National Institute of Dental Research, NIH, Bethesda, USA
1988-1989 Fogarty Visiting Fellow, Laboratory of Cellular Development and Oncology, National Institute of Dental Research, NIH, Bethesda, USA
1987-1988 Fogarty Visiting Fellow, NIDR, Guest Researcher at the Laboratory of Cellular and Molecular Biology, National Cancer Institute, NIH, Bethesda, USA

- 1986-1987 International Fogarty Fellow, Laboratory of Clinical Science, National Institute of Mental Health, NIH, Bethesda, USA
- 1983-1986 Research Assistant, Department of Pharmacology, School of Pharmacy and Biochemistry, University of Buenos Aires, Argentina
- 1981-1983 Part-time Instructor, Department of Pharmacology, School of Pharmacy and Biochemistry, University of Buenos Aires, Argentina
- 1979-1980 Part-time Instructor, Department of Organic Chemistry, School of Pharmacy and Biochemistry, University of Buenos Aires, Argentina

Honors and Awards:

- 2024 Chair, Major Symposium “Novel Immune Checkpoints: Beyond PD1 and CTLA4”, American Association for Cancer Research, (AACR) Annual Meeting, San Diego, CA
- 2023 Elected, **American Cancer Society Research Professor** (ACS)
Susan Band Horwitz Award in Cancer Pharmacology (ASPET)
Keynote Lecture, Gordon Research Conference, Salivary Glands and Exocrine Biology, Ventura, CA
- 2022 Fellow, the American Society for Pharmacology and Experimental Therapeutics (ASPET)
Fellow, American Society of American Society for Biochemistry and Molecular Biology (ASBMB)
Keynote Lecture, New Frontier in RTK Signaling & Therapeutics, A Joint Cancer Signaling Networks and Developmental Therapeutics Retreat, Yale Cancer Center, New Haven, CT (virtual)
- 2021 UC San Diego Chancellor’s award for Excellence in Postdoctoral Scholar Mentoring
Cancer Research Institute - V Foundation CLIP Investigator
UC San Diego Moores Cancer Center Faculty Award for Excellence in Translational Research
- 2020 Elected, National Academy of Pharmacy and Biochemistry, Argentina
Certificate of recognition, United States Senate, for outstanding contributions to the advancement of medical sciences, health care, and public health
Chair, Division of Molecular Pharmacology, American Society for Pharmacology and Experimental Therapeutics (ASPET)
- 2019 Elected, **National Academy of Medicine** (NAM), USA, for outstanding contributions in the understanding of cancer signaling networks, and pioneering the study of the *PIK3CA*-mTOR signaling circuitry in head and neck cancer progression, metastasis, and in therapy resistance
Elected Chair, Division of Molecular Pharmacology, American Society for Pharmacology and Experimental Therapeutics (ASPET)
Elected Co-Chair, Gordon Conference in Molecular Pharmacology, Ventura CA
- 2017 International Association of Dental Research (IADR), Distinguished Scientist Award
Keynote Lecture, ASPET 2017, Division for Molecular Pharmacology
Postdoctoral Scientist Award
- 2015 Pharmaceutical Research and Manufacturers of America (PhRMA), 2015 Research & Hope Award for “Excellence in Academic Research”, for the seminal work on GPCR Function in Cancer
Keynote Lecture, ASPET Upstate New York Pharmacology Society 4th Annual Meeting, Rochester, NY

- 2014 Keynote Lecture, 2014 American Head and Neck Society (AHNS) Annual Meeting and 5th World Congress-IFHNOS
Distinguished Lecture Series at Massachusetts Eye and Ear Infirmary/Schepens Eye Research Institute, Harvard University, MA
Keynote Speaker, Dental Research in Review, University of North Carolina, Chapel Hill, NC
Keynote Speaker, Fifth Annual Cancer Biology Research Retreat, University of Maryland-Baltimore
- 2013 PABMB (Pan-American Association for Biochemistry and Molecular Biology) Plenary Lecture, Madrid, Spain
Elected, Keynote Lecture, 2014 American Head and Neck Society (AHNS) Annual Meeting and 5th World Congress-IFHNOS
Elected, Councilor, Basic Research, International Academy/Association of Oral Oncology (IAOO)
International Keynote speaker at the Weizmann-Brazil Signal Transduction meeting, "Novel Angiogenic and Antiangiogenic Signaling Circuitries", The Weizmann Institute of Science, Israel
Honorary Professor, West China School of Stomatology, Sichuan University, Chengdu, China
- 2012 Elliot Osserman Award, Israel Cancer Research Foundation
- 2011 Raices Award, Ministry of Science, Presidency of Argentina, for scientific contributions and efforts in enhancing research training and technology development, Argentina.
Keynote Speaker, (IADR, Chile) Asociación Internacional de Investigación Dental – División Chile, Chile
Keynote Speaker, NCI Frederick Spring Research Festival, Frederick, MD
Visiting Professor, Georgetown University, Washington DC
- 2010 Visiting Professor and Clinical Ground Round Speaker, Memorial Sloan Kettering Cancer Center, New York, NY
Keynote Speaker, 6th Annual International Head and Neck Symposium, Los Angeles, CA, July 2010
Honorary Professor, University of Buenos Aires, Argentina
Keynote Speaker, The First South American Spring Symposium in Signal Transduction and Molecular Medicine, SISTAM 2010, Cordoba, Argentina
- 2009 Keynote Lecture, Symposium on Molecular Medicine, Virginia Commonwealth University, Richmond, VA
Keynote Speaker, School of Dentistry University of Michigan Research Day, Ann Arbor, MI
Keynote speaker at the Annual Meeting of the Chilean Society of Biochemistry and Molecular Biology, Concepcion, Chile
Keynote Inaugural Lecture, Annual meeting of the Argentine Society of Research in Biochemistry and Molecular Biology, Tucuman, Argentina
- 2008 Hyman Niznik Memorial Keynote Lectureship, Annual Joint Meeting of the Great Lakes: G Protein-Coupled Receptor Retreat, Bromont, Canada
Merk Frosst Lecture, Institut de Recherches Cliniques de Montreal (IRCM), Montreal, Canada
R.M. Tiwari Oration, National Conference, Foundation for Head and Neck Oncology, Bhubaneswar, India
- 2007 Frank Brook Memorial Lecture, American Pancreatic Association, Chicago, IL
- 2006 Elected, Co-chair, Gordon Research Conference, "Phosphorylation & G-Protein Mediated Signaling Networks", 2008

2006 Miguel Aleman Lecture, Miguel Aleman Foundation, Mexico DF, Mexico
 2005 NIH Director's Award
 2005 Elliot Osserman Award, Israel Cancer Research Foundation
 2004 International Association of Dental Research (IADR) Distinguished Scientist Award, Oral Medicine and Pathology
 2003 NIH Hispanic Heritage Month Celebration: Hispanic Contributions to Research in the United States, Lecture
 2000 NIDCR Director's Exemplary Service Award
 1999 EEO Special Achievement Award, NIDCR, NIH
 1998 Appointment as member of the Senior Biomedical Research Services (SBRS)
 1997 NIDCR Director's Exemplary Service Award
 1996 NIH Merit Award
 1989 Funds for Young Scientists, Travel Award, Organizing Committee of the 7th International Conference on Protein Phosphorylation, Kobe, Japan
 1986 International Fogarty Fellowship, National Institutes of Health, USA
 1983 Gold Medal Award and Diploma of Honor, first rank student of the School of Pharmacy and Biochemistry, University of Buenos Aires, Argentina.

Editorial Responsibilities:

1998-2003 Member, Editorial Board, Journal of Biological Chemistry
 1998-2000 Editor, Book on Signaling Networks and Cell Cycle Control, Humana Press
 2000-2003 Co-Editor, Book on Head and Neck Cancer, Emerging Perspectives, Wiley & Co
 2000-2023 Member, Editorial Board, Oral Oncology
 2001-2011 Member, Editorial Board, Biochemistry
 2001-2006 Member, Editorial Board, Revista de Oncologia, Mexico-Spain
 2002-2003 Co-Editor, Book on Signal Transduction and Human Disease, Wiley & Co
 2002-2017 Member, Faculty 1000, Reviewing Editor
 2003-2005 Member, Editorial Board, Drug Discovery Today: Disease Mechanisms
 2005-2019 Member, Editorial Board, Molecular Biology of the Cell
 2008-present Member, Editorial Board, Cancer Prevention Research
 2009-2019 Member, Editorial Board, Molecular and Cellular Biology
 2009-2015 Member, Editorial Board, Genes & Cancer
 2010-2014 Member, Editorial Board, Journal of Biological Chemistry
 2012-present Member, Editorial Board, Science Signaling
 2013 Co-editor, Current Opinion in Cell Biology, Cell Regulation Issue
 2015-present Member, Editorial Advisory Board for Molecular Pharmacology
 2017-2018 Co-Editor, Journal of Dental Research, Oral Cancer Special Issue
 2023-present Member, Editorial Board, PNAS Nexus
 2023-present Special Section Guest Editor, Journal of Pharmacology and Experimental Therapeutics

Ad-hoc Reviewer:

Biochemical and Biophysical Acta; Blood; British Journal of Cancer; Cancer Cell; Cancer Research; Clinical Cancer Research; Cell; Cell Stem Cell; Cell Growth and Differentiation; Clinical Cancer Research; Current Biology; Developmental Cell; EMBO Journal; FEBS letters; Journal of Biological Chemistry; Journal of Cell Biology; Journal of Cell Physiology; Journal of Clinical Investigation; Journal of Immunology; Journal of Neurochemistry; Molecular and Cellular Biology; Molecular and Cellular Neurobiology; Molecular Cell; Molecular Pharmacology; Nature; Nature Cell Biology; Nature Communications; Nature Genetics; Nature Medicine; Oncogene; Oral

Oncology; Trends in Biological Science; Proceedings of the National Academy of Science, USA; Science, Science Signaling, Science Translational Medicine

Membership and Activity in Professional Societies:

Executive Committee Member, and Past Chair, Division of Molecular Pharmacology, American Society for Pharmacology and Experimental Therapeutics (ASPET)
American Association of Cancer Research (AACR)
American Society for Biochemistry and Molecular Biology (ASBMB)
International Association for Dental Research (IADR)
American Association for Dental Research (AADR)
Founding Member, International Academy of Oral Oncology (IAOO)
Association of Medical School Pharmacology Chairs (AMSPC)

Extramural Activities:

NIH Extramural and Professional Organizations

1997	Ad-hoc member, Program Project Review Panel, DER, NCI
1999-2000	Member, Grant Review Panel, Division of Basic Science, NCI
2002	Ad-hoc Member, NIH Study Section, CDF-4
2002	Co-chair, FY2004 NIDCR Initiatives, Head and Neck Cancer, Molecular Anatomy of Head and Neck Cancer: A Genomic/Proteomic Approach
2003-2004	Member AIDS Malignancies Consortium, NIH
2003	Member, Biological Pathways and Networks Group, NIH Road Map Initiative
2004-2007	Member, NIH extramural Study Section, NDT
2005	Member, NIGMS, Special Emphasis Review Panel
2005	Member, Review Panel NRSA-NIH, Fellowships: Molecular and Cellular Mechanisms
2007	Ad-hoc Member, NIH extramural Study Section, Intercellular Interactions (ICI)
2008	Ad-hoc Member, NIH extramural Study Section, Tumor Microenvironment (TME) Ad-hoc Member, NIH extramural Study Section, Molecular and Integrative Signal Transduction (MIST)
2008-2012	Member, NIH extramural Study Section, Tumor Microenvironment (TME)
2009	Member, NIH extramural Study Section, NIH Challenge Grants in Health and Science Research, American Recovery and Reinvestment Act of 2009
2010	Site Visit Review Panel, Laboratory of Biochemistry, Office of Biotechnology Products, Center for Biologics Evaluation and Research, FDA
2012	Reviewer, NIH extramural Study Section, Center for Scientific Review Special Emphasis Panel, Cancer Biology -2
2012	Reviewer, PREVENT Cancer Preclinical Drug Development Program, NCI
2013	Reviewer, NIH extramural Study Section, NCI Omnibus R03/R21 Grant Application Review, Cancer Biology-2
2013	Reviewer, NIH extramural Study Section, Special Emphasis Panel/Scientific Review Group Basic Translational (OBT)
2014	Participant, Center for Scientific Review's Pilot Study, evaluation of relative quality of grant applications, NIH
2014	Reviewer, NIH/NCI extramural Study Section, Center for Scientific Review Special Emphasis Panel/Scientific Review Group ZCA1 SRB-C R
2014	Reviewer, PREVENT Cancer Preclinical Drug Development Program, NCI
2015	Reviewer, NCI Outstanding Investigator Award (OIA)

2016 Reviewer, NIH Study Section, Basic Mechanisms of Cancer Therapeutics (BMCT)

2016 Reviewer, PREVENT Cancer Preclinical Drug Development Program, NCI

2016 Reviewer, NCI Special Emphasis Panel, PROGRAM PROJECT III (P01)

2017 Reviewer, NIH Study Section, Basic Mechanisms of Cancer Therapeutics (BMCT)

2017-2023 Member, NIH Study Section, Mechanisms of Cancer Therapeutics (MCT1)

2019 Board of Scientific Counselors (BSC) for the Division of Intramural Research (DIR) in the National Institute of Allergy and Infectious Diseases (NIAID), NIH, Bethesda, MD

2020 Chair, AACR Ocular Melanoma research Grants Scientific Review Committee

2020 Co-Chair, NCI CTEP program on AKT inhibitors for Cancer Treatment

2023-2028 Member, NCI Board of Scientific Counselors (BSC), NIH, Bethesda, MD

International

1996-present Reviewer, The Israel Science Foundation

1997-present Reviewer, Italian Association for Scientific Research

1997-2002 Reviewer, German-Israeli Foundation for Scientific Research & Development

1997-2006 Reviewer, National Science Foundation

1998-2001 Member, Cancer Genome Anatomy Program

1998-2004 Member, Reviewing Council, FONCYT, Argentina

2003-2005 Member Reviewing Panel, The Israel Cancer Research Foundation

2008-2017 Member Scientific Advisory Board, Max Planck Institute for Heart and Lung Research, Bad Nauheim, Germany, Germany

2009 Review Panel, Regional Collaborative Program SFB/TR23, Vascular Differentiation, and Remodeling, Mannheim, Germany

2010-2017 Comité Científico Asesor Externo de la Red Temática de Investigación Cooperativa en Cáncer (RTICC), Spain

2010-2012 Member Reviewing Panel, The Israel Cancer Research Foundation

2013 Review Panel, Regional Collaborative Program SFB/TR23, Vascular Differentiation, and Remodeling, Mannheim, Germany

2013 Site Visit Review, Foundation Leloir Institute, Buenos Aires, Argentina

2015 Site Visit Review, Life Sciences Center, McGill University, Montreal, Canada

2016 Site Visit Review, Foundation Leloir Institute, Buenos Aires, Argentina

2018 Review Panel, Collaborative Research Centre (CRC) 1366 "Vascular Control of Organ function", Mannheim, Germany

UCSD Institutional Committees

2015-present UC San Diego Moores Cancer Center, Executive Committee

2015-present UC San Diego Moores Cancer Center Shared Resources Oversight Committee (SROC)

2018-present Co-Chair, UC San Diego Moores Cancer Center, Pilot Grants Committee

2019-present Chair, UC San Diego Moores Cancer Center, Space Committee

2019-present SDSU/UCSD Partnership Program Steering Committee (PSC) Meeting

2020-present UC San Diego Biomedical Sciences Graduate Program Diversity Committee

2020-present Chair, UC San Diego Department of Pharmacology, Seminar Committee

2020-present UC San Diego Moores Cancer Center, Board Committee for Education, Mentorship and Fellowships

- 2021-2023 Chair, Frederick National Laboratory for Cancer Research (FNLCR), University of California Steering Committee
- 2022-present Ex Officio Committee Member, San Diego State University FUERTE Faculty Search, Cancer Disparity Research Area
- 2023-present UC San Diego, Program in Immunology Council

Invited Presentations (past 12 years and planned)

- 2024- ITMAT Kyoto University International Symposium, Kyoto, Japan (upcoming)
 Annual Meeting of the American Association for Dental, Oral and Craniofacial Research (AADOCR), New Orleans, LA (upcoming)
 Chair and Invited Talk, Major Symposium “Novel Immune Checkpoints: Beyond PD1 and CTLA4”, American Association for Cancer Reserch (AACR) Annual Meeting, San Diego, CA (upcoming)
 Lecture, The Herbert Wertheim UF Scripps Institute, Jupiter, FL (upcoming)
 Invited Speaker, Gordon Research Conference, Phosphorylation and G-Protein Mediated Signaling Networks, Waterville, NH (upcoming)
 Organizer and Invited Speaker, 2024 Fanconi Anemia Scientific Symposium, Charlotte, NC (upcoming)
 American Cancer Society (ACS)- Jiller Professor and Fellows Conference, Tucson, AZ (upcoming)
 Invited Speaker, 2024 FASEB Hippo Conference, Melbourne, FL (upcoming)
 Invited Speaker, Center for Cancer Immunotherapy and Immunobiology (CCII) Symposium, Kyoto University, Kyoto, Japan (upcoming)
- 2023- 1st Joint Israel-UCSD symposium on the Advances of Head & Neck Cancer, Tel Aviv, Israel
 Keynote Lecture, Gordon Research Conference, Salivary Glands and Exocrine Biology, Ventura, CA
 Distinguished Lecture, Wistar Institute, Philadelphia, PA
 Duke University, Durham, NC
 Invited Speaker, I-SCORE, National Cancer Institute, National Institutes of Health, Rockville, MD
 Department of Immunobiology, University of Arizona, Tucson, AZ
 18th Industry/Academia Next Generation Precisions Oncology Symposium, The Alexandria, La Jolla, CA
 Workshop on Cancer Immunotherapy –organized by Dr. Tasuku Honjo, Nobel prize winner, Les Treilles, France
 UCSF Helen Diller Family Comprehensive Cancer Center Seminar Series, San Francisco, CA
 Molecular Pharmacology, Gordon Conference, Les Diablerets, Switzerland
 Lecture, Dana-Farber Brigham Cancer Center, Boston, MA (virtual)
 UC Davis Keynote Lecture- Annual Cancer Center retreat, Pasadena, CA
 La Jolla Immunology Conference, La Jolla, CA
 International GCPR Retreat, Montebello, Canada
 20th International Congress, Society for Melanoma Research, Philadelphia, PA
- 2022- Weinman Symposium, University of Hawaii Cancer Center, Honolulu, Hawaii
 Association of Medical School Pharmacology Chairs (AMSPC) (virtual)
 Distinguished Speaker, January Seminar Series, Sanford Prebys Burnham Medical Discovery Institute, La Jolla, CA (virtual)

Keynote, New Frontier in RTK Signaling & Therapeutics, A Joint Cancer Signaling Networks and Developmental Therapeutics Retreat, Yale Cancer Center, New Haven, CT (virtual)
 Medical School Pharmacology Chairs (AMSPC) (virtual)
 Gordon Research Conference, Phosphorylation and G-Protein Mediated Signaling Networks, Southbridge, MA
 8th World Congress of the International Academy of Oral Oncology, Chicago, IL
 FASEB Meeting on GRKs and Arrestins, Jupiter, FL
 Translational Advances in Cancer Prevention Development (TACPAD), NIH/NCI (virtual)
 Multidisciplinary Head and Neck Cancer Care Conference and 5th New Horizons in Immunotherapy Conference, San Diego, CA
 18th Industry/Academia Next Generation Precisions Oncology Symposium, La Jolla, CA
 Delivering Discoveries: Updates in Cancer Care, Hyatt Regency, La Jolla, CA
 National Foundation for Cancer Research (NFCR), New Frontiers for Cancer Research, Washington DC
 2021- Translational Science Head & Neck Cancer Subcommittee, NRG Oncology (virtual)
 17th Industry/Academia Next Generation Precision Oncology Symposium, La Jolla, CA
 Delivering Discoveries: Updates in Oncology, CME meeting, La Jolla, CA
 Neuroscience and Pharmacology Department Seminar Series, University of Iowa, Iowa City, IA (virtual)
 Domain Therapeutics GPCR Symposium, France/Canada (virtual)
 2021 CRC1366 Vascular control of Organ function International Meeting, Heidelberg, Germany (virtual)
 2020- Sylvester Comprehensive Cancer Center, University of Miami Miller School of Medicine, Miami, FL
 The 11th Weinman Symposium, University of Hawaii Cancer Center, Honolulu, Hawaii
 Feist-Weiller Cancer Center Spring Seminar Series, Shreveport, LA
 Seminar series Universidad de San Martin, Buenos Aires, Argentina (virtual)
 Cedars-Sinai Grand Rounds Lecture Series, Los Angeles, CA (virtual)
 Tisch Cancer Center Institute, Mount Sinai School of Medicine, New York City, NY (virtual)
 Huntsman Cancer Institute, University of Utah, Salt Lake City, UT (virtual)
 PCB Seminar Series, UCSF, San Francisco, CA (virtual)
 2019- Keynote, German PharmTox Summit, Stuttgart, Germany
 Purdue University NCI Cancer Center, West Lafayette, IN
 Experimental Biology Symposium, Orlando, FL
 AACR Special Conference on “The Hippo Pathway, Signaling, Cancer, and Beyond”, San Diego, CA
 IADR Presidential Symposium, Vancouver, Canada
 AACR Think Tank on Combination Therapies, Washington DC
 Molecular Therapeutics of Cancer Center Conference, Tahoe resort, CA
 International Symposium on Pharmacology of 7TM-receptors and downstream signaling, UCSD
 Signaling Pathways, University of Bonn, Germany
 UT Health School of Dentistry, Houston, TX
 Baylor College of Medicine, Houston, TX

Boston University, Boston, MA
 NYU Langone Health, Perlmutter NCI-Designated Comprehensive Cancer Center, New York, NY
 Tohoku University Cancer Symposium, Sendai, Japan
 2018- Keystone Meeting on GPCRs. Santa Fe, NM
 Pathology Research Seminar Series at the Weill Cornell Medical College, NYC
 AACR Annual Meeting, Chicago, IL
 Experimental Biology Meeting, San Diego, CA
 Sidney Kimmel Cancer Center at Thomas Jefferson University, Philadelphia, PA
 Gordon Research Conference on "Phosphorylation and G-Protein Mediated Signaling Networks", University of New England, Biddeford, ME
 3rd New Horizons in Immunotherapy and Head and Neck Cancer, Pittsburgh, PA
 NIH Head & Neck/Thyroid SPORE Workshop, Rockville, MD
 AACR-LACOG Translational Cancer Medicine Conference, Sao Paulo, Brazil
 Fourth South American Spring Symposium in Signal Transduction and Molecular Medicine, SISTAM 2018, Bariloche, Argentina
 9th Xiamen Winter Symposium on the Hippo Signaling in Development & Disease, Xiamen, China
 British Pharmacological Society-Molecular Pharmacology of GPCRs meeting, Monash University, Parkville, Victoria, Australia
 2017- Keynote Speaker, 9th ÖGMBT Annual Meeting & 8th Life Science Meeting, Innsbruck, Austria
 Stanley S. Scott Cancer Center Invited Speaker Series, New Orleans, LA
 Loma Linda University, Loma Linda, CA
 IADR, International Association of Dental Research Annual Meeting, San Francisco, CA
 Symposium: "12 years SFB-TR23: From Vascular Differentiation and Remodeling to Organotypic Vasculature", Heidelberg, Germany
 AACR-Head and Neck Cancer Meeting, San Diego, CA
 G Protein Coupled Receptor Meeting, Boon, Germany
 VanTol symposium at the 18th annual joint meeting of the Great Lakes GPCR Retreat, Ottawa, Canada
 2016- UCSF Helen Diller Comprehensive Cancer Center Director's Seminar Series, San Francisco, CA
 Cancer Prevention Summit, American Association of Cancer Research (AACR), Leesburg, VA
 The Salk Post-Translational Regulation of Cell Signaling Meeting, La Jolla, CA
 Gordon Research Conference, Phosphorylation & G-Protein Mediated Signaling Networks, Biddeford, Maine
 MedImmune, Gaithersburg, MD
 3rd Annual Meeting of the International Ovarian in conjunction with International Symposium on Tumor Microenvironment & Therapy Resistance, Oklahoma City, OK
 International Symposium ROOTS Program, Winning The War Against Cancer, Buenos Aires, Argentina
 AAAS Annual Meeting. Session on Oral Cancer Epidemiology, Mechanism, and Early detection. Washington DC
 Global Cancer Forum, New York City, NY
 Experimental Biology, ASPET Symposium on GPCR signaling through Rho GTPases, San Diego, CA

- Society of Clinical Investigation & Society of Pharmacology, joint Annual Meeting. Mar Del Plata, Argentina.
- 2015- Bioquant and University of Heidelberg, Heidelberg, Germany
 American Association of Cancer Research (AACR), Philadelphia, PA
 American Society of Clinical Oncology (ASCO), Chicago, IL
 Cancer Prevention Think Tank, National Cancer Institute, Bethesda, MD
 Keynote Lecture, ASPET Upstate New York Pharmacology Society 4th Annual Meeting, Rochester, NY
 UNC Lineberger Comprehensive Cancer Center's Seminar Series, University of North Carolina (UNC), Chapel Hill, NC
 The Second South American Spring Symposium in Signal Transduction and Molecular Medicine, SISTAM 2015, Argentina
 The Dean's Biomedical Research Seminar, Virginia Commonwealth University, Richmond, VA
 University of Virginia, Charlottesville, VA
 University of California Los Angeles (UCLA), Vascular Biology Lecture, LA, CA
 UCSD Moores Cancer Center, San Diego, CA
- 2014- Gordon Research Conference, "Molecular Pharmacology", Ventura, CA
 Great Lakes GPCR Retreat, Bromont, Canada, upcoming.
 Keynote Lecture, 2014 American Head and Neck Society (AHNS) Annual Meeting and 5th World Congress-IFHNOS
 Clinical Grand Rounds, Division of Cancer Medicine, MD Anderson Cancer Center, Houston, TX
 UCSD Moores Cancer Center, San Diego, CA
 Keynote Speaker, Dental Research in Review, University of North Carolina, Chapel Hill, NC
 Distinguished Lecture Series at Massachusetts Eye and Ear Infirmary/Schepens Eye Research Institute, Harvard University, MA
 Mini-Symposium, Cancer Biology, Medical School, University of Chile, Chile
 Summer Course, Cancer Biology: From Basic to Clinic, University of Concepcion, Chile
 IVMB, The 18th International Vascular Biology Meeting, Kyoto, Japan
 West China School of Stomatology, Sichuan University, Chengdu, China
 Leuven University, Leuven, Belgium
 Maastricht University, Netherlands
- 2013- University of Pittsburgh Cancer Institute, Hillman Cancer Center, Pittsburgh, PA
 The Weizmann Institute of Science, Israel
 PABMB (Pan-American Association for Biochemistry and Molecular Biology)
 Plenary Lecture, Madrid, Spain
 Annual Meeting, American Society for Biochemistry and Molecular Biology, ASBMB, Boston, MA
 West China School of Stomatology, Sichuan University, Chengdu, China
 GPCR Workshop, Maui, Hawaii
 UC Berkeley, San Francisco, CA
- 2012- Ocular Melanoma Workshop, Melanoma Society, Philadelphia, PA
 Keystone Meeting, G Protein-Coupled Receptors: Molecular Mechanisms and Novel Functional Insights, Alberta, Canada
 NIH 2012 Demystifying Medicine Course, NIH, Bethesda, MD
 Gordon Research Conference, Phosphorylation & G-Protein Mediated Signaling Networks, Biddeford, Maine
 First Symposium on Head and Neck Cancer Stem Cells, Ann Arbor, MI

8th International Conference on Head & Neck Cancer, Toronto
 NIH Clinical Center Grand Rounds
 The Second South American Spring Symposium in Signal Transduction and
 Molecular Medicine, SISTAM 2012, Argentina
 University of Sydney, Sydney, Australia
 Australian Health & Medical Research Congress, Adelaide, Australia
 Centro de Investigacion del Cancer IBMSS, Salamanca, Spain

Symposia Organized:

- 1995 Workshop on Signaling through G proteins, NIH
- 1996 Workshop on Signal Transduction from the Membrane to the Nucleus, NIH
- 1996 Third Annual Signal Transduction Therapy Conference, San Diego, California
- 1996 Symposium on Regulation of Protein Kinases Involved in Cell Division, Congress of the Pan American Association of Biochemistry and Molecular Biology, Pucon, Chile
- 1998 Workshop on G proteins, 10th International Conference on Second Messengers & Phosphoproteins, Jerusalem, Israel
- 1999 Workshop on "Head and Neck Cancer Priority Setting", organizing committee, NIH
- 1999 Keystone Winter Symposia, "Oncogene Networks" and Session on "Cell Surface Receptors"
- 2002 Workshop on Exchange factors, Juan March Foundation, Madrid, Spain
- 2002 Symposium, Frontiers in Molecular Mechanisms in Cancer, Strategies and Application, Santander, Spain
- 2002 NCI, NIDCD, NIDCR, Trans-NIH Squamous Carcinogenesis Retreat
- 2002 International Oral Cancer Tissue Array Initiative, Organizing Meeting, NIDCR
- 2004 Tva-Animal Models Meeting, Bethesda, MD
- 2005 Advisory Organizing Committee, 10th International Congress on Oral Cancer (ICOOC), Crete, Greece
- 2006 "Oral Cancer", Naresuan University, Phitsanulok, Thailand
- 2006 Organizing Committee, "Workshop on Biology and Treatment of Malignant Salivary Gland Cancers", NIH, Bethesda, MD
- 2006 Elected, Co-chair, Gordon Research Conference, "Phosphorylation & G-Protein Mediated Signaling Networks", 2008
- 2007 Advisory Committee, International Association of Oral Oncology, 1st World Congress, Amsterdam
- 2008 Co-chair, Gordon Research Conference, "Phosphorylation & G-Protein Mediated Signaling Networks", Biddeford, Maine
- 2008 Organizing Committee, International Conference on Frontiers of Dental and Craniofacial Research, Beijing, China.
- 2008 Program Committee, 7th International Conference on Head and Neck Cancer, San Francisco, CA.
- 2008 Program Committee, Workshop on Salivary Gland Tumor Research: Current Status and Future Directions. Bethesda, MD.
- 2009 Scientific Advisory Committee, International Oral Oncology Meeting, Toronto, Canada.
- 2010 Co-Organizer, The First South American Spring Symposium in Signal Transduction and Molecular Medicine, SISTAM 2010, Cordoba, Argentina
- 2011 Scientific Advisory Committee, Cell Signaling Networks 2011, Merida, Yucatan, Mexico

- 2012 Program Organizing Committee, Workshop on salivary Gland Tumor Research: Current Status and Future Directions, Bethesda
- 2012 Co-Organizer, The Second South American Spring Symposium in Signal Transduction and Molecular Medicine, SISTAM 2012, Argentina
- 2015 Co-Organizer, The Third South American Spring Symposium in Signal Transduction and Molecular Medicine, SISTAM 2015, Argentina
- 2016 Co-Organizer, Global Cancer Forum, New York City, NY, 2016
- 2016 Co-organizer, Symposium on Cancer Stem Cells as Pharmacological Targets, ASPET/EB Annual Meeting, San Diego, 2016
- 2017 Co-Organizer, AACR-AHNS Conference on Head and Neck Cancer, San Diego, CA
- 2017 Organizer, UCSD Moores Cancer Center Science Retreat, La Jolla, CA
- 2018 Co-Organizer, Fourth South American Spring Symposium in Signal Transduction and Molecular Medicine, SISTAM 2018, Bariloche, Argentina
- 2018 Co-organizer, Symposium on G Proteins and GPCRs in Cancer, ASPET/EB Annual Meeting, San Diego, CA
- 2018 Organizer, UCSD Moores Cancer Center Science Retreat, La Jolla, CA
- 2019 Elected Co-Chair, Gordon Conference in Molecular Pharmacology, Ventura CA
- 2019 Organizer, UCSD Moores Cancer Center Science Retreat, La Jolla, CA
- 2020 Organizer, UCSD Moores Cancer Center Science Retreat, La Jolla, CA
- 2021 Organizer, UCSD Moores Cancer Center Science Retreat, La Jolla, CA
- 2022 Delivering Discoveries: Updates in Oncology, CME meeting, La Jolla, CA
- 2022 Advances in Immuno-oncology Research, 8th Annual C3 Symposium, NCI-Designated Cancer Centers San Diego, CA
- 2022 Delivering Discoveries: Updates in Cancer Care, Hyatt Regency, La Jolla, CA
- 2022 Organizer, UCSD Moores Cancer Center Science Retreat, La Jolla, CA
- 2023 GPCR Symposium: From Structure to Biology in Health and Disease Celebrating Discoveries, Department of Pharmacology, UCSD, La Jolla, CA
- 2023 Co-Organizer, Molecular Pharmacology, Gordon Conference, Les Diablerets, Switzerland
- 2023 Organizer, UCSD Moores Cancer Center Science Retreat, La Jolla, CA
- 2024 Co-Organizer, 2024 Fanconi Anemia Scientific Symposium, Charlotte, NC (upcoming)
- 2024 Organizer, UCSD Moores Cancer Center Science Retreat, La Jolla, CA (upcoming)
- 2025 Chair, Gordon Research Conference, Molecular Pharmacology, Ventura Beach, CA (upcoming)

Funding and Support

Current Research Support

2R01DE026644

(MPI Gutkind/Lippman)

07/01/2022-03/31/2027

NIH/NIDCR

Targeting Signaling Vulnerabilities for Oral Cancer Prevention

The major goals of this project are to discover novel genomic markers of response and resistance to metformin in oral premalignancy, to test the influence of bioenergetic pathways involving LKB1/AMPK, and mTOR and YAP inhibition in the activity of metformin, and to apply genetic screens to identify novel molecular mechanisms determining response or resistance to metformin.

Role: MPI

U01CA290479 (MPI Alexandrov/Gutkind/Lippman) 09/01/2023-08/31/2028
NIH/NCI
Mapping immuno-genomic drivers of the head and neck precancer invasive-disease transition
The overall goal will be to elucidate the molecular and immune mechanisms by which OLs progress to OSCCs, and to develop actionable predictive biomarkers

R01CA247551 (MPI Gutkind/Cohen) 12/01/2019-11/30/2024
NIH/NCI
Co-targeting the HER3 oncogenic signaling circuitry and PD-1 as a novel multimodal precision immunotherapy for HNSCC
The goals of this project are to elucidate the contribution of genomic alterations in the PI3K-mTOR signaling network to anti-HER3 sensitivity and resistance, and to establish the impact of targeting and co-targeting the HER3-PI3K/mTOR signaling network on the tumor immune microenvironment and response to PD-1 blockade, aiming at achieving a single cell level understanding of the anti-cancer immune response. These studies will inform the molecular stratification for patient selection in future multimodal precision immune oncology trials.
Role: MPI

R01CA257505 (MPI Gutkind/Aplin) 04/01/2021-03/31/2026
NIH/NCI
Targeting Systems Vulnerabilities in the Gαq/GNAQ Oncogenic Signaling Circuitry: New Precision Therapies for Uveal Melanoma
The goals of this project are to exploit GNAQ-synthetic lethal and gene interaction networks to expose systems vulnerabilities resulting in UM cell death as a precision therapeutic approach to treat mUM. We aim at revealing novel oncogenic mechanism controlled by Gαq and how the interplay between classical and non-canonical Gαq signaling contributes to aberrant cell growth, to help identify novel multimodal precision therapies for mUM.
Role: MPI

R01DE030497 (MPI Zhang/Gutkind) 04/01/2021-03/31/2026
NIH/NIDCR
Signal Transduction by PI3K/mTOR
The overall goal is to uncover the molecular and cellular mechanisms by which mTOR signaling is spatially regulated and to elucidate the contribution of subcellular mTOR Complex 1 (mTORC1) signaling to tumorigenesis.
Role: MPI

CRI3792 (PI Gutkind) 07/01/2021-12/31/2024
Cancer Research Institute
Precision immune-oncology therapy targeting HER3-PI3K/mTOR and PD-1 in HNSCC
The project aims to employ several innovative techniques with single-cell level resolution to study the tumor-intrinsic effects of targeted HER3 blockade and how these changes ultimately invigorate and synergize with immunotherapies.
Role: PI

R25CA221779 (MPI Gutkind/Sadler) 09/01/2019-08/31/2024
NIH/NCI
Multidisciplinary Educational Approach to Reducing Cancer Disparities
San Diego's three NCI-designated Cancer Centers are collaborating in this Youth Enjoy Science Research Education (YES) Program. The Program is an intensive, long term, laboratory and

community-based learning opportunity for UCSD students who are from communities that are underrepresented in cancer-related health and science careers. To gain mastery of their knowledge and skills in cancer disparities research, the student participants will be matched with a faculty mentor who will give them hands-on experiences in cancer-related research. Students will also engage in a community-based cancer education campaign about cancer control, cancer disparities, and clinical trials.

Role: MPI

W81XWH2110821 (MPI Gutkind/Aplin/Aguirre/Ghiso) 09/01/2021-08/31/2024

DoD, Department of Defense

Multimodal GNAQ signaling-precision therapy for metastatic uveal melanoma prevention and treatment

The project aims to employ GNAQ-synthetic lethal and gene interaction networks to develop precision therapies to treat mUM patients and to target YAP with metformin as a novel chemopreventive approach to halt the onset of fulminant mUM.

Role: MPI

MRA827624 (PI Gutkind) 08/01/2021-07/31/2024

Melanoma Research Alliance

Multimodal GNAQ signaling-targeted precision therapy approach for MUM

The project aims to provide a precision therapeutic approach for mUM treatment and the underlying pro-apoptotic mechanisms.

Role: PI

Stand Up to Cancer (SU2C) (PI Smogorzewska and Burtness) 08/01/2021-07/31/2024

Precision Therapy for Fanconi Anemia (FA) and HPV-related Head & Neck Cancer

Role: Co-PI

U54CA274502 (MPI Krogan/Ideker) 09/2022-08/2027

NIH/NCI

The CCMI will seek to: (1) Generate comprehensive protein interaction networks centered on key cancer driver genes in lung squamous cells (in healthy and diseased states) as well as the PIK3CA and TP53 pathways, which are central to many tumor types; (2) Systematically extend the CCMI collection of cancer protein interaction data with protein immunofluorescent imaging and cryo-electron microscopy to formulate multi-scale cancer cell maps; (3) Dissect the functional logic of these networks and maps by systematic genetic screening experiments in the same tumor types and pathways, using a panel of scalable cell proliferation, phenotype and pathway readouts; (4) Significantly advance and harden our DrugCell interpretable deep learning system for cancer precision medicine; (5) Train the current and next generation of scientists in network biology and its applications to cancer research; and (6) Continue to build a cadre of leading investigators to expand CCMI into a global coordinated partnership.

Role: Co-Investigator

Recently Completed Grant Support:

R01CA221289 (PI Tesmer) 04/01/18 - 03/31/2023

NIH/NCI

Experimental study of the structural determinants of the activation of G protein-linked RhoGEFs in cells in vivo, and the contribution of G protein-regulated RhoGEFs in cancer in terms of signaling circuitries alterations, tumorigenic activity, and metastatic potential.

Role: Co-Investigator

U01DE028227 (MPI Schoenberger/Gutkind/Rao) 09/01/2018-08/31/2023
NIH/NCI-NIDCR Cancer Moonshot Program
Stimulating Neo-Antigen Specific T Cell Responses in Head and Neck Cancers.
The goals of this project is to study experimentally the tumor-T cell ecosystem in head and neck squamous cell carcinoma (HNSCC), and will exploit the emerging information to develop novel approaches to enhance the anti-tumor immune response, resulting in tumor regression (cure).
Role: MPI

R01DE026870 (PI Gutkind) 08/01/2018-07/31/2023
NIH/NIDCR
Targeting the EGFR-PI3K/mTOR Signaling Circuitry: A Network-Based Approach for Oral Cancer Precision Therapy
The goals of this project are to identify novel systems vulnerabilities cetuximab and PI3K/mTORi sensitization and the impact of targeting this pathway on the tumor and immune microenvironment.
Role: PI

U54CA209891 (MPI Krogan/Ideker) 05/11/2017-4/30/2022
NIH/NCI
The Cancer Cell Map Initiative, a National Research Center for Cancer Systems Biology
The aim of the Cancer Cell Map Initiative is to apply systematic approaches to comprehensively map the molecular networks that underlie cancer and to use these maps as a key resource for precision medicine.
Role: Co-Investigator

R33CA225291 (PI Gutkind) 06/05/2018-08/31/2020
NIH/NCI
Area C: Genome-wide identification and targeting of resistance to cancer therapy.
This project aims to establish a new genome wide approach for identifying and targeting resistance pathways in cancer and experimentally test and study its applications in specific cancer types, including breast cancer, colon cancer, head and neck and melanoma.
Role: PI

The laboratory was funded from 1996-2015 by the NIDCR Intramural Research Program, NIH.

- Project Z01DE00551, Molecular Mechanisms of Growth Control and Carcinogenesis
- Project Z01DE00558, Oral Carcinogenesis

2016 PEDAL15 Research Grant Award, Pedal the Cause. The GNAS-PKA Onco-Signaling Network in Colorectal Malignancies

2015 Million Dollar Bike Ride Pilot Grant, University of Pennsylvania Orphan Disease Center. Development of next-gen animal models for fibrous dysplasia (FD)/McCune-Albright syndrome (MAS)

2004-2015 Intramural AIDS Targeted Antiviral Program (IATAP)

Study of AIDS-associated malignancies, with emphasis on Kaposi's Sarcoma and HPV+ cancers

American Asthma Foundation (GPCR-trafficking and tachyphylaxis)

Human Science Frontier Program (Clonogenic cooperation in cancer)

Clinical Protocols

- NCT05237969, M4OC-Prevent 2.0: Phase IIb Trial of Metformin for Oral Cancer Prevention. UCSD Moores Cancer Center.
PI: Scott Lippman and J.S Gutkind, Ongoing.
- NCT02581137, Metformin for Oral Cancer Prevention (M4OC-Prevent). UCSD Moores Cancer Center.
PI: Scott Lippman; Gutkind J.S., Co-Lead. Completed, 2019.
- NCT01195922, A Pilot Trial Targeting mTOR as a Novel Mechanism-Based Neoadjuvant Therapy for Head and Neck Cancer. NIDCR/NCI/NIDCD/MUSC.
PI: Gutkind J.S. 2011. Completed, 2018.
- 14CN018. Pilot Study to Evaluate the Natural History of Head and Neck Cancer Precursors in Taiwan. NCI/NIDCR, 2014.
PI: Anil Chaturvedi. Open.
- T-D-0024, The Molecular Anatomy of Oral Wound Healing. NIDCR.
PI: Gutkind J.S. 2010. Completed, 2014.

Invention Reports and Patents:

- U.S. Patent 5,384,243, issued January 24, 1995. J. Silvio Gutkind and Keith C. Robbins: Method for screening an agent for its ability to prevent cell transformation.
- NIH Ref No. E-302-2008, Chemoprevention of Head And Neck Squamous Cell Carcinomas. US Patent Application No. 13/059,335 filed August 20, 2009. Canadian Patent Application No. 2734828 filed August 20, 2009. European Patent Application No. 09791732.2 filed August 20, 2009
- NIH Ref No. E-282-2009, Sustained Release Delivery Systems for the Prevention and Treatment of Head and Neck Cancers. International Patent Application No. PCT/IL2010/000694 filed August 25, 2010
- U.S. Patent 9,151,762, issued October 6, 2015. J. Silvio Gutkind, Vyomesh Patel, Alfredo Molinolo, Timothy D. Veenstra. Identification of DSG3 as a Biomarker for the Detection of Metastasis in Lymph Nodes.
- U.S. Patent 9,278,090, issued March 8, 2016. J. Silvio Gutkind, Ramiro Iglesias-Bartolome, Vyomesh Patel, Ana p. Cotrim, Alfredo Molinolo, and James B. Mitchell. Methods of preventing the development of mucositis and related disorders.
- U.S. Application serial No. 62/832,425, filed on April 11, 2019. J. Silvio Gutkind, David Schlaepfer. New Anticancer Treatment for Uveal Melanoma.
- US San Diego Office of Innovation and Commercialization, Case No. SD2020-164, filed on October 21, 2019. J. Silvio Gutkind, Zhiyong Wang. New Multimodality Precision Immunotherapy for Head and Neck Cancer.
- U.S. Application serial No. 62/929,061, filed on October 31, 2019. J. Silvio Gutkind, Zhiyong Wang. Novel Syngeneic Animal Model of Tobacco-Associated Oral Cancer Reveals the Activity of in Sity Anti-CTLA-4.

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- Toshinori Ando, D.D.S, Ph.D., 2017-2020, Assistant Professor, Center for Oral Clinical Examination, Hiroshima University, Hiroshima, Japan.
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Bibliography [Author=(Gutkind J* OR Gutkind S*)]. [PubMed](#)

Total 574 publications: 484 peer-reviewed studies, 54 review articles, 36 book chapters, with >75,300 citations and an H index of 143 [\[Google Scholar\]](#)

Selected publications, signal transduction research:

1. Crespo P, Xu N, Simonds WF, and Gutkind JS. Ras-dependent activation of MAP kinase pathway mediated by G-protein $\beta\gamma$ subunits. *Nature*, **369**:418-420, 1994.
2. Coso O, Chiariello M, Yu J-C, Crespo P, Teramoto, H, Xu N, Miki T, and Gutkind JS. The small GTP-binding proteins Rac1 and Cdc42 regulate the activity of the JNK (SAPK) signaling pathway. *Cell*, **81**:1137-1148, 1995.

3. Lopez-Illasaca M, Crespo P, Pellici PG, Gutkind JS^{*}, and Wetzker R. Linkage of G protein-coupled receptors to the MAPK signaling pathway through PI 3-kinase γ . *Science*, **275**:394-397, 1997.
4. Crespo P, Schuebel KE, Ostrom AA, Gutkind JS, and Bustelo XR. Phosphotyrosine-dependent activation of Rac-1 GDP/GTP exchange by the *vav* proto-oncogene product. *Nature*, **385**:169-172, 1997.
5. Chiariello M, Marinissen MJ, and Gutkind JS. Regulation of *c-myc* expression by PDGF through Rho GTPases. *Nature Cell Biol.*, **3**:580-586, 2001.
6. Montaner S, Sodhi A, Molinolo AA, Bugge TH, Sawai ET, He Y, Li Y, Ray PE, and Gutkind JS. Endothelial infection with KSHV genes in vivo reveals that vGPCR initiates Kaposi's sarcomagenesis and can promote the tumorigenic potential of viral latent genes. *Cancer Cell*, **3**:23-36, 2003.
7. Castellone MD, Teramoto H, Williams BO, Druey KM, and Gutkind JS. Prostaglandin E2 promotes colon cancer cell growth through a novel Gs-axin- β -catenin signaling axis. *Science*, **310**:1504-1510, 2005.
8. Martin D, Galisteo R, Molinolo AA, Wetzker R, Hirsch E, and Gutkind JS. PI3K γ mediates Kaposi's sarcoma-associated herpesvirus vGPCR-induced sarcomagenesis. *Cancer Cell*, **19**: 805-813, 2011.
9. Yagi H, Tan W, Dillenburg-Pilla P, Armando S, Amornphimoltham P, Simaan M, Weigert R, Molinolo AA, Bouvier M, and Gutkind JS. A synthetic biology approach reveals a CXCR4-G13-Rho signaling axis driving transendothelial migration of metastatic breast cancer cells. *Science Signaling*, **4**: ra60, 2011.
10. Vaqué JP, Dorsam RT, Feng X, Iglesias-Bartolome R, Forsthoefel DJ, Chen Q, Debant A, Seeger MA, Ksander BR, Teramoto H, Gutkind JS. A genome-wide RNAi screen reveals a Trio-regulated Rho GTPase circuitry transducing GPCR-initiated mitogenic signals. *Molecular Cell*, **49**:94-108, 2013.
11. O'Hayre M, Vázquez-Prado J, Kufareva I, Stawiski EW, Handel T, Seshagiri S, and Gutkind JS. The emerging mutational landscape of G-proteins and G-protein-coupled receptors in cancer. (Analysis) *Nature Reviews Cancer* **13**(6):412-424, 2013.
12. Feng K, Degese MS, Iglesias-Bartolome R, Vaque JP, Molinolo AA, Rodrigues M, Zaidi MR, Ksander BR, Merlino M, Sodhi A, Chen Q, and Gutkind JS. Hippo-independent activation of YAP by the GNAQ uveal melanoma oncogene through a Trio-regulated Rho GTPase signaling circuitry. *Cancer Cell*, **25**:831-845, 2014.
13. Iglesias-Bartolome R, Torres D, Marone R, Feng X, Martin D, Simaan M, Chen M, Weinstein LS, Taylor SS, Molinolo AA, and Gutkind JS., Inactivation of a Gas-PKA tumor suppressor pathway in skin stem cells initiates basal-cell carcinogenesis. *Nature Cell Biol.*, **17**:793-803, 2015.
14. O'Hayre M, Eichel K, Avino S, Zhao X, Steffen DJ, Feng X, Kawakami K, Aoki J, Messer K, Sunahara R, Inoue A, von Zastrow M, and Gutkind JS. Genetic evidence that β -arrestins are dispensable for the initiation of β 2-adrenergic receptor signaling to ERK. *Science Signaling*. **10**(484) pii: eaal3395, 2017.
15. Martin D, Degese MS, Vitale-Cross L, Iglesias-Bartolome R, Callejas Valera JL, Wang Z, Feng X, Yeerna H, Vadmal V, Moroishi T, Thorne R, Zaida M, Siegele B, Cheong SC, Molinolo AA, Samuels Y, Tamayo P, Guan KL, Lippman SM, Lyons JG, Gutkind JS. Assembly and Activation of the Hippo Signalome by the FAT1 Tumor Suppressor. *Nature Comm.*, **9**:2372, 2018.
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1. Amornphimoltham P, Patel V, Sodhi A, Nikitakis NG, Sauk JJ, Sausville EA, Molinolo AA, and Gutkind JS. mTOR, a molecular target in squamous cell carcinomas of the head and neck. *Cancer Research*, **65**:9953-9961, 2005.
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