***Curriculum vitae***

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| **Date Prepared:** | October 3, 2025 |
| **Name and Titles:** | Ralph J. DeBerardinis, M.D. Ph.DInvestigator, Howard Hughes Medical InstituteProfessor and Director, Eugene McDermott Center for Human Growth and Development at UT Southwestern Medical CenterProfessor, Children’s Medical Center Research Institute Director, Genetic and Metabolic Disease ProgramEugene McDermott Distinguished Chair for the Study of Human Growth and DevelopmentPhilip O’Bryan Montgomery, Jr., M.D. Distinguished Chair in Developmental BiologyRobert L. Moody, Sr. Faculty ScholarSowell Family Scholar in Medical Research  |
| **Office Address:** | 5323 Harry Hines Blvd.Room NL11.138BDallas, Texas 75390-8502 |
| **Work Phone:**  | 214-648-2587 |
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| **Work Fax:** | 214-648-5517 |
| **Place of Birth:** | Chester, Pennsylvania |

**Education**

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| --- | --- | --- | --- |
| Year | Degree(Honors) | Field of Study(Thesis advisor for PhDs) | Institution |
| 1992 | B.S. Summa cum laude | Biology | St. Joseph’s University |
| 1998 | Ph.D. | Cell and Molecular Biology,(Haig H. Kazazian, Jr. M.D.) | University of Pennsylvania |
| 2000 | M.D. | Medicine | University of Pennsylvania |

**Postdoctoral Training**

|  |  |  |  |
| --- | --- | --- | --- |
| Year(s) | Titles | Specialty/Discipline(Lab PI for postdoc research) | Institution |
| 2000-2005 | Residency | Pediatrics | Children’s Hospital of Philadelphia |
| 2000-2005 | Residency | Medical Genetics | Children’s Hospital of Philadelphia |
| 2006-2007 | Fellowship | Clinical Biochemical Genetics | Children’s Hospital of Philadelphia |
| 2004-2007 | Post-doc | Cancer Biology(Craig Thompson, M.D.) | University of Pennsylvania |

**Faculty Academic Appointments**

|  |  |  |  |
| --- | --- | --- | --- |
| Year(s) | Academic Title | Department | Academic Institution |
| 2005-2007 | Instructor | Pediatrics | University of Pennsylvania |
| 2008-2012 | Assistant Professor (primary) | Pediatrics | University of Texas Southwestern Medical Center |
| 2008-2013 | Assistant Professor (secondary) | Eugene McDermott Center for Human Growth and Development | University of Texas Southwestern Medical Center |
| 2012 – 2013  | Assistant Professor (primary) | Children’s Medical Center Research Institute | University of Texas Southwestern Medical Center |
| 2012-2013 | Assistant Professor (secondary) | Pediatrics | University of Texas Southwestern Medical Center |
| 2013 – 2017 | Associate Professor (primary) | Children’s Medical Center Research Institute | University of Texas Southwestern Medical Center |
| 2013 – 2017 | Associate Professor (secondary) | Department of Pediatrics | University of Texas Southwestern Medical Center |
| 2013 – 2017 | Associate Professor (secondary) | Eugene McDermott Center for Human Growth and Development | University of Texas Southwestern Medical Center |
| 2017 - 2024 | Professor (primary) | Children’s Medical Center Research Institute | University of Texas Southwestern Medical Center |
| 2017 - present | Professor (secondary) | Department of Pediatrics | University of Texas Southwestern Medical Center |
| 2017 - 2024 | Professor (secondary) | Eugene McDermott Center for Human Growth and Development | University of Texas Southwestern Medical Center |
| 2018 – present | Investigator |  | Howard Hughes Medical Institute |
| 2024 - present | Professor (primary) | Eugene McDermott Center for Human Growth and Development | University of Texas Southwestern Medical Center |
| 2024 - present | Professor (secondary) | Children’s Medical Center Research Institute | University of Texas Southwestern Medical Center |

**Current Licensure and Certification**

Licensure

Medical License, Pennsylvania (expired)

Medical License, Texas (active)

Board and Other Certification

American Board of Pediatrics (2004)

American Board of Medical Genetics, Clinical Genetics (2005-2015)

American Board of Medical Genetics, Clinical Biochemical Genetics (2007-present)

**Honors and Awards**

|  |  |  |
| --- | --- | --- |
| Year | Name of Honor/Award | Awarding Organization |
| 1992 | University Scholar  | St. Joseph’s University |
| 1992 | Dean’s Award for Highest Graduating GPA | St. Joseph’s University |
| 1992 | Louis Marks Biological Studies Award | St. Joseph’s University |
| 1992 | Alumni Association Award | St. Joseph’s University |
| 1994-2000 | Franklin Scholar | University of Pennsylvania |
| 1999 | Roy G. Williams Award for Research in Basic Medical Sciences | University of Pennsylvania |
| 2001 | Seymour Warshaw Distinguished First Year Resident Award | Children’s Hospital of Philadelphia |
| 2003 | Residency Graduation Address | Children’s Hospital of Philadelphia |
| 2003 | Senior Resident Clinician Award | Children’s Hospital of Philadelphia |
| 2004 | Medical Genetics T32 Award | University of Pennsylvania |
| 2004-2008 | Loan Repayment Program | National Institutes of Health |
| 2005 | Pediatric Scholars Program (K12) | Children’s Hospital of Philadelphia |
| 2007 | Faculty Honor Roll | Children’s Hospital of Philadelphia |
| 2008 | Travel Award | Society for Inherited Metabolic Disorders |
| 2008 | Neil Buist Award for the best presentation by a trainee at the annual meeting | Society for Inherited Metabolic Disorders |
| 2008 | William K. Bowes, Jr. Award in Medical Genetics | Harvard-Partners Center for Genetics and Genomics |
| 2008 | President’s Research Council Distinguished Young Researcher Award | University of Texas Southwestern Medical Center |
| 2008 | Sowell Family Scholar in Medical Research  | University of Texas Southwestern Medical Center |
| 2010 | Address to Oversight Committee of Cancer Prevention and Research Institute of Texas (CPRIT) | Cancer Prevention and Research Institute of Texas |
| 2011 | Clinical Investigator Award | Damon Runyon Cancer Research Foundation |
| 2012 | Research Mentor Award | Children’s Medical Center – Dallas  |
| 2012 | Keynote Address to Graduate Student Organization (elected by students) | University of Texas Southwestern Medical Center |
| 2013 | Elected to the American Society for Clinical Investigation | American Society for Clinical Investigation |
| 2013 | Joel B. Steinberg, M.D. Chair in Pediatrics (converted to Distinguished Chair in 2021) | University of Texas Southwestern Medical Center |
| 2014 | Invited by Penn Combined-Degree Students to present annual lecture | University of Pennsylvania Medical Scientist Training Program |
| 2015 | Chairperson, Metabolism and Cancer Section, 2016 American Association for Cancer Research Program Committee | American Association for Cancer Research |
| 2016 | Faculty Scholar | Howard Hughes Medical Institute |
| 2016, 2018, 2019 – 2022  | Named to “Best Doctors and Pediatric Specialists in Dallas.” | *D* Magazine |
| 2017 | Outstanding Investigator Award | National Cancer Institute |
| 2017 | Robert L. Moody, Sr. Faculty Scholar | Moody Foundation and Children’s Research Institute |
| 2018 | Investigator | Howard Hughes Medical Institute |
| 2019 | Edith and Peter O’Donnell Award in Medicine  | The Academy of Medicine, Engineering and Science of Texas (TAMEST) |
| 2019 | Post-doctoral mentorship award | University of Texas Southwestern Medical Center |
| 2020 | Elected to the Association of American Physicians | Association of American Physicians |
| 2020 | Elected to the National Academy of Medicine | National Academy of Medicine |
| 2021 | Member, TAMEST  | The Academy of Medicine, Engineering and Science of Texas (TAMEST) |
| 2021 | Paul Marks Prize for Cancer Research | Memorial Sloan Kettering Cancer Center |
| 2023 | Outstanding Investigator Award | National Cancer Institute |
| 2025 | Pioneer in Metabolism Award | University of Massachusetts Metabolic Network |
| 2025 | William J. Larsen Lecturer | University of Cincinnati |

**Appointments at Hospitals/Affiliated Institutions**

|  |
| --- |
| Past |
| Year(s) | Position Title | Department/Division | Institution |
| 2005-2007 | Attending Physician | Pediatrics/Biochemical Genetics | Children’s Hospital of Philadelphia |
| Current |
| Year(s) | Position Title | Department/Division | Institution |
| 2008-present | Attending Physician | Pediatric Genetics & Metabolism | Children’s Helath – Dallas  |

**Other Professional Positions**

|  |  |  |
| --- | --- | --- |
| Year(s) | Position Title | Institution |
| None |  |  |

**Major Administrative/Leadership Positions**

|  |  |  |
| --- | --- | --- |
| Year(s) | Position Title | Institution |
| 2011 – 2014  | Director, Medical Genetics Residency Program | University of Texas Southwestern Medical Center |
| 2013 – 2014 | Assistant Director, Genetics T32 | University of Texas Southwestern Medical Center |
| 2013 – present | Director, Genetic and Metabolic Disease Program | Children’s Medical Center Research Institute |
| 2013 – 2024 | Chief, Division of Pediatric Genetics and Metabolism, Department of Pediatrics  | University of Texas Southwestern Medical Center |
| 2018 – present  | Co-Director, Cellular Networks in Cancer Program, Simmons Comprehensive Cancer Center | University of Texas Southwestern Medical Center |
| 2024 – present | Director, Eugene McDermott Center for Human Growth and Development | University of Texas Southwestern Medical Center |

**Committee Service (***Member, unless noted otherwise)*

|  |  |  |
| --- | --- | --- |
| Year(s) | Name of Committee | Institution/Organization |
| 1997 | Cell and Molecular Biology Graduate Group Admissions Committee | University of Pennsylvania |
| 2004 | Intern Selection Committee | Children’s Hospital of Philadelphia |
| 2022 – present  | Mary Beth Maddox Award Committee (chair, 2024 – present)  | Texas Academy of Medicine, Engineering, Science & Technology |
| UTSW |  |  |
| 2008 – present  | Medical Genetics Residency Program Education Executive Committee (chair, 2011 – present) | University of Texas Southwestern Medical Center |
| 2009 | Medical Students Subcommittee for Liaison Committee on Medical Education | University of Texas Southwestern Medical Center |
| 2010 – present  | High Impact/High Risk Grants Program Committee | University of Texas Southwestern Medical Center |
| 2012 | Compensation Committee | University of Texas Southwestern Medical Center - Department of Pediatrics |
| 2012 – 2015  | Steering Committee, Genetics T32 | University of Texas Southwestern Medical Center |
| 2011 – present  | Institute for Innovations in Medical Technologies Advisory Committee | University of Texas Southwestern Medical Center |
| 2012 - 2013 | Institutional Biosafety Committee (IBC) and Biological and Chemical Safety Advisory Committee (BCSAC) | University of Texas Southwestern Medical Center |
| 2013 – present  | Steering committee, Medical Scientist Training Program | University of Texas Southwestern Medical Center |
| 2013 – present  | Steering committee, Genetics and Development Training Grant | University of Texas Southwestern Medical Center |
| 2014 – 2016 | Pediatric Neurology Division Chief Search Committee (Chair); resulted in successful recruitment of Dr. Berge Minassian | University of Texas Southwestern Medical Center |
| 2014 – present | University Lecture Series Committee | University of Texas Southwestern Medical Center |
| 2015 – 2018 | Metabolomics and Disease Seminar Series, Chair of Organizing Committee | University of Texas Southwestern Medical Center |
| 2015 – present  | Pediatrics Promotion & Tenure Committee | University of Texas Southwestern Medical Center |
| 2015 – present  | Pediatrics Strategic Planning Committee | University of Texas Southwestern Medical Center |
| 2016 – present | High Throughput Screening Core Oversight Committee | University of Texas Southwestern Medical Center |
| 2017 – present | Governance Committee, Clinical Sequencing Laboratory | University of Texas Southwestern Medical Center |
| 2018-2019 | Chair, University Lecture Series Committee | University of Texas Southwestern Medical Center |
| 2018 – present | Leadership Committee, Simmons Comprehensive Cancer Center | University of Texas Southwestern Medical Center |
| 2021 – 2022 | Search Committee for Radiation Oncology Chairman (resulted in successful appointment of Robert Timmerman, M.D.) | University of Texas Southwestern Medical Center |
| 2022 | Six Year Strategic Plan, Chair of Research Subcommittee | University of Texas Southwestern Medical Center |
| 2022 – 2023  | Health Professions Strategic Plan External Committee | University of Texas Southwestern Medical Center |
| 2025 | Six Year Strategic Plan, Research Subcommittee | University of Texas Southwestern Medical Center |
| Hospital |
|  | None |  |
| State/Regional |
| 2008-present | Newborn Screening Advisory Committee | Texas Department of Health |
| 2021-present | Mary Beth Maddox Award Committee | The Academies of Medicine, Engineering and Science of Texas |
| National/International |
| 2011 – present  | Scientific Program Committee | American Association for Cancer Research |
| 2012  | Pediatrics Interest Group (Mentor) | American Physician-Scientist Association |
| 2015 | Chairperson, Metabolism and Cancer Section, 2016 American Association for Cancer Research Program Committee | American Association for Cancer Research |
| 2016 | Steering Committee, Cancer Progress Report | American Association for Cancer Research |
| 2016 – present | Keystone Symposia Advisory Committee | Keystone Symposia |
| 2019 | Pezcoller Foundation-AACR International Award for Extraordinary Achievement in Cancer Research, Selection Committee | American Association for Cancer Research |
| 2021 | AACR Award for Outstanding Achievement in Basic Science Cancer Research | American Association for Cancer Research |
| 2021 | AACR G.H.A. Clowes Award for Outstanding Basic Cancer Research | American Association for Cancer Research |
| 2022 | Cell Biology Landmarks Advisory Board  | Faculty Opinions |
| 2023 – present  | Cancer Imaging and Theranostics Task Force | American Association for Cancer Research |

**Professional Societies**

|  |  |
| --- | --- |
| Dates | Society Name, member |
| 2000 – present | American Academy of Pediatrics, member |
| 2002 – present  | American Society of Human Genetics, member |
| 2004 – present  | United Mitochondrial Disease Foundation, member |
| 2007 – present | Society for Inherited Metabolic Disorders, member |
| 2008 – present  | American Association for Cancer Research, member |
| 2009 – present  | Society for Pediatric Research, member |
| 2011 – present  | American Society for Mass Spectrometry, member |
| 2011 – present  | American Association for Cancer Research, member  |
| 2012 – present  | American Society for Clinical Investigation, member |
| 2017 – present  | The New York Academy of Sciences |
| 2020 - present | The Association of American Physicians |
| 2020 - present | The National Academy of Medicine |
| 2021 – present | The Academies of Medicine, Engineering and Science of Texas |

**Scientific Advisory Boards**

|  |  |
| --- | --- |
| Dates | Organization |
| 2012 – 2017 | Peloton Therapeutics, Inc. |
| 2013 - present  | Agios Pharmaceuticals, Inc. |
| 2013 - 2014 | Vesalius Research Center |
| 2016 – present | Oversight Committee, Proteomics and Metabolomics Core Facility (MD Anderson Cancer Center) |
| 2016 – 2019 | Chair of External Advisory Board, *KRAS* Multi-Investigator Grant (MD Anderson Cancer Center) |
| 2017 – present | General Metabolics |
| 2018 – present  | Rutgers Cancer Institute of New Jersey |
| 2020 - present | Vida Ventures |
| 2021 - 2023 | Nirogy Therapeutics |
| 2021 – present  | Droia Ventures |
| 2021 – present | Atavistik Bioscience, Founder and SAB member |
| 2021 – present | National Cancer Institute, Board of Scientific Counselors |

**Grant Review Activities**

|  |  |  |
| --- | --- | --- |
| Year(s) | Name of Review Committee | Organization |
| 2009 - 2010 | Scientific review committee | North and Central Texas Clinical Sciences Institute |
| 2009 - 2014 | Children’s Clinical Research Advisory Committee | Children’s Medical Center-Dallas  |
| 2009 - present | American Cancer Society Individual Investigator Awards | UT Southwestern Cancer Center |
| 2010 | Intramural Grant Program (external reviewer) | University of Louisville |
| 2010 | Scientific review committee, external reviewer | United States – Israel Bi-National Science Foundation |
| 2010 - present | High Impact/High Risk Grants Program | UT Southwestern Medical Center |
| 2011 - 2012 | Scientific review committee, external reviewer | Fonds Wetenschappelijk Onderzoek (Research Foundation, Flanders) |
| 2011 | Scientific review committee, external reviewer | Cancer Research UK |
| 2012 | Ad hoc reviewer, Cancer Etiology Study Section | National Institutes of Health/NCI |
| 2013 | Ad hoc reviewer, ZRG1 F09B-P (20)L Fellowships: Oncological Sciences | National Institutes of Health/NCI |
| 2015 | Sabin Family Foundation Fellows Award | University of Texas MD Anderson Cancer Center |
| 2016 | Ad hoc reviewer, **ZRG1 OTC-X (55) R** Metabolic Reprogramming in Immunotherapy | National Institutes of Health/NCI |
| 2016 | Ad hoc reviewer, SEP for Provocative Questions in Pediatric Cancer | National Institutes of Health/NCI |
| 2017 | Ad hoc reviewer, SEP for Provocative Questions in Pediatric Cancer | National Institutes of Health/NCI |
| 2019 | Ad hoc Reviewer, Director’s Pioneer Award (DP1) Program | National Institutes of Health |
| 2020 – present | Selection committee, Clinical Investigator Award (chair, 2024 – present) | Damon Runyon Cancer Research Foundation |
| 2022 – present  | Hannah Gray Fellows Program | Howard Hughes Medical Institute |
| 2023 | Ad hoc Reviewer, ZRG1 BTC-D, Cancer Biology | National Institutes of Health/NCI |

**Editorial Activities**

|  |  |
| --- | --- |
| Year(s) | Journal Name |
| Editor/Associate Editor |
| 2015 – 2017  | *Molecular Case Studies*, Cold Spring Harbor Press (Deputy Editor) |
| Editorial Boards |
| 2013 - 2016 | *Oncogene*, Nature Publishing Group |
| 2013 – 2019  | *Cancer & Metabolism*, BioMed Central (Senior Editor) |
| 2015 – present  | *Cancer Discovery,* AACR |
| 2014 – present  | *EMBO Molecular Medicine* (Advisory Editorial Board) |
| 2016 – 2021 | *eLife* (Board of Reviewing Editors) |
| 2020 - present | *Med,* Cell Press  |
| 2022 - present | *Annual Reviews of Cancer Biology* |
| Ad Hoc Reviewer |
|  | *Cell* |
|  | *Science* |
|  | *Nature*  |
|  | *New England Journal of Medicine* |
|  | *Nature Cell Biology* |
|  | *Nature Chemical Biology* |
|  | *Nature Communications* |
|  | *eLife* |
|  | *Cancer Cell* |
|  | *Cell Metabolism* |
|  | *Molecular Cell* |
|  | *Cell Stem Cell* |
|  | *Current Biology* |
|  | *Cell Reports* |
|  | *Journal of Clinical Investigation* |
|  | *Genes and Development* |
|  | *Proceedings of the National Academy of Sciences – USA*  |
|  | *Journal of Clinical Oncology*  |
|  | *Cancer Research* |
|  | *Journal of Biological Chemistry* |
|  | *PLOS-Biology* |
|  | *PLOS-Pathogens* |
|  | *PLOS-One* |
|  | *Cancer & Metabolism* |
|  | *Molecular Cancer Therapeutics* |
|  | *American Journal of Pathology* |
|  | *British Journal of Cancer* |
|  | *Brain Pathology* |
|  | *Trends in Molecular Medicine* |
|  | *Trends in Endocrinology and Metabolism* |
|  | *Neoplasia* |
|  | *BMC Cancer* |
|  | *Gene* |
|  | *Molecular Genetics and Metabolism* |

**Grant Support**

|  |  |
| --- | --- |
| Present | National Institutes of Health/National Cancer Institute – R35 |
|  | Human metabolic variation as a window into cancer initiation and progression. |
|  | Principal Investigator |
|  | $600,000 9/1/2023 – 8/31/2024 |
|  | $6,674,689 9/1/2023 – 8/31/2030 |
|  |  |
|  | Howard Hughes Medical Institute – HHMI Investigator |
|  | HHMI Investigator – Funding is not associated with a specific project. |
|  | Principal Investigator |
|  | $600,000 9/4/2022 – 8/31/2023 |
|  | $4,000,000 9/4/2018 – 8/31/2025 |
|  |  |
|  | National Institutes of Health |
|  | UTSW SPORE in Kidney Cancer (James Brugarolas – PI) |
|  | Project Leader Project 3 |
|  | $202,740 8/1/2024 – 7/31/2025 |
|  | $7,025,250 8/1/2022 – 7/31/2027  |
|  |  |
|  | National Institutes of Health |
|  | UTSW/MD Anderson SPORE in Lung Cancer (John Minna – PI) |
|  | Project Leader Project 1 |
|  | $40,402 9/1/2024 – 8/31/2025 |
|  | $8,858,316.80 9/1/2020 – 8/31/2025 |
|  |  |
|  | National Institutes of Health/National Cancer Institute  |
|  | Cancer Center Support Grant (Carlos Arteaga – PI) |
|  | Co-Leader |
|  | $16,297 08/01/2024 – 07/31/2025 |
|  | $21,530,000 08/01/2021 – 07/31/2026 |
|  |  |
|  | Cancer Prevention and Research Institute of Texas |
|  | Children’s Research Institute Metabolomics Core: Advanced Methodologies in Cancer Metabolism |
|  | Principal Investigator |
|  | $1,239,095 08/31/2024 – 08/30/2025 |
|  | $2,601,616. 08/31/2024 – 08/30/2029 |
|  |  |
|  | Baldridge Research Fund |
|  | $300,000 03/01/2021 – no expiration |
|  |  |
|  | Robert L. Moody, Sr. Faculty Scholar Endowment |
|  | Moody Faculty Scholar |
|  | $500,000 10/1/2018 – no expiration |
|  |  |
|  |  |
| Past |  |
|  | Cancer Prevention and Research Institute of Texas |
|  | Understanding Rewired Intracellular Metabolism in Acute Myeloid Leukemia |
|  | Principal Investigator |
|  | $332,500 08/30/2023 – 08/29/2024 |
|  | $1,050,000 08/30/2023 – 02/28/2025 |
|  |  |
|  | Lawrence Steinberg Endowment |
|  | Joel B. Steinberg, M.D. Distinguished Chair in Pediatrics |
|  | $49,023 12/16/2018 – 09/01/2024 |
|  |  |
|  | Cancer Prevention and Research Institute of Texas -- MIRA |
|  | Metabolic enablers of melanoma progression (Sean Morrison – PI) |
|  | Co-investigator |
|  | $1,429,836 8/31/2021 – 8/30/2023 (NCE) |
|  | $5,612,664.04 8/31/2018 – 8/30/2023 |
|  |  |
|  | National Institutes of Health/National Cancer Institute – R21 |
|  | Cancer Center Support Grant |
|  | Co-investigator |
|  | No Funds Req 3/7/2018 – 2/28/2019 |
|  | No Funds Req 3/7/2018 – 2/28/2020 |
|  |  |
|  | National Institutes of Health/National Center for Advancing Translational Sciences – UL1 |
|  | UTSW Center for Translational Medicine UL1 (KL2/TL1)  |
|  | Co-Director of Core 1. |
|  | $86,545 9/1/2018 – 4/30/2019 |
|  | $482,398 9/23/2013 – 4/30/2019 |
|  |  |
|  | Once Upon a Time Foundation |
|  | Discovering and treating genetic metabolic diseases in children |
|  | Principal Investigator |
|  | $250,000 3/1/2018 – 2/28/2019 |
|  | $1,000,000 3/1/2016 – 2/28/2020 |
|  |  |
|  | Cancer Prevention and Research Institute of Texas – Independent Research Award |
|  | Carbamoyl Phosphate Synthase-1: A new metabolic liability in non-small cell lung cancers |
|  | Principal Investigator |
|  | $285, 009 3/1/2018 – 2/28/2019 |
|  | $855,022 3/1/2016 – 2/28/2019  |
|  |  |
|  | The Robert A. Welch Foundation – Research Award |
|  | Compartmentation of pro-survival metabolic activities in the cancer cell peroxisome |
|  | Principal Investigator |
|  | $80,000 6/1/2018 – 5/31/2019 |
|  | $240,000 6/1/2016 – 5/31/2019 |
|  |  |
|  | NIH – Emory University Subcontract |
|  | Signaling and Targeting of 6-Phosphogluconate Dehydrogenase in Human Cancers |
|  | Subcontract Site PI (Jing Chen- PI) |
|  | $11,034 3/1/2018 – 2/28/2019 |
|  | $ 55,170 4/15/2014 – 2/28/2019 |
|  |  |
|  | Cancer Prevention and Research Institute of Texas – MD Anderson Subcontract |
|  | Exploiting molecular and metabolic dependencies to optimize personalized therapeutic approaches for melanomas |
|  | Subcontract site PI (Michael Davies-PI) |
|  | Subcontract: $100,000 3/1/2018 – 8/28/2019 |
|  | Subcontract: $300,000 3/1/2016 – 2/28/2019 |
|  |  |
|  | Cancer Prevention and Research Institute of Texas -- IIRA |
|  | Mechanisms of melanoma metastasis |
|  | Co-investigator |
|  | $284,882 12/1/2018 – 11/30/2019 |
|  | $847,896 12/1/2016 – 11/30/2019 |
|  |  |
|  | National Institutes of Health/National Center for Advancing Translational Sciences – UL1 |
|  | UTSW Center for Translational Medicine UL1 (KL2/TL1)  |
|  | Co-Director of Core 1. |
|  | $86,545 9/1/2018 – 4/30/2019 |
|  | $482,398 9/23/2013 – 4/30/2019 |
|  |  |
|  | National Institutes of Health/National Cancer Institute – R01 |
|  | Metabolic regulators of tumor cell growth  |
|  | Principal Investigator |
|  | $237,500 5/1/2016 – 4/30/2017 |
|  | $1,037,500 7/1/2011 – 3/31/2016  |
|  | **$**1,187,500 4/1/2016 – 4/30/2021 – relinquished 09/01/2017 to accept R35 |
|  |  |
|  | Howard Hughes Medical Institute – Faculty Scholar |
|  | HHMI Faculty Scholar |
|  | Principal Investigator |
|  | $100,000 11/1/2018 – 10/31/2018 |
|  | $500,000 11/1/2016 – 10/31/2021 relinquished 11/1/2018 to accept HHMI Investigator |
|  |  |
|  | V Foundation – Translational Research Award |
|  | Translational studies in lung cancer metabolism: creating new paradigms in diagnosis and therapy |
|  | Principal Investigator |
|  | $200,000 11/01/2015 – 10/31/2016 |
|  | $600,000 11/01/2013 – 10/31/2016 |
|  |  |
|  | NIH- Core 1 |
|  | UT Southwestern Center for Translational Medicine –Core 1: Target Identification |
|  | Co-Director Core 1 |
|  | $94,393 5/1/2016 – 4/30/2017  |
|  |  |
|  | NIH – St. Jude Children’s Research Hospital |
|  | Regulation of erythropoiesis by the miR-144/451 microRNA locus |
|  | Subcontract Site PI (Mitchell Weiss- PI) |
|  | $42,142 9/1/2015 – 8/31/2016 |
|  | $94,284 9/1/2015 – 8/31/2017 |
|  |  |
|  | National Institutes of Health/National Cancer Institute – Univ. of Cincinnati  |
|  | Metabolic Adaptive Responses in Cancer |
|  | Subcontract PI (David Plas- PI) |
|  | $13,004 04/01/2016 – 03/31/2017 |
|  | $65,020 04/01/2013 – 03/31/2018 |
|  |  |
|  | Cancer Prevention and Research Institute of Texas – Independent Research Award |
|  | The metabolic phenome of human lung cancer |
|  | Principal Investigator |
|  | $214,788 6/1/2015 – 11/30/2016 |
|  | $632,282 4/1/2014 – 11/30/2016 |
|  |  |
|  | Cancer Prevention and Research Institute of Texas – Multi-Investigator Award |
|  | Novel MRI and MRS Methods for Imaging Cancer Metabolism  |
|  | Co-PI of sub-project, “Metabolic Imaging of Hyperpolarized 13C Substrates in Animal Models of Cancer,” with Matthew Merritt |
|  | $204,150 8/1/2014 – 7/31/2015 |
|  | $615,259 8/1/2014 – 7/31/2016  |
|  |  |
|  | National Institutes of Health/National Cancer Institute – R01 |
|  | Defining the metabolic phenotype of low-grade gliomas in vivo |
|  | Co-Investigator (Elizabeth Maher- PI) |
|  | $207,500 4/1/2016 – 3/31/2017 |
|  | $1,037,500 4/1/2012 – 3/31/2017 |
|  |  |
|  | The Robert A. Welch Foundation – Research Award |
|  | Glutamine-dependent reductive carboxylation: a metabolic Achilles’ heel in cancer |
|  | Principal Investigator |
|  | $100,000 6/1/2013 – 5/31/2014 |
|  | $300,000 6/1/2013 – 5/31/2016 |
|  |  |
|  | National Institutes of Health/National Cancer Institute – Administrative Supplement |
|  | Research Supplement to Promote Diversity in Health-Related Research |
|  | Principal Investigator |
|  | $44,033 7/1/2014 – 6/30/2016 |
|  |  |
|  | National Institutes of Health/NIGMS – T32 |
|  | Medical Genetics Research Training Grant  |
|  | Trainee |
|  | Fellow Salary Support 7/1/2003 – 6/30/2005  |
|  |  |
|  | National Institutes of Health/NICHD – K12 |
|  | CHOP Pediatric Scholars Program |
|  | Trainee |
|  | $75,000 7/1/2005 – 6/30/2006 |
|  |  |
|  | National Institutes of Health/NIDDK – K08 |
|  | Metabolic regulation in growth factor-dependent cells |
|  | Principal Investigator |
|  | $123,400 7/1/2010 – 6/30/2011 |
|  | $617,000 7/1/2006 – 6/30/2011 |
|  |  |
|  | American Cancer Society – Individual Research Grant |
|  | Glutamine-based anaplerosis (GBA): A key metabolic pathway in tumor cell growth |
|  | Principal Investigator |
|  | $40,000 7/1/2008 – 6/30/2009 |
|  |  |
|  | National Institutes of Health – UL1 |
|  | Ex vivo flux profiling in congenital lactic acidosis syndromes |
|  | Principal Investigator of Pilot Award |
|  | $25,000 4/1/2008 – 3/31/2009 |
|  |  |
|  | National Institutes of Health/NINDS – RC1 |
|  | Genotype and Metabolic Phenotype in Glioblastoma |
|  | Co-Investigator |
|  | $318,472 9/30/2010 – 8/31/2011 |
|  | $636,944 9/30/2009 – 8/31/2011 |
|  |  |
|  | Cancer Prevention and Research Institute of Texas – High Impact/High Risk Award |
|  | Can glioblastoma growth be suppressed by targeting glutamine metabolism? |
|  | $95,000 4/1/2011 – 3/31/2012  |
|  | $190,000 4/1/2010 – 3/31/2012 |
|  |  |
|  | National Institutes of Health/National Cancer Institute – Lung Cancer SPORE |
|  | Identifying metabolic activities that drive transformation and tumorigenesis in lung cancer |
|  | Principal Investigator of Seed Project |
|  | $20,000 4/1/2010 – 3/31/2011 |
|  |  |
|  | Janssen Pharmaceutica, N.V. - Sponsored Research Agreement |
|  | Identification and Validation of Novel Tumor Metabolism Targets in Glutaminolysis |
|  | Principal Investigator |
|  | $106,198 5/1/2011 – 4/30/2012 |
|  | $215,000 5/1/2011 – 4/30/2013 |
|  |  |
|  | The Robert A. Welch Foundation – Research Award |
|  | Dynamic nuclear polarization of small molecule metabolic probes: novel reagents for monitoring cancer cell metabolism. |
|  | Principal Investigator |
|  | $60,000 6/1/2012 – 5/31/2013 |
|  | $160,000 6/1/2010 – 5/31/2013 |
|  |  |
|  | Damon Runyon Cancer Research Foundation – Clinical Investigator Award |
|  | Translational Studies in Cancer Metabolism |
|  | Principal Investigator |
|  | $150,000 7/1/2013 – 6/30/2014 |
|  | $450,000 7/1/2011 – 6/30/2014 |
|  |  |
|  | National Institutes of Health/National Cancer Institute – R21 |
|  | In vivo detection of 2-hydroxyglutarate in gliomas by spectroscopic MRI |
|  | Co-Investigator (Changho Choi- PI) |
|  | $130,500 9/1/2012 – 8/31/2013 |
|  | $239,250 9/26/2011 – 8/31/2013 |
|  |  |

**Clinical Trials Activities**

|  |  |
| --- | --- |
| Present | STU 062010-157, [An Investigation of Brain Tumor Metabolism in Patients Undergoing Surgical Resection](https://eresearch.swmed.edu/eIRB/Rooms/DisplayPages/LayoutInitial?Container=com.webridge.entity.Entity%5bOID%5bB0259BFED21C52498136CED63ADFB5EE%5d%5d) (Co-Investigator) |
|  | STU 062010-160, [High Resolution Magnetic Resonance Imaging in Patients with Brain Tumors](https://eresearch.swmed.edu/eIRB/Rooms/DisplayPages/LayoutInitial?Container=com.webridge.entity.Entity%5bOID%5bE98803D1914369438B96B11CE36B42BC%5d%5d) (Co-Investigator) |
|  | STU 112014-001, Genetic regulators of metabolism and development in children (Principal Investigator) |
|  | STU-2019-1061, An Investigation of Kidney and Urothelial Tumor Metabolism in Patients Undergoing Surgical Resection and Biopsy (Co-Investigator) |
|  | STU 052018-031, Identification of Metabolic Phenotypes Associated with Melanoma Metastasis (Co-Investigator) |

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| Past | None |

**Teaching Activities**

|  |  |
| --- | --- |
| Year(s) | Activity |
| Medical and graduate school didactic and small group teaching |
| 2007 | Discussion Group Leader, *Genetic Foundations of Disease*, University of Pennsylvania School of Medicine |
| 2007 | Lecturer, *Inborn Errors of Metabolism*, Pediatrics Clerkship, University of Pennsylvania School of Medicine |
| 2007 | Lecturer, *Mitochondrial Diseases*, Medical Genetics I and II, Arcadia University, Master’s Program in Genetic Counseling |
| 2007 | Lecturer, *Genetic Foundations of Disease*, University of Pennsylvania School of Medicine  |
| 2007 | Lecturer, *Inborn Errors of Metabolism*, Children’s Hospital of Philadelphia, Neonatal Physiology Lecture Series |
| 2007 | Discussion Group Leader, *Genetics in Medicine*, University of Pennsylvania School of Medicine |
| 2007 | Lecturer, *Genetic Basis of Metabolic Diseases*, University of Pennsylvania School of Nursing |
| 2008 – 2014 | Lecturer, *Genetics* (first-year medical students; Lewis Waber and Jonathan Cohen, course directors), University of Texas - Southwestern Medical School |
| 2008 – present | Discussion Group Leader, *Genetics and Metabolism Cases*, Pediatrics Clerkship, University of Texas – Southwestern School of Medicine |
| 2009 | Discussion Leader, *Summer Graduate Student Workshop* (Wade Winkler, course director), University of Texas – Southwestern Medical Center |
| 2009 - 2015 | Lecturer, *Metabolism and Cancer*, Molecular Mechanisms in Cancer Biology, Cancer Biology Graduate Group (Jerry Shay, Kathlynn Brown and Elizabeth Martinez, course directors), University of Texas – Southwestern Medical Center |
| 2009 - present | Lecturer, *Inborn Errors of Metabolism in Neonates: Basic Concepts and Guides to Therapy.* Neonatology Fellows’ Physiology Conference (Luc Brion, course director), UT – Southwestern Medical Center |
| 2010  | Lecturer, *Metabolic Causes of Pediatric Liver Failure.* Pediatric Gastroenterology Fellows’ Conference (Drew Feranchak, course director), UT – Southwestern Medical Center |
| 2010 - present | Discussion Group Leader, *Ethics in Scientific Research* (Stuart Ravnik, course director), UT – Southwestern Medical Center |
| 2011 - present | Lecturer, *Intermediary Metabolism in Tumor Cells*, Molecular Basis of Metabolic Regulation (Joyce Repa, course director), UT Southwestern Medical Center |
| 2011 - 2013 | Lecturer, *Cancer Metabolism*, Research in Clinical Nutrition (Master’s Degree Students; Deborah Clegg, course director), UT Southwestern Medical Center  |
| 2012 - present | Coordinator, *Clinical Genetics Experience*, for Genetics and Development Graduate Students, UT Southwestern Medical Center (2012 - ) |
| 2012 - present | Lecturer, *Advanced Concepts* *in* *Metabolism and Cancer*, Cancer Biology II: Advanced Concepts in Cancer Biology (Sandeep Burma, course director), Cancer Biology Training Program, University of Texas – Southwestern Medical Center |
| 2012 – 2015 | Lecturer/Discussion Leader, Human Genetics (Andrew Zinn, course director), Genetics and Development graduate program, University of Texas – Southwestern Medical Center |
| 2012 – 2014 | Lecturer, *Integrated Metabolism*, Biochemistry (first-year medical students; Max Wynne and Rick Bruick, course directors), University of Texas – Southwestern Medical Center |
| 2013 – present  | Lecturer, *Amino acid and Nucleotide metabolism*, Biochemistry (first-year medical students; Max Wynne and Rick Bruick, course directors), University of Texas – Southwestern Medical Center |
| 2014 – 2015 | Lecturer, *Metabolic regulation in cancer*, Physical Biochemistry II (Jennifer Kohler, director), University of Texas Southwestern Medical Center |
| 2014 – present | Lecturer, Control of Metabolism by Genetics and Epigenetics; Analysis of Metabolism with Tracers; Amino Acids and Nucleotides; Inborn errors of Metabolism; Cancer Metabolism. Imaging, Metabolism and Disease (Biomedical Engineering Ph.D. students; Craig Malloy, course director), University of Texas Southwestern Medical Center |
|  |
| Dissertation committees (\*denotes chairman) |
| Graduated | Lane Jaeckle Santos, PhD (Genetics and Development; Mentor: Andrew R. Zinn; graduated 2009) |
|  | Wu Xi, PhD (Integrative Biology; Mentor: Benjamin P. Tu; graduated 2011) |
|  | Ramon Sun, PhD (external reviewer, Australian National University, graduated 2010) |
|  | Maria Georgiadou, Ph.D. (external reviewer, Vesalius Institute of Biology, Katholique University-Leuven, mentor: Peter Carmeliet, graduated 2012). |
|  | Ashlee Stiles, Ph.D.\* (Genetics and Development; Mentor: David W. Russell; graduated 2013) |
|  | Ling Cai, Ph.D. (Integrative Biology; Mentor: Benjamin P. Tu; graduated 2013) |
|  | Rebecca Roos Britt, Ph.D.\* (Cancer Biology; Mentor: John D. Minna) |
|  | Lu Zhang\* (Cancer Biology; Mentor: Jerry Shay) |
|  | Annelies Quaegebeur (external reviewer, Vesalius Institute of Biology, Katholique University-Leuven, mentor: Peter Carmeliet). |
|  | Gaurab Chakrabarti (Integrative Biology; Mentor: David Boothman) |
|  | Sandeep Ganji\* (Radiological Sciences; Mentor: Changho Choi) |
|  | Mariam Ashmawy (Cancer Biology; Mentor: Jerry Shay) |
|  | Banu Eskiocak\* (Cancer Biology; Mentor: Michael White) |
|  | Pallevi Srivastva (Biology, University of Texas at Dallas; Mentor: Hyuntae Yoo) |
|  | Mindy Lee (Integrative Biology; Mentor: Beth Levine) |
|  | Rubina Tuladhar (Cancer Biology; Mentor: Lawrence Lum) |
|  | Keun Woo Ryu\* (Genetics and Development; Mentor: Lee Kraus) |
|  | Chensu Wang (Bioengineering; Mentors: Michael White and Jinming Gao) |
|  | Ebony Flowers (Genetics and Development; Mentor: Thomas Carroll) |
|  | Xi Wu (Integrative Biology; Mentor: Benjamin P. Tu) |
|  | Eul Hyun (Christine) Suh (Biomedical Engineering; Mentor: A. Dean Sherry) |
|  | Paul Yenerall\* (Cancer Biology; Mentors: Ralf Kittler and John Minna) |
|  | Jin Suk Park (Cancer Biology; Mentor: Gaudenz Danuser) |
|  | Ross Weber (external reviewer, The Rockefeller University; Mentor: Kivanc Birsoy) |
|  | Yu-Sun Yang (Integrative Biology; Mentor: Ben Tu) |
|  | Chase Melick (Cancer Biology; Mentor: Jenna Jewell) |
|  | Andrew Chung (Cancer Biology; Mentor: Hao Zhu) |
|  | Nick Lesner (Genetics, Development and Disease; Mentor: Prashant Mishra) |
|  | Aarin Jones (Genetics, Development and Disease; Mentor: Lee Kraus) |
|  | Simanti Das\* (Genetics, Development and Disease; Mentor: John Abrams) |
|  | Guanqiao Ding (Integrative Biology; Mentor: Joseph Hill) |
|  | McKenzie Patrick (Cancer Biology; Mentor: Jian Xu) |
|  | Aiden Nguyen (Cancer Biology; Mentor; Elisabeth Martinez) |
|  | Mona Li (Cancer Biology; Mentor: John Minna) |
|  | Eliot Blatt (Cancer Biology; Mentor: Ganesh Raj) |
|  | Abigail Watterson\* (Genetics, Development and Disease; Mentor: Peter Douglas) |
|  | Jiwon Song (Biomedical Engineering; Mentor: Jinming Gao) |
|  | Tyron Chang (Genetics, Development and Disease; Mentor: Dustin Hancks) |
|  | Marc Turgeon (external reviewer: The Institute of Cancer Research, United Kingdom; Mentor: George Poulogiannis) |
|  | Madeleine Marlar-Peavey (Genetics, Development and Disease; Mentor: Jonathan Friedman) |
|  | Ryan Reynolds (Genetics, Development and Disease; Mentor: Joel Elmquist) |
|  | Claudette Fraire (Cancer Biology; Mentor: Kenneth Chen) |
|  | Ryan Kowash (Cancer Biology; Mentor: Esra Akbay) |
|  | Michael McConville (Biochemistry: Mentor: Glen Lisczak) |
|  | Siva Venigalla (Biomedical Engineering; Mentor: Prashant Mishra) |
|  | Xuhang Li (University of Massachusetts; Mentor: Marian Walhout) |
|  | Collette Lavigne (Genetics, Development and Disease; Mentor: Joshua Mendell |
|  |  |
| In training |  |
|  | Milan Savani (Cancer Biology; Mentor: Sam McBrayer) |
|  | Philip Brown\* (Genetics, Development and Disease; Mentor: Kim Reynolds) |
|  | Roy Garcia (Cancer Biology; Mentor: Maralice Conacci-Sorrell) |
|  | Dohun Kim (Cancer Biology; Mentor: Gerta Hoxhaj) |
|  | Cameron Menezes (Genetics, Development and Disease; Mentor: Prashant Mishra) |
|  | Jerica Tan (Northwestern University; Mentor: Navdeep Chandel) |
|  | Ashley Rowe\* (Genetics, Development and Disease; Mentor: Katherine Wert) |
|  | Abbas Zaki (Cancer Biology; Mentor: Joshua Gruber) |
|  | Ashfan Abbas (Cancer Biology; Mentor: Maralice Conacci-Sorrell) |
|  | Harrison Tom (Genetics, Development and disease; Mentor: Gerta Hoxhaj) |
|  | Dylan Calhoon (Cancer Biology; Mentor: Javier Garcia-Bermudez) |
|  | Alyssa Cordes (Cancer Biology; Mentor: Benjamin Drapkin) |
|  | Charles Edgar (Cancer Biology; Mentor: Samuel McBrayer) |
|  | Hari Sunil (Cancer Biology; Mentor: Kate O’Donnell) |
|  | Reagan Adams (Genetics, Development and disease; Mentor: Rachel Bailey) |
| Qualifying examination committees (\*denotes chairman) |  |
| 2010 | John Avila (Genetics and Development) |
| 2010 | Alejandro d’Brot\* (Genetics and Development) |
| 2010 | Amanda Ruiz (Cancer Biology) |
| 2011 | Banu Eskiocak (Cancer Biology) |
| 2012 | Wei Guo (Genetics and Devlopment) |
| 2012 | Win-Yin Chen\* (Cancer Biology) |
| 2013 | Zachary Moore (Cancer Biology) |
| 2013 | Min He\* (Genetics and Development) |
| 2013 | Chensu Wang (Biomedical Engineering) |
| 2014 | Shuyuan Zhang\* (Cancer Biology) |
| 2015 | Yu-Sun Yang (Cancer Biology) |
| 2019 | Sojeong Jun (Genetics, Development and Disease) |
| 2019 | Austin Moore (Cancer Biology) |
| 2022 | Amy Whitaker (Genetics, Development and Disease) |
| 2023 | Ria Mukherji (Cancer Biology) |
|  |  |
| Committees concerned with medical and graduate student education |  |
| 2009 - present | Education Committee, UT Southwestern Medical Genetics Residency Program |
| Graduate student rotations |  |
| 2009 | Tuyen Dang |
| 2009 | John Avila |
| 2009 | Andrew Mullen |
| 2009 | Kartik Rajagopalan |
| 2010 | Caroline Tao |
| 2011 | Chen-der Lee |
| 2011 | Pei-Hsuan Chen |
| 2011 | Christopher Hensley |
| 2012 | Xiaolei Shi |
| 2014 | Quinn Barrett |
| 2015 | Tracy Rosales |
| 2016 | Divya Bezwada |
| 2016 | Robert Harris |
| 2018 | Sherwin Kelekar |
| 2019 | Collette Lavigne |
| 2022 | Margaret Brecker Cervantes |
| 2022 | Roger Liang |
| 2023 | Victoria Yan |
| 2023 | Siyu Yin |
| 2024 | Ray Pantoja |
| Medical student rotations |  |
| 2012 - present | Organized Medical Genetics Elective for medical students; trains approximately 10 UT Southwestern medical students annually |
| 2016 | Sarah Doucette |
| 2017 | Kevin Li |
| 2019 | Eric Montgomery |
| 2019 | Lauren Friedrich |
| 2019 | Jordan Franklin |
| Graduate student trainees |  |
| 2009 - 2013 | Andrew R. Mullen (Genetics and Development). Recipient of UT Southwestern Genetics T32. Thesis advisor. Current position: General Metabolics, LLC |
| 2009 – 2014 | Kartik Rajagopalan (MSTP student, Cancer Biology Track). Recipient of UT Southwestern Cancer Center training grant. Thesis advisor. Current position: Pulmonary Medicine Fellow, Columbia University |
| 2011 – 2015  | Pei-Hsuan Chen (Integrative Biology). Thesis advisor. Current position: Research Scientist, Dana Farber Cancer Institute. |
| 2011 – 2015 | Christopher Hensley (MSTP student, Cancer Biology Track). Recipient of UT Southwestern Pharmacological Sciences T32. Recipient of N.C.I. Administrative Supplement to Foster Diversity. Thesis advisor. Current position: Radiology resident, University of Pennsylvania. |
| 2011 | Wu Xi (Integrative Biology). Advisor for “Bench to Bedside” rotation. |
| 2013 – 2017 | Xiaolei Shi (Cancer Biology Track), Thesis advisor. Recipient of HHMI International Student Research Fellowship. Current position: Applying for internal medicine residency programs. |
| 2016 – 2022 | Tracy Rosales (Cancer Biology). Thesis advisor. Recipient of UT Southwestern CPRIT Training Grant.  |
| 2016 – 2021 | Robert Harris (MSTP student, Genetics, Development and Disease Track). Current position: Medical Student. |
| 2018 – 2022 | Sherwin Kelekar (MSTP Student) |
| 2016 – 2023 | Divya Bezwada (Cancer Biology Track). Thesis Advisor. Recipient of F31 Award from N.C.I. |
| 2022 – present  | Margaret Brecker Cervantes |
| 2022 – present  | Roger Liang |
| 2024 - present | Siyu Yin |
|  |  |
| Postgraduate medical education (graduate & continuing medical education) |  |
| 2008 – present  | Mentored Medical Genetics residents: Natalie Hauser, M.DJuan Jasso, M.D. Pavel Pichurin, M.D. Garrett Gotway, M.D.Saima Kayani, M.D.James Butler, M.D.Merry Lynn Mann, M.D.Markey McNutt, M.D., Ph.D.Jennifer Graham, M.D.Sushma Guptha, M.D.James Mayberry, M.D.Tuncay Delibasi, M.D.Panayotis Pachnis, M.D., Ph.D. |
| 2009 – 2014 | Isaac Marin-Valencia, M.D. Pediatrics Neurology resident; served as one of several research mentors.Won Pediatrics Research Award in 2012.Won S. Weir Mitchell Research Award of the American Academy of Neurology in 2015.Current position |
| 2010 | Garrett Gotway, M.D., Ph.D. (Pediatrics Resident; served as mentor for research elective) |
| 2011 | Alejandro de la Torre, M.D. (Pediatric Endocrinology Fellow; served as research advisor) |
| 2012 – 2015  | Ajla Wasti, M.D. (Pediatrics Hematology-Oncology Fellow; served as research mentor) |
| 2012 – present  | Organized Medical Genetics Elective for pediatrics residents. Will train approximately 5 pediatrics residents in Medical Genetics annually |
| 2015 – 2017 | Bridget Stuart, M.D., Ph.D. (Assistant Professor of Pediatrics; Chair of Mentoring Committee) |
| 2016 – 2020 | Alan Poole, M.D., Ph.D. (Pediatrics Critical Care Fellow; served as research mentor) |
| 2018 – 2020 | Kendra Johnston, MD (Pediatrics Hematology-Oncology Fellow; served as research mentor) |
| 2018 | Cissy Yong, M.D. (Urology trainee from Cambridge, UK; served as a research mentor) |
| 2018 – present | Yuanyuan Zhang, M.D., Ph.D. (Radiation Oncology Resident, served as a research mentor) |
| 2021 - present | Varun Sondhi, M.D., Ph.D. (Pulmonology Fellow, served as a research mentor) |
| 2021 – present | Walter Chen, M.D., Ph.D. (Neonatology Fellow, served as a research mentor) |
| 2023 – present  | Cicero Willis (Cardiology Fellow, served as a research mentor) |
| Postdoctoral trainees |  |
| 2009 – 2012  | Tzuling Cheng, Ph.D. (Current position: Senior Scientist, IDEAYA Biosciences) |
| 2011-2016  | Lei Jiang, Ph.D. Current position: Assistant Professor, City of Hope |
| 2011 – 2013 | Hien Nguyen, Ph.D. (recipient of funding from UT Southwestern Metabolism T32); currently at University of Massachusetts Mass School of Medicine Mass Spectrometry Center |
| 2012 – 2018  | Jiyeon Kim, Ph.D. (recipient of American Lung Association Fellowship). Current position: Assistant Professor, Yale University |
| 2013 – 2015 | Lindsey Boroughs, Ph.D. (recipient of funding from UT Southwestern NCI T32; recipient of Ruth L. Kirschstein NRSA Individual Postdoctoral Fellowship/F32). Current position: Medical Science Liaison, Bristol-Meyers Squibb |
| 2014 – 2016  | Ling Cai, Ph.D. (recipient of AACR post-doctoral fellowship). Current position: Assistant Professor, O’Donnell School of Public Health (primary) and Children’s Medical Center Research Institute (secondary), UT Southwestern Medical Center. |
| 2014 – 2016  | Robert Egnatchik, Ph.D. (recipient of Ruth L. Kirschstein NRSA Individual Postdoctoral Fellowship/F32). Current position: Pepsi Co. |
| 2015 – 2021 | Brandon Faubert, Ph.D. (recipient of fellowship from the Canadian Institutes of Health Research (CIHR). Current position: Assistant Professor, University of Chicago. |
| 2016 – 2023  | Ashley Solmonson, Ph.D. Current position: Assistant Professor, Green Center for Reproductive Biology (primary), and Children’s Medical Center Research Institute (secondary), UT Southwestern Medical Center. |
| 2016 – 2022 | Fang Huang, Ph.D. (visiting scientist, Huazhong University of Science and Technology, China). Current position: Associate Professor and Attending Physician, Department of Thoracic Oncology, Huazhong University of Science and Technology, China |
| 2016 – 2017 | Kristell Oizel, Ph.D. (visiting scientist, University of Nantes, France) |
| 2017 – 2022 | Akash Kumar Kaushik, Ph.D. Current position: Pfizer |
| 2017 – present | Wen Gu, Ph.D. |
| 2017 – 2022 | Thomas Rogers, Ph.D. (NIH K00 Award recipient). Current position: Research Scientist, Van Andel Research Institute |
| 2018 – 2021 | Panayotis Pachnis, Ph.D. Current position : Medical Genetics and Genomics Resident, UT Southwestern |
| 2018 – 2022 | Aparna Rao, M.D. Current position: Assistant Professor, Peter MacCallum Department of Oncology, University of Melbourne, Australia  |
| 2020 – 2023 | Amy Tarangelo, Ph.D. Current position: Medical writer |
| 2020 – present  | Zheng Wu, Ph.D. |
| 2020 – present | Phong Nguyen, Ph.D. |
| 2021 – present | Trevor Tippets, Ph.D. |
| 2023 – present | Eliot Blatt, Ph.D.  |
| 2024 – present | Tao Dai, Ph.D. |
| 2024 – present | Karla Cano Hernandez, Ph.D. |
| 2024 – present | Islam Alshamleh, Ph.D. |

**Selected Invited Lectures**

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| Year(s) | Title | Location |
| International |
| 2007 | *The Metabolism of Cell Proliferation*, Molecular Systems Biology Group | University of Coimbra, Coimbra, Portugal |
| 2007 | *Core Metabolism in Proliferating Glioblastoma Cells,* Necker-Enfantes Malades | Paris, France |
| 2010 | *Molecular basis for the reprogramming of cancer cell metabolism.*  International Workshop for Translational Research on Malignant Gliomas. | Naples, Italy |
| 2010 | *Understanding mitochondrial metabolism in tumor growth.* Symposium on Cancer Metabolism, University of British Columbia.  | Vancouver, Canada |
| 2010 | *Alternative metabolic strategies for growth in glioblastoma: glucose vs. glutamine for support of cell proliferation and tumorigenesis.* Metabolism and Cancer Progression, Keystone Symposium.  | Vancouver, Canada |
| 2010 | *Mitochondrial metabolism in tumor cells: forgotten, but not gone.* Cancer and Metabolism: Pathways to the Future Conference | Edinburgh, Scotland |
| 2011 | *Core metabolism in tumor cells: analytical methods and biological implications.* McGill University | Montreal, Canada |
| 2012 | *Metabolic flux analysis in cancer biology.* Janssen Pharmaceuticals, Cancer Metabolism Group. | Beerse, Belgium |
| 2012 | *Mitochondrial metabolism and tumor cell growth.* Cell Symposia – Angiogenesis, Metabolic Regulation and Cancer Biology. | Leuven, Belgium |
| 2013 | *Cancer Cell metabolism.* British Columbia Cancer Agency Research Seminar Series | Vancouver, Canada |
| 2013 | *Decoding metabolic phenotypes in cancer.* Vesalius Research Institute Seminar Series | Leuven, Belgium |
| 2013 | *Cancer cell metabolism – Basic Biology and Translational Approaches.* Cancer Research UK – Cambridge Institute | Cambridge, UK |
| 2014 | *Metabolic Versatility in Cancer Cells.* Keystone Symposia on *Tumor Metabolism* and *Metabolism and Angiogenesis* | Whistler, BC, Canada |
| 2014 | *Probing Tumor Metabolism in Vivo.* Beatson International Cancer Conference, Cancer Research UK. | Glasgow, Scotland UK. |
| 2014 | *Metabolic heterogeneity in cancer.* Bart’s Cancer Institute – Cancer Research UK Centre of Excellence, Centre for Molecular Oncology | London, UK |
| 2014 | *Metabolic heterogeneity in cancer cells.* EMBO Workshop on Translational Advances in cancer cell imaging and metabolism. | Bilbao, Spain |
| 2015 | *Conventional and Unconventional Roles of Mitochondrial Enzymes in Tumor Cell Metabolism.* Keystone Symposium on *Integrating Metabolism and Tumor Biology*. | Vancouver, B.C., Canada |
| 2015 | *Metabolic Heterogeneity in Cancer Cells and Tumors.* 46th Annual Symposium of the Princess Takamatsu Cancer Research Fund: “Onco-metabolomics: A New Clue to Understand Carcinogenesis, Cancer Biology and to Develop Novel Diagnostics and Therapeutics.  | Tokyo, Japan |
| 2016 | *Understanding Metabolic Heterogeneity in Cancer Cells and Tumors.* Keystone Symposium on *New Frontiers in Understanding Tumor Metabolism.* | Banff, Alberta, Canada |
| 2016 | *Understanding Metabolic Heterogeneity in Cancer Cells and Tumors.* Fondation IPSEN Conference on Tumor Metabolism. | San Pedro de Atacama, Chile |
| 2016 | *Metabolic outliers in human disease.* Company of Biologists Symposium | West Sussex, UK |
| 2016 | *Metabolic Phenotypes and Vulnerabilities in Cancer.* Beatson International Cancer Conference | Glasgow, UK |
| 2016 | *Metabolic Phenotypes and Vulnerabilities in Cancer.* Transcriptional and Metabolic Reprogramming in Cancer Symposium, MaRS Discovery District | Toronto, Ontario, Canada |
| 2016 | *Oncogenic control of mitochondrial metabolism in cancer cells and tumors.* Cold Spring Harbor – Asia conference on cancer metabolism | Suzhou, China |
| 2016 | *Metabolic heterogeneity in cancer cells and tumors.* Innovation Forum, Shanghai Jiao Tong University School of Medicine | Shanghai, China |
| 2017 | *Heterogeneous Metabolic Phenotypes and Liabilities in Human Cancer.* Keystone Symposium on Tumor Metabolism – Mechanisms and Targets | Whistler, BC, Canada |
| 2017 | *Heterogeneous Metabolic Phenotypes and Liabilities in Human Cancer.* Fusion Conference on Cell Death, Stress and Metabolism. | Cancun, Mexico |
| 2017 | *Understanding Metabolic Phenotypes in Cancer.* 2nd Australian Cancer and Metabolism Meeting (Keynote Lecture) | Melbourne, Australia |
| 2017 | *Understanding Metabolic Phenotypes in Cancer Cells and Tumors.* Inaugural Immunometabolism and Chronic Disease Conference | Coral Coast, Fiji |
| 2017 | *Understanding Metabolic Phenotypes and Liabilities in Human Cancer.* 1st Francis Crick Institute International Cancer Conference | London, UK |
| 2017 | *Understanding Metabolic Phenotypes in Human Cancer.* MRC Institute of Genetics and Molecular Medicine, University of Edinburgh | Edinburgh, UK |
| 2018 | *Metabolic Dysregulation in Cancer and Other Diseases.* Lady Davis Institute, McGill University | Montreal, Canada |
| 2018 | *Metabolic Reprogramming in Human Tumors In Vivo.* Metabolism in Cancer and Stromal Cells Conference, Vesalius Institute of Biology Conference Series | Leuven, Belgium |
| 2018 | *Metabolic Dysfunction and Human Disease Phenotypes.* 1st Conference on Precision Nutrition and Metabolism | Chania, Crete, Greece |
| 2019 | *Metabolic Dysfunction and Human Diseases.* Sick Kids Hospital | Toronto, Canada |
| 2019 | *Metabolic Enablers of Cancer Progression.* Keystone Symposia Cancer Metastasis: The Role of Metabolism, Immunity and the Microenvironment | Florence, Italy |
| 2019 | *Metabolic Perturbations and Human Disease* Nature Conference on Cellular Metabolism | Xiamen, China |
| 2019 | *Metabolic Anomalies and Tissue Dysfunction in Humans,* Fusion Conference | Puerto Vallarta, Mexico |
| 2019 | *Understanding Metabolic Phenotypes in Human Tumors ,* CIG Symposium | Lausanne, Switzerland |
| 2019 | *50th Princess Takamatsu International Cancer Symposium* | Tokyo, Japan |
| 2020 | *Human tumor metabolism in vivo.* EACR Virtual Conference on Cancer Metabolism | Virtual |
| 2020 | *Metabolic Perturbations in disease and development.* Symposium on Inter-Organ Communication in Health and Disease | Virtual |
| 2021 | *Metabolic Phenotypes and Cancer Progression in Humans.* Beatson Institute Conference | Virtual |
| 2021 | *Metabolic Outliers In Human Disease.* Metabolism Down Under Seminar Series, Charles Perkins Centre, Sydney, Australia  | Virtual |
| 2021 | *Metabolic Outliers In Human Disease.* ICVS Life and Health Sciences Research Institute, Braga, Portugal | Virtual |
| 2021 | *Cancer Metabolism in Patients: What Can We Learn from In Vivo Analysis?* Cancer Immunometabolism Conference (EMBO Workshop) | Sitges, Spain |
| 2022 | *Metabolic Outliers in Human Disease.* Dutch Translational Medicine | Virtual |
| 2022 | *Metabolic Outliers in Human Disease.* EMBL Symposium on Inter-Organ Communication | Virtual |
| 2022 | *Mendelian anomalies in human growth and development.* FUSION Conference on Metabolism in Health and Disease | Cancun, Mexico |
| 2022 | *Metabolic phenotypes and cancer progression in humans.* Lake Como Cancer Meeting | Lake Como, Italy |
| 2022 | *Tumor Metabolism and Cancer Progression in Humans.* European Association for Cancer Research (EACR) Cancer Metabolism Conference. | Bilbao. Spain |
| 2022 | *Inborn errors of metabolism as a window into human development.* Developmental Metabolism and the Origins of Health and Disease COB Workshop | East Sussex, UK |
| 2022 | *Metabolic outliers in human disease.* Cell Symposia: Multifaceted Mitochondria | Seville, Spain |
| 2023 | *Metabolic outliers in human disease.* McGill Research Institute Talk | Montreal, Canada |
| 2023 | *Metabolic Reprogramming and Cancer Progression in Patients.* Medicine at the Crick Series, ISCaM2023 | London, UK |
| 2023 | *Metabolic assessments of Mendelian diseases – diagnosis and discovery.* Medicine at the Crick Series. | London, UK |
| 2024 | *Metabolism in situ.* Keystone Symposia: Tumor Metabolism | Banff, Canada |
| 2024 | *Metabolic reprogramming and cancer progression in patients: what should we look for and how might we see it?* TOPIM 2024 | Siena, Italy |
| 2024 | *Metabolomics of Mitochondrial Energy Metabolism.* INFORM 2024 | Porto, Portugal |
| 2024 | *Human Metabolic Variation and its impact on disease.* FUSION: 3rd Metabolism in Health & Disease Conference | St. Julians, Malta |
| 2025 | *Metabolic Reprogramming in Patients.* Nobel Conference, Karolinska Institute | Stockholm, Sweden |
| National |
| 2008 | *Regulation of cellular metabolism by manipulating signal transduction pathways: Akt and c-Myc promote an anabolic phenotype favoring cell growth.* Society for Inherited Metabolic Disorders | Asilomar, CA |
| 2008 | *Is cancer a disease of abnormal cellular metabolism?* Medical Genetics Grand Rounds, Harvard Medical School – Partners Center for Genetics and Genomics.  | Boston, MA |
| 2009 | *Towards an oncogene-metabolism signaling network in cancer: a pathway to new strategies for diagnosis and treatment.* Genentech Cancer Metabolism Group | San Francisco, CA |
| 2009 | *Tumor metabolism: What should we look for and how can we see it?* American Association for Cancer Research Annual Meeting | Denver, CO |
| 2009 | *Signal transduction and the metabolism of tumor cell growth: How do the rich keep getting richer?* American Aging Association Annual Meeting | Scottsdale, AZ |
| 2009 | *Integrating signal transduction and metabolism in cancer.* Novartis Cancer Metabolism Group | Cambridge, MA |
| 2009 | *The versatility of glutamine in tumor cell growth and survival.*  5th International Conference on Tumor Cell Metabolism | Louisville, KY |
| 2009 | *Can we exploit tumor metabolism to find and fight cancer? An old question with new legs.* GlaxoSmithKline Cancer Metabolism Group | Upper Providence, PA |
| 2010 | *The Warburg effect, the truncated TCA cycle, and other metabolic targets in tumor cells.* Pfizer Center for Integrative Biology and Biotherapeutics | Pearl River NY |
| 2011 | *The role of the mitochondria in tumor cell growth.* Department of Biological Chemistry, Johns Hopkins University School of Medicine | Baltimore, MD |
| 2011 | *Cancer metabolism:* *fundamental principles and therapeutic implications.* Metabolism and Human Disease Symposium (sponsored by Pfizer), NY Academy of Sciences | New York, NY |
| 2011 | *Mitochondrial metabolism in the survival and growth of cancer cells.* American Association for Cancer Research Annual Meeting.  | Orlando, FL |
| 2011 | *Adventures in Tumor Metabolism: Applying principles of intermediary metabolism to tumor cell growth in vitro and in vivo.* Division of Genetics, The Children’s Hospital of Philadelphia | Philadelphia, PA |
| 2011 | *Basic and translational studies in tumor cell metabolism.* Agios Pharmaceuticals | Cambridge, MA |
| 2011 | *Cancer metabolism – updates and therapeutic targets.* GlaxoSmithKline, Cancer Metabolism Group | Upper Providence, PA |
| 2011 | *The mitochondria and tumor cell growth.* Society for Neuro-Oncology Annual Meeting | Garden Grove CA |
| 2011 | *Mitochondrial metabolism and tumor cell growth.* Eppley Cancer Institute, University of Nebraska Medical Center | Omaha, NE |
| 2012 | *Metabolic Outliers in Cancer.* Elkin Seminar Series, Emory University | Atlanta, GA |
| 2012 | *Modes of mitochondrial metabolism in tumor cell growth*.Pfizer Oncology Research | La Jolla, CA |
| 2012 | *Cancer cell metabolism in culture, mice and humans*. University of Pennsylvania, Department of Cancer Biology | Philadelphia, PA |
| 2012 | *Probing cancer cell metabolism in culture and in vivo*.Cell Signaling Seminar Series, Washington University in St. Louis | St. Louis, MO |
| 2012 | *Understanding the importance of mitochondrial metabolism for cancer.* American Association for Cancer Research Annual Meeting.  | Chicago, IL |
| 2012 | *The indispensability of mitochondrial metabolism in cell growth and tumorigenesis.* Vanderbilt Institute of Chemical Biology | Nashville, TN |
| 2012 | *The Versatility of Mitochondrial Metabolism in Tumor Cell Growth.* United Mitochondrial Disease Foundation, Mitochondrial Medicine symposium. | Bethesda, MD |
| 2012 | *Intermediary Metabolism and Cancer: Cell Biology and Translational Opportunities.* Cancer Biology Seminar Miniseries. Cornell University | Ithaca, NY |
| 2012 | *Cancer Metabolism: Biological Insights and Translational Opportunities.* Van Andel Research Institute | Grand Rapids, MI |
| 2012 | *Analyzing Tumor Cell Metabolism In Culture and In Vivo.* NCI-Sponsored workshop on Metabolic Reprogramming of the Immune Response in the Tumor Microenvironment | Rockville, MD |
| 2012 | *Cancer Metabolism: Approaches, Insights, and Opportunities.* Department of Pharmacology and Cancer Biology, Duke University Medical Center | Durham, NC |
| 2012 | *Cancer Metabolism.* Inflammation, Cancer and Metabolism. Banbury Center of Cold Spring Harbor Laboratory. | Cold Spring Harbor, NY |
| 2012 | *Diversity of Metabolic Pathways in Cancer Cell Growth.* Massachusetts General Hospital Cancer Center. | Boston, MA |
| 2013 | *Metabolic Imaging in Cancer: What Should We Look For?* AACR-SNMMI Joint Conference on State-of-the-Art Molecular Imaging in Cancer Biology and Therapy. | San Diego, CA |
| 2013 | *Cancer Metabolism: Cell Biology and Translational Opportunities.* Cancer & Blood Diseases Institute, Cincinnati Children’s Hospital | Cincinnati, OH |
| 2013 | *Cancer Metabolism: Analytical Approaches and Translational Opportunities.* Lewis-Sigler Institute/Princeton University | Princeton, NJ |
| 2013 | *Measuring metabolism in vivo.* Keystone Symposium on Tumor Metabolism  | Keystone, CO |
| 2013 | *Cancer Metabolism: Cell Biology and Translational Opportunities.* Department of Biochemistry and Biophysics, University of Rochester. | Rochester, NY |
| 2013 | *Biochemical Paths to Cancer Cell Growth.* Department of Biochemistry Seminar Series, University of Utah. | Salt Lake City, UT |
| 2013 | *The Krebs Cycle and Tumor Growth.* American Association for Cancer Research Annual Meeting.  | Washington, DC |
| 2013 | *Metabolic Pathway Analysis in Cancer.* American Society for Biochemistry and Molecular Biology/Experimental Biology, Annual Meeting. | Boston, MA |
| 2013 | *Metabolic Complexity in Cancer Cells and Tumors.* Children’s Hospital Boston, Department of Pediatrics Hematology/Oncology Seminar Series | Boston, MA |
| 2013 | *Mitochondrial metabolism in cancer.* FASEB conference on Mitochondrial Biogenesis and Dynamics in Health, Disease and Aging. | Big Sky, MT |
| 2013 | *Metabolomics and Metabolic Flux Analysis.* 54th Annual Short Course on Medical and Experimental Mammalian Genetics | Bar Harbor, ME |
| 2013 | *Systematic analysis of cancer metabolism in culture and in vivo.* Department of Genetics and Complex Diseases, Harvard School of Public Health | Boston, MA |
| 2013 | *Metabolomics of cancer cell lines and tumors.* Metabolomics Summit, Agios Pharmaceuticals, Inc. | Cambridge, MA |
| 2013 | *Cancer Metabolism: Cell Biology and Translational Opportunities.* Center for Childhood Cancer Research, Children’s Hospital of Philadelphia | Philadelphia, PA |
| 2014 | *Understanding metabolic heterogeneity in cancer.* American Association for Cancer Research Annual Meeting | San Diego, CA |
| 2014 | *Metabolic Versatility in Cancer Cells.* Memorial Sloan-Kettering Cancer Center | New York, NY |
| 2014 | *Understanding metabolic heterogeneity in cancer.* Southern Illinois University | Marion, IL |
| 2014 | *Understanding metabolic heterogeneity in cancer.* Koch Institute for Integrative Cancer Research, Massachusetts Institute of Technology | Cambridge, MA |
| 2014 | *Metabolic Outliers in Human Disease,* University of Pennsylvania Combined-Degree Program | Philadelphia, PA |
| 2014 | *Metabolic Heterogeneity in Cancer Cells,* Stable Isotope Resolved Metabolomics Symposium | Lexington, KY |
| 2014 | *Metabolic Versatility in Cancer,* BMC Sympoisum on Metabolism, Diet and Disease | Washington, DC |
| 2014 | *Metabolomics and Metabolic Flux Analysis.* 55th Annual Short Course on Medical and Experimental Mammalian Genetics | Bar Harbor, ME |
| 2014 | *Using stable isotopes to analyze metabolic reprogramming in cancer,* International Council on Magnetic Resonance in Biological Systems, Annual Meeting | Dallas, TX |
| 2014 | *Cancer Metabolism – Cell Biology and Translational Opportunities.* University of Pennsylvania, Department of Pharmacology | Philadelphia, PA |
| 2014 | *Metabolic Heterogeneity in Cancer.* St. Jude Research Hospital, Annual Biomedical Science Symposium. | Memphis, TN |
| 2014 | *Metabolic Heterogeneity in Cancer.* University of California at Berkeley, Department of Nutrition and Toxicology. | Berkeley, CA |
| 2015 | *Understanding Metabolic Heterogeneity in Cancer Cells and Tumors.* Yale University | New Haven, CT |
| 2015 | *Understanding Metabolic Heterogeneity in Cancer Cells and Tumors*. AACR, Society for Nuclear Medicine and Molecular Imaging, National Meeting | San Diego, CA |
| 2015 | *Understanding Metabolic Heterogeneity in Cancer Cells and Tumors*. Institute for Cancer Genetics, Columbia University | New York, NY |
| 2015 | *Decoding Metabolic Heterogeneity in Cancer Cells and Tumors*. Abramson Family Cancer Research Institute at the University of Pennsylvania | Philadelphia, PA |
| 2015 | *Understanding Metabolic Heterogeneity in Cancer Cells and Tumors*. American Association for Cancer Research, Annual Meeting | Philadelphia, PA |
| 2015 | *Approaches to understanding tumor metabolism.* SUNY Stony Brook Cancer Center | Stony Brook, NY |
| 2015 | *Understanding Metabolic Heterogeneity in Cancer Cells and Tumors*. Department of Pharmacology, Weill Cornell School of Medicine | New York, NY |
| 2015 | *Metabolic Heterogeneity in Cancer Cells and Tumors*. AACR Special Conference on Cancer Metabolism | Bellevue, WA |
| 2015 | *Metabolic Heterogeneity in Cancer Cells and Tumors*. Salk Institute | La Jolla, CA |
| 2015 | *Metabolomics and Metabolic Flux Analysis.* 56th Annual Short Course on Medical and Experimental Mammalian Genetics. Jackson Laboratory | Bar Harbor, ME |
| 2015 | *Metabolic Heterogeneity in Cancer Cells and Tumors*. Metabolic Signaling & Disease: From Cell to Organism. Cold Spring Harbor Symposium | Cold Spring Harbor, NY |
| 2015 | *Metabolomics and Metabolic Flux Analysis.* 24th Annual Short Course on Experimental Models of Human Cancer. Jackson Laboratory | Bar Harbor, ME |
| 2015 | *Metabolic Heterogeneity in Cancer.* Banbury Conference on Tumor Cell Metabolism. | Cold Spring Harbor, NY |
| 2016 | *Understanding Metabolic Heterogeneity in Cancer Cells and Tumors*. Cancer Biology Training Program, University of Colorado Denver – Anschutz Medical Campus | Aurora, CO |
| 2016 | *Understanding Metabolic Phenotypes in Cancer Cells and Tumors*. Stanford University | Stanford, CA |
| 2016 | *Understanding Metabolic Heterogeneity in Cancer Cells and Tumors*. Cancer Center Seminar Series, Case Western Reserve University | Cleveland, OH |
| 2016 | *Cancer Metabolism,* International VHL Symposium | Boston, MA |
| 2016 | *Metabolic Heterogeneity in Cancer Cells and Tumors*. American Association for Cancer Research, Annual Meeting | New Orleans, LA |
| 2016 | *Metabolic Heterogeneity in Cancer Cells and Tumors*. Department of Biochemistry and Molecular Genetics Seminar Series, University of Illinois-Chicago | Chicago, IL |
| 2016 | *Shared Themes of Metabolic Regulation.* American Diabetes Association, National Meeting | New Orleans, LA |
| 2016 | *Analyzing cancer metabolism in vivo.* Cold Spring Harbor Laboratories, Course on Metabolomics | Cold Spring Harbor, NY |
| 2016 | *Metabolomics and Metabolic Flux Analysis.* 57th Annual Short Course on Medical and Experimental Mammalian Genetics | Bar Harbor, ME |
| 2016 | *Oncogenic Control of Mitochondrial Metabolism in Cancer Cells and Tumors.* The PI3K-mTOR-PTEN Network in Health and Disease Symposium. | Cold Spring Harbor, NY |
| 2016 | *Cancer Metabolism.* Forbeck Scholars’ Retreat | Lake Geneva, WI |
| 2016 | *Establishing metabolic phenotypes and liabilities in cancer.* University of Michigan, Cancer Biology Graduate Program | Ann Arbor, MI |
| 2017 | *The role of metabolic reprogramming in understanding and treating cancer.* Pediatric Grand Rounds, The Children’s Hospital of Philadelphia | Philadelphia, PA |
| 2017 | *Understanding metabolic phenotypes and liabilities in cancer cells and tumors.* University of Washington Department of Biochemistry Seminar Series.  | Seattle, WA |
| 2017 | *Metabolic Phenotypes and Liabilities in Human Lung Cancer.* H Foundation Basic Science Symposium, Northwestern University | Chicago, IL |
| 2017 | *Metabolic Phenotypes and Liabilities in Human Lung Cancer.* Washington University in St. Louis | St. Louis, MO |
| 2017 | *Metabolic Phenotypes and Liabilities in Cancer.* Targeting Cancer Metabolism and Signaling, New York Academy of Sciences | New York, NY |
| 2017 | *Genetically-encoded metabolic alterations in human disease.* Metabolomics Course, Cold Spring Harbor Laboratories | Cold Spring Harbor, NY |
| 2017 | *Metabolic phenotypes and liabilities in human cancer.* National Cancer Institute, National Institutes of Health | Bethesda, MD |
| 2017 | *Metabolic phenotypes and liabilities in human cancer.* FASEB Conference on Glucose Transporters | Snowmass, CO |
| 2017 | *Metabolomics and Metabolic Flux Analysis.* 58th Annual Short Course on Medical and Experimental Mammalian Genetics | Bar Harbor, ME |
| 2017 | *Understanding metabolic phenotypes and liabilities in human cancer.* Frontiers in Cancer Prevention, Research and Therapy symposium. Huntsman Cancer Institute, University of Utah | Salt Lake City, UT |
| 2017 | *Heterogeneity of metabolic phenotypes and liabilities in human cancer.* AGBT Precision Health Conference. | Scottsdale, AZ |
| 2017 | *Assessing Tumor Metabolism in Vivo.* MD Anderson Cancer Center Symposium on Cancer Research. | Houston, TX |
| 2017 | *Understanding metabolic phenotypes in human cancer.* American Society of Human Genetics Annual Meeting | Orlando, FL |
| 2018 | *Metabolic Complexity in Cancer Cells and Tumors.* Keystone Symposium on Cancer Metabolism | Snowbird, UT |
| 2018 | *Understanding Metabolic Phenotypes in Human Cancer.* 14th Annual UCLA Stem Cell Symposium | Los Angeles, CA |
| 2018 | *Metabolic Heterogeneity and Liabilities in Cancer.* University of California – San Francisco | San Francisco, CA |
| 2018 | *Metabolic Heterogeneity in Human Cancer.* 2nd Pediatric Precision Oncology Conference | Scottsdale, AZ |
| 2018 | *Human Tumor Metabolism In Vivo,* 4th Sanford-Burnham-Prebys Medical Discovery Institute Cancer Metabolism Symposium | La Jolla, CA |
| 2018 | *Metabolic Complexity in Cancer Cells and Tumors.* Cold Spring Harbor Labs, Cancer Mechanisms and Models Conference | Cold Spring Harbor, NY |
| 2018 | *Metabolic Reprogramming in Human Tumors In Vivo.* 30th Anniversary AACR Special Conference Convergence: Artificial Intelligence, Big Data and Prediction in Cancer | Newport, RI |
| 2018 | *Keynote Lecture: “Metabolic Dysfunction and Human Disease Phenotypes”* Cell Symposia: Metabolites as Signaling Molecule | Seattle, WA |
| 2019 | *Metabolic Outliers in Cancer and Other Human Diseases.* Gordon Conference on Metabolomics in Human Health and Disease | Ventura, CA |
| 2019 | *Metabolic Perturbations and Human Disease.* Keystone Symposia Conference | Tumor Metabolism | Keystone, CO |
| 2019 | *Metabolic Complexity in Cancer Cells and Tumors.* 2nd Nature MSKCC Conference “The Tumor Cell Plasticity, Progression and Therapy.” | New York, NY |
| 2019 | *Analyzing tumor metabolism in patients.*AACR Annual Meeting | Atlanta, GA |
| 2019 | Department of Laboratory Medicine and Pathology Grand Rounds Seminar | Minneapolis, MN |
| 2019 | *Metabolic Reprogramming in Human Tumors in Vivo.* ASPHO Conference | New Orleans, LA |
| 2019 | *Metabolic Dysregulation and Human Disease Phenotypes*. NYAS Cancer Metabolism and Signaling | New York, NY |
| 2019 | *Mitochondria and Cancer Metabolism.* CSHL Mechanisms of Metabolic Signaling | Cold Spring Harbor, NY |
| 2019 | *Metabolic dysfunction in human diseases.* Van Andel Symposium  | Grand Rapids, MI |
| 2019 | *Metabolomics and Human Disease.* Human and Mammalian Genetics and Genomics: The 60th McKusick Short Course | Bar Harbor, ME |
| 2019 | *Metabolic Dysregulation and Human Disease Phenotypes.* Frontier in Metabolism Mechanisms of Metabolic Disease | Madison, WI |
| 2019 | *Using stable isotopes to identify and understand metabolic phenotypes in human cancer.* Biology of Cancer: Microenvironment and Metastasis | Cold Spring Harbor, NY |
| 2019 | *The impact of metabolic dysfunction in human diseases.* University of Chicago's Committee-Cancer Biology Seminar Series | Chicago, IL |
| 2020 | *Metabolomics in the Assessment of Human Diseases.* Human and Mammalian Genetics and Genomics: The 61st McKusick Short Course | Bar Harbor, ME |
| 2020 | *Metabolic phenotypes and cancer progression in humans*. Mechanisms & Models of Cancer | Cold Spring Harbor, NY |
| 2020 | *Metabolic phenotypes and liabilities in human cancer.* Cancer Institute of New Jersey | New Brunswick, NJ |
| 2020 | *Metabolic phenotypes and cancer progression in humans.* St. Jude Cancer Biology Program | Memphis, TN |
| 2020 | *Metabolic phenotypes and liabilities in human cancer.* AACR Meeting on Cancer Epigenetics and Metabolism | Philadelphia, PA |
| 2020 | *Metabolic phenotypes and cancer progression in humans.* Beth Israel Deaconess Medical Center | Boston, MA |
| 2020 | *Metabolic phenotypes and liabilities in human cancer.* Indiana University Cancer Center Grand Rounds | Indianapolis, IN |
| 2020 | *Metabolic phenotypes and cancer progression in humans.* University of Illinois – Chicago Costa Symposium | Chicago, IL |
| 2020 | *Metabolic phenotypes and cancer progression in humans.* University of Massachusetts Molecular, Cell and Cancer Biology | Worcester, MA |
| 2020 | *Metabolic phenotypes and liabilities in human cancer.* University of Kentucky’s Markey Cancer Center Research Seminar | Lexington, KY |
| 2020 | *Metabolic phenotypes and liabilities in human cancer.* Boston Children’s Department of Pathology Seminar | Boston, MA |
| 2020 |  *Metabolic phenotypes and liabilities in human cancer.* Third Rock Ventures | Boston, MA |
| 2020 | *Metabolic phenotypes and liabilities in human cancer.* Winship Cancer Institute at Emory University | Druid Hills, GA |
| 2020 | *Metabolic Reprogramming in Human Cancer: Insights into Mechanisms and Opportunities for New Therapies.* 2020 AACC Annual Scientific Meeting & Clinical Lab Expo | Fairfax, VA  |
| 2021 | *Metabolic phenotypes and liabilities in human disease.* Pediatric Heme/Onc Research Seminar series - Boston Children's | Boston, MA |
| 2021 | *Compartmentalized Metabolism in Physiological States of Growth.* Keystone Symposia on Tumor Metabolism and the Microenvironment | Breckenridge, CO |
| 2021 | *Metabolic Reprogramming in Human Tumors In Vivo.* Sidney Kimmel Cancer Center at Thomas Jefferson University Grand Rounds | Philadelphia, PA |
| 2021 | *Metabolic perturbations and their role in human disease.* Stanford University Frontiers in Biology Seminar Series | Stanford, CA |
| 2021 | *Metabolic Transitions and Anomalies in* *Development.* Keystone Symposia on Metabolic Decisions in Development and Disease | Santa Fe, NM |
| 2021 | *Assessing cancer metabolism in human tumors in vivo.* ASCI/AAP Disrupting the Science of Medicine | Chicago IL |
| 2021 | *Understanding Metabolism to Treat Human Disease.* Pfizer Frontiers in Human Disease Symposium 2021 | Virtual |
| 2021 | *Metabolomics.* McKusick Short Course on Human and Mammalian Genetics and Genomics. Jackson Laboratories.  | Virtual |
| 2021 | *The Developmental Consequences of Metabolic Defects.* Integrating Nutrition and Metabolism Across Scales, HHMI/Janelia Conference | Virtual |
| 2021 | *Metabolic Outliers In Human Disease.* Cincinnati Children's Hospital | Virtual |
| 2021 | ***Guanosine Triphosphate Links MYC-dependent Metabolic and Ribosome Programs in Small-cell Lung Cancer.*** IASLC 2021 Hot Topic Meeting: Small Cell Lung Cancer | Virtual |
| 2021 | *Metabolic Reprogramming in Human Disease.* Cold Spring Harbor Laboratories Seminar Series  | Virtual |
| 2021 | *Metabolic reprogramming in human disease.* University of Pittsburgh Medical Center- Hillman Cancer Center Basic & Translational Research Seminar | Virtual |
| 2022 | *Human Metabolic Outliers.* Agios- Genetically Defined Diseases Learning Series | Virtual |
| 2022 | *Metabolic reprograming in human cancer.* Georgetown-Lombardi Oncology Grand Rounds | Virtual |
| 2022 | *Human tunmor metabolism &cancer progression.* Forbeck Forum: Diet and Metabolic Theraputics in Cancer- Towards a Moleculart Understanding | Pacific Grove, CA |
| 2022 | *Human Metabilic Outliers.* The Science of Childhood Cancer Lecture Series; St. Jude | Virtual |
| 2022 | *Metabolic reporogramming in cancer and other diseases.* Paul Marks Prize Symposium | New York City, NY |
| 2022 | *Metabolic outliers in human disease: deep metabolic phenotypint in mendelian diseases.* University of Rochester Grand Rounds | Virtual |
| 2022 | *Metabolic Outliers in Human Disease.* American Society of Biochemisty and Milecular Biology | Philadelphia, PA |
| 2022 | *Metabolic Outliers in Human Disease: deep metabolic phenotyping in Mendelian Disorders.* Northwestern University, David W. Cugell Honorary Lectureship, Internal Medicine Grand Rounds | Virtual |
| 2022 | *Metabolic Phenotypes and Liabilities in Human Cancer.* University of Alabama – Birmingham, O’Neal Research Seminar | Virtual |
| 2022 | *Metabolic Outliers in Human Disease: deep metabolic phenotyping in Mendelian Disorders.* Children’s Hospital of Philadelphia, Michael Palmieri Lectureship in Metabolism, Pediatrics Grand Rounds | Philadelphia, PA |
| 2022 | *Metabolic phenotypes and cancer progression in humans.* Academy of Kidney Cancer Investigators | Virtual |
| 2022 | *Metabolic Phenotypes and Liabilities in Human Cancer.* Susan Swerling Lecture, Dana Farber Cancer Institute | Virtual |
| 2022 | *Metabolic Phenotypes and Liabilities in Human Cancer.* Weill-Cornell Cancer Metabolism and Inflammation Symposium | New York, NY |
| 2022 | *Application of cancer metabolism studies to lung cancer.* Hawaii Lung Cancer Summit, 2022 RET Summit | Kona, HI |
| 2022 | *Metabolomics and Disease Phenotypes.* Human and Mammalian Genetics and Genomics: The 63rd McKusick Short Course | Bar Harbor, ME |
| 2022 | *Metabolic Dependencies in Tumors in Humans.* Tumor Metabolism by Keystone Symposia on Molecular and Cellular Biology | Keystone, CO |
| 2022 | *Metabolic Outliers in Human Disease.* ICG Seminar Series | New York, NY |
| 2022 | *Metabolic Phenotypes and Liabilities in Human Cancer.* World Molecular Imaging Congress | Miami, FL |
| 2022 | *Metabolic outliers in human disease.* Kazazian Memorial, Department of Genetic Medicine Symposium | Baltimore, MD |
| 2022 | *Metabolic outliers in human diseases.* Department of Molecular MetabolismDistinguished Lecture Series, Public Health Seminar at Harvard | Boston, MA |
| 2023 | *Metabolic perturbation in human disease.* UCLA CTSI Speaker Series | Los Angeles, CA |
| 2023 | *Metabolic Perturbation and Its Role in Human Disease.* TransMed Symposium at UNC | Chapel Hill, NC |
| 2023 | *Metabolomics & Human Diseases.* The 64th McKusick Short Course. | Bar Harbor, ME |
| 2023 | *Metabolic Outliers & Human Disease.* Cedars-Sinai Seminar  | Los Angeles, CA |
| 2023 | *Metabolic Reprogramming and Cancer Progression in Patients.* Cancer Mechanisms and Models at Salk Institute | La Jolla, CA |
| 2023 | *Metabolic Reprogramming and Human Cancer Progression.* MSK Cell Biology Seminar | New York, NY |
| 2023 | *Metabolic Reprogramming in Cancer and Other Diseases.* Biochemistry and Molecular Pharmacology Seminar | New York, NY |
| 2023 | *Metabolism and Cancer Progression in Patients.* Molecular Mechanisms of Lung Disease Conference | Chicago, IL |
| 2023 | *Metabolic Reprogramming and Cancer Progression in Patients.* AACR Brain Cancer Special Conference | Minneapolis, MN |
| 2023 | *Metabolic Outliers and Human Disease.* Rosewell Park Comprehensive Cancer Center | Buffalo, NY |
| 2024 | *Metabolic Reprogramming and Cancer Progression in Patients.* OU Department of Oncology Science Seminar Series | Oklahoma City, OK |
| 2024 | *Overarching Perspectives on Metabolism.* Miami Symposium on Human Metabolism | Miami, FL |
| 2024 | *Metabolic Dysfunction and its Impact on Human Diseases.* Biochemistry Seminar Series, University of Wisconsin | Madison, WI |
| 2024 | *Metabolic Outliers and Human Disease.* 5th Simpson-Querrey Institute for Epigenetics Symposium, Northwestern University | Chicago, IL |
| 2024 | *Metabolic variation and human diseases.* Duke University Seminar Series | Durham, NC |
| 2024 | *Tumor Metabolism and Cancer Progression in Patients.* 2024 Molecular Therapeutics MTx, UC Berkeley | Berkeley, CA |
| 2024 | *Metabolic Outliers in Human Disease.* Genetech Lecture | San Francisco, CA |
| 2024 | *Metabolic Outliers and Human Disease.* Seminar at University of Florida, College of Medicine | Gainesville, FL |
| 2024 | *Metabolic perturbation and human disease.* CAMB Keynote | Philadelphia, PA |
| 2024 | *Metabolic Outliers in Human Disease.* UC Berkeley Lecture Series | Berkeley, CA |
| 2024 | *Metabolic Outliers in Human Disease.* St. Jude Research Hospital’s Danny Thomas Lecture Series | Memphis, TN |
| 2025 | *Metabolic Outliers in Human Disease.* UMass Med: Pioneer in Metabolism Award & Talk | Worcester, MA |
| 2025 | *Metabolic Outliers in Human Disease.* Larsen Lecture Honoree | Cincinnati, OH |
| 2025 | *Metabolic reprogramming and cancer progression in patients.* Abcam Cancer and Metabolism Meeting | Austin, TX |
| 2025 | *Metabolic Outliers in Human Disease.* Case Western – Harland G. Wood Distinguished Lecturer | Cleveland, OH |
| 2025 | *Metabolic Perturbations in Human Cancer Progression.* ASCI/AAP/APSA meeting | Chicago, IL |
| 2025 | *Fixed Metabolic Defects and their Developmental Consequences.* Keystone Symposium: Metabolic and Nutritional Control of Development and Cell Fate | Beverly, MA |
| 2025 | *Metabolic profiling in patients – lessons in disease mechanisms and therapy.* Cancer Molecular Therapeutics Research Association Meeting.  | Midway, UT |
| 2025 | *Metabolomics and Human Disease Phenotypes.* The 66th McKusick Short Course. | Bar Harbor, ME |
| 2025 | *Metabolism and Cancer Progression in Patients.* UCSF Helen Diller Family Cancer CenterSeminar | San Francisco, CA |
| 2025 | *Metabolic Outlier and Human Disease.* DMRC Rising Star Symposium | Salt Lake City, UT |
| Regional/Local |
| 2008 | *Brick by Brick: Metabolism, Signal Transduction and Tumor Cell Growth.* Harold C. Simmons Comprehensive Cancer Center Scientific Retreat | Dallas, TX |
| 2009 | *The Texas Newborn Screening Program.* The 41st Annual Kenneth C. Haltalin Pediatrics for the Practitioner Seminar  | Dallas, TX |
| 2009 | *Tumor metabolism in the 21st Century: new opportunities for imaging and therapy in cancer.* University of Texas – Southwestern Medical Center School of Medicine, Pediatrics Grand Rounds | Dallas, TX |
| 2010 | *Cancer therapy based on integrated understanding of cancer genetics and metabolism.* UT Southwestern Medical Center Advanced Imaging research Center, Symposium and Training XVIII: Intermediary Metabolism and Cancer | Dallas, TX |
| 2010 | *Multidisciplinary studies in tumor metabolism:* *Metabolic targets in glioblastoma.* CPRIT Innovations Conference. | Austin, TX |
| 2011 | *Methods and mechanisms in tumor cell metabolism: what should we look for and how can we see it?*  Department of Systems Biology, M.D. Anderson Cancer Center | Houston, TX |
| 2011 | *Fueling the fire in cancer:* *how tumors cells grow and survive stress.* Texas Genetics Society. | Dallas, TX |
| 2011 | *Metabolic mechanisms of tumor cell growth:* *when good pathways go bad.* First Annual Postdoctoral Science Symposium, MD Anderson Cancer Center. | Houston, TX |
| 2011 | *A novel pathway of glutamine metabolism fuels growth in cancer cells with defective mitochondria.* CPRIT Innovations Conference | Austin, TX |
| 2012 | *Tumor metabolism*: *Methods and Pathways.* Peloton Therapeutics, Inc | Dallas, TX |
| 2012 | *Basic and Translational Studies in Cancer Cell Metabolism.* Baylor Medical Center, Institute for Metabolic Disease | Dallas, TX |
| 2012 | *Cancer Metabolism.* Keynote address for Graduate Student Organization poster competition, UT Southwestern. | Dallas, TX |
| 2012 | *Metabolic flux in cancer cells and tumors.* CPRIT Innovations Conference | Austin, TX |
| 2012 | *Cancer Metabolism.* American Physician-Scientist Association South Regional Meeting. | Dallas, TX |
| 2012 | *Cancer Metabolism – New Insights from Basic and Translational Studies.* Pediatrics Grand Rounds, M.D. Anderson Cancer Center. | Houston, TX |
| 2012 | *Cancer Cell Metabolism – Basic and Translational Studies.* University of Texas – Health Sciences Center at San Antonio | San Antonio, TX |
| 2013 | *Cancer, Stem Cells and Metabolism.* Texas Association of Advisors to the Health Professions, annual meeting | Dallas, TX |
| 2013 | *Cancer Metabolism – Insights and Opportunities.* Endocrinology Grand Rounds, UT Southwestern Medical Center | Dallas, TX |
| 2013 | *Cancer Metabolism – Biological Insights and Translational Opportunities.* Texas A&M, Department of Biochemistry and Biophysics | College Station, TX |
| 2013 | *Cancer and Metabolism,* University of North Texas – Health Science Center, Molecular Biology Current Topic Seminars | Fort Worth, TX |
| 2014 | *Decoding Metabolic Phenotypes in Cancer,* James T. Willerson MD Cardiovascular Lecture, UT Houston | Houston, TX |
| 2014 | *Metabolic Heterogeneity in Cancer,* Keynote lecture, “Metabolism in Cancer” Symposium, Department of Cancer Systems Imaging, M.D. Anderson Cancer Center | Houston, TX |
| 2014 | *Cancer Metabolism: Basic Biology and Translational Opportunities.* Department of Nutritional Sciences | Austin, TX |
| 2015 | *Understanding Metabolic Heterogeneity in Cancer Cells and Tumors*. Baylor University, Department of Chemistry | Waco, TX |
| 2015 | *Understanding Metabolic Heterogeneity in Cancer Cells and Tumors*. Medical Scientist Training Program, UT Health Sciences Center at San Antonio | San Antonio, TX |
| 2015 | *Understanding Metabolic Heterogeneity in Cancer Cells and Tumors*. Department of Biochemistry and Cell Biology, Texas Tech University | Lubbock, TX |
| 2015 | *Understanding Metabolic Heterogeneity in Cancer Cells and Tumors*.Blaffer Lecture, University of Texas MD Anderson Cancer Center | Houston, TX |
| 2015 | *Understanding Metabolic Heterogeneity in Cancer Cells and Tumors*. Molecular and Cellular Biology Seminar Series, Baylor College of Medicine | Houston, TX |
| 2016 | *Metabolic Heterogeneity in Cancer Cells and Tumors*. Department of Biology, Southern Methodist University | Dallas, TX |
| 2016 | *Understanding Metabolic Heterogeneity in Cancer Cells and Tumors*. Department of Experimental Therapeutics, University of Texas MD Anderson Cancer Center | Houston, TX |
| 2016 | *Metabolic phenotypes and vulnerabilities in cancer.* Proteomics and Metabolomics Program, University of Texas MD Anderson Cancer Center | Houston, TX |
| 2017 | *The role of metabolic reprogramming in understanding and treating cancer.* Pediatric Grand Rounds, UT Southwestern | Dallas, TX |
| 2019 | *Metabolic Dysfunction and Human Disease Phenotypes.* University Lecture Series, UT Southwestern | Dallas, TX |
| 2019 | *Metabolism and human disease phenotypes.* Baylor College of Medicine | Houston, TX |
| 2019 | *Metabolic Heterogeneity and Liabilities in Lung Cancer* American Thoracic Society Conference | Dallas, TX |
| 2019 | *Metabolic Phenotypes and Liabilities in Human Cancer.* Greehey Distinguisher Lecture | San Antonio, TX |
| 2019 | *Metabolic dysfunction and human diseases.* TAMU Genetics Talk | College Station, TX |
| 2020 | *Finding and Fixing Metabolic Defects in Human Disease.* President’s Lecture, UT Southwestern | Dallas, TX |
| 2021 | ***Metabolic Anomalies in Human Cancer and Other Diseases.*** Regenerative Medicine Virtual Seminar Series, UT Southwestern | Virtual |
| 2021 | *Metabolic Outliers: What Do They Teach Us About Human Development and Disease?* Hamon Center Conference, UT Southwestern | Virtual |
| 2022 | *The role of metabolic reprogramming in human cancer and monogenic diseases.* University of Texas, Austin- Department of Nutritional Sciences Graduate Student Association Seminar | Austin, TX |
| 2023 | *Metabolic reprogramming and kidney cancer progression.* American Association for Cancer Research Special Conference: Advances in Kidney Cancer Research | Austin, TX |
| 2024 | *Metabolic Perturbation in Human Disease: Converging Insights from Cancer and Inborn Errors.* Molecular and Human Genetics Seminar at BCM | Houston, TX |
| 2025 | *Metabolic Reprogramming and Cancer Progression in Patients.* Abcam Cancer and Metabolism Meeting. | Austin, TX |

**Technological and Other Scientific Innovations**

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| Innovation |
| Patent, if any, pending or awarded /If described in print/on web, provide citation |
| Kazazian HH Jr, Ostertag EM and DeBerardinis RJ. Compositions and Methods of Use of Mammalian Retrotransposons. U.S. Patent Application No. 10/216,122. Filed 9/02. |

**Service to the Community**

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| Year(s) | Role | Organization or institution |

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| 2008 - present | Working committee on Texas Newborn Screening Program | Texas Department of Health |
| 2012 | Faculty member for panel discussion on advanced diagnostic techniques in genetics | Texas Department of Health |

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Letters to the Editor

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Clinical Practice Guidelines

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|  | Gotway G, Pichurin P, Waber L and DeBerardinis R. ***Handbook for the Care of Patients with Inborn Errors of Metabolism.*** These internal practice guidelines are distributed to clinical geneticists, neonatologists, pediatricians, and emergency physicians in the UT Southwestern system. |

**Non-peer reviewed scientific or medical publications/materials in print or other media**

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|  | Script consultation for television program “*ER*.” |
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|  | Interview on training and careers in Medical Genetics for “Specialty Series” podcast, recorded December 20, 2021 |

Signature: 

Date of signature: October 3, 2025