

Executive Committee Nominee for Faculty President

GSBS Educational Activities

Faculty Name: Dr. Jian Hu

This report covers a variety of formal activities tracked by the GSBS but is not intended to represent all graduate education activities of the faculty member. For example, informal mentoring efforts and activities that take place within specific GSBS graduate programs, non-GSBS programs, or academic departments are usually not included. When providing the report to others, faculty are encouraged to describe such activities in an attached Curriculum Vitae and/or Educational Statement.

Institution/Department: MDACC/Cancer Biology

Member Since: 12/1/2014 **Last Review:** 4/1/2020 **Next Review:** 12/1/2024 **Member Type:** Regular

Courses Taught

Term	Lecture Hours	Title	Course Number	Role
2023 Spring	30.5	Basic and Translatioinal Cancer Biology	GS04 1235	Director
2022 Fall	16	Biology of Neurological Diseases	GS14 1183	Co-Director
2022 Fall	1	Current Topics In Neuroscience	GS14 1611	Instructor
2022 Spring	15	Basic and Translatioinal Cancer Biology	GS04 1235	Instructor
2022 Spring	0	Basic and Translatioinal Cancer Biology	GS04 1235	Director
2021 Spring	14.5	Basic and Translatioinal Cancer Biology	GS04 1235	Director
2020 Fall	1	Current Topics In Neuroscience	GS14 1611	Instructor
2020 Fall	0.5	Foundations of Biomedical Research	GS21 1017	Instructor
2020 Fall	2	Topics In Molecular Medicine	GS21 1611	Instructor
2020 Spring	14.5	Basic and Translatioinal Cancer Biology	GS04 1235	Director
2020 Spring	1	Seminars in Integrative Biology and Pharmacology	GS12 1051	Instructor
2019 Fall	0.2	Foundations of Biomedical Research	GS21 1017	Instructor
2018 Fall	2	Fundamental Mechanisms of Cancer Development	GS04 1223	Instructor
2017 Spring	14	Scientific Writing	GS21 1152	Discussion Leader
2014 Fall	1	Foundations of Biomedical Research	GS21 1017	Instructor

Chair Of Advisory Committee

Student Name	Start Date	End Date	Degree Plan	Grad Date	Actual Grad Date and Degree Received
Hwang, Spring	05/04/2023		Ph.D.		
Lu, Kaylene	04/04/2022		Ph.D.		
Mei, Shaolin	03/02/2022		Ph.D.		
Palacios, Bridgitte	05/12/2021		Ph.D.		
McKenzie, Takese	05/04/2021		Ph.D.		

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Zorrilla-Veloz, Rocio	05/02/2019		Ph.D.			
Barnes, Joseph	03/07/2019		Ph.D.			
Yasar, Fatma	07/11/2016	12/16/2022	Ph.D.	12/16/2022	12/16/2022	Ph.D.
Shin, Seul A	04/30/2015	12/18/2020	Ph.D.	12/18/2020	12/18/2020	Ph.D.

Secondary Advisor Of Advisory Committee

Student Name	Start Date	End Date	Degree	Grad Date	Actual Grad Date and Degree Received
Li, Shengxin	07/08/2020		Ph.D.		
Zamler, Daniel	08/08/2018	05/06/2022	Ph.D.	05/06/2022	05/06/2022 Ph.D.

Member Of Advisory Committee

Student Name	Role	Start Date	End Date	Degree	Grad Date
Maldonado, Ana	Member (Outside Area)	06/14/2023		M.S.	
Yang, Boxuan	Member (Outside Area)	04/12/2023		M.S.	
Zaman, Mohammad Fayyad	Member	02/08/2023		Ph.D.	
Gong, Pengju	Member	10/12/2022		Ph.D.	
Li, Yating	Member	10/12/2022		Ph.D.	
Qi, Yutao	Member	09/14/2022		Ph.D.	
Whitfield, Benjamin	Member	09/14/2022		M.D./Ph.D.	
William, Ivana	Member	09/14/2022		Ph.D.	
Peshoff, Mekenzie	Member	04/13/2022		Ph.D.	
Stitzlein, Lea	Member	09/08/2021		Ph.D.	
Lea, Spencer	Member	02/10/2021		Ph.D.	
Rivera-Caraballo, Kimberly	Member	12/09/2020		Ph.D.	
Ting, Shun-Ming	Member	12/11/2019		Ph.D.	
Han, Jincheng	Member	11/13/2019		Ph.D.	
Zhu, Yan	Member (Outside Area)	11/13/2019		Ph.D.	
Dharmaiah, Sharvari	Member	09/11/2019		Ph.D.	
Sonnemann, Heather	Member (Outside Area)	08/14/2019		Ph.D.	
Jiang, Yingda	Member	11/09/2016		Ph.D.	
Liu, Arthur	Member (Outside Area)	10/04/2017	05/05/2023	Ph.D.	05/05/2023
Khadka, Sunada	Member	11/08/2017	05/06/2022	Ph.D.	05/06/2022
Hasan, Farah	Member (Outside Area)	11/14/2018	08/10/2021	Ph.D.	08/10/2021
Li, Yating	Member	05/08/2019	08/11/2020	M.S.	08/11/2020
Raj, Priyank	Member	03/20/2019	07/11/2019	Ph.D.	
Sahnoune, Iman	Member	11/08/2017	08/08/2018	Ph.D.	05/07/2021
Kwak, Changsoo	Member	10/14/2015	05/05/2017	Ph.D.	05/05/2017

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Examining Committee Participation

Student Name	Role	Exam Date
Whitfield, Benjamin	Member (Outside Area)	08/09/2023
Gong, Pengju	Chair	07/12/2023
Qi, Yutao	Chair	06/14/2023
Subramanian, Shraddha	Member	03/08/2023
Korf, Janelle	Member	02/08/2023
Li, Yating	Member	02/08/2023
Steiner, Madeline	Member (Outside Area)	02/08/2023
Ling, Hsiang-Hsi	Chair	01/12/2023
Bayraktar, Recep	Chair	01/11/2023
Wu, Haoyi	Member (Outside Area)	01/11/2023
Yang, Shao-Ping	Member	01/11/2023
Warner, Amanda	Chair	12/14/2022
Stitzlein, Lea	Member	10/17/2022
Chen, Jasper	Member	10/12/2022
Mondal, Jayanta	Chair	06/08/2022
Li, Chenyang	Chair	05/11/2022
Rajkumar Bhanu, Krithikaa	Member (Outside Area)	05/11/2022
Aksoy, Tuba	Member	03/09/2022
Lea, Spencer	Member	03/09/2022
Visal, Tanvi	Chair	02/09/2022
Caggiano, Emily	Member (Outside Area)	01/12/2022
Shaheen, MennatAllah	Chair	12/08/2021
Rivera-Caraballo, Kimberly	Chair	10/13/2021
Winkler, Michelle	Member (Outside Area)	06/09/2021
Zhu, Yan	Chair	05/12/2021
Han, Jincheng	Chair	03/04/2021
Hsu, Wen-Hao	Member	02/10/2021
LaBella, Kyle	Member	02/10/2021
Dharmaiah, Sharvari	Chair	01/13/2021
Sonnemann, Heather	Member (Outside Area)	11/11/2020
Li, Shengxin	Member	09/09/2020
Boda, Akash	Member (Outside Area)	05/18/2020
Yen, Er-Yen	Member	11/13/2019
Li, Jiexi	Chair	02/13/2019
Cai, Li	Substitute	01/09/2019
Wang, Xiaobo	Member	10/10/2018
Khadka, Sunada	Member	09/12/2018
Liu, Arthur	Member	09/12/2018
Jiang, Yingda	Member	10/04/2017
Shaw, Justin	Member (Outside Area)	09/13/2017
Xiong, Jian	Member (Outside Area)	09/14/2016
Fletcher Sananikone, Eliot	Member (Outside Area)	01/20/2016
Wang, Yifan	Member (Outside Area)	09/09/2015
Kwak, Changsoo	Chair	12/01/2014

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Tutorials Supervised

Student Name	Term
Khan, Romeesa	2023 Summer
Parthasarathy, Akhila	2023 Spring
Rodriguez, Mya	2023 Spring
Scott, Kiersten	2023 Spring
Hwang, Spring	2022 Fall
Won, David	2022 Fall
Zaman, Mohammad Fayyad	2022 Summer
Peshoff, Mekenzie	2022 Spring
Lu, Kaylene	2021 Fall
McKenzie, Takese	2021 Spring
Palacios, Bridgitte	2021 Spring
Mei, Shaolin	2020 Spring
Rivera-Caraballo, Kimberly	2020 Spring
Cai, Yiming	2019 Fall
Chen, Ko-Chien	2019 Spring
Zhu, Yan	2019 Spring
Zorrilla-Veloz, Rocio	2019 Spring
Barnes, Joseph	2018 Fall
d'Aigle, John	2018 Fall
Zamler, Daniel	2018 Spring
Chandra, Vidhi	2017 Fall
Shaw, Justin	2016 Spring
Yasar, Fatma	2016 Spring
Shin, Seul A	2015 Spring

Mini-Rotations(MS)/Trial Periods(PhD)

Student Name	Term
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Program Affiliation

Program	Role	Start Date	End Date
Cancer Biology	Director	09/01/2022	08/31/2023
Neuroscience	Member	03/01/2017	
Cancer Biology	Member	12/04/2014	

Program	Subcommittee Name	Role	Start Date	End Date
Neuroscience	Candidacy Exam	Member	9/1/2021	8/31/2024
Neuroscience	Curriculum	Member	9/1/2021	8/31/2023
Neuroscience	Student WIP Workshop	Member	9/1/2021	8/31/2022

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Standing Committee Participation

CommitteeType	Start Date	End Date	Committee Role
Program Directors	9/1/2022	8/31/2023	Chair
Admissions	10/1/2021	9/30/2022	at-large
Student Scholarship Committee	10/1/2020	9/30/2021	Chair
Executive	10/1/2020	9/30/2022	Member
Student Scholarship Committee	10/1/2018	9/30/2020	Member

GSBS Representation on Institutional Committees

CommitteeType	Start Date	End Date	Committee Role
Graduate Education Committee	9/1/2019	8/31/2022	Member

Faculty Advisors to Student Associations

Organization name	Start Date	End Date
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Professional Development

Activity	Role	Start Date
Mentoring Works V1-2	Participant	07/22/2015
Mentoring Works V1-1	Participant	06/22/2015

Innovative Educational Activities

Activity	Description	Start Date	End Date
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Program Reviewer

Date	Description
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Scholarship Fellowship Reviewer

Date	Description
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Major Educational Awards

Award	Date
John P. McGovern Outstanding Teaching Award	04/01/2019

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Awards Received

Date	Description
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Outreach/Other Activities

Date	Description
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9/9/2021	Attended GSBS Faculty Meeting
5/5/2021	Attended First Year & Faculty Connections Event
10/4/2019	Poster Judge, Neuroscience Program Retreat
5/18/2019	Attended GSBS Commencement - Oldham Award Winner
8/23/2018	GSBS Orientation - Speed Networking
6/1/2018	Preliminary Judges for Oral Presentation Skills (GSRD)

Applicant Interviews

Applicant Name	Interview Date
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Chen, Xiaodi	03/22/2023
Rodriguez-Bonilla, Laura	03/03/2023
Bethell, Chante	02/17/2023
Park, Jihyun	02/17/2023
Huang, Tzu-Hsuan	02/03/2023
Khan, Romeesa	02/03/2023
Gu, Yiru	01/20/2023
Suresh, Swathi	01/20/2023
Hwang, Spring	03/18/2022
Nouraein, Shirin	03/18/2022
Scott, Kiersten	03/04/2022
Wang, Tianyu	03/04/2022
Yang, Shiyue	03/04/2022
Rodriguez, Mya	02/18/2022
Parthasarathy, Akhila	02/04/2022
Akorede, Rufai	02/26/2021
Bowen, Charles	02/26/2021
Creighton, Blake	02/26/2021
Cruz, Denzel Ryan	02/26/2021
Cundey, Rachael	02/26/2021
Cunningham, Jacob	02/26/2021
Guo, Konnie	02/26/2021
Ho, Raymond	02/26/2021
Hsu, Angela	02/26/2021
Koehler, Brian	02/26/2021
Koenig, Jenna	02/26/2021
Li, Angus	02/26/2021

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Lindenberger, Joshua	02/26/2021
Mohan, Eric	02/26/2021
Nair, Malavika	02/26/2021
Nelson, Joseph	02/26/2021
Scemama de Gialluly, Marc	02/26/2021
Sherman, Ellyssa	02/26/2021
Tarbet, Megan	02/26/2021
Tierney, Jessica	02/26/2021
Tumac, Alisia	02/26/2021
Xia, Amanda	02/26/2021
Stahl, Emily	02/12/2021
Chen, Hao-Nien	01/29/2021
Cao, Hong Anh	01/15/2021
Peshoff, Mekenzie	01/15/2021
Sun, Lihua	03/01/2020
Andrews, Taylor	02/28/2020
Thakurta, Tara	02/28/2020
Korukonda, Anuradha	01/31/2020
Sell, Lacey	01/31/2020
Sun, Shenghuan	01/31/2020
Rumandla, Alekya	01/17/2020
Yang, Jiayue	01/17/2020
Guan, Pujun	03/12/2019
Cai, Yiming	03/01/2019
Perder, Bjoern	03/01/2019
Cheng, Shuyuan	02/22/2019
Alaniz, Alyssa	02/08/2019
Duong, Kevin	02/08/2019
Ma, Xingdi	03/09/2018
Zorrilla-Veloz, Rocio	03/09/2018
d'Aigle, John	02/26/2018
Sridharan, Sreepadha	02/23/2018
Mu, Zekun	02/09/2018
Zhu, Yan	02/09/2018
Wiggins, Eve	03/09/2017
Peng, Xi	02/23/2017
Tseng, Chunche	02/23/2017
Arner, Emily	02/09/2017
Zamler, Daniel	02/09/2017
Liu, Arthur	03/10/2016
Ai, Yiwei	02/25/2016
Huang-Hobbs, Emmet	02/11/2016
Sprenger, Ashabari	02/11/2016
Sun, Chang	02/19/2015



CURRICULUM VITAE

Jian Hu

PRESENT TITLE AND AFFILIATION

Primary Appointment

Associate Professor, Department of Cancer Biology, Division of Basic Science Research, The University of Texas MD Anderson Cancer Center, Houston, TX

Scientific Director, Cancer Neuroscience Program, The University of Texas MD Anderson Cancer Center, Houston, TX

Director, Cancer Biology Program, MD Anderson/UT Health Houston Graduate School (GSBS)

Dual/Joint/Adjunct Appointment

N/A

CITIZENSHIP

U.S. Permanent Resident

OFFICE ADDRESS

The University of Texas MD Anderson Cancer Center
1881 East Road
Unit Number: 1906
Houston, TX 77054
Phone: 713-794-5238
Email: jhu3@mdanderson.org

EDUCATION

Degree-Granting Education

Fudan University, Shanghai, China, BS, 1999, Biophysics

Fudan Medical School, Shanghai Cancer Center, Shanghai, China, MS, 2002, Molecular Biology

University of North Carolina at Chapel Hill, Chapel Hill, NC, PHD, 2007, Biochemistry and Biophysics

Postgraduate Training

Postdoctoral Fellow, Cancer Genetics, Dana Farber Cancer Center, Harvard Medical School, and MD Anderson Cancer Center, advisor: Ronald DePinho, 12/2007-8/2014

CREDENTIALS

Board Certification

N/A

Licensures

Active

N/A

Inactive

N/A

EXPERIENCE/SERVICE

Academic Appointments

Associate Professor, Department of Cancer Biology, Division of Basic Science Research, The University of Texas MD Anderson Cancer Center, Houston, TX, 9/2020-present

Assistant Professor, Department of Cancer Biology, Division of Basic Science Research, The University of Texas MD Anderson Cancer Center, Houston, TX, 9/2014-8/2020

Administrative Appointments/Responsibilities

Scientific Director, Cancer Neuroscience Program, CSO Office, 1/1/2023-present

Director, Cancer Biology Program, MD Anderson/UT Health Houston Graduate School (GSBS), 6/2022-present

Other Appointments/Responsibilities

Director, Departmental Seminar Series, Department of Cancer Biology, MD Anderson Cancer Center, Houston, TX, 9/2015-present

Director, Departmental Lab Meeting Series, Department of Cancer Biology, Department of Genomic Medicine, and Department of Epigenetics and Carcinogenesis, MD Anderson Cancer Center, Houston, 9/2015-present

Executive Committee Member, MD Anderson Cancer Center Brain Tumor Center Member, MD Anderson Cancer Center, Houston, TX, 9/2018-present

Course Director, Basic and Translational Cancer Biology, MD Anderson Cancer Center and UT Health Houston Graduate School of Biomedical Sciences (GSBS), Houston, TX, 1/2018-present

Course Director, Biology of Neurological Diseases, MD Anderson Cancer Center and UT Health Houston Graduate School of Biomedical Sciences (GSBS), Houston, TX, 8/2022-present

Course Director, Cancer Neuroscience, MD Anderson Cancer Center and UT Health Houston Graduate School of Biomedical Sciences (GSBS), Houston, TX, 1/2023-present

Director, Program Directors Committee, MD Anderson Cancer Center and UT Health Houston Graduate School of Biomedical Sciences (GSBS), Houston, TX, 8/2022-present

Chair, Teaching Academy Sub-Committee, MD Anderson Graduate and Education Committee, 2021-present

Executive Committee Member, GSBS Executive Committee, 2021-present

Chair, Student Scholarship Committee Meeting, MD Anderson Cancer Center and UT Health Houston Graduate School of Biomedical Sciences (GSBS), Houston, TX, 2021-2022

Chair, MD Anderson Cancer Center Odyssey Fellowship Committee, Houston, TX, 6/2019-2021

Endowed Positions

N/A

Consultantships

N/A

Military or Other Governmental Service

N/A

Institutional Committee Activities

GSBS Cancer Biology Program Retreat, Poster and presentation judge, 2014-present

Faculty Academic Review, Reviewer, 2/2015-present

UT MD Anderson Cancer Center IRG, Ad hoc reviewer, 4/2015

UT MD Anderson Cancer Center Annual Postdoctoral Science Symposium: Faculty Academic, Review Committee member and judge, 9/2015

Search Committee of Faculty of Department of Biostatistics, Committee Member, 2018-2019

MD Anderson Cancer Center Brain Tumor Center Executive Committee, Committee Member, 2018-present
Odyssey Fellowship Committee, Committee Member, 2018-present
Veterinary Medicine, Search Committee, 2018
UT MD Anderson INTEREST, Program reviewer 2015, 2018
Symposia on Cancer Research 2018 Organizing Committee, Committee Member, 2018
Symposia on Cancer Research, Session Chair of The Ernst W. Bertner Memorial Award, 2018
Focus on Junior Faculty Committee, Committee Member, 9/2018-present
GSBS Student Scholarship Committee, Cancer Biology Program representative, 10/2018-present
Institutional Animal Care and Use Committee (IACUC), Committee Member, 2019-present
Odyssey Fellowship Committee, Chair, 2019-present
Brain Tumor Center Distinguished Lectureship co-, Co-chair, 2019-present
MD Anderson Cancer Center Graduate Education Committee, Committee Member, 2019-present
Society of Neuro-Oncology Young Investigator Committee, Committee Member, 2019-present
Odyssey Outstanding Research Publication Award Committee, Committee Member, 2019
MD Anderson GBM Preclinical Research Retreat, Session chair of Tumor Microenvironment, 2019
Inaugural Symposium on Cancer Metastasis in Honor of Isaiah J. Fidler, Session Chair, 2019
Johnson & Johnson WiSTEM2D Scholars Award, Reviewer, 2019-2022
Mary Kay Award reviewer, 2020-2022
GSBS Neuroscience - Cancer biology symposium committee, Co-chair, 2020
Bridge Fund Committee Member, 2020-present
TMC3 Science Think Tank Committee Member, 2020-present
MD Anderson/UT Health Graduate School (GSBS) Executive Committee Member, 2020-present
MD Anderson Graduate and Education Committee Member, 2020-present
MD Anderson/UT Health Graduate School (GSBS) Neuroscience Candidacy Committee Member, 2021-present
Department of System Biology Chair Search Advisory Committee Member, 2022
Search Committee Member for Faculty Recruitment in the Department of Health Disparities Research, 2022
Summer Experience Education Grant, Reviewer, 2022
MD Anderson IRG review, 2023
Cyrus Scholar Awards Judge, 2023
Faculty Appeals Panel Committee, member, 2023 -
Search Committee for Chair of Department of Comparative Medicine, member, 2023
Search Committee for HDR faculty, member, 2023
Research Integrity Committee, 2023

HONORS AND AWARDS

Renmin, People Scholarship, Fudan University, 1995-1999

Zengshou Scholarship, Fudan University, 1999
Guanghua Scholarship, Fudan Medical School, 2002
Best Poster Award for Chinese Scholar Association of United States, Durham, North Carolina, 2004
Travel Award: Ubiquitin and Signaling, Taos, New Mexico, Keystone Symposium, 2005
Graduate Fellow Award, Best Graduate Student Award, Lineberger Cancer Center, University of North Carolina at Chapel Hill, 2006
Fellow Award, Leukemia and Lymphoma Society, 2008-2011
7th Annual Postdoc/Graduate Student Retreat, Best Oral Presentation Award, Dana Farber Cancer Center, 2011
K99/R00 Pathway to Independence Award, NIH, 2013-2018
Travel Award on Adult Stem Cells in Aging Diseases and Cancer, V. Else Kröner-Fresenius Symposium, Eisenach, Germany, 2013
Brain Cancer SPORE Career Development Award, NCI, 2014
Broach Scholar Award, The Broach Foundation, 2014-2015
Rising STARS Award, Science and Technology Acquisition and Retention Program, The University of Texas System, 2014-2017
CCSG New Faculty Award, UT MD Anderson, 2015
Young Investigator Workshop (Brain Tumor) Travel Award, Oslo University Hospital and MD Anderson Cancer Center, 2015
Sidney Kimmel Scholar Award, The Sidney Kimmel Foundation for Cancer Research, 2016-2018
American Cancer Society Research Scholar Award, MD Anderson Cancer Center, 2017
Distinguished Scientist Award, Sontag Foundation, 2017-2021
Wall of Science Award, MD Anderson Cancer Center, 2017
Cancer Stem Cell Young Investigator Award, Cancer Stem Cell Conference (CSC), 2018
John P. McGovern Award for Outstanding Teaching, MD Anderson UTHealth Graduate School (GSBS), 2018
Young Investigator MERIT Award (R37), NCI, 2018
Young Investigators Forum, Society of Neuro-Oncology, 2019
Andrew Sabin Family Fellowship Award, Andrew Sabin Family Foundation, 2020-2022
MD Anderson Faculty Scholar Award, 2020-2022
Commended Course Director (Cancer Biology Core Course), MD Anderson/UT Health Graduate School (GSBS), 2021
President's Recognition of Faculty Excellence - Education & Mentorship Advancement, 2021
John P. McGovern Award for Outstanding Teaching, MD Anderson UTHealth Graduate School (GSBS), 2022
President's Recognition of Faculty Excellence - Education & Mentorship Advancement, 2023

RESEARCH

Grants and Contracts

Funded

Principal Investigator, Distinguished Scientist Award (career development award), Sontag Foundation, 11/1/2017-9/30/2023, \$150,000/year

Principal Investigator, Role of quaking gene in regulating the niche-independent stemness of glioma stem cells, 1R37CA214800, NIH/NCI, 12/1/2017-11/30/2023, \$250,000/year

Principal Investigator, The Transformative Glioblastoma Initiative, The Brockman Foundation, 12/11/2018-12/10/2023, \$150,000/year

Principal Investigator, Investigating the role of dysfunctional histone H3.3 in driving early neuronal development and pediatric high-grade gliomas, 1R01NS119493, NIH/NINDS, 08/01/2021-07/31/2026, \$259,415/year

Co-investigator, Systematic dissection of function and mechanism of long non-coding RNAs in glioblastoma, 1R01NS117668, NIH/NINDS, 04/15/2021-02/28/2026, \$250,000/year

Principal Investigator, Telomere regulation in pediatric high grade glioma, Brain Cancer SPORE Project Development Award, 2P50CA127001, NIH/NCI, 9/1/2022-8/31/2023, \$50,000/year

Principal Investigator, Promoting remyelination in multiple sclerosis by simultaneously modulating myelin debris clearance and myelin lipid synthesis, 1R01NS127933, NIH/NINDS, 11/1/2022-10/31/2027, \$280,000/year

Principal Investigator, Epigenetic regulation of alternative lengthening of telomeres (ALT) in pediatric high-grade gliomas, RP220360, CPRIT, 9/1/2022-8/31/2026, \$350,000/year

Principal Investigator, Membrane Biology of Glioma-Associated Microglia/Macrophages, Break Through Cancer, 2022-2025, \$100,000/year

Principal Investigator, Restoration of phagocytosis of myeloid cells in glioblastoma, Ivy Foundation, 06/1/2022-05/31/2024, \$250,000/year

Principal Investigator, Restoration of Phagocytosis Function of Glioma-Associated Microglia/Macrophage by Activating QKI-PPAR β -RXR α , RP220592, CPRIT, 10/1/2022-9/30/2024, \$125,000/year

Principal Investigator, Normalizing membrane homeostasis in microglia/macrophages of pediatric high-grade gliomas, RP230154, CPRIT, 4/1/2023-3/31/2027, \$350,000/year

Principal Investigator, The role of membrane homeostasis of neural stem cell and glioma stem cells in neural development and gliomagenesis, 1R01NS132944, NIH/NINDS, 11/1/2023-10/31/2028, \$280,000/year

Other

N/A

Completed

Principal Investigator, 8 months, Targeting glioma stem cells by perturbation of telomere maintenance mechanisms, 5R00CA172700-04, NIH/NCI, 9/1/2012-8/31/2017, \$750,000 (\$250,000/year)

Principal Investigator, 0.6 months, The Role of RNA Binding Protein Qk (Quaking) in Gliomagenesis, 2P50CA127001, NIH/NCI, 8/1/2013-7/31/2016, \$100,000 (\$50,000/year)

Principal Investigator, 0.6 months, Brain Cancer Research Award, The Broach Foundation, 2014-2015

Principal Investigator, Brain Cancer SPORE Career Development Award, 2P50CA127001, NIH/NCI, 1/1/2014-8/31/2015, \$50,000 (\$50,000/year)

Principal Investigator, 0.6 months, New Therapeutic Targets of Glioblastoma by Investigating the Functions of QKI, Mike Hogg Foundation, 1/1/2015-12/31/2015, \$22,000 (\$22,000/year)

Principal Investigator, UT Rising STARs Award, UT System, 1/1/2015-12/31/2017, \$200,000 (\$200,000/year)

Principal Investigator, UT MD Anderson Center for Genetics and Genomics, MD Anderson Cancer Center, 3/1/2015-2/29/2016, \$75,000 (\$75,000/year)

Principal Investigator, To test novel therapies against QKI-deficient gliomas with a novel genetically engineered mouse model, MD Anderson IRG, 1/1/2016-12/31/2016, \$75,000 (\$75,000/year)

Principal Investigator, Sidney Kimmel Scholar Award, Sidney Kimmel Foundation for Cancer Research, 3/1/2016-2/28/2018, \$200,000 (\$100,000/year)

Principal Investigator, To test the efficacy of anti-CD47 and anti-B7H4 with a novel genetically engineered mouse GBM model system, Dr. Marnie Rose Foundation, 3/1/2018-2/29/2020, \$100,000 (\$5,000/year)

Principal Investigator, To investigate the function of H3.3 chaperone complex in regulating Alternative Lengthening of Telomere in malignant gliomas, The Emerson Collective, 11/9/2018-11/8/2020, \$200,000 (\$100,000/year)

Principal Investigator, Identifying molecular vulnerabilities in telomere maintenance of ATRX mutant gliomas, MD Anderson IRG, 2/1/2019-1/31/2020, \$75,000 (\$75,000/year)

Principal Investigator, To Investigate the Role of Histone Mutations and Their Therapeutic Implications in Pediatric High-Grade Glioma, Matthew Larson Foundation, 5/1/2019-4/30/2020, \$75,000 (\$75,000/year)

Principal Investigator, To investigate the etiology of oligodendroglioma, Oligo Nation Foundation, 9/1/2019-8/31/2020, \$100,000 (\$100,000/year)

Principal Investigator-MDACC, ACS Research Scholar Award, American Cancer Society (ACS), 7/1/2017-6/30/2021, \$165,000/year

Principal Investigator, Role of H3.3-G34R mutation in pediatric high-grade glioma, Alex's Lemonade Foundation, 09/01/2021-08/31/2023, \$125,000/year

Not Funded

N/A

Protocols

Funded

N/A

Unfunded

N/A

Patents and Technology Licenses

Patents

PCT/US2020/059272, entitled "METHODS FOR THE TREATMENT OF DYSMYELINATING/DEMYELINATING DISEASES"

Technology Licenses

N/A

Grant Reviewer/Service on Study Sections

Dutch Cancer Society

the Terry Fox Research Institute

Foundation of Polish Science

Brain Tumor Charity

Luxembourg National Research Fund

Reviewer, NIH Cancer Genetics study section, 2021

Reviewer, NIH Neurogenesis and Cell Fate study section, 2022

Reviewer, NIH CSR Immuno-Oncology Fellowship study section, 2022

Reviewer, NIH CSR Oncological Sciences Fellowship study section, 2023

Reviewer, NIH Cellular and Molecular Biology of Glia study section, 2023

PUBLICATIONS

Peer-Reviewed Original Research Articles

1. Qin W, Hu J, Guo M, Xu J, Li J, Yao G, Zhou X, Jiang H, Zhang P, Shen L, Wan D, Gu J. BNIPL-2, a novel homologue of BNIP-2, interacts with Bcl-2 and Cdc42GAP in apoptosis. *Biochem Biophys Res Commun* 308(2):379-85, 8/2003. PMID: 12901880.
2. Shen L, Hu J, Lu H, Wu M, Qin W, Wan D, Li YY, Gu J. The apoptosis-associated protein BNIPL interacts with two cell proliferation-related proteins, MIF and GFER. *FEBS Lett* 540(1-3):86-90, 10/2003. PMID: 12681488.
3. Hu J, McCall CM, Ohta T, Xiong Y. Targeted ubiquitination of CDT1 by the DDB1-CUL4A-ROC1 ligase in response to DNA damage. *Nat Cell Biol* 6(10):1003-9, 10/2004. PMID: 15448697.
4. Hu J, Xiong Y. An evolutionarily conserved function of proliferating cell nuclear antigen for Cdt1 degradation by the Cul4-Ddb1 ubiquitin ligase in response to DNA damage. *J Biol Chem* 281(7):3753-6, 2/2006. e-Pub 1/2006. PMID: 16407242.
5. He Y, McCall CM, Hu J, Zeng Y, Xiong Y. DDB1 functions as a linker to recruit receptor WD40 proteins to CUL4-ROC1 ubiquitin ligases. *Genes Dev* 20(21):2949-54, 11/2006. PMCID: PMC1620025.
6. Hu J, Zacharek S, He YJ, Lee H, Shumway S, Duronio RJ, Xiong Y. WD40 protein FBW5 promotes ubiquitination of tumor suppressor TSC2 by DDB1-CUL4-ROC1 ligase. *Genes Dev* 22(7):866-71, 4/2008. PMCID: PMC2279197.
7. Ying H, Zheng H, Scott K, Wiedemeyer R, Yan H, Lim C, Huang J, Dhakal S, Ivanova E, Xiao Y, Zhang H, Hu J, Stommel JM, Lee MA, Chen AJ, Paik JH, Segatto O, Brennan C, Elferink LA, Wang YA, Chin L, DePinho RA. Mig-6 controls EGFR trafficking and suppresses gliomagenesis. *Proc Natl Acad Sci U S A* 107(15):6912-7, 4/2010. e-Pub 3/2010. PMCID: PMC2872443.
8. Zheng H, Ying H, Wiedemeyer R, Yan H, Quayle SN, Ivanova EV, Paik JH, Zhang H, Xiao Y, Perry SR, Hu J, Vinjamoori A, Gan B, Sahin E, Chheda MG, Brennan C, Wang YA, Hahn WC, Chin L, DePinho RA. PLAGL2 regulates Wnt signaling to impede differentiation in neural stem cells and gliomas. *Cancer Cell* 17(5):497-509, 5/2010. PMCID: PMC2900858.
9. Gan B, Lim C, Chu G, Hua S, Ding Z, Collins M, Hu J, Jiang S, Fletcher-Sananikone E, Zhuang L, Chang M, Zheng H, Wang YA, Kwiatkowski DJ, Kaelin WG Jr, Signoretti S, DePinho RA. FoxOs enforce a progression checkpoint to constrain mTORC1-activated renal tumorigenesis. *Cancer Cell* 18(5):472-84, 11/2010. PMCID: PMC3023886.
10. Gan B, Hu J, Jiang S, Liu Y, Sahin E, Zhuang L, Fletcher-Sananikone E, Colla S, Wang YA, Chin L, Depinho RA. Lkb1 regulates quiescence and metabolic homeostasis of haematopoietic stem cells. *Nature* 468(7324):701-4, 12/2010. PMCID: PMC3058342.
11. Hu J, Hwang SS, Liesa M, Gan B, Sahin E, Jaskelioff M, Ding Z, Ying H, Boutin AT, Zhang H, Johnson S, Ivanova E, Kost-Alimova M, Protopopov A, Wang YA, Shirihai OS, Chin L, DePinho RA. Antitelomerase therapy provokes ALT and mitochondrial adaptive mechanisms in cancer. *Cell* 148(4):651-63, 2/2012. PMCID: PMC3286017.
12. Ding Z, Wu CJ, Jaskelioff M, Ivanova E, Kost-Alimova M, Protopopov A, Chu GC, Wang G, Lu X, Labrot ES, Hu J, Wang W, Xiao Y, Zhang H, Zhang J, Zhang J, Gan B, Perry SR, Jiang S, Li L, Horner JW, Wang YA, Chin L, DePinho RA. Telomerase reactivation following telomere dysfunction yields murine prostate tumors with bone metastases. *Cell* 148(5):896-907, 3/2012. e-Pub 2/2012. PMCID: PMC3629723.
13. Ying H, Kimmelman AC, Lyssiotis CA, Hua S, Chu GC, Fletcher-Sananikone E, Locasale JW, Son J, Zhang H, Colloff JL, Yan H, Wang W, Chen S, Viale A, Zheng H, Paik JH, Lim C,

- Guimaraes AR, Martin ES, Chang J, Hezel AF, Perry SR, Hu J, Gan B, Xiao Y, Asara JM, Weissleder R, Wang YA, Chin L, Cantley LC, DePinho RA. Oncogenic Kras maintains pancreatic tumors through regulation of anabolic glucose metabolism. *Cell* 149(3):656-70, 4/2012. PMID: PMC3472002.
14. Chen AJ, Paik JH, Zhang H, Shukla SA, Mortensen R, Hu J, Ying H, Hu B, Hurt J, Farny N, Dong C, Xiao Y, Wang YA, Silver PA, Chin L, Vasudevan S, Depinho RA. STAR RNA-binding protein Quaking suppresses cancer via stabilization of specific miRNA. *Genes Dev* 26(13):1459-72, 7/2012. PMID: 22751500.
 15. Muller FL, Colla S, Aquilanti E, Manzo VE, Genovese G, Lee J, Eisenson D, Narurkar R, Deng P, Nezi L, Lee MA, Hu B, Hu J, Sahin E, Ong D, Fletcher-Sananikone E, Ho D, Kwong L, Brennan C, Wang YA, Chin L, DePinho RA. Passenger deletions generate therapeutic vulnerabilities in cancer. *Nature* 488(7411):337-42, 8/2012. PMID: PMC3712624.
 16. Hu J, Ho AL, Yuan L, Hu B, Hua S, Hwang SS, Zhang J, Hu T, Zheng H, Gan B, Wu G, Wang YA, Chin L, DePinho RA. From the Cover: Neutralization of terminal differentiation in gliomagenesis. *Proc Natl Acad Sci U S A* 110(36):14520-7, 9/2013. e-Pub 8/2013. PMID: PMC3767545.
 17. Yao Y, Hu J, Shen Z, Yao R, Liu S, Li Y, Cong H, Wang X, Qiu W, Yue L. MiR-200b expression in breast cancer: a prognostic marker and act on cell proliferation and apoptosis by targeting Sp1. *J Cell Mol Med*. e-Pub 1/2015. PMID: 25639535.
 18. Kim H, Zheng S, Amini SS, Virk SM, Mikkelsen T, Brat DJ, Grimsby J, Sougnez C, Muller F, Hu J, Sloan AE, Cohen ML, Van Meir EG, Scarpace L, Laird PW, Weinstein JN, Lander ES, Gabriel S, Getz G, Meyerson M, Chin L, Barnholtz-Sloan JS, Verhaak RG. Whole-genome and multisector exome sequencing of primary and post-treatment glioblastoma reveals patterns of tumor evolution. *Genome Res* 25(3):316-27, 3/2015. e-Pub 2/2015. PMID: PMC4352879.
 19. Shingu T, Jaskelioff M, Yuan L, Ding Z, Protopopov A, Kost-Alimova M, Hu J. Utilizing murine inducible telomerase alleles in the studies of tissue degeneration/regeneration and cancer. *J Vis Exp*(98), 2015. e-Pub 4/2015. PMID: 25938254.
 20. Brandon D. Liebelt, Takashi Shingu, Xin Zhou, Jiangong Ren, Seul A. Shin, and Jian Hu. Glioma Stem Cells: Signaling, Microenvironment, and Therapy. *Stem Cells International* 2016(10.1155):10, <http://www.hindawi.com/journals/sci/2016/7849890/>, 1/2016.
 21. Shingu T, Holmes L, Henry V, Wang Q, Latha K, Gururaj AE, Gibson LA, Doucette T, Lang FF, Rao G, Yuan L, Sulman EP, Farrell NP, Priebe W, Hess KR, Wang YA, Hu J, Bögler O. Suppression of RAF/MEK or PI3K synergizes cytotoxicity of receptor tyrosine kinase inhibitors in glioma tumor-initiating cells. *J Transl Med* 14(1):46. e-Pub 2/2016. PMID: PMC4746796.
 22. Hu B, Wang Q, Wang YA, Hua S, Sauv e CG, Ong D, Lan ZD, Chang Q, Ho YW, Monasterio MM, Lu X, Zhong Y, Zhang J, Deng P, Tan Z, Wang G, Liao WT, Corley LJ, Yan H, Zhang J, You Y, Liu N, Cai L, Finocchiaro G, Phillips JJ, Berger MS, Spring DJ, Hu J, Sulman EP, Fuller GN, Chin L, Verhaak RG, DePinho RA. Epigenetic Activation of WNT5A Drives Glioblastoma Stem Cell Differentiation and Invasive Growth. *Cell* 167(5):1281-1295.e18, 11/2016. PMID: PMC5320931.
 23. Shingu T, Ho AL, Yuan L, Zhou X, Dai C, Zheng S, Wang Q, Zhong Y, Chang Q, Horner JW, Liebelt BD, Yao Y, Hu B, Chen Y, Fuller GN, Verhaak RG, Heimberger AB, Hu J. Qki deficiency maintains stemness of glioma stem cells in suboptimal environment by downregulating endolysosomal degradation. *Nat Genet.* 2017 Jan;49(1):75-86. doi: 10.1038/ng.3711. PMID: 27841882.
 24. Boutin AT, Liao WT, Wang M, Hwang SS, Karpinets TV, Cheung H, Chu GC, Jiang S, Hu J, Chang K, Vilar E, Song X, Zhang J, Kopetz S, Futreal A, Wang YA, Kwong LN, DePinho RA. Oncogenic Kras drives invasion and maintains metastases in colorectal cancer. *Genes Dev* 31(4):370-382, 2/2017. e-Pub 3/2017. PMID: PMC5358757.
 25. Barthel FP, Wei W, Tang M, Martinez-Ledesma E, Hu X, Amin SB, Akdemir KC, Seth S, Song X, Wang Q, Lichtenberg T, Hu J, Zhang J, Zheng S, Verhaak RG. Systematic analysis

- of telomere length and somatic alterations in 31 cancer types. *Nat Genet* 49(3):349-357, 3/2017. e-Pub 1/2017. PMID: 28135248.
26. Wang Q, Hu B, Hu X, Kim H, Squatrito M, Scarpace L, deCarvalho AC, Lyu S, Li P, Li Y, Barthel F, Cho HJ, Lin YH, Satani N, Martinez-Ledesma E, Zheng S, Chang E, Sauvé CG, Olar A, Lan ZD, Finocchiaro G, Phillips JJ, Berger MS, Gabrusiewicz KR, Wang G, Eskilsson E, Hu J, Mikkelsen T, DePinho RA, Muller F, Heimberger AB, Sulman EP, Nam DH, Verhaak RGW. Tumor Evolution of Glioma-Intrinsic Gene Expression Subtypes Associates with Immunological Changes in the Microenvironment. *Cancer Cell* 32(1):42-56.e6, 7/2017. PMID: PMC5599156.
 27. Zhang P, He D, Xu Y, Hou J, Pan BF, Wang Y, Liu T, Davis CM, Ehli EA, Tan L, Zhou F, Hu J, Yu Y, Chen X, Nguyen TM, Rosen JM, Hawke DH, Ji Z, Chen Y. Genome-wide identification and differential analysis of translational initiation. *Nat Commun* 8(1):1749, 11/2017. e-Pub 11/2017. PMID: PMC5701008.
 28. Chen D, Chen D, Cao D, Hu J, Yao Y. A signature based on survival-related genes identifies high-risk glioblastomas harboring immunosuppressive and aggressive ECM characteristics. *Zhong Nan Da Xue Xue Bao Yi Xue Ban* 43(4):368-382, 4/2018. PMID: 29774872.
 29. Hwang I, Cao D, Na Y, Kim DY, Zhang T, Yao J, Oh H, Hu J, Zheng H, Yao Y, Paik J. Far Upstream Element-Binding Protein 1 Regulates LSD1 Alternative Splicing to Promote Terminal Differentiation of Neural Progenitors. *Stem Cell Reports* 10(4):1208-1221, 4/2018. e-Pub 3/2018. PMID: PMC5998560.
 30. Yao Y, Luo F, Tang C, Chen D, Qin Z, Hua W, Xu M, Zhong P, Yu S, Chen D, Ding X, Zhang Y, Zheng X, Yang J, Qian J, Deng Y, Hoon DSB, Hu J, Chu Y, Zhou L. Molecular subgroups and B7-H4 expression levels predict responses to dendritic cell vaccines in glioblastoma: an exploratory randomized phase II clinical trial. *Cancer Immunol Immunother* 67(11):1777-1788, 11/2018. e-Pub 8/2018. PMID: 30159779.
 31. Li F, Deng Z, Zhang L, Wu C, Jin Y, Hwang I, Vladimirova O, Xu L, Yang L, Lu B, Dheekollu J, Li JY, Feng H, Hu J, Vakoc CR, Ying H, Paik J, Lieberman PM, Zheng H. ATRX loss induces telomere dysfunction and necessitates induction of alternative lengthening of telomeres during human cell immortalization. *EMBO J*:e96659. e-Pub 8/2019. PMID: 31454099.
 32. Zhou X, He C, Ren J, Dai C, Stevens SR, Wang Q, Zamler D, Shingu T, Yuan L, Chandregowda CR, Wang Y, Ravikumar V, Rao AU, Zhou F, Zheng H, Rasband MN, Chen Y, Lan F, Heimberger AB, Segal BM, Hu J. Qki-PPARb-RXRa-mediated lipid metabolism is essential for myelin maintenance. *J Clin Invest*. 2020 Mar 23. pii: 131800. doi:10.1172/JCI131800. PMID: 32202512. (Cover Image and Cover Story).
 33. Chen D, Li G, Ji C, Lu Q, Qi Y, Tang C, Xiong J, Hu J, Yasar FBA, Zhang Y, Hoon DSB, Yao Y, Zhou L. Enhanced B7-H4 expression in gliomas with low PD-L1 expression identifies super-cold tumors. *J Immunother Cancer*. 2020 May;8(1):e000154. PMID: 32457124
 34. Ott M, Tomaszowski KH, Marisetta A, Kong LY, Wei J, Duna M, Blumberg K, Ji X, Jacobs C, Fuller GN, Langford LA, Huse JT, Long JP, Hu J, Li S, Weinberg JS, Prabhu SS, Sawaya R, Ferguson S, Rao G, Lang FF, Curran MA, Heimberger AB. Profiling of patients with glioma reveals the dominant immunosuppressive axis is refractory to immune function restoration. *JCI Insight*. 2020 Sep 3;5(17):e134386. PMID: 32721947
 35. Chiang ACA, Sua AV, Singhmar P, Arroyo LD, Mahalingam R, Hu J, Kavelaars A, Heijnen CJ. Bexarotene normalizes chemotherapy-induced myelin decompaction and reverses cognitive and sensorimotor deficits in mice. *Acta Neuropathol Commun*. 2020 Nov 12;8(1):193. PMID: 33183353
 36. Privorotskiy A, Bhavsar SP, Lang FF, Hu J, Cata JP. Impact of anesthesia and analgesia techniques on glioblastoma progression. A narrative review. *Neurooncol Adv*. 2020 Sep 16;2(1):vdaa123. PMID: 33205044
 37. Ren J, Dai C, Zhou X, Barnes JA, Chen X, Wang Y, Yuan L, Shingu T, Heimberger AB, Chen Y, and Hu J. Qki is an essential regulator of microglia phagocytosis in demyelination. *Journal of Experimental Medicine*. 2021 Jan, 218 (1): e20190348. PMID: 33045062.

38. Zhou X, Shin SA, He C, Zhang Q, Ren J, Dai C, Shingu T, Yuan L, Wang Y, Chen Y, Lan F, Hu J. Qki regulates myelinogenesis through Srebp2-dependent cholesterol biosynthesis. *eLife*. 2021 May 4;10:e60467. doi: 10.7554/eLife.60467. PMID: 33942715.
39. Shin S, Zhou H, He C, Wei Y, Wang Y, Shingu T, Zhou X, Zhang Q, Long J, Lan F, Chen Y, Hu J. Qki As a Novel Co-activator of Srebp2-Mediated Cholesterol Biosynthesis in Eye Lens Cells. *Nature Communications*. 2021 May 21;12(1):3005. doi: 10.1038/s41467-021-22782-0. PMID: 34021134.
40. Sabbagh A, Beccaria K, Ling X, Marisetty A, Ott M, Caruso H, Barton E, Kong LY, Fang D, Latha K, Zhang DY, Wei J, DeGroot J, Curran MA, Rao G, Hu J, Desseaux C, Bouchoux G, Canney M, Carpentier A, Heimberger AB. Opening of the Blood-Brain Barrier Using Low-Intensity Pulsed Ultrasound Enhances Responses to Immunotherapy in Preclinical Glioma Models. *Clin Cancer Res*. 2021 Aug 1;27(15):4325-4337. PMID: 34031054
41. Cui M, Zorrilla-Veloz RI, Hu J, Guan B, Ma X. Diagnostic Accuracy of PET for Differentiating True Glioma Progression From Post Treatment-Related Changes: A Systematic Review and Meta-Analysis. *Front Neurol*. 2021 May 20;12:671867. PMID: 34093419
42. Shaim H, Shanley M, Basar R, Daher M, Gumin J, Zamler DB, Uprety N, Wang F, Huang Y, Gabrusiewicz K, Miao Q, Dou J, Alsuliman A, Kerbauy LN, Acharya S, Mohanty V, Mendt M, Li S, Lu J, Wei J, Fowlkes NW, Gokdemir E, Ensley EL, Kaplan M, Kassab C, Li L, Ozcan G, Banerjee PP, Shen Y, Gilbert AL, Jones CM, Bdiwi M, Nunez-Cortes AK, Liu E, Yu J, Imahashi N, Muniz-Feliciano L, Li Y, Hu J, Draetta G, Marin D, Yu D, Mielke S, Eyrich M, Champlin RE, Chen K, Lang FF, Shpall EJ, Heimberger AB, Rezvani K. Targeting the αv integrin/TGF- β axis improves natural killer cell function against glioblastoma stem cells. *J Clin Invest*. 2021 Jul 15;131(14):e142116. PMID: 34138753
43. Rao R, Han R, Ogurek S, Xue C, Wu LM, Zhang L, Zhang L, Hu J, Phoenix TN, Waggoner SN, Lu QR. Glioblastoma genetic drivers dictate the function of tumor-associated macrophages/microglia and responses to CSF1R inhibition. *Neuro Oncol*. 2022 Apr 1;24(4):584-597. PMID: 34562087
44. Cheng Y, Shen Z, Gao Y, Chen F, Xu H, Mo Q, Chu X, Peng CL, McKenzie TT, Palacios BE, Hu J, Zhou H, Long J. Phase transition and remodeling complex assembly are important for SS18-SSX oncogenic activity in synovial sarcomas. *Nat Commun*. 2022 May 18;13(1):2724. PMID: 35585082
45. Daniel B, Zamler, Takashi Shingu, Laura M. Kahn, Kristin Huntoon, Cynthia Kassab, Martina Ott, Katarzyna Tomczak, Jintan Liu, Yating Li, Ivy Lai, Rocio Zorrilla-Veloz, Cassian Yee, Kunal Rai, Betty Kim, Stephanie S. Watowich, *Amy B. Heimberger, *Giulio F. Draetta, *Jian Hu. Immune landscape of a genetically engineered murine model of glioma relative to human glioma by single-cell sequencing. *JCI Insight*. 2022 Jun 22;7(12):e148990. PMID: 35653194
46. Zorrilla-Veloz RI, McKenzie T, Palacio BE, Hu J, Nuclear hormone receptors in demyelinating diseases. *J Neuroendocrinol*. 2022 Jul;34(7):e13171. PMID: 35734821
47. Aksoy Yasar FB, Shingu T, Zamler DB, Zaman MF, Chien DL, Zhang Q, Ren J, Hu J. Quaking but not parkin is the major tumor suppressor in 6q deleted region in glioblastoma. *Front Cell Dev Biol*. 2022 Aug 16;10:931387. PMID: 36051438
48. Guran E, Hu J, Wefel JS, Chung C, Cata JP. Perioperative considerations in patients with chemotherapy-induced cognitive impairment: a narrative review. *Br J Anaesth*. 2022 Dec;129(6):909-922. PMID: 36270848
49. Frank ML, Lu K, Erdogan C, Han Y, Hu J, Wang T, Heymach JV, Zhang J, Reuben A. T cell receptor repertoire sequencing in the era of cancer immunotherapy. *Clin Cancer Res*. 2022 Nov 22;CCR-22-2469. PMID: 36413126
50. Barnes-Vélez JA, Aksoy Yasar FB, Hu J. Myelin lipid metabolism and its role in myelination and myelin maintenance. *Innovation (Camb)*. 2022 Dec 7;4(1):100360. PMID: 36588745
51. Cata JP, Hu J, Feng L, Chung C, Woodman SE, Meyer LA. Association between COVID-19 and Postoperative Neurological Complications and Antipsychotic Medication Use after

- Cancer Surgery: A Retrospective Study. *J Pers Med*. 2023 Jan 31;13(2):274. doi: 10.3390/jpm13020274. PMID: 36836508
52. Sun C, Ye Y, Tan Z, Liu Y, Li Y, Hu W, Liang K, Egranov SD, Huang LA, Zhang Z, Zhang Y, Yao J, Nguyen TK, Zhao Z, Wu A, Marks JR, Caudle AS, Sahin AA, Gao J, Gammon ST, Piwnica-Worms D, Hu J, Chiao PJ, Yu D, Hung MC, Curran MA, Calin GA, Ying H, Han L, Lin C, Yang L. Tumor-associated nonmyelinating Schwann cell-expressed PVT1 promotes pancreatic cancer kynurenine pathway and tumor immune exclusion. *Sci Adv*. 2023 Feb 3;9(5):eadd6995. doi: 10.1126/sciadv.add6995. PMID: 36724291
 53. Daniel Zamler, Jian Hu. Primitive oligodendrocyte precursor cells (pri-OPCs) are more susceptible to gliomagenic transformation than neural stem cells (NSCs) and OPCs. *Cancer Research*, 2023 Mar 15;83(6):807-808. doi: 10.1158/0008-5472.CAN-23-0024. PMID: 36919423
 54. Chen CH, Chin RL, Hartley GP, Hsieh CE, Prasad R, Shingu T, Heimberger AB, Hu J, Hong DS, Curran MA. Novel immune competent murine glioblastoma models reveal the origins of immune suppression and immunotherapy resistance. *Neuro-Oncology*, 2023 Aug 3;25(8):1415-1427. doi: 10.1093/neuonc/noad025. PMID: 36705543
 55. Zheng C, Wei Y, Zhang Q, Sun M, Wang Y, Hou J, Zhang P, Lv X, Su D, Jiang Y, Gumin J, Sahni N, Hu B, Wang W, Chen X, McGrail DJ, Zhang C, Huang S, Xu H, Chen J, Lang FF, Hu J, Chen Y. Multiomics analyses reveal DARS1-AS1/YBX1-controlled posttranscriptional circuits promoting glioblastoma tumorigenesis/radioresistance. *Sci Adv*. 2023 Aug 4;9(31):eadf3984. doi: 10.1126/sciadv.adf3984. PMID: 37540752

Invited Articles

1. McCall CM, Hu J, Xiong Y. Recruiting substrates to Cullin 4-dependent ubiquitin ligases by DDB1. *Cell Cycle* 4(1):27-9, 2005 Jan;4(1):27-9. Epub 2005 Jan 22., 1/2005. e-Pub 1/2005. PMID: 15655366.

Editorials

N/A

Other Articles

N/A

Abstracts

N/A

Book Chapters

N/A

Books (edited and written)

N/A

Letters to the Editor

N/A

Manuals, Teaching Aids, Other Teaching Publications

N/A

Other Publications

N/A

EDITORIAL AND REVIEW ACTIVITIES**Editor/Service on Editorial Board(s)**

N/A

Member of Editorial Review Board

N/A

Journal Reviewer

Nature Genetics, Genes and Development, PNAS, PLOS Medicine, Cell Reports, Clinical Cancer Research, Genome Research, Scientific Reports, Molecular Carcinogenesis, Molecular Cancer Therapeutics, Oncogene, Oncotarget, Cancer Research, EMBO Journal, Journal of Clinical Investigation (JCI), Journal of experimental medicine (JEM), Journal of Molecular Cell Biology, Nature, Nature Communications, Cell Aging, Science Translational Medicine

Other Editorial and Review Activities

Reviewer, IRG ad hoc, 2015

TEACHING

Teaching Within Current Institution - The University of Texas MD Anderson Cancer Center

Formal Teaching

Courses Taught

GSBS Core Course, Fall, 2014

GSBS Writing Course, Spring, 2017

GSBS Writing Course, 2017

Fundamental Mechanisms of Cancer Development, Fall, 2018

MD/PhD course Topics in Molecular Medicine (GSBS course GS21 1611) (2020-2021)

Current Topics in Neuroscience, 2020-present

Basic and Translational Cancer Biology, Spring, 2018-present (director)

Biology of Neurological Diseases, Fall, 2021-present (director)

Cancer Neuroscience, Spring, 2022-present (director)

GSBS Foundational Course, Fall, 2022-present

Training Programs

N/A

Other Formal Teaching

N/A

Supervisory Teaching

Committees

Advisory Committees

GSBS, Seula Shin, graduated

GSBS, Changsoo Kwak, graduated

GSBS, Daniel Zamler, graduated

GSBS, Farah Hasan, graduated

GSBS, Fatma Yasar, graduated

GSBS, Iman Sahnoune, graduated

GSBS, Justin Shaw, graduated

GSBS, Sunada Khadka, graduated

GSBS, Arthur Liu, graduated

GSBS, Heather Marie Sonnemann, present

GSBS, Joseph Barnes, present

GSBS, Rocio Zorrilla, present

GSBS, Sharvari Dharmiah, present

GSBS, Shengxin Li, present

GSBS, Shun-Ming Tang, present
Baylor College of Medicine, Fanglue Peng, graduated
GSBS, Wayne (Yingda) Jiang, present
GSBS, Kimberley Rivera-Caraballo, present
GSBS, Yating Li, present
GSBS, Yan Zhu, present
GSBS, Jincheng Han, present
GSBS, Spencer Lea, present
GSBS, Jasper Chen, present
GSBS, Lea Stitzlein, present
TRIUMP Fellowship, Fei Yu, graduated
TRIUMP Fellowship, Nhung Pham, present
GSBS, Mekenzie Peshoff, present
GSBS, Ben Whitfield, present
GSBS, Ivana William, present
GSBS, Shaolin Mei, present
GSBS, Kaylene Lu, present
GSBS, Takeese Mckenzie, present
GSBS, Bridgitte Palacios, present
GSBS, Mohammad Fayyad Zaman, present
GSBS, Spring Hwang, present
GSBS, Ana Maldonado, present
GSBS, Pengju Gong, present
GSBS, Yutao Qi, present
GSBS, Boxuan Yang, present
GSBS, Akhila Parthasarathy, present
GSBS, Srinath Muralidharan, present

Supervisory Committees

N/A

Examining Committees

Student Qualifying Exam, GSBS, Yifan Wang, 2015
Student Qualifying Exam, GSBS, Elliot Fletcher, 2016
Student Qualifying Exam, GSBS, Jian Xiong, 2016
Student Qualifying Exam, GSBS, Arthur Liu, 2018
Student Qualifying Exam, GSBS, Li Cai, 2018
Student Qualifying Exam, GSBS, Xiaobo Wang, 2018
Student Qualifying Exam, GSBS, Jiexi Li, 2019 (chair)
Student Qualifying Exam, GSBS, Er-Yen (Nick) Yen, 2019

Student Qualifying Exam, GSBS, Yan Zhu, 2021 (chair)
 Student Qualifying Exam, GSBS, Shengxin Li, 2021
 Student Qualifying Exam, GSBS, Kimberly Rivera-Caraballo, 2021 (chair)
 Student Qualifying Exam, GSBS, Wen-Hao Howard Hsu, 2021
 Student Qualifying Exam, GSBS, Kyle LaBella, 2021
 Student Qualifying Exam, GSBS, Jincheng Han, 2021 (chair)
 Student Qualifying Exam, GSBS, Michelle Winkler, 2021
 Student Qualifying Exam, GSBS, Akash Boda, 2021
 Student Qualifying Exam, GSBS, Tanvi Visal, 2021 (chair)
 Student Qualifying Exam, GSBS, Mennat Allah Shaheen, 2021 (chair)
 Student Qualifying Exam, GSBS, Krithikaa Rajkumar Bhanu, 20212
 Student Qualifying Exam, GSBS, Chenyang Li, 2022 (chair)
 Student Qualifying Exam, GSBS, Emily Caggiano, 2022
 Student Qualifying Exam, GSBS, Tuba Aksoy, 2022
 Student Qualifying Exam, GSBS, Krithikaa Rajkumar Bhanu, 2022
 Student Qualifying Exam, GSBS, Jayanta Mondal, 2022 (chair)
 Student Qualifying Exam, GSBS, Amanda Warner, 2022 (chair)
 Student Qualifying Exam, GSBS, Haoyi Wu, 2023
 Student Qualifying Exam, GSBS, Hsiang-Hsi Ling, 2023 (chair)
 Student Qualifying Exam, GSBS, Shao-Ping Emily Yang, 2023
 Student Qualifying Exam, GSBS, Recep Bayraktar, 2023
 Student Qualifying Exam, GSBS, Yating Li, 2023
 Student Qualifying Exam, GSBS, Shradda Subramanian, 2023
 Student Qualifying Exam, GSBS, Janelle Korf, 2023
 Student Qualifying Exam, GSBS, Madeline Steiner, 2023
 Student Qualifying Exam, GSBS, Pengju Gong, 2023 (chair)
 Student Qualifying Exam, GSBS, Yutao Qi, 2023 (chair)
 Student Qualifying Exam, GSBS, Andrew Gillard, 2023 (chair)

Direct Supervision

Undergraduate and Allied Health Students

N/A

Medical Students

Research Mentor, Medical Research Fellows Program, Allen Ho, MD, 5/2012-5/2013

Graduate Students

GSBS, Daniel Zamler, graduated
 GSBS, Fatma Yasar, graduated
 GSBS, Seula Shin, graduated
 Non-GSBS, Xi Chen, graduated
 GSBS, Yating Li, present
 GSBS MD/PhD, Joseph Barnes, present
 GSBS, Rocio Zorrilla, present
 GSBS, Takese McKenzie, present

GSBS, Bridgitte Palacios, present

GSBS, Shengxin Li, present

GSBS, Shaolin Mei, present

GSBS, Kaylene Lu, present

GSBS, Spring Hwang, present

Postdoctoral Research Fellows

Jiangong Ren, present

Qiang Zhang, present

Ailiang Zeng, present

Yinglu Guan, present

Clinical Residents and Fellows

N/A

Other Supervisory Teaching

Rotating Student, John D'Aigle

Rotating Student, Justin Shaw

Rotating Student, KC Chen

Rotating Student, Kimberly Rivera-Caraballo

Rotating Student, Vidhi Chandra

Rotating Student, Yan Zhu

Rotating Student, Yiming Cai

Rotating Student, Mekenzie Peshoff

Rotating Student, David Won

Rotating Student, Akhila Parthasarathy

Rotating Student, Kiersten Scott

Rotating Student, Mya Nicole Rodriguez

Rotating Student, Rameesa Khan

Rotating Student, Chengen (Allen) Shen

Rotating Student, Jean Kwon

Teaching Outside Current Institution

Formal Teaching

Courses Taught

N/A

Training Programs

N/A

Other Formal Teaching

N/A

Supervisory Teaching

Committees

Advisory Committees

Baylor College of Medicine, Fanglue Peng, present

Supervisory Committees

N/A

Examining Committees

N/A

Direct Supervision

Undergraduate and Allied Health Students

Research Mentor, Summer Honors Undergraduate Research Program, Harvard Medical School, Shawn Johnson, BA, 5/2010-8/2010

Research Mentor, Harvard Medical School, TJ Hu, BA, 5/2011-8/2011

Rice University, Brittany Nguyen, 2021

Rice University, Natalie Gault, 2018-2021

Rice University, Vineel Mallepalli, 2018-2029

Rice University, Zuhair Hawa, 2018-2020

Rice University, Yannie Guo, 2021

Howard University, Kayla Young, 2021

University of Puerto Rico, Francisco A. Del Valle, 2021

Rice University, Sujay Pavansai, Marisetty, present

Rice University, Katherine Wu, present

Rice University, Elizabeth pan, present

Medical Students

N/A

Graduate Students

N/A

Postdoctoral Research Fellows

N/A

Clinical Residents and Fellows

N/A

Other Supervisory Teaching

N/A

CONFERENCES AND SYMPOSIA

Organization of Conferences/Symposia (Include chairing session)

MD Anderson Brain Tumor Center Retreat, Co-chair, 2017

MD Anderson Symposia on Cancer Research, Organizing Committee, 2018

Symposia on Cancer Research, Session Chair of The Ernst W. Bertner Memorial Award, 2018

MD Anderson GBM Preclinical Research Retreat, Session Chair, 2019

American Society of Neurochemistry, Symposium Chair, Lipid metabolism of myelin, 2022

Presentations at National or International Conferences

Invited

Targeted ubiquitination of CDT1 by the DDB1-CUL4A-ROC1 ligase in response to DNA damage, Keystone Symposium: Ubiquitin and Signaling, Taos, NM, 2/2005

Genetic model of anit-telomerase therapy in cancer reveals DNA recombination and oxidative adaptive mechanisms, NCI-Mouse Models of Human Cancers Consortium (MMHCC) Steering Committee Meeting, Rockville, MD, 6/2011

Genetic model of anti-telomerase therapy in cancer reveals DNA recombination and oxidative adaptive mechanisms, NCI-Mouse Models of Human Cancers Consortium (MMHCC) Steering Committee Meeting, Rockville, MD, 6/2011

Cancer Genomics-based Mouse Models to Identify Novel Mechanisms of Drug Resistance, RTOG Semiannual Symposium--- Biomarkers: The Next Generation, Atlanta, GA, 1/2012

Cancer Genomics-based Mouse Models to Identify Novel Mechanisms of Drug Resistance, Radiation Therapy Oncology Group, Semiannual Symposium--Biomarkers: The Next Generation, Atlanta, GA, 1/2012

Understand glioblastoma from a stem cell perspective. iPS and Stem Cells in Cancer Research, Kyoto University Medical School, Kyoto, Japan, 4/2014

Understanding brain cancer from a stem-cell perspective, International Symposium of Genetics, Fudan University, Shanghai, China, 4/2014

QKI deletion enhances self-renewal of glioma stem cells and promotes gliomagenesis, AACR Annual Meeting, Philadelphia, PA, 4/2015

QKI deletion maintains niche-independent self-renewal of glioma stem cells, Young Investigator Workshop: Immunsystem and Microenvironments-Implications for Cancer Therapy, Oslo, Norway, 8/2015

QKI Deletion Enhances Self-renewal of Glioma Stem Cells and Promotes Gliomagenesis, AACR, New Orleans, LA, 4/17/2016

QKI Deletion Enhances Self-renewal of Glioma Stem Cells and Promotes Gliomagenesis, Society for NeuroOncology, Scottsdale, AZ, 11/19/2016

Quaking loss enhances glioma stem cell stemness through regulating intracellular vesicle trafficking, San Francisco, CA, 11/18/2017

Unsaturated fatty acid (UFA) metabolism regulates inter-organelle communications in glioma stem cells, Cancer Stem Cell Conference, Cleveland, MT, 8/2018

Role of defective lipid metabolism in regulating intracellular vesicle trafficking in glioblastoma, Young Investigators Forum of Society of Neuro-Oncology, Atlanta, Atlanta, GA, 7/2019

Defective lipid metabolism in glioblastoma results in genomic instability and sensitization to immune checkpoint blockades, NCI Brain SPORE conference webinar, 9/2019

Defective QKI-dependent lipid metabolism induces genomic instability and sensitizes glioblastoma to immunotherapy, Society for NeuroOncology Annual Meeting, Phoenix, AZ, 11/2019

Lipid metabolism is a stratifying mechanism for glioblastoma patients in response to immune checkpoint blockade, 2020 DSA Retreat, The Sontag Organization, Yulee, FL, 2/12/2020

2021 NIH Mid-Winter SPORE Workshop, Telomere regulation in pediatric high-grade glioma, 2/26/2021

Myelin is a dynamic material. American Society of Neurochemistry Annual Meeting, Roanoke, Virginia, 4/2022

2023 NIH Mid-Winter SPORE Workshop, Role of lipid metabolism in glioma associated myeloid cells, San Francisco, CA, 2/26/2023

Cancer Neuroscience Program at MD Anderson, AACR Annual Meeting, Orlando, FL, 4/16/2023

Other, Including Scientific Exhibitions

N/A

Seminar Invitations from Other Institutions

A new S-phase checkpoint induced by DNA damage is dependent on DDB1-CUL4-ROC1 E3 ligase, UNC-Chapel Hill Student Summer Talk Series, Biochemistry and Biophysics, Chapel Hill, NC, 8/2004

Anti-telomerase therapy provokes ALT and adaptive mitochondrial mechanisms, Dana Farber 7th Annual Postdoc/Graduate Student Retreat, Boston, MA, 9/2011

Cancer: A Disease of Plasticity, Heterogeneity and Adaptability, Fudan University, School of Life Science, Shanghai, China, 11/2012

Cancer: A Disease of Plasticity, Heterogeneity and Adaptability, Qingdao University, Medical School, Qingdao, Shandong, China, 11/2012

Cancer: A Disease of Plasticity, Heterogeneity and Adaptability, Shanghai Sixth People's Hospital, Division of Oncology, Shanghai, China, 11/2012

Cancer: A Disease of Plasticity, Heterogeneity and Adaptability, Fudan University, School of Life Science, Shanghai, China, 10/2012

Cancer: A Disease of Plasticity, Heterogeneity and Adaptability, University of Texas Southwestern Medical Center, Children's Research Institute, Dallas, TX, 1/6/2013

Cancer: A Disease of Plasticity, Heterogeneity and Adaptability, Geisel School of Medicine at Dartmouth, Department of Pharmacology & Toxicology, Hanover, NH, 1/24/2013

Cancer: A Disease of Plasticity, Heterogeneity and Adaptability, University of Pennsylvania Perelman School of Medicine, Department of Cancer Biology, Philadelphia, PA, 2/20/2013

Cancer: A Disease of Plasticity, Heterogeneity and Adaptability, University of North Carolina at Chapel Hill, Lineberger Comprehensive Cancer Center, Chapel Hill, NC, 5/8/2013

Molecular Genetics of Brain Cancer, Huashan Hospital, Shanghai, 5/4/2015

Molecular Genetics of Brain Cancer, Peking Union Medical College Hospital (PUMCH), Neurosurgery, Beijing, China, 5/6/2015

Glioblastoma, Oligodendroglioma, and Cancer Stem Cells, Huashan Hospital, Neurosurgery, Shanghai, China, 7/29/2016

Glioblastoma, Oligodendroglioma, and Cancer Stem Cells, Peking Union Medical College Hospital (PUMCH), Beijing, China, 7/30/2016

QKI Deletion Enhances Self-renewal of Glioma Stem Cells and Promotes Gliomagenesis, Jiangxi Province Cancer Hospital, Beijing, China, 11/8/2016

QKI Deletion Enhances Self-renewal of Glioma Stem Cells and Promotes Gliomagenesis, Huashan Hospital, Shanghai, China, 11/11/2016

QKI Deletion Enhances Self-renewal of Glioma Stem Cells and Promotes Gliomagenesis, Institute of Biomedical Sciences, Fudan University, Shanghai, China, 11/14/2016

Dual functions of QKI in gliomagenesis and glial development, Baylor College of Medicine, Department of Molecular and Cellular Biology, Houston, TX, 3/16/2017

QKI Deletion Enhances Self-renewal of Glioma Stem Cells and Promotes Gliomagenesis, Peking Union Medical College Hospital (PUMCH), Beijing, China, 6/16/2017

Quaking: at the crossroad of glioma development and myelin maintenance, Baylor College of Medicine, Baylor College of Medicine, Department of Pharmacology & Chemical Biology, Houston, TX, 11/2018

Lipid metabolism in gliomagenesis and myelin maintenance, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, 9/2019

Lipid metabolism in gliomagenesis and myelin maintenance, University of North Carolina at Chapel Hill, University of North Carolina, Department of Biochemistry and Biophysics, Chapel Hill, NC, 10/2019

Lipid metabolism in gliomagenesis and myelin maintenance, University of Virginia, Department of Microbiology, Immunology and Cancer Biology, Charlottesville, VA, 11/2019

Can we ever cure glioblastoma? Keynote speaker of Women's Health and Cancer Forum, Austin College, Sherman, TX, 12/2019

Lipid metabolism in gliomagenesis and myelin maintenance, Indiana University School of Medicine, Department of Medical and Molecular Genetics, 2/19/2020, Indianapolis, IN

Lipid metabolism in brain tumor and neurodegeneration, Northwestern University, Department of Neurological Surgery, 5/10/2021

Lipid metabolism in brain tumor and neurodegeneration, University of Pennsylvania, Department of Neurosurgery, 11/4/2021

Lipid metabolism in brain tumor and neurodegeneration, University of Pennsylvania, Department of Cancer Biology, 5/6/2022

Lipid metabolism in brain tumor and neurodegeneration, University of Nebraska Medical Center, Department of Genetics, Cell Biology and Anatomy, 7/11/2022

Lipid metabolism in brain tumor and neurodegeneration, Weizmann Institute, Israel, 9/7/2022

Lipid metabolism in brain tumor and neurodegeneration, University of Texas Health Science Center at Houston, Center for Metabolic and Degenerative Diseases, 3/29/2023

Lipid metabolism in brain tumor and neurodegeneration, University of South Carolina Medical University, 4/13/2023

Lectureships and Visiting Professorships

N/A

Other Presentations at State and Local Conferences

Lipid metabolism in Brain, Distinguished Seminar Series, UT MD Anderson, Experimental Therapeutics, Houston, TX, 1/29/2020

Lipid metabolism in brain tumor and neurodegeneration, UT MD Anderson, Experimental Radiation Oncology, Houston, TX, 4/15/2021

Lipid metabolism and brain wellness, UT MD Anderson Neurodegenerative Consortium, Houston, TX, 10/15/2021

Telomere regulation in pediatric high-grade gliomas, UT MD Anderson Research Town Hall, Houston, TX, 1/22/2022

Qki-mediated cholesterol biosynthesis in eye lens and myelin of the central nervous system, UT MD Anderson Research Town Hall, Houston, TX, 5/28/2022

Enhancing the eating ability of myeloid cells in brain tumors, UT MD Anderson Research Town Hall, Houston, TX, 8/5/2022

Membrane biology of myeloid cells in neurodegeneration and brain tumors, UT MD Anderson Myeloid Diversity Interest Group, Houston, TX, 10/19/2022

Cancer Neuroscience, UT MD Anderson Research Town Hall, Houston, TX, 6/23/2023

PROFESSIONAL MEMBERSHIPS/ACTIVITIES

Professional Society Activities, with Offices Held

National and International

AACR

Active Member, 2007-present

Society for NeuroOncology

Active Member, 2015-present

American Society of Neurochemistry

Active Member, 2020-present

Local/State

N/A

UNIQUE ACTIVITIES

1. UT MD Anderson Cancer Center IRG ad hoc reviewer (April, 2015)
2. UT MD Anderson Cancer Center Annual Postdoctoral Science Symposium: Faculty Academic Review Committee member and judge (September, 2015)

DATE OF LAST CV UPDATE

8/9/2023