

# **CURRICULUM VITAE**

## **Mahua Dey MD, FAANS**

Associate Professor (Tenure)  
Department of Neurological Surgery  
Director of Surgical Neuro-oncology Program  
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### **PREVIOUS APPOINTMENTS**

- Assistant Professor of Neurological Surgery Tenure Track, University of Wisconsin School of Medicine and Public Health, Madison WI. (Sept 2019 – June 2024)
- Assistant Professor of Neurological Surgery Tenure Track, Indiana University School of Medicine, Indianapolis IN. (July 2015 – Aug 2019)
- Adjunct Assistant Professor of Microbiology and Immunology, Indiana University School of Medicine, Indianapolis IN. (July 2015 – Aug 2019)

### **EDUCATION**

- B.A. (Hons.) in Economics, Jadavpur University, Kolkata India. (May 1998)
- B.S. in Economics, Summa cum laude, University of Houston, Houston TX. (May 2003)
- M.D. in Medicine, Baylor College of Medicine, Houston TX. (May 2007)

### **PROFESSIONAL TRAINING**

2007-2008	Post-doctoral Fellow in Oncology and Molecular Biology ( <i>Mentor: Raymond DuBois MD PhD</i> ), MD Anderson Cancer Center, Houston TX.
2008-2015	Neurological Surgery Resident, University of Chicago, Chicago IL

2012-2014	NIH R25 Post-doctoral Fellow in Neuro-Oncology (Mentor: Maciej Lesniak MD), University of Chicago, Chicago IL.
2014-2015	Chief Resident of Neurological Surgery, University of Chicago, Chicago IL.
2016	Leksell Gamma Knife Radiosurgery Course, Pittsburg PA.
2020	Fellow of CNS Leadership Institute
2022	TeamSTEPPS Master Trainer Course, Madison WI.
2024	UW Health Physician Leadership Development Program (PLDP), Madison WI.

## LICENSURE

State of Wisconsin Medical License, Certificate #71615-20  
State of Illinois Medical License, Certificate #036.137324

## BOARD CERTIFICATION

American Board of Neurological Surgeons, ABNS (2018)

## ACADEMIC APPOINTMENTS

2015-2019	Assistant Professor of Neurological Surgery, Indiana University, Indianapolis IN.
2015-2019	Neurosurgeon at Goodman Campbell Brain and Spine, Indianapolis IN.
2016-2019	Adjunct Assistant Professor of Microbiology and Immunology, Indiana University, IN.
2019-2024	Assistant Professor of Neurological Surgery (Tenure Track), University of Wisconsin School of Medicine and Public Health, Madison WI.
2024-Present	Associate Professor of Neurological Surgery, University of Wisconsin School of Medicine and Public Health, Madison WI.
2019-Present	Director of Surgical Neuro-oncology University of Wisconsin Madison, Madison WI
2019-Present	Member, University of Wisconsin Carbone Comprehensive Cancer Center, Tumor Microenvironment (TME) Program
2020-Present	Member, Neuroscience Training Program (NTP), University of Wisconsin Madison, Madison WI.

2024-Present	Member, Cellular and Molecular Pathology Training Program (CMP), University of Wisconsin Madison, Madison WI.
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## HONORS AND AWARDS

2003-2005	Carl J. Herzog Foundation Medical School Scholarship Endowment, University of Texas Medical Branch, Galveston TX.
2003	1 <sup>st</sup> Nicholson Integrative Medicine Student Poster Session on Complementary, Alternative, & Integrative Medicine Topics, University of Texas Medical Branch, Galveston TX.
2004	McLaughlin Best Infection & Immunity Poster, University of Texas Medical Branch, Galveston TX.
2004	McLaughlin Medical Student Summer Research Program Fellowship, University of Texas Medical Branch, Galveston TX.
2005	American College of Physicians Annual Meeting, Poster Presentation Award, San Francisco, CA.
2012	The National Institutes of Health (NIH) Resident Training Award (R25), Bethesda, MD.
2012	American College of Surgeons (ACS) Resident Research Award, Chicago IL.
2013	The University of Chicago Huggins Research Conference, Award for the Best Research Poster, University of Chicago, Chicago, IL.

## PROFESSIONAL ASSOCIATIONS

American Associations of Neurological Surgeons (AANS, 2004)  
Congress of Neurological Surgeons, (CNS, 2004)  
AANS/CNS- Joint Section on Tumors (2015)  
American College of Surgeons (ACS, 2012)  
Society of Neuro-Oncology (SNO, 2012)  
American Medical Association (AMA, 2015)  
American Board of Neurological Surgeons (ABNS, 2019)

## GRANT SUPPORT-ACTIVE

*Neural organoid models of the immunological microenvironment of glioblastoma for drug discovery application.* NIH, subaward through StemPharm. 1R41CA281533-01A1. 07/11/2023-06/30/2024. PI: Dey.

*Targeted radionuclide therapy for treatment of leptomeningeal disease.* ICTR – UW-Madison. T22-20. 09/01/2023-08/31/2024. Co-PI: Dey

*Liquid Biopsy for early detection of glioblastoma.* WARF Accelerator - Oncology Diagnostics Challenge Grant– UW-Madison. 12/01/2023. Co-PI: Dey

*WARF Therapeutics WR-542 Cell Based-therapy Development Grant. Development of personalized engineered cytokine GIFT-7 vaccine for Glioblastoma.* WARF. AAM2246. Starting 07/01/2023- till Early phase clinical trial– extension based on milestones achieved. Starting \$75,000 up to \$10 Million. PI: Dey;

*Spatial proteomics and Transcriptomics of DIPG.* NanoString Spatial Genomics, PI: Dey, 05/01/2022.

## GRANT SUPPORT-PAST

NIH/NINDS K08NS092895 (PI: Dey) *Role of Plasmacytoid Dendritic Cells in Malignant Glioma.* \$961,732; 07/01/16 - 06/30/2023

IU Value Research Grant (PI: Dey) *A Phase II Study Analyzing Pre-operative Stereotactic Radiosurgery Followed by Resection for Patients with 1 – 4 Brain Metastases* \$150,000; 07/01/2018-06/30/2022.

NanoString Spatial Genomics (PI: Dey) *Spatial proteomics and Transcriptomics of DIPG.* 05/01/2022.

NIH/NINDS R25NS065744 (PI: Dey) *Plasmacytoid Dendritic Cells Influence Glioma Progression by IDO mediated Treg accumulation* 07/01/2012-06/30/2013.

American College of Surgeons (PI: Dey) *Role of Plasmacytoid Dendritic Cells in Malignant Glioma.* \$60,000; 07/01/2012-06/30/2014.

Purdue Institute for Integrative Neuroscience (Co-PI: Dey) *Brain tumor banking in a canine model of spontaneous brain tumors* \$13,000; 06/03/16-06/02/17.

Showalter Young Investigator Award (PI: Dey) *Tumor derived TGF- $\beta$  regulates pDC phenotype in glioblastoma multiforme.* \$60,000; 07/01/2016 – 06/30/2017.

NRCDDP NIH K-12 (PI: Dey) *Role of Plasmacytoid Dendritic Cells in Malignant Glioma* \$313,176; 01/01/2016-12/31/2017.

IU New Frontiers in Arts and Humanities Grant (Co-PI: Dey) *Bridging the Gap: Using Video Art to Document the Human Face of Disease & Predict Quality of Life Assessments in Brain Tumor Patients* \$14,683; 06/2016-12/2017.

Roche Educational Grant (Co-PI: Dey) *Evaluation of PD-L1 Expression and inflammatory intensity in melanoma metastatic to brain.* \$25,000 10/16/2018.

## **COUNCILS AND COMMITTEES**

### **Local**

1. Goodman Campbell Brain and Spine Research Review Committee, 2016-2019
2. Director of Neuro-oncology conference CME, 2015-2019
3. Member of Director of Neuro-oncology search committee. 2017-2019
4. Research mentor for Medical Student Program for Research and Scholarship (IMPRS) program, 2016-2019
5. Research mentor for IUSM NIH T35 medical student training grant, 2017-2019
6. Invited Judge for IU Simon Cancer Center Cancer Day, 2017
7. Member of Women's Advisory Council (WAC) committee at IUSM, 2018
8. Member of PhD advisory committee for Qiang Chen, IBMG Graduate Student Department of Microbiology and Immunology, 2018
9. Research Preceptor for Dr Mark Kaplan's NIAID T32 Immunology and Infectious Disease Training Grant, 2018-2019
10. Research Preceptor for Dr Cummins NIH/NINDS R25 grant re-submission, 2018
11. Board Member of The Goodman Campbell Brain and Spine Neurosurgery Foundation, 2018-2019.
12. Invited Judge for IU Simon Cancer Center Cancer Day, 2019
13. UWCCC Research Retreat Steering Committee, 2021
14. Member of Data Monitoring Committee for Worldwide Clinical Trials Limited Berg LLC Study BPM3150IV-11 Single-arm, non-randomized, open-label Phase 2 therapeutic study to assess the effects of adding BPM31510 onto a conventional treatment framework of RT and concurrent TMZ chemotherapy for subjects with newly diagnosed Glioblastoma.
15. UW SMPH Academic Planning Committee (APC), 2020 – 2023
16. UWMF Compensation Development Committee, Jan 1<sup>st</sup>, 2021-Dec 31<sup>st</sup> 2026

17. Member of UWSMPH OB/GYN Chair search committee, 2021.
18. UWCCC Faculty Development and Education Committee, 2021-
19. UW Health Value/quality based compensation Work group, 2021-
20. UW Health OB GYN Comp Review Sub-Committee, 2022-
21. UW SMPH Strategic Framework Steering Committee, 2022-
22. UW Campus Diversity and Climate Committee, 2022-2028
23. UW Department of Pathology and Lab Med and UWCCC, The Craig Jordan Lectureship Speaker Selection Committee, 2022.
24. UW Health Human Oncology Comp Review Sub- Committee, 2022-
25. UW NTP Admission Committee Member, 2023.
26. UWCCC Diverse Workforce and Equity Transformation Committee, 2023-
27. Member of UWSMPH Director of UW Carbone Cancer Center and Associate Dean for Oncology search committee, 2023.
28. UW Campus Diversity and Climate Committee Co-Chair, 2024-2026
29. UWMF CDC RVU Sub Committee Vice Chair, Jan 1<sup>st</sup>, 2025
- 30.

## **National**

1. NRG Oncology Member of New Investigators Committee, 2020-2026
2. AANS/CNS Section on Tumors Executive Committee, 2022-2026
3. NRG Brain Tumor General Committee, Starting 2022-.
4. Interurban Neurological Society Annual Meeting Scientific Planning Committee, March 10<sup>th</sup> 2023.
5. Invited SNO Faculty Delegate for Head to the Hill, Brain Tumor Advocacy Group with National Brain Tumor Association, May 7-9<sup>th</sup> 2023.
6. Invited SNO Faculty Delegate for Head to the Hill, Brain Tumor Advocacy Group with National Brain Tumor Association, May 4-7<sup>th</sup> 2024.

7. Scientific Program Co-Chair for Tumor Section CNS Annual Meeting 2025, LA USA
- 8.

## **GRANT REVIEW**

### *Ad-hoc Committee Member (NIH)*

SEP-2: NCI Clinical Translational R21 and Omnibus R03 2018/10 ZCA1 SRB-K (O1) S, 05/21-05/22, 2018; SRA: Hasan Siddiqui PhD.

### *ICTR Pilot Award Program*

UWSMPH May 2020

### *K08 NST-1 Review Committee Member (NIH)*

ZNS1 SRB-B (04)

Dec 3<sup>rd</sup> 2020; SRA: William C Benzing PhD.

Jan 25<sup>th</sup>-26<sup>th</sup> 2021; SRA: William C Benzing PhD.

Jan 31<sup>st</sup>-Feb1<sup>st</sup> 2022; SRA: William C Benzing PhD.

### *U54 Metastatic Research Network (MetNet) Review Committee Member (NIH)*

ZCA1 RTRB-Y (M1)R

Feb 25<sup>th</sup>-26<sup>th</sup> 2021; SRA: Shari W. Campbell DPM.

### *K9CIN Review Committee Member (NIH)*

Feb 17<sup>th</sup>-18<sup>th</sup> 2022; SRA: Caterina Bianco PhD.

### *NCI Career Development K-applications Review Committee Member (NIH)*

Oct 27<sup>th</sup>-28<sup>th</sup> 2022; SRA: Tushar Deb PhD.

June 28<sup>th</sup>-29<sup>th</sup> 2023; SRA: Tushar Deb PhD.

Feb 19<sup>th</sup>-20<sup>th</sup> 2025; SRA: Tushar Deb PhD.

### *SBIR/STTR Omnibus Review Committee (NIH)*

April 23<sup>rd</sup> 2025; SRA: Leila Toulabi PhD.

### *AANS/CNS NREF Grant Reviewer*

April 2023; Jan 2025

ICTR KL2 Grant Reviewer Nov 2023

Minter Graduate Student Award Review Committee 2024

## **INTERNATIONAL GRANT REVIEW ASSOCIATIONS**

Invited Guest Scientific Grant Reviewer, KWF Kankerbestrijding – Dutch Cancer Society (DCS), 2017.

Invited Guest Scientific Grant Reviewer, Swiss Cancer research Foundation and Swiss Cancer League, 2022.

Invited Guest Scientific Grant Reviewer, UKRI Medical Research Council, University College London, 2023.

Invited Guest Scientific Grant Reviewer, Worldwide Cancer Research , 2024.

Invited Guest Scientific Grant Reviewer, Ymchwil Canser Cymru, Cancer Research Wales , Dec 2024.

## CLINICAL PROTOCOLS

1. *Bridging the Gap: Using Video Art to Document the Human Face of Disease and Predict Quality of life Assessments in Brain Tumor Patients. Principle Investigator* 2016-Present NCT02890940.
2. *A Phase II Study Analyzing Pre-operative Stereotactic Radiosurgery Followed by Resection for Patients with 1 – 4 Brain Metastases. Co-Investigator* 2018-Present NCT03398694

## EDITORIAL ACTIVITIES

Associate Editor	Frontiers in Oncology
Ad hoc reviewer	Medicine
Ad hoc reviewer	Oncotarget
Ad hoc reviewer	Neurosurgery
Ad hoc reviewer	Cancer Letter
Ad hoc reviewer	British Journal of Cancer
Ad hoc reviewer	Cancer Immunology Immunotherapy
Ad hoc reviewer	NeuroChemistry International
Ad hoc reviewer	Journal of Neuro-oncology

## BIBLIOGRAPHY

1. **Dey M**, Hussain SF, Heimberger AB. *The glioma microenvironment role in immune modulation: Potential targets for intervention.* Letters in Drugs Design & Discovery 3(7):443-451, 2006.



2. Heimberger AB, Sun W, Hussain SF, **Dey M**, Crutcher L, Aldape K, Gilbert M, Hassenbusch SJ, Sawaya R, Schmittling B, Archer GE, Mitchell DA, Bigner DD, Sampson JH. *"Immunological and clinical response in a patient with glioblastoma multiforme treated with concurrent temozolomide and Immunotherapy: Case Study"* Neuro Oncology 10(1):98-103, 2008.
3. **Dey M**, Ulasov IV, Lesniak MS. *Virotherapy against malignant glioma stem cells*. Cancer Letters 289(1):1-10, 2010.
4. **Dey M**, Ulasov IV, Tyler MA, Sonabend AM, Lesniak MS. *Cancer Stem Cells: The Final Frontier for Glioma Virotherapy*. Stem Cell Review 7(1):119-29, 2010.
5. **Dey M**, Turner MS, Wollmann R, Awad IA. *Fatal "Hypertensive" Intracerebral Hemorrhage Associated with a Cerebral Cavernous Angioma: Case Report*. Acta Neurochir (Wien) 153(2):421-3, 2011.
6. **Dey M**, Turner MS, Pytel P, Awad IA. *A "pseudo-cavernoma" - an encapsulated hematoma of the choroid plexus*. J Clin Neurosci 18(6):846-8, 2011.
7. Ulasov IV, Nandi S, **Dey M**, Sonabend AM, Lesniak MS. *Inhibition of Sonic hedgehog and Notch pathways enhances sensitivity of CD133+ glioma stem cells to temozolomide therapy*. Molecular Medicine 17(1-2):103-112, 2011.
8. **Dey M**, Awad IA. *Fenestration of supraclinoid internal carotid artery and associated aneurysm: report of 2 cases*. World Neurosurg 76(6):592.e1-5, 2011.
9. **Dey M**, Jaffe J, Stadnik A, Awad IA. *External ventricular drainage for intraventricular hemorrhage*. Curr Neurol Neurosci Rep 12(1):24-33, 2012.
10. **Dey M**, D Silver, R Wong, S Smith, B Yamini. *Marginal Zone Lymphoma of the Thoracic Dura Causing Spinal Cord Compression: A Case Report*. J Clin Neurosci 20(1):171-3, 2012.
11. Wainwright DA, Nigam P, Thaci B, **Dey M**, Lesniak MS. *Recent developments on immunotherapy for brain cancer*. Expert Opin Emerg Drugs 17(2):181-202, 2012.
12. **Dey M**, Stadnik A, Awad IA. *Thrombolytic Evacuation of ICH and IVH*. Curr Cardiol Rep 14(6):754-60, 2012.
13. Wainwright DA, **Dey M**, Chang AL, Lesniak MS. *Natural and Tumor Induced Regulatory T-cells in Malignant Glioma*. Frontiers in Tumor Immunology 15;4:116, 2013.

14. **Dey M**, Auffinger B, Lesniak MS, Ahmed AU. *Anti-glioma Oncolytic Virotherapy: Unattainable Lofty Goal or a Success Story in the Making?* Future Virology 8(7):675-693, 2013.
15. **Dey M**, Stadnik A, Awad IA. *Spontaneous Intracerebral and Intraventricular Hemorrhage: Advances in Minimally Invasive Surgery and Thrombolytic Evacuation, and Lessons Learned in Recent Trials* Neurosurgery 74 Suppl 1:S142-50, 2014.
16. Ulasov I, Thaci B, Sarvaiya P, Yi R, Auffinger B, Pytel P, Guo D, Zhang L, Kim CK, Borovjagin A, **Dey M**, Han Y, Baryshnikov A, Lesniak MS. *Inhibition of MMP14 Potentiates the Therapeutic Effect of Temozolomide and Radiation in Gliomas.* Cancer Medicine 2(4):457-67, 2013.
17. **Dey M**, Chang AL, Wainwright DA, Ahmed AU, Han Y, Balyasnikova IV, Lesniak MS. *Heme Oxygenase-1 Protects Regulatory T Cells from Hypoxia-Induced Cellular Stress in an Experimental Mouse Brain Tumor Model.* J Neuroimmunology 15;266(1-2) :33-42, 2013.
18. **Dey M**, Lin Y, Melkonian S, Lam S. *Prognostic Factors and Survival in Primary Adult High Grade Brainstem Glioma: A Population Based Study From 1973-2008.* J Clin Neurosci 21(8):1298-303, 2014.
19. **Dey M**, Ahmed AU, Lesniak MS. *CMV and Glioma: Putting the Cart Before the Horse.* J Neurol Neurosurg Psychiatry 86(2):191-9, 2015.
20. Auffinger B, Tobias AL, Han Y, Lee G, **Dey M**, Lesniak MS, Ahmed AU. *Conversion of Differentiated Cancer Cells into Cancer Stem-Like Cells in a Glioblastoma Model after Primary Chemotherapy.* Cell Death and Differentiation 21(7):1119-31, 2014.
21. Wainwright DA, Chang AL, **Dey M**, Balyasnikova I, Kim CK, Tobias A, Cheng Y, Kim J, Qiao J, Zhang L, Han Y, Mautino M, Lesniak MS. *Durable therapeutic efficacy utilizing combinatorial blockade against IDO, CTLA-4 and PD-L1 in mice with brain tumors.* Clin Cancer Res 20(20):5290-301, 2014.
22. **Dey M**, Chang AL, Wainwright DA, Ahmed AU, Balyasnikova IV, Pytel P, Han Y, Tobias A, Zhang L, Qiao J, Lesniak MS. *Dendritic Cell Based Vaccines that Utilize Myeloid Rather than Plasmacytoid Cells Offer a Superior Survival Advantage in Malignant Glioma.* J Immunol 195(1):367-76, 2015.
23. **Dey M**, Stadnik A, Riad F, Zhang L, McBee N, Kase C, Carhuapoma JR, Ram M, Lane K, Ostapkovich N, Aldrich F, Aldrich C, Jallo J, Butcher K, Snider R, Hanley D, Ziai W, Awad IA, the CLEAR III Trial Investigators. *Bleeding and Infection with External Ventricular Drainage: A Systematic Review in Comparison to Adjudicated Adverse Events in the Ongoing CLEAR III Trial.* Neurosurgery 76(3):291-301, 2015.

24. Zhai L, Lauing KL, Chang AL, **Dey M**, Qian J, Cheng Y, Lesniak MS, Wainwright DA. *The role of IDO in brain tumor immunotherapy*. J Neurooncol 123(3):395-403, 2015.
25. Qiao J, **Dey M**, Chang AL, Kim J, Miska J, Ling A, Nettlebeck D, Han Y, Zhang L, Lesniak MS. *Intratumoral Oncolytic Adenoviral Treatment Modulates the Glioma Microenvironment and Facilitates Systemic Tumor-Antigen Specific T Cell Therapy*. OncoImmunology 4(8), 2015.
26. Zhai L, **Dey M**, Lauing KL, Gritsina G, Kaur R, Lukas R, Nicholas KM, Rademaker AW, Dostal C, McCusker R, Raizer J, Parsa AT, Bloh O, Wainwright DA. *Assessing the Kynurenine to Tryptophan Ratio as a Prognostic Tool for Glioblastoma Patients Enrolling in Immunotherapy*. J Clin Neurosci 22(12):1964-8, 2015.
27. Chang AL, Miska J, Wainwright DA, **Dey M**, Rivetta CV, Yu D, Kanojia D, Pituch KC, Qiao J, Pytel P, Han Y, Wu M, Zhang L, Horbinski C, Ahmed AU, Lesniak MS. *CCL2 produced by the glioma microenvironment is essential for the recruitment of regulatory T cells and myeloid-derived suppressor cells*. Cancer Res 76(19):5671-5682, 2016.
28. **Dey M**, Dou Y, Kanojia D, Li G, Sukhanova M, Spencer DA, Pituch KC, Zhang L, Han Y, Ahmed AU, Aboody KS, Lesniak MS and Balyasnikova IV. *Intranasal Oncolytic Virotherapy with CXCR4-Enhanced Stem Cells Extends Survival in Mouse Model of Glioma*. Stem Cell Reports 7(3):471-82, 2016.
29. Bentley RT, Ahmed AU, Yanke AB, Cohen-Gadol A, **Dey M**. *Dogs are Man's Best Friend: In Sickness and in Health*. Neuro Oncol, 219(3):312-322, 2017.
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31. Filley AC, **Dey M**. *Immune System, Friend or Foe of Oncolytic Virotherapy?* Front Oncol 7:106, 2017.
32. Fetcko K, Gondim DD, Bonnin JM, **Dey M**. *Cervical cancer metastasis to the brain: A case report and review of literature*. Surg Neurol Int. 8:181, 2017.
33. Filley AC, Henriquez M, **Dey M**. *Recurrent Glioma Clinical Trial, Checkmate-143: The game is not over yet*. Oncotarget 8(53):91779-91794, 2017.
34. Fetcko K, Lukas RV, Watson GA, Zhang L, **Dey M**. *Survival and Complications of Stereotactic Radiosurgery: A Systematic Review of Stereotactic Radiosurgery for newly diagnosed and recurrent high-grade gliomas*. Medicine (Baltimore) 96(43):e8293, 2017.
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39. Petranek S, Pencek J, **Dey M**. *The effect of Pet Therapy and Artist Interactions on the Quality of Life in Brain Tumor Patients: A cross-Section of Art and Medicine in Dialog*. Behav Sci 8(5). Pii: E43, 2018.
40. Mitchell D, Chintala S, **Dey M**. *Plasmacytoid Dendritic Cell in Immunity and Cancer*. J Neuroimmunol. 15;322:63-73, 2018.
41. Filley AC, Henriquez M, **Dey M**. *CART Immunotherapy: Development Success and Translation to Malignant Glioma and Other Solid Tumors*. Front Oncol 17;8:453, 2018.
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45. Huff W, Kwon J, Henriquez M, Fetcko K, **Dey M**. *The Evolving Role of CD8+CD28- Immunosenescent T-cells in Cancer Immunology*. Int. J Mol. Sci. 20(11), 2019.
46. Mitchell D, **Dey M**. *Neoadjuvant anti-PD-1 Immunotherapy for Recurrent Glioblastoma*. Transl Cancer Res 8(suppl 6):S577-S579, 2019.
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48. Brown HM, Pu F, **Dey M**, Miller J, Shah MV, Shapiro SA, Ouyang Z, Cohen-Gadol AA, Cooks RG. *Intraoperative Detection of Isocitrate Dehydrogenase Mutations in*

*Human Gliomas Using a Miniature Mass Spectrometer*. Anal Bioanal Chem. 411(30):7929-7933, 2019.

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50. Brown HM, Alfaro CM, Pirro V, **Dey M**, Hattab EM, Cohen-Gadol AA and Cooks RG. *Intraoperative Mass Spectrometry Platform for IDH Mutation Status Prediction, Glioma Diagnosis and Estimation of Tumor Cell Infiltration*. J Appl Lab Med. 7;6(4):902-916, 2021.
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55. Lara-Velasquez M, Shireman J, Lehrer E, Bowman K, Ruiz-Garcia H, Paukner MJ, Chappell RJ and **Dey M**. *A comparison between chemo-radiotherapy combined with immunotherapy and chemo-radiotherapy alone for the treatment of newly diagnosed glioblastoma: a systemic review and meta-analysis*. Front Onc. 11:662302 eCollection, 2021.
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57. **Dey M**. *Surgical Intervention Provides the Foundation for Exploring Immunotherapy in Glioblastoma*. OncLive Vol 22/No. 06, March 2021.
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60. Shireman JM, Ammanuel S, Erickhoff J and **Dey M**. *Sexual Dimorphism of Human Immune System Predicts Clinical Outcome in Glioblastoma Immunotherapy: A Systemic Review and Meta Analysis*. Neurooncol Adv. 27;4(1):vdac082 2022.
61. Shireman JM, White Q, Agrawal N, Ni Z, Chen G, Zhao L, Gonugunta N, Wang X, McCarthy L, Kasulabada V, Pattnaik A, Ahmed AU, Miller J, Kulwin C, Cohen-Gadol A, Payner T, Lin CT, Savage JJ, Lane B, Shiue K, Kamer A, Shah M, Iyer G, Watson G, Kendzierski C and **Dey M**. *Genomic Analysis of Human Brain Metastases treated with Stereotactic Radiosurgery Under the Phase II Clinical Trial (NCT03398694) Reveals DNA Damage Repair at the Peripheral Tumor Edge*. medRxiv. 24:2023.04.15.23288491 2023.
62. Shireman JM, Gonugunta N, Zhao L, Pattnaik A, Distler E, Her S, Wang X, Das R, Galipeau J and **Dey M**. *GM-CSF and IL-7 Fusion Cytokine Engineered Tumor Vaccine Generates, Long-term TH-17 Memory Cells and Increase Overall Survival in Aged Syngeneic Mouse Models of Glioblastoma*. Aging Cell. 11:e13864 2023.
63. Damodharan S, Abbott A, Kellar K, Zhao Q and **Dey M**. *Molecular Characterization and Treatment Approaches for Pediatric H3K27 Altered Diffuse Midline Glioma: Integrated Systematic Review of Individual Clinical Trial participant Data*. Cancers (Basel). 3;15(13):3478, 2023.
64. Shireman JM, White Q, Ni Z, Mohanty C, Cai Y, Zhao L, Agrawal N, Gonugunta N, Wang X, McCarthy L, Kasulabada V, Pattnaik A, Ahmed AU, Miller J, Kulwin C, Cohen-Gadol A, Payner T, Lin CT, Savage JJ, Lane B, Shiue K, Kamer A, Shah M, Iyer G, Watson G, Kendzierski C and **Dey M**. *Genomic Analysis of Human Brain Metastases treated with Stereotactic Radiosurgery Reveals Unique Signature based on Treatment Failure*. iScience. 27(4):109601, 2024.
65. Shireman JM, Cheng L, Goel A, Garcia DM, Partha S, Quineones-Hinojosa A, Kendzierski C, and **Dey M**. *Spatial transcriptomics in glioblastoma: is knowing the right zip code the key to the next therapeutic breakthrough?* Front Oncol. Oct 17;13:1266397, 2023.
66. Damodharan S, Shireman JM, Xie E, Distler E, Kendzierski C and **Dey M**. *Transcriptomic and Proteomic Spatial Profiling of Pediatric and Adult Diffuse Midline Glioma H3K27-Altered, reveals Region Specific Differences and Limited Overlap between mRNA and Protein*. Res Sq Apr 5:re.3.rs-4139314; 2024.
67. Agrawal N, Shireman JM, Shiue K, Kamer A, Boyd L, Zang Y, Mukherjee N, Miller J, Kulwin C, Cohen-Gadol A, Payner T, Lin CT, Savage JJ, Lane B, Bohnstedt B, Lautenschlaeger T, Saito N, Shah M, Watson G, and **Dey M**. *Preoperative stereotactic radiosurgery for patients with 1-4 brain metastases: A single arm phase 2 trial outcome analysis (NCT03398694)*. Neurooncol Pract. May 8<sup>th</sup>; 11(5):593-603, 2024.

68. Damodharan S, Shireman JM, Xie E, Distler E, Kendziorski C and **Dey M**. *Transcriptomic and Proteomic Spatial Profiling of Pediatric and Adult Diffuse Midline Glioma H3K27-Altered*. Sci Rep Sept 30; 14(1):22668; 2024.
69. Zhao L, Shireman JM, Probelsky S, Riggs B, Wang X, Huff WX, Kwon JH and **Dey M**. *CCL21 Induces Plasmacytoid Dendritic Cell Migration and Activation in Mouse Model of Glioblastoma*. Cancer (Basel) Oct 12; 16(20):3459; 2024.
70. Shireman JM, Distler E, Schepp C, Tao Yilong, McCarthy L, Kasulabada V and **Dey M**. *Impact of pregnancy on the treatment and outcomes of glioma: a cohort study*. L Neurooncol. March 5; (online ahead of print) 2025.
71. Xie E, Cheng L, Shireman JM, Cai Y, Liu J, Mohanty C, **Dey M** and Kendziorski C. *CASSIA allows for robust, automated cell annotation in single-cell RNA sequencing data*. BioRxiv (preprint) 2024.
72. Shireman JM, Ammanuel S and **Dey M**. *Advancing Glioma Management: The Pivotal Role of Surgical Neuro-Oncology in Driving Innovation and Translational Research*. Curr Oncol Report. March 5; (online ahead of print) 2025.

## BOOK CHAPTERS

1. Awad I, **Dey M**, Jaffe J: *Open Evacuation of Intracerebral Hematoma*. In Jandial R, McCormick PC and Black PM. *Core Techniques in Operative Neurosurgery*, Elsevier, 2011.
2. Awad I, **Dey M**, Jaffe J: *Image-Guided Catheter Evacuation and Thrombolysis for Intracerebral Hematoma*. In Jandial R, McCormick PC and Black PM. *Core Techniques in Operative Neurosurgery*, Elsevier, 2011.
3. **Dey M**, Awad I: *Surgical Treatment Of Cavernous Malformations Associated with Epilepsy. Cavernous Malformations of the Nervous System*. Cambridge University Press 2010.
4. **Dey M**, Awad I: Management of Cavernoma. *Critical Care of the Stroke Patient*. Cambridge University Press 2010.
5. **Dey M**, Jaffe J, Awad I: *Management of ventricular drains in cerebrovascular disease. Critical Care of the Stroke Patient*. Cambridge University Press 2010.
6. **Dey M**, Awad I: *Non-Shunting Cerebrovascular Anomalies: Cavernous, Capillary and Venous Malformations. Neurointerventional Management: Diagnosis and Treatment*. 2nd edition 2011.
7. Ahmed AU, Thaci B, Wainwright DA, **Dey M**, and Lesniak MS: *Therapeutic Strategies Targeting Cancer Stem Cells. Cancer Stem Cells - The Cutting Edge, InTech*, 2011.

8. **Dey M**, and Awad I: *Future Microsurgical Technical Advances. Neurovascular Surgical Techniques*. Jaypee Publisher 2012.
9. **Dey M**, Brem H and Lesniak MS: *The role of local drug delivery in management of newly diagnosed and recurrent high grade glioma. Controversies in Neuro-Oncology: Best Evidence Medicine for Brain Tumor Surgery*. Thieme Publisher 2012.
10. Awad IA, **Dey M**, Brorson J and Lee SK: *Incidental Aneurysms. Neurovascular Surgery 2<sup>nd</sup> Edition*. Thieme Publisher 2012.
11. **Dey M**, Chang AL, Miska J, Qiao J and Lesniak MS: *Role of Tregs and IDO in brain Tumor Immunosuppression. Translational Immunotherapy of Brain Tumors*. Elsevier Publisher 2015.
12. Kraemer M and **Dey M**. *Central Nervous System Neoplasm*. Conn's Current Therapy Elsevier Publisher 2024.
13. Kraemer M and **Dey M**. *Central Nervous System Neoplasm*. Conn's Current Therapy Elsevier Publisher 2025.
- 14.

#### POSTER ABSTRACTS

1. **Dey M**, Murillo C, Evers BM. *Inhibition of PI3K using anti-p85 SiRNA attenuates dextran sulfate induced inflammatory bowel disease*. Texas Academy of Internal Medicine Annual Meeting, Dallas, 2004.
2. **Dey M**, Murillo C, Evers BM. *Inhibition of PI3K using anti-p85 SiRNA attenuates dextran sulfate induced inflammatory bowel disease*. American College of Physicians Annual Meeting, San Francisco, 2005.3
3. **Dey M**, Wainwright DA, Chang Al, Han Y, Lesniak MS. *Heme oxygenase-1 preferentially protects regulatory T-cells from hypoxia-induced cellular damage mediated by reactive oxygen species*. Charles B Huggins 20<sup>th</sup> Annual Research Symposium at the University of Chicago Feb 20<sup>th</sup> 2013
4. **Dey M**, Stadnik A, Zhang L, McBee N, Kase C, Carhupoma R, Ram M, Lane K, Hanley D, Ziai W, Awad IA. *Bleeding and Infection Risk With External Ventricular Drainage and Thrombolysis for Intraventricular Hemorrhage*. International Stroke Conference, San Diego, 2014.
5. **Dey M**, Wainwright DA, Chang Al, Han Y, Lesniak MS. *The Role of Plasmacytoid Dendritic Cells in Malignant Glioma Progression*. Annual meeting of the Society of Neuro-Oncology 2013.



6. Wainwright DA, Chang AL, **Dey M**, Balyasnikova I, Cheng Y, Han Y and Lesniak MS. *Th17 cells cooperate with IDO inhibition to promote tumor rejection and increase survival in a mouse model of glioblastoma*. Annual meeting of the Society of Neuro-Oncology 2013.
7. Chang AL, Wainwright DA, **Dey M**, Han Y and Lesniak MS. *CCR4+ regulatory T cells accumulate within the brain tumor in an experimental model of GBM*. Annual meeting of the Society of Neuro-Oncology 2013.
8. Wainwright DA, **Dey M**, Chang AL, Cheng Y, Han Y and Lesniak MS. *Simultaneous immunotherapy targeting IDO, CTLA-4 and PD-1 increases overall survival in an orthotopic brain tumor model*. Annual meeting of the Society of Neuro-Oncology 2013.
9. **Dey M**, Chang AL, Wainwright DA, Ahmed AU, Han Y and Lesniak MS. *Comparative evaluation of pDCs and mDCs for dendritic cell based vaccine strategy for malignant glioma*. Annual meeting of the Society of Neuro-Oncology 2014.
10. Auffinger B, Tobias A, Han Y, Lee G, Guo D, **Dey M**, Lesniak ML and Ahmed AU. *Conversion of differentiated cancer cells into cancer stem like cells in a glioblastoma model after primary chemotherapy*. Annual meeting of the Society of Neuro-Oncology 2014.
11. Qiao J, **Dey M**, Chang AL, Woongki K, Han Y, Zhang LJ and Lesniak MS. *Oncolytic adenovirus-mediated immune response in syngeneic murine glioma model*. Annual meeting of the Society of Neuro-Oncology 2014.
12. Balyasnikova I, **Dey M**, Tobias A, Kanojia D, Lee G, Han Y, Zhang LJ, Ahmed AU, Aboody K and Lesniak MS. *Intranasal Delivery of neural stem cells loaded with oncolytic adenovirus extends survival of mice with intracranial glioma*. Annual meeting of the Society of Neuro-Oncology 2014.
13. Chang AL, Miska J, Wainwright DA, **Dey M**, Qiao J, Pytel P, Han Y, Zhang L, Balyasnikova IV, Ahmed AU, Lesniak MS. *Glioma microenvironment-derived CCL2 recruits regulatory T cells and myeloid-derived suppressor cells*. Journal for ImmunoTherapy of Cancer. 2015.
14. Miska J, Chang AL, Rashidi A, **Dey M**, Han Y, Zhang L, Balyasnikova IV, Ahmed AU, Lesniak MS. *The use of anti-GITR antibody treatment in a murine model of glioblastoma multiforme*. Journal for ImmunoTherapy of Cancer. 2015.
15. Hasan T, Atashi F, Kim J, Lee G, Guo D, Park CH, Wu M, **Dey M**, Lesniak MS, Horbinski CM, James CD and Ahmed AU. *Role of Interleukin-8/CXCR2*

*regulated epigenetic plasticity in GBM recurrence.* Annual meeting of the Society of Neuro-Oncology 2016.

16. Henriquez M, Bhowmik T, Tewari BN, Filley AC, Wan J, Liu Y, Bentley RT and **Dey M.** *Immunological and gene expression profile of spontaneous canine glioma.* IU Simon Cancer Center Cancer Research Day May 2017.
17. Tewari BN, Bhowmik T, Henriquez M and **Dey M.** *CXCL-12 expression by tumor stroma is responsible for recruitment of plasmacytoid dendritic cells in malignant glioma.* IU Simon Cancer Center Cancer Research Day May 2017.
18. Pencek J, Petranek S, **Dey M.** *Bridging the gap: Using video art to document the human face of disease and predict quality of life assessment in brain tumor patients.* Dogs: Faithful and True Exhibit at Eiteljorg Museum June 2017.
19. Pencek J, Petranek S, **Dey M.** *Using facial expression as a surrogate indicator for quality of life in brain tumor patients.* Annual meeting of the Society of Neuro-Oncology 2017.
20. Fetcko KM, Henriquez M, Chintala S, Ahmed AU and **Dey M.** *CD8+CD28-cells contribute to the immunosuppressive tumor microenvironment of malignant glioma.* AANS Annual Meeting 2018.
21. Monaco GN, Henriquez M, Chintala S, and **Dey M.** *Role of PD-L1 expression in melanoma brain metastasis.* AANS Annual Meeting 2018.
22. Chintala S, Fetcko K, Tewari BN, Henriquez M, Bentley RT, Ahmed AU and **Dey M.** *Common molecular alterations in canine and human malignant gliomas: potential novel therapeutic targets.* IU Simon Cancer Center Cancer research Day, May 2018
23. Chintala S, Tewari BN, Henriquez M, Fetcko K, Filley A and **Dey M.** *Transcriptional regulation of MHC class II in tumor associated plasmacytoid dendritic cells in glioblastoma.* AACR, April 2018
24. Song L, Henriquez M, Chintala S, and **Dey M.** *Senescent T cell Population in Glioblastoma.* IMPRS Poster Session, Indiana University School of Medicine July 2018
25. Newman S, Henriquez M, Chintala S, and **Dey M.** *Role of CCL21 on the transcriptional Regulation of MHC-II in malignant glioma-infiltrating plasmacytoid dendritic cells.* IMPRS Poster Session, Indiana University School of Medicine July 2018
26. Hinshaw R, Henriquez M, Chintala S, and **Dey M.** *The role of RUNX in pDC migration: Determining where the downregulation of RUNX2 occurs in*

*plasmacytoid dendritic cells*. Indianapolis SEED Poster Session, Indiana University School of Medicine July 2018

27. O'Neal WG, Wang R, Maloney B, Henriquez M, **Dey M** and Lahiri DK. *Are signaling pathways inversely regulated in alzheimer's disease and glioblastoma multiforme?* IMPRS Poster Session, Indiana University School of Medicine July 2018.
28. Kunbica PA, Henriquez MA, Das R, Galipeau J and **Dey M**. *GIFT-7 Fusion Cytokine Promotes T-Cell Activation in an in Vitro Murine Model of Glioma*. Neurosurgery Research Day Poster, UWSMPH, University of Wisconsin Madison, October 2020.
29. Henriquez MA, Huff WX, Kwon JH, Fetcko K and Mahua **Dey**. *Aging and Tumor Related Immune Senescence Imposes a Strong Barrier to Success of Immunotherapy in Glioblastoma*. Neurosurgery Research Day Poster, UWSMPH, University of Wisconsin Madison, October 2020.
30. Shireman JM, Huff WX, Monaco G, Agrawal N, Watson G and **Dey M**. *Effect of Pre-Operative Stereotactic Radiosurgery on Brain Metastasis: Analysis of DNA and RNA Genomic Profiles from Phase-II Clinical Trial NCT03398694*. Society for Neuro Oncology Basic and Translational Omics of Brain Tumors and Their Microenvironment, Virtual Presentation July 15-16 2021.
31. Shireman JM, Henriquez M, Huff WX, Monaco G, Agrawal N, Watson G and **Dey M**. *Effect of Pre-Operative Stereotactic Radiosurgery on Non-Small Cell Lung Cancer Brain Metastasis: Initial Radiobiologic Analysis of DNA and RNA Genomic Profiles from Phase-II Clinical Trial NCT03398694*. Neurosurgery Research Day Oral Presentation, UWSMPH University of Wisconsin-Madison October 8<sup>th</sup> 2021.
32. Wang X, Shireman JM, Bam M, Das R, Galipeau J and **Dey M**. *Systemic GIFT7 treatment augments age related thymic decline and improves survival in a tumor vaccination model of GBM*. Neurosurgery Research Day Poster, UWSMPH University of Wisconsin Madison October 2021.
33. Shireman JM, Wang X, Das R, Galipeau J and **Dey M**. *Systemic GIFT7 treatment augments age related thymic decline and improves survival in a tumor vaccination model of GBM*. Cancer: Aging in the Drivers Seat Keystone Symposium, Virtual Presentation March 27-30, 2022.
34. Damodharan SN and **Dey M**. *Highly Multiplexed Digital Spatial Profiling of the Tumor Environment of Pediatric and Adult Diffuse Midline Glioma, H3 K27-altered*. International Society for Pediatric Neuro Oncology Annual Meeting Poster Session, Hamburg, Germany June 2022.

35. Her S, Shireman JM and **Dey M.** *Increased Dendritic Cell Inflammasome Formation Following Stimulation with Fusokine Gift7.* Carbone Cancer Trainee Summer Student Oral Presentation, University of Wisconsin-Madison Aug 2022.
36. Graves M, Damodharan SN and **Dey M.** *Highly Multiplexed Digital Spatial Profiling of Pediatric and Adult Diffuse Midline Glioma, H3 K27-altered.* University of Wisconsin Medical Scientist Training Program Summer Scholars Student Oral Presentation, University of Wisconsin-Madison Aug 2022.
37. Shireman JM, Ammanuel S, Eickhoff J and **Dey M.** *Sexual Dimorphism of the Human Immune System Predicts Clinical Outcomes in Glioblastoma Immunotherapy: A Systematic Review and Meta-analysis.* Neuroscience Training Program Reconnectome Oral Presentation, University of Wisconsin-Madison September 2022.
38. Damodharan SN and **Dey M.** *Highly Multiplexed Digital Spatial Profiling of the Tumor Environment of Pediatric and Adult Diffuse Midline Glioma, H3 K27-altered.* CNS Annual Meeting Poster Session, San Francisco CA, October 2022.
39. Shireman JM, Wang X, Das R, Galipeau J and **Dey M.** *Gift7 Peripheral Vaccination Augments Age Related Thymic Decline and Improves Survival in a Tumor Vaccination Model of GBM.* Society for Neuro Oncology Annual Meeting, Tampa Bay Convention Center November 2022.
40. Shireman JM, Huff WX, Monaco G, Agrawal N, Watson G and **Dey M.** *Effect of Pre-Operative Stereotactic Radiosurgery on Brain Metastasis: Analysis of DNA and RNA Genomic Profiles from Phase-II Clinical Trial NCT03398694.* Society for Neuro Oncology Annual Meeting, Tampa Bay Convention Center November 2022.
41. Shireman JM, Ammanuel S, Eickhoff J and **Dey M.** *Sexual Dimorphism of the Human Immune System Predicts Clinical Outcomes in Glioblastoma Immunotherapy: A Systematic Review and Meta-analysis.* Society for Neuro Oncology Annual Meeting, Tampa Bay Convention Center November 2022.
42. Damodharan SN and **Dey M.** *Highly Multiplexed Digital Spatial Profiling of the Tumor Environment of Pediatric and Adult Diffuse Midline Glioma, H3 K27-altered.* Society for Neuro Oncology Annual Meeting, Tampa Bay Convention Center November 2022.
43. Brackman KN, Shireman JM, Pattnaik A, Hubacek A, Ammanuel S and **Dey M.** *Quantifying a potential Barrier to Academic Output and its implications in Academic Neurosurgery.* 21<sup>st</sup> Annual Medical Student Research Forum , UWSMPH. University of Wisconsin Madison, November 2022.

44. Renteria I, Papale LA, Shireman J, **Dey M** and Alisch R. *Liquid Biopsy for Early Detection of Glioblastoma*. Department of Neurosurgery Annual Research Day, UWSMPH. University of Wisconsin Madison, November 2023.
- 45.

## **FACULTY AT SCIENTIFIC COURSES**

1. Faculty Teacher at Neurosurgery SNS Junior Resident Course, Indianapolis IN April 11-12, 2018.
2. Faculty Teacher at Neurosurgery SNS Junior Resident Course, Indianapolis IN April 24-25, 2019.
3. Faculty Preceptor for Surgical and procedural Care Block Continuity Clinic, UWSMPH Spring 2020 – On-going.
4. Faculty Volunteer at Unanticipated Outcomes Educational Exercise, UWSMPH, February 27<sup>th</sup>, 2020
5. Faculty Teacher Brain Tumor Immunology and Immunotherapy, UWSMPH Basic Science Selective – Tumor Immunology and Cancer Immunotherapy, UWSMPH March 3, 2020.
6. Teaching Faculty for NSG 699 Undergraduate Lab Elective Course, Spring 2020, Fall 2020. Spring 2021, Fall 2021, Spring 2022. On going.
7. SPC Neurosurgery Case Discussion for Medical Students. Starting Spring Semester UWSMPH April 17<sup>th</sup>, 2020: Ongoing.
8. Faculty Teacher Brain Tumor Immunology and Immunotherapy, UWSMPH Basic Science Selective – Tumor Immunology and Cancer Immunotherapy, UWSMPH Sept 29<sup>th</sup>, 2020.
9. Course Director for UW Inaugural Multidisciplinary CNS Metastasis Symposium, Oct 17<sup>th</sup> 2020.
10. Faculty Teacher Brain Tumor Immunology and Immunotherapy, UWSMPH Basic Science Selective – Tumor Immunology and Cancer Immunotherapy, UWSMPH March 2<sup>nd</sup>, 2021.
11. Course Co-Director for Wisconsin Primary CNS malignancy Symposium, March 20<sup>th</sup> 2021.

12. Faculty Teacher Brain Tumor Immunology and Immunotherapy, UWSMPH Basic Science Selective – Tumor Immunology and Cancer Immunotherapy, UWSMPH September 28th, 2021.
13. Course Co-Director for 2<sup>nd</sup> Annual UW-Madison/MCW Multidisciplinary CNS Metastasis Symposium, Oct 9<sup>th</sup> 2021.
14. Faculty Teacher Brain Tumor Immunology and Immunotherapy, UWSMPH Basic Science Selective – Tumor Immunology and Cancer Immunotherapy, UWSMPH March 1<sup>st</sup>, 2022.
15. Course Co-Director for 2<sup>nd</sup> Annual UW-Madison/MCW Primary CNS Malignancy Symposium, April 23<sup>rd</sup> 2022.
16. NTP 900 Seminar/Subgroup Fall 2021 subgroup 303, Developing Immunotherapy for Brain Tumors From Bedside to Bench and Back Again: The full cycle of Clinical Translational Research – Fall 2021
17. Fall 2022 Clinical Skills Co-Teaching Faculty, UWSMPH Fall 2022.
18. Faculty Moderator for Sunrise Session and Late Breaking Abstract Session- Tumor section, CNS Annual Meeting San Francisco October 11<sup>th</sup> 2022.
19. Zoo 500 Neurobiology Seminar: Implication of Neurobiology in Operating room and beyond, April 27<sup>th</sup> 2022; Nov 9<sup>th</sup> 2022.
20. Faculty Moderator for Abstract Session: Basic Science III, SNO Annual Meeting Tampa FL Nov 19<sup>th</sup> 2022.
21. Course Co-Director for 3<sup>rd</sup> Annual UW-Madison/MCW Multidisciplinary CNS Metastasis Symposium, Nov 12<sup>th</sup> 2022.
22. Faculty Tumor Section Abstract Reviewer, AANS Annual Meeting Los Angeles, CA April 21-24th 2023.
23. UW-Madison /Bolivia Neurosurgery Resident Education Dyad: High Grade Glioma Jan 19<sup>th</sup> 2023.
24. Faculty Teacher Brain Tumor Immunology and Immunotherapy, UWSMPH Basic Science Selective – Tumor Immunology and Cancer Immunotherapy, UWSMPH Feb 28<sup>th</sup>, 2023.
25. Course Co-Director for 3<sup>rd</sup> Annual UW-Madison/MCW Primary CNS Malignancy Symposium, April 14th 2023.

26. Invited Faculty, Now what? Management of Intracranial Complications. CNS Annual Meeting Washington DC Sept 9<sup>th</sup> 2023.
27. Course Co-Director for 4<sup>rd</sup> Annual UW-Madison/MCW Multidisciplinary CNS Metastasis Symposium, Nov 3<sup>th</sup> 2023.
28. Course Co-Director for 4<sup>rd</sup> Annual UW-Madison/MCW Primary CNS Malignancy Symposium, May 10<sup>th</sup> 2024.
29. Invited Faculty, Brain Tumor Case Discussion. UW Madison Bolivia Lecture Series Sept 6<sup>th</sup> 2024.
30. Invited Faculty Judge for CNS Annual Meeting Poster Session (Tumors) Monday 4:30 – 6PM Sept 30<sup>th</sup> 2024, Houston TX.
31. Course Co-Director for 5<sup>rd</sup> Annual UW-Madison/MCW Multidisciplinary CNS Metastasis Symposium, Nov 8<sup>th</sup> 2024.
32. UW-Madison /Bolivia Neurosurgery Resident Education Dyad: Management of Brain Metastasis Nov 21<sup>th</sup> 2024
33. Faculty Tumor Section Abstract Reviewer, AANS Annual Meeting Boston, MA April 25-28<sup>th</sup> 2025.
34. Course Co-Director for 5<sup>rd</sup> Annual WI Primary CNS Malignancy Symposium: Pediatric CNS Malignancies Apr 11<sup>th</sup> 2025.
35. Faculty Teacher Brain Tumor Immunology and Immunotherapy, UWSMPH Basic Science Selective – Tumor Immunology and Cancer Immunotherapy, UWSMPH March 13<sup>th</sup>, 2025.
- 36.

## **VISITING PROFESSORSHIPS**

1. Dendritic Cell based Immunotherapy for malignant Glioma. Visiting Professor, Invited Speaker, Department of Neurosurgery Grand Round, Brown University, Providence, RI. October 3, 2016.

## **INVITED LECTURES/PRESENTATIONS**

### **Local**

1. Dendritic Cell based Immunotherapy for malignant glioma. ,Pediatric Grand Rounds, Indiana University Health, Bloomington Campus. Sept 2, 2015.
2. Immunotherapy for Malignant Glioma. Neuroscience Grand Round Speaker, IUSM April 6, 2016.
3. DC based immunotherapy for malignant glioma. Brain Tumor Working Group, IU, May 25, 2016.
4. DC based immunotherapy for malignant glioma. Brain Tumor Working Group Summer Group Retreat, IU, July 14, 2016
5. DC based Immunotherapy for malignant glioma. Immunology Conference, Department of Immunology and Microbiology IU, September 8, 2016.
6. Life of an academic neurosurgeon involved in basic science research, Medical Student Neurosurgery Interest Group, Indiana University, Feb 23, 2017.
7. Immunotherapy for Brain Cancer Invited Speaker, Molecular Medicine in Action (MMIA), IU, March 12, 2017
8. Update on glioma management Neuroscience Grand Round Speaker, IU, April 5, 2017.
9. Radiation and Neuro-oncology, Department of Radiation Oncology, IU May 23, 2017.
10. Supplementary Motor Area Syndrome, Advanced Practitioner CME Conference, GCBS IU September 7, 2018.
11. Immunotherapy for Glioblastoma, Department of Neurological Surgery Research Day, UWSMPH October 18, 2019.
12. Immunotherapy for Malignant Brain Tumor, UW Carbone Cancer Center Grand Round, UWSMPH February 12, 2020.
13. Brain Tumor/Tumor Microenvironment Program Update, UW Carbone Cancer Center Annual Research Retreat, UWSMPH March 4, 2020.
14. Comprehensive Surgical Management of Brain Tumor: Case Based Discussion, Mercy Health System Morning Grand Rounds, Rockford IL, March 6, 2020.
15. Importance of Brain Tumor Research for our community. UW Carbone's Emerging Leadership Board Meeting, March 10<sup>th</sup>, 2020.



16. Evidence based Clinical Management of High Grade Glioma. UW Neurosurgery Professors Round (Webex Meeting), UWSMPH April 1<sup>st</sup>, 2020.
17. Neurosurgery Oral Board Preparation. UW Neurosurgery Professors Round (Webex Meeting), UWSMPH April 30<sup>st</sup>, 2020.
18. Invited Speaker at AMSA Neurosurgery Student Interest Group. Oct 7<sup>th</sup>, 2020
19. Invited Speaker “It is Brain Surgery!” Wisconsin Science Festival Oct 15<sup>th</sup>, 2020.
20. Minimally Invasive Surgical Options for Treatment of Brain Metastasis. UW Inaugural Multidisciplinary CNS Metastasis Symposium, Oct 17<sup>th</sup> 2020.
21. Aging and Tumor Mediated CD8+ T-cell Senescence Might Impose a Strong Barrier to Success of Immunotherapy in Glioblastoma Department of Neurological Surgery Research Day, UWSMPH October 23, 2020.
22. Invited Speaker at AED Spring Meeting, Pre-med Student Interest Group. March 30<sup>th</sup>, 2020
23. Neurosurgery Oral Board Preparation. UW Neurosurgery Oral Board Case Review, UWSMPH April 5<sup>th</sup>, 2021.
24. Overcoming Barriers to Immunotherapy in Glioblastoma. Invited Speaker, Glia Club Seminar, UW Madison, April 21, 2021.
25. Women in STEM. WISE Faculty Dinner, UW Madison Nov 16<sup>th</sup> 2021.
26. UW Health Conversations on Care for Brain and Spine Metastasis, UW Madison March 23, 2022.
27. UW Health Brain and Spine Metastasis Clinic, UW Regional Adult Advisory Council Meeting May 04, 2022.
28. UW Health Brain and Spine Metastasis Clinic, SA Medical Oncology Grand Rounds May 13, 2022.
29. Future of Neuro-Oncology: Integration of Operating Room and Laboratory UW Department of Neurological Surgery Grand Round, UWSMPH June 20<sup>th</sup>, 2022.
30. UW Health Brain and Spine Metastasis Clinic, UW Health Northern IL Provider Meeting, July 12, 2022.
31. Invited by Dean Golden to represent UWSMPH at the University Faculty Luncheon with Chancellor on her 1<sup>st</sup> day at work. Aug 4<sup>th</sup>, 2022.

32. Malignant Brain Tumors-Surgical Management: Advances in Translational Research and Trials, Marshfield Clinic MCHS System-Wide Grand Round, Sept 9th, 2022.
33. Future of Neuro-Oncology: Integration of Operating Room and Laboratory Gunderson Grand Round, Sept 13th, 2022.
34. Women in STEM. WISE Faculty Dinner, UW Madison Dec 6<sup>th</sup> 2022.
35. GM-CSF and IL-7 Fusion Cytokine Engineered Tumor Vaccine Generates, Long-term TH-17 Memory Cells and Increase Overall Survival in Aged Syngeneic Mouse Models of Glioblastoma. WARF Therapeutics Proposal Presentation at WARF Therapeutics Annual Meeting, UW Madison May 23<sup>rd</sup> 2023.
36. Gene Modified Personalized Vaccine for Glioblastoma. Department of Neurosurgery Grand Rounds, UWSMPH, UW Madison Sept 4<sup>th</sup>, 2024.
- 37.

## **National**

1. Dendritic Cell based Immunotherapy for malignant Glioma. Indiana University School of Medicine Neuroscience Grand Round, Indianapolis IN Feb 2015.
2. Dendritic Cell based Immunotherapy for malignant Glioma. University of Birmingham Alabama, School of Medicine Cancer Center Grand Round, Birmingham AL, April 2015.
3. Awake Craniotomy for Brain Tumor Resection. University of Birmingham Alabama, School of Medicine Neurosurgery Grand Round, Birmingham AL, April 2015.
4. Immunotherapy for Malignant Glioma. Winter Clinics in Neurosurgery, Snowmass Colorado. Feb 23, 2016.
5. Update on NRCDP K-12 grant, NRCDP-K12 – Annual Meeting, Boston MA, November 5, 2016.
6. Immunotherapy for Malignant Glioma. Invited Speaker, Department of Neurosurgery Research Lunch and Presentation, University of Wisconsin, Madison, WI. January 11, 2019.
7. Tumor Mediated Epigenetic Modification of T-cells in Glioblastoma. Invited Speaker, Department of Neurosurgery Grand Rounds, Northwestern University, Chicago, IL. February 22, 2019.

8. Immunotherapy for Malignant Glioma. Invited Speaker, Department of Neurosurgery Grand Rounds, University of Michigan, Ann Arbor, MI. March 14, 2019.
9. Genome Wide DNA Methylation Landscape Reveals Glioblastoma Mediated Epigenetic Modification in Tumor Infiltrating CD4+ T-cells, CNS Annual Meeting San Francisco, October 22, 2019.
10. *Basics of Brain Tumor Research from Clinician's Perspective*. Basic Principles of Brain Tumor Research, Northwestern University, April 24<sup>th</sup> 2020.
11. *Immunotherapy for Glioma*. Invited Panelist for University of Miami Global Brain Tumor Symposium, May 27<sup>th</sup> 2020.
12. *Overcoming Barriers to Immunotherapy in Glioblastoma*. Invited Keynote Speaker, Department of Neurosurgery and Neurology Grand Rounds, Mayo Clinic Jacksonville, FL. Jan 11, 2021.
13. *Role of Plasmacytoid dendritic Cells in Malignant Glioma*. Invited Faculty for CNS Update K-12 Webinar, K-12 Series, September 14, 2021.
14. Glioma Controversies: Patient-Focused Case-based discussion. Invited Faculty at ASTRO Educational Session. Chicago IL. Oct 27<sup>th</sup> 2021.
15. The Effect of Pet Therapy and Artist Interactions on Quality of Life in Brain Tumor Patients: A Cross-section of Art and Medicine in Dialog. Invited Faculty at NSA Annual Meeting. Maui HI. June 13<sup>th</sup> 2022.
16. Behind the Scenes of a Brain Tumor Board. Invited Faculty at ABTA National Conference. Sept 10<sup>th</sup> 2022.
17. Effect of pre-operative Stereotactic Radiosurgery on Brain Metastasis: Analysis of DNA and RNA Genomic Profiles from Phase-II Clinical Trial NCT03398694. Invited Faculty at University of Cincinnati BTC Neuro Onc Clinical Research Retreat. Cincinnati OH. Sept 30<sup>th</sup> 2022.
18. Vaccines, Checkpoints and Electrical Fields: Immunotherapy and Glioblastoma. Invited Faculty at American Society of Clinical Oncology (ASCO) Annual Meeting, Chicago June 3<sup>rd</sup> 2023.
19. Biological Effect of Pre-Operative Stereotactic Radiosurgery on Brain Metastasis: Analysis of Genomic Data from Phase II Clinical Trial NCT03398694. Invited Faculty at NSA Annual Meeting. Cape Cod MA. June 19<sup>th</sup> 2023.

20. Analysis of DNA and RNA Genomic Profiles from Phase II Clinical Trial NCT03398694 Showed Distinct Transcriptomic Profile for Patients with Local Failure. AANS/CNS Tumor Section Meeting. Washington DC Sept 9<sup>th</sup> 2023.
21. How to Establish a Translational Research Effort as an Early Career Neurosurgeon. AANS/CNS Tumor Section Meeting. Washington DC Sept 9<sup>th</sup> 2023.
22. Immunotherapy: What's on The Horizon. AANS/CNS Tumor Section Meeting. Houston TX Sept 29<sup>th</sup> 2024.
- 23.

## **International**

1. Immunotherapy for Malignant Glioma. Invited international speaker at Sociedad Peruana De Neurocirugia, July 7, 2020
2. Intraoperative Mass Spectroscopy for Glioma. Invited distinguished faculty at INC, Neurological Institute Curitiba, Brazil Glioma 2021 symposium Nov 27<sup>th</sup>, 2021
3. Immunotherapy for Malignant Glioma. Invited Keynote speaker at 1<sup>st</sup> World Congress of Introduction to Neurosurgery, Mission: Brain Chapter UNAM, Mexico, June 25<sup>th</sup>, 2022.
4. Targeted radionuclide Therapy (TRT) for Breast Cancer Breast Metastasis. NSA Annual Meeting. Lisbon Portugal June 26<sup>th</sup> 2024.
- 5.

## **MENTORING**

1. Primary mentor for graduate student Jack Shireman, NTP program, University of Wisconsin Madison.
2. Member of PhD mentoring committee for graduate student Ben Evans, NTP/Cell and Department of Cell and Regenerative Medicine, SMPH University of Wisconsin Madison.
3. Faculty Mentor for MSTP Summer Medical Scholar Program, SMPH University of Wisconsin Madison. Summer 2022 Student Miranda Graves
4. Faculty Mentor for UWCCC Summer High School Cancer Research Internship Program, SMPH University of Wisconsin Madison. Summer 2022 Student Skyler Her.

5. Faculty Mentor for UWSMPH Shapiro Program, SMPH University of Wisconsin Madison. Summer 2022 Student Krista Brackman

Individual	Role	Inclusive Dates
<i>Faculty (mentoring committee)</i>		
• Laura Stone McGuire 03/2025	Assistant professor Neurosurgery (CHS)	
• Austin Stuckert 03/2025	Assistant professor Pediatrics Heme Onc (CHS)	
<i>Post doctoral Fellows</i>		
• Behzad Shariati 05/2016-08/2016	IUSM Post-doc fellow in the lab	
• Tanmoy Bhowmik 01/2016-04/2017	IUSM Post-doc fellow in the lab	
• Brij Nath Tewari 02/2017-11/2017	IUSM Post-doc fellow in the lab	
• Sreenivasulu Chintala 08/2017-12/2018	IUSM Research Associate	
• Gina Monaco 08/2017-07/2019	IUSM Neurosurgery Resident Lab rotation	
• Wei Xia Huff 07/2018-07/2019	IUSM Neurosurgery Resident Lab rotation	
• Sudarshawn Damodharan 07/2020-2024	UW Pediatric Neuro-Oncology Fellow	
• Marpe Bam 07/2021	UW Research Associate	05/2020-
• Montse Lara-Velasquez 10/2020-02/2021	UW Post-doc fellow in the lab	
• Lei Zhao	UW Research Associate	11/2021-present
<i>Medical Students</i>		
• Kaleigh Fetcko 05/2018	IUSM Research Rotation	04/2016-
• Anna Filley 05/2018	IUSM Research Rotation	11/2016-
<i>(Recipient of 2017 Wright Scholarship for Cancer Research, 2017)</i>		
• Dana Mitchell 07/2019	IUSM Research Rotation	04/2017-
<i>(Recipient of 2019 Wright Scholarship for Cancer Research, 2019)</i>		
• Nehal Ninad 08/2017	IUSM, IMPRS Research Mentee	06/2017-

- Teresa Easwaran IUSM Research Rotation 04/2017-07/2019
- Adam Leibold IUSM Research Rotation 08/2017-07/2019  
(Recipient of 2018 Wright Scholarship for Cancer Research, 2018)
- Jea Hyun Kwon Research Rotation 07/2018-07/2019
- Leo Song IUSM, IMPRS Research Mentee 05/2018-07/2019
- Sharle Newman IUSM, IMPRS Research Mentee 05/2018-07/2019
- Mariana Hoyos IUSM Research Rotation 08/2018-07/2019
- William G O'Neal IUSM Clinical Mentor 08/2018-07/2019
- Phillip Kubica UW Research Rotation 12/2018-12/2019  
(Recipient of 2019 NREF Medical Student Summer Research Fellowship)
- Krista Nichole Brackman UW Shapiro 05/2022  
(Recipient of Deans Award, 2022)

#### *Undergraduate Students*

- Seema Siraj UW Research Mentor Introductory Bio 152  
Spring 2020, Fall 2020, Spring 2021, Fall 2021, Spring 2022
- Brook Williamsen UW Research Mentor Introductory Bio 152  
Fall 2020, Spring 2021, Fall 2021
- Nikita Gonugunta UW Research Mentor Introductory Bio 152  
Spring 2021, Fall 2021
- Bailey Rigg UW Research Mentor Introductory Bio 152  
Spring 2022, Fall 2022, Spring 2023
- Alex Abbott UW Research Mentor Introductory Bio 152  
Spring 2022
- Samantha Probelsky UW Research Mentor Introductory Bio 152  
Fall 2022
- Miranda Graves MSTP Summer Research Scholar Summer 2022
- Akshita Pattnaik UW Research Mentor Introductory Bio 152  
Fall 2022, Spring 2023
- Liam McCarthy UW Research Mentor Introductory Bio 152  
Fall 2022
- Emily Distler UW Research Mentor Introductory Bio 152  
Fall 2022
- Marli Knox MSTP Summer Research Scholar Summer 2024
- Mona Iskandar UW Research Mentor Introductory Bio 152  
Fall 2024, Spring 2025
- Cheyenne Schepp UW Research Mentor Introductory Bio 152  
Summer 2024, Fall 2024, Spring 2025

- Taylor Crankovich UW Research Mentor Introductory Bio 152  
Summer 2024, Fall 2024, Spring 2025
- Farheen Chowdhury UW Research Mentor Introductory Bio 152  
Fall 2024, Spring 2025
- Neel Mukherjee UW Research Mentor Introductory Bio 152  
Fall 2023, Spring 2024, Fall 2024, Spring 2025
- Yilong Tao Score Undergraduate Program Summer 2024 (continuing)

#### *Graduate Student*

- Qiang Chen IUSM IBMG Graduate Student 06/2018-07/2019
- Jack Shireman UW Graduate Student 12/2020-present
- Dan Pham UW Graduate Student 03/2021-05/2024
- Ben Evans UW Graduate Student 02/2022-present
- Maya Takashima UW Graduate Student 02/2022-present
- Caelan Wright UW Graduate Student 12/2023-11/2024
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#### *High School Student*

- Rachael Hinshaw Indianapolis SEED Project/FSP Program 06/2018-07/2019
- Sanil Partha Research Mentor 11/2019-2023
- Skyler Her UWCCC ARISE 05/2022
- Neel Mukherjee UWCCC ARISE 05/2023
- Heera Karwal UWCCC ARISE 05/2024

### **MEDIA AND NEWS COVERAGE**

1. Expert comment on CBS “60 Minutes” segment on a new breakthrough clinical trial studying the use of the Poliovirus against the deadly brain cancer on Local CBS news WTTV-TV Video Indianapolis, May 16, 2016.  
<http://app.criticalmention.com/app/#clip/view/22707927?token>
2. Dey Receives Prestigious Research Award, June 28, 2016  
<https://www.goodmancampbell.com/in-the-news/dey-receives-prestigious-research-award>
3. Invited expert comment on Cellphones and Cancer: Is the Risk Real? on Local NBC news WTHR-TV Indianapolis, November 14, 2016.  
<https://www.wthr.com/article/13-investigates-cellphones-and-cancer-is-the-risk-real>
4. IU Health Adopts Pet Therapy, September 6, 2016.

<https://www.indystar.com/story/life/2016/09/06/lending-paw-help-health-care-providers/88402066/>

5. IU Health Study uses pet therapy to help brain tumor patients, December 20, 2016  
<https://www.yahoo.com/news/iu-health-study-uses-pet-041549888.html>  
<https://www.theindychannel.com/news/local-news/iu-health-study-uses-pet-therapy-to-help-brain-tumor-patients>
6. Therapy dogs calming influence for cancer patients. December 25, 2016  
[http://www.dailyjournal.net/2016/12/26/calming\\_influence/](http://www.dailyjournal.net/2016/12/26/calming_influence/)
7. IU Health study pairs brain cancer patients with therapy dogs to measure quality of life. December 26 2016  
<https://www.beckershospitalreview.com/patient-engagement/iu-health-study-pairs-brain-cancer-patients-with-therapy-dogs-to-measure-quality-of-life.html>
8. Media Story on Bridging the Gap: Pet therapy to help brain tumor patients. WTHR April 2017  
<https://www.wthr.com/article/bridging-the-gap-a-doctor-and-her-dog>
9. Wearing White: How to prepare your immune system to fight cancer June 20, 2018  
<https://medium.com/lifeomic/wearing-white-how-to-prepare-your-immune-system-to-fight-cancer-8a83a422bd31?fbclid=IwAR25ltycLjycDbz7LMPkTp1MlcfX92lDIDY-2-zSQQl3WLlxigqsevOdtb0>
10. Bridging the Gap: Using Video Art to Document the Human Face of Disease & Predict Quality of Life Assessments in Brain Tumor Patients  
<https://www.braintumordiaries.org>