

CURRICULUM VITAE

EDUCATION

- High School: St. John's High School, Sector 26, Chandigarh
- 10+2: D.A.V. College, Sector – 10, Chandigarh
- Medical School: Government Medical College and Hospital, Sector 32, Chandigarh. University: Panjab University
- Post-doctoral Research Fellow: Mayo Clinic, Rochester, MN
- Pathology (AP/CP) Residency: SUNY Upstate Medical University, Syracuse, NY
- Diplomate of American Board of Pathology AP/CP
- Clinical Informatics-Data Science Pathway (UCSF Department of Informatics)
- Neuropathology Fellowship: University of California, San Francisco, CA

MEDICAL EDUCATION AND WORK EXPERIENCE

- Bachelor of Medicine; Bachelor of Surgery (MBBS): Government Medical College & Hospital, Panjab University. June 2005 to December 2009.
- Compulsory rotating internship in tertiary care setting; Government Medical College and Hospital, Chandigarh. January 2010 – September 2011.
- Carried out 3 months rotation in Obstetrics and Gynecology and assisted in various procedures including normal vaginal deliveries, Caesarean Section, episiotomies.
- Volunteered at a rural medicine rotation.

ADDITIONAL EDUCATION / WORK EXPERIENCE

- Clinical Clerkship in Ophthalmology for 4 weeks at Northwestern Memorial Hospital, Northwestern University, Chicago, USA.
- Clinical Clerkship in Ophthalmology for 4 weeks at the Department of Ophthalmology, Yale School of Medicine, Yale University, New Haven, Connecticut, USA.
- Clinical Clerkship in Ophthalmology for 4 weeks at Rhode Island Eye Institute, Brown School of Medicine, Brown University, Providence, Rhode Island, USA.
- Clinical Observership in Ophthalmic Oncology with Dr. Arun Singh for 8 weeks at the Cole Eye Institute, Cleveland Clinic, Cleveland, Ohio, USA.
- **Research Professional**, *Pharmacokinetics of anti-VEGF drugs*; Ophthalmology, **Mayo Clinic**, Rochester, Minnesota, USA. 17th March 2014 – 23rd June 2017.
- **Post-doctoral Research Fellow**, *Mechanisms of axon injury in optic neuritis*; Neuro-Ophthalmology (PI: Dr. Charles Howe; Translational Neuro-Immunology Lab. Collaborator: Dr. Sophie Bakri), **Mayo Clinic**, Rochester, Minnesota, USA. 13th October 2014 – 23rd June 2017.
- **Post-doctoral Fellowship Grant: Mayo Clinic Center for Multiple Sclerosis and Autoimmune Neurology**. *Mechanisms of immune-mediated axon injury in optic neuritis and multiple sclerosis*. October 2015 – 23rd June 2017.
- **Post-doctoral Fellowship**: National Multiple Sclerosis Society. *Novel stem cell-based strategies for developing individualized patient therapies in multiple sclerosis*. 3 year grant award. July 2016 – 23rd June 2017.
- **Residency**: AP/CP Pathology Residency. **SUNY Upstate Medical University**, Syracuse, NY. 1st July 2017 – 20th June 2021.
 - **Chief Resident** (Elected): 1st April 2019 – 30th March 2020.
- **AQA Gamma Chapter**, Elected member. SUNY Upstate Medical University, Syracuse, NY. 11th July 2019 – Present.
- **Fellowship**: Neuropathology. University of California, San Francisco. San Francisco, CA. 1st July 2021 – Present.
- **Faculty**, Clinical Instructor, University of California, San Francisco. San Francisco, CA. 8 Aug 2023 – Present.

RESEARCH PUBLICATIONS (Peer-Reviewed Journals)

1. **Mirchia K**, Turell E, Singh A. *Imaging Modalities for Uveal Melanoma*, **European Ophthalmic Review**. 2012; 6(1):56-63. http://www.touchophthalmology.com/articles/imaging-modalities- uveal-melanoma?page=0,7&dm_i=BTE,P5XW,5KQ5GU,213FG,0
2. Sharma A, Nottage JM, **Mirchia K**, Sharma R, Mohan K, Nirankari VS. *Persistent corneal edema after collagen cross-linking for keratoconus*. **American Journal of Ophthalmology**. 2012 Dec; 154(6):922-926. PMID: **22959362**. <http://www.ajo.com/article/S0002-9394%2812%2900436-9/abstract>
3. Bhat, P, **Mirchia K**, Basti S, Feder R, Pyatetsky D. *Necrotizing Scleritis—A Case Series and Review of Literature*. **Invest. Ophthalmol. Vis. Sci**. 2012; 53(6): 1253 <http://iovs.arvojournals.org/article.aspx?articleid=2350640>
4. Howe, CL; LaFrance-Corey, RG; **Mirchia, K**; Sauer, BM; McGovern RM; Reid JM; Buenz, EJ. *Neuroprotection mediated by inhibition of calpain during acute viral encephalitis*. **Scientific Reports** 6:28699, 2016 Jun. PMID: **27345730**. <http://www.ncbi.nlm.nih.gov/pubmed/27345730>
5. Howe CL, LaFrance-Corey RG, Goddery EN, Johnson RK, **Mirchia K**. *Neuronal CCL2 expression drives inflammatory monocyte infiltration into the brain during acute virus infection*. **J Neuroinflammation**. 2017 Dec 4;14(1):238. doi: 10.1186/s12974-017-1015-2. PMID: **29202854**. <https://www.ncbi.nlm.nih.gov/pubmed/29202854>
6. Chu A, Krishna A, Paul MP, Sexton JF, **Mirchia K**. *Obliterating Bronchiolitis: Result of Iron Pill Aspiration*. **Cureus**. 2018 May 2;10(5):e2571. doi: 10.7759/cureus.2571. PMID: **29974026**. <https://www.ncbi.nlm.nih.gov/pubmed/29974026>
7. **Mirchia K**, Fullmer J. *Where Is My Hemangioblastoma-Case Report: Gliosis Radiographically Mimicking A Paraspinous Neoplasm*. **Journal of Neuropathology and Experimental Neurology**. 2018 Jun. Vol. 77, No. 6, pp. 521-521.
8. **Mirchia K**, Naous R. *Malignant Myopericytoma Of the Vocal Cord – A Rare Lesion in A Rare Location: Case Report And Brief Review Of Literature*. **American Journal of Clinical Pathology**. 2018 Sep. Volume 150, Issue suppl_1, Pages S53. <https://doi.org/10.1093/ajcp/aqy090.131>
9. Poudel, P., Chu, A., **Mirchia, K.**, & Paul, M. *A Patient with a Chronic Cough: An Unexpected Case of Calcium Pill Aspiration*. **Journal of Investigative Medicine High Impact Case Reports**. 2019 Feb 6; <https://doi.org/10.1177/2324709619828771>
10. **Mirchia K**, Naous R. *Nasal Chondromesenchymal Hamartoma: Rare Case Report in an Elderly Patient and Brief Review of Literature*. **Case Rep Pathol**. 2018 Oct 14; 2018:5971786. doi: 10.1155/2018/5971786. eCollection 2018. PMID: **30405930**. <https://www.ncbi.nlm.nih.gov/pubmed/30405930>
11. **Mirchia K**, Sathe AA, Fudym Y, Galbraith K, Viapiano M, Walker JM, Snuderl M, Xing C, Hatanpaa KJ, Richardson TE. *Total Copy Number Variation as a Prognostic Factor in Adult Astrocytoma Subtypes*. **Acta Neuropathologica Communications**. 2019 Jun 10. PMID: **31177992**; <https://doi.org/10.1186/s40478-019-0746-y>
12. Richardson TE, Tang K, Vasudevaraja V, Comito MA, **Mirchia K**, Jour G, Snuderl M. *GOPC-ROS1 Fusion Due to Microdeletion at 6q22 is an Oncogenic Driver in a Subset of Pediatric Gliomas and Glioneuronal Tumors*. **Journal of Neuropathology & Experimental Neurology**. 2019 Sep 16. PMID: **31626289**; <https://doi.org/10.1093/jnen/nlz093>
13. **Mirchia K**, Snuderl M, Galbraith K, Hatanpaa KJ, Walker JM, Richardson TE. *Establishing a Prognostic Threshold for Total Copy Number Variation within Adult IDH-mutant grade II/III Astrocytomas*. **Acta Neuropathologica Communications**. 2019 Jul 22. PMID: **31349875**; <https://doi.org/10.1186/s40478-019-0778-3> (<https://rdcu.be/bLVI1>)
14. Tambe A, Ramadas P, Lee M, **Mirchia K**. *Localized Pulmonary Amyloidosis: A Single Institution Experience*. **Blood, The Journal of the American Society of Hematology**. 2019 Nov 13; <https://doi.org/10.1182/blood-2019-125124>

15. Galbraith K, Kumar A, Abdullah KG, Walker JM, Adams SH, Prior T, Dimentberg R, Henderson FC, **Mirchia K**, Sathe AA, Viapiano MS, Chin LS, Corona RJ, Hatanpaa KJ, Snuderl M, Xing C, Brem S, Richardson, TE. Molecular Correlates of Long Survival in IDH-Wildtype Glioblastoma Cohorts. **Journal of Neuropathology and Experimental Neurology**. Submitted: 2019 Apr 05. Accepted: 2020 May 29. Published: 2020 Jul 10. PMID: **32647886**; (<https://doi.org/10.1093/jnen/nlaa059>)
16. Kumar PA, Paulraj S, **Mirchia K**, Hahn SS, Abirami S. *Ductal Adenocarcinoma Ex Pleomorphic Adenoma of the Lacrimal Gland; A rare and morbid malignancy*. **Case Reports in Oncological Medicine**. Submitted: 2019 Nov 5. Accepted: 2020 Jan 27. Published: 2020 Feb 04. Article ID: 1790106; PMID: **32089922**; doi: 10.1155/2020/1790106 (<https://doi.org/10.1155/2020/1790106>)
17. Achufusi TG, Sharma A, Sapkota B, **Mirchia K**. *A Rare Case of Leukemoid Reaction in A Patient With Severe Alcoholic Hepatitis*. **Case Reports Cureus**. Accepted: 2020 Aug 03. Published: 2020 Aug 14. Abstract ID: 7154282. PMID: **32944462**; doi: 10.7759/cureus.9747 (<https://doi.org/10.7759/cureus.9747>)
18. Achufusi TG, Sandhu J, Chahal J, Shepherd Z, **Mirchia K**. *A Rare Case of Zieve Syndrome in Acute Alcoholic Hepatitis*. **Baylor University Medical Center Proceedings**. Submitted: 2020 Jan 22. Accepted: 2020 Feb 24. PMID: **32675955**; (<https://doi.org/10.1080/08998280.2020.1735238>)
19. Richardson TE, Williams M, Galbraith K, **Mirchia K**, Kumar A, Walker JM. *Total Copy Number Variation, Somatic Mutation Burden, and Histologic Grade Correlate with Clinical Outcome in Oligodendroglioma*. **Clinical Neuropathology**. Accepted: 2020 Jan 26. Published: 2020 Mar 8. Manuscript ID: 301260-2, PMID: 32145756; doi: 10.5414/NP301260 (<https://doi.org/10.5414/NP301260>)
20. Yin HY, Hadjockas N, **Mirchia K**, Swan R, Alpert S. *Commercial Cannabinoid Oil-Induced Stevens Johnson Syndrome*. **Case Reports in Ophthalmological Medicine**. Submitted: 2020 Jan 28. Accepted: 2020 Feb 10. Published: 2020 Feb 19. Abstract ID: 6760272. PMID: **32148986**; doi: 10.1155/2020/6760272 (<https://doi.org/10.1155/2020/6760272>)
21. Gitto L, Serinelli S, Galbraith K, Williams M, **Mirchia K**, Galgano M, Krishnamurthy S, de la Roza G, Viapiano M, Walker JM, Jour G, Serrano J, DeLorenzo M, Snuderl M, Richardson TE. *Anaplastic Transformation in Myxopapillary Ependymoma: A Report of Two Cases and Review of the Literature*. **Journal of Neuropathology and Experimental Neurology**. Manuscript ID: JNEN 20-104R1. Submitted: 2020 Apr 13. Accepted: 2020 Jun 29. Published: 2020 Aug 02 PMID: **32743660**; doi: 10.1093/jnen/nlaa077 (<https://doi.org/10.1093/jnen/nlaa077>)
22. Aung TT, Chu A, Kondapi D, Markabawi D, **Mirchia K**, Kaul P. *A Case of Pulmonary Epithelioid Hemangioendothelioma with Literature Review*. **Case Reports in Oncological Medicine**. Submitted: 2020 Mar 22. Accepted: 2020 Sep 16. Published: 2020 Oct 08. PMID: **33101745**; <https://doi.org/10.1155/2020/8048056> Abstract ID: 8048056 doi: 10.1155/2020/8048056 (<https://doi.org/10.1155/2020/8048056>)
23. Mukherjee S, Harne P, **Mirchia K**, Sharma A, Manocha D. *Necrobiotic Pulmonary Nodules: Not Just a "Crohnic" phenomenon*. **ACG Case Reports**. Submitted: 2020 Mar 26. Accepted: 2020 May 21. Manuscript ID:: ACGCR-20-0283R1. PMID: **32903944**; doi: 10.14309/crj.0000000000000438 (<https://doi.org/10.14309/crj.0000000000000438>)
24. Poudel P, Adams SH, **Mirchia K**, Jain H, Eranki A. *IgA Negative Immunofluorescence in Diagnoses of Adult Onset Henoch-Schönlein Purpura*. **Baylor University Medical Center Proceedings**. Submitted: 2020 Apr 4. Accepted: 2020 May 14. Published: 2020 Jun 01. Abstract ID: UBMC-2020-0085 PMID: **32675977**; doi: 10.1080/08998280.2020.1770526 (<https://doi.org/10.1080/08998280.2020.1770526>)
25. Bernshteyn M, Masood U, **Mirchia K**, Manocha D. *Amphetamine, Dextroamphetamine Mixed Salts-Associated Ischemic Colitis*. **American Journal of Therapeutics**. Submitted: 2020 Feb 29. Accepted: 2020 Jun 22. doi: 10.1097/MJT.0000000000001172 PMID: **32618593**; (<https://doi.org/10.1097/mjt.0000000000001172>) Manuscript ID: AJT-202019R1
26. Muhammad M, **Mirchia K**, Harne P. *Gastric Leiomyosarcoma: A common tumor in an uncommon location*. **International Journal of Case Reports and Images**. Submitted: 2020 Apr 27. Accepted: 2020 May 26. Published: 2020 Jun 24. Manuscript ID: Z01_2020040052_CI. doi: 10.5348/101136Z01MM2020CI. (<https://doi.org/10.5348/101136Z01MM2020CI>)

27. Gabr JB, Bilal H, **Mirchia K**, Perl A. *The Use of Eculizumab in Tacrolimus-Induced Thrombotic Microangiopathy*. **Journal of Investigative Medicine High Impact Case Reports**. Submitted: 2020 Apr 17. Accepted: 2020 Jul 09. Published: 2020 Aug 06. Abstract ID: JIM-20-0085. PMID: **32757799**; doi: 10.1177/2324709620947266 (<https://doi.org/10.1177/2324709620947266>)
28. Paulraj S, Harne PS, **Mirchia K**, Mian S, Sohal R, Habib G, Shah A, Amzuta I. *Benign but Terminal – Cardiopulmonary Collapse from a Massive Chest Wall Lipoma*. **Journal of Investigative Medicine High Impact Case Reports**. Submitted: 2020 Apr 24. Accepted: 2020 Jul 09. Abstract ID: JIM-20-0099. PMID: **32806974**; doi: 10.1177/2324709620949293 (<https://doi.org/10.1177/2324709620949293>)
29. Kumar PA, Sandhu J, Smith-Hannah A, **Mirchia K**, Joshi S, Graziano S. *Retinal Metastasis in a Young Male with Primary Mucinous Adenocarcinoma of the Lung*. **American Journal of Therapeutics**. Submitted 2020 June 1, Accepted 2020 Jun 04. Manuscript ID: AJT-2020222. doi: (<https://>)
30. Riaz S, Kudravalli P, Bernshteyn M, Masood U, Gowtham S, Shaffi C, Sharma A, **Mirchia K**, Ozden N. *A Rare Case of Myxedema Ascites and Uncommon Complication of Ischemic Colitis*. **The American Journal of Emergency Medicine**. Submitted: 2020 May 2. Accepted: 2020 May 8. Published: 2020 May 14. doi: 10.1016/j.ajem.2020.05.021 Manuscript ID: AEJM-S-20-01352. PMID: **32527603**; (<https://doi.org/10.1016/j.ajem.2020.05.021>)
31. Serinelli S, Richardson TE, Sylvie D, **Mirchia K**, Williams M, Medina-Perez M, Gitto L. *Head and Brain Postmortem Computed Tomography—Autopsy Correlation in Hospital Deaths*. **The American Journal of Forensic Medicine and Pathology**. Published: 2020 Jun 30. doi: 10.1097/PAF.0000000000000538; PMID: **32618580**; (<https://doi.org/10.1097/PAF.0000000000000538>)
32. **Mirchia K**, Richardson TE. *Beyond IDH-Mutation: Emerging Molecular Diagnostic and Prognostic Features in Adult Diffuse Gliomas*. **Cancers**. Submitted: 2020 Jun 5. Accepted: 2020 Jul 04. Published: 2020 Jul 06. doi: 10.3390/cancers12071817 Manuscript ID: cancers-843050. PMID: **32640746**; (<https://doi.org/10.3390/cancers12071817>)
33. Riaz S, Sampat PJ, Dhungana R, Bhatti HK, Bakrukov D, **Mirchia K**, Aiello D. *A Rare Case of Lipomatous Hypertrophy of the Interventricular Septum Masquerading as a Cardiac Tumor involving the Right Ventricle*. **American Journal of Case Reports**. Submitted: 2020 Jun 05. Manuscript ID: 926598.
34. Chioma S, Mukherjee S, **Mirchia K**, Harne P, Gambhir HS. *Infliximab-Associated Pneumonitis Treated with Corticosteroids*. **American Journal of Therapeutics**. Submitted: 2020 Jun 19. Published: 2020 Sep 30. PMID: **33009005**; doi: 10.1097/MJT.0000000000001245 (<https://doi.org/10.1097/mjt.0000000000001245>)
35. Thompson A, Suhail F, **Mirchia K**, Rawlins S. *A Case of Profound Secretory Diarrhea Revealing 2 Primary Neuroendocrine Tumors*. **ACG Case Reports**. Submitted: 2020 Jun 17. Accepted: 2021 Mar 30. Published: 2021 Jul 08. Manuscript ID: ACGCR-20-0746. PMID: **34258305**; doi:10.14309/crj.0000000000000625 (<https://doi.org/10.14309/crj.0000000000000625>)
36. Richardson TE, Williams M, Galbraith K, **Mirchia K**, Kumar A, Xing C, Walker JM. Total copy number variation, somatic mutation burden, and histologic grade correlate with clinical outcome in oligodendroglioma. Published: 2020 Oct. PMID: **32145756**; doi:10.5414/NP301260 (<https://doi.org/10.5414/NP301260>)
37. **Mirchia K**, **Mirchia K**, Thibodeau R, Jafroodifar A, Goel A, Jawed M. *Cutaneous Metastatic Seeding as a Sequela of Nephrostomy Catheter Placement*. **Radiology Case Reports**. Submitted: 2020 Oct 27. Accepted: 2020 Nov 19. Published: 2020 Dec 05. PMID: **33312321**; doi: 10.1016/j.radcr.2020.11.038 (<https://doi.org/10.1016/j.radcr.2020.11.038>)
38. Kumar PA, Sandhu J, Smith-Hannah A, **Mirchia K**, Joshi S, Graziano S. *Alectinib for Retinal Metastasis of a Primary Mucinous Adenocarcinoma of the Lung*. **American Journal of Therapeutics**. Submitted: 2020 Jun 01. Accepted: 2020 Jun 12. Published: 2020 Dec 29. Manuscript ID: AJT-2020222. PMID: **33416250**; doi: 10.1097/MJT.0000000000001225 (<https://doi.org/10.1097/mjt.0000000000001225>)
39. Richardson TE, Sathe AA, Xing C, **Mirchia K**, Viapiano MS, Snuderl M, Abdullah KG, Hatanpaa KJ, Walker JM. *Molecular Signatures of Chromosomal Instability Correlate with Copy Number Variation Patterns and Patient Outcome in IDH-Mutant and IDH-Wildtype Astrocytomas*. Published: 2021 Mar 22. PMID: **33755138**; doi:10.1093/jnen/nlab008 (<https://doi.org/10.1093/jnen/nlab008>)

40. Zain S, Mirchia K, Hussein A, Mirchia K. *Malignant triton tumor of the anterior mediastinum: a rare tumor in a rare location*. **Radiology Case Reports**. Submitted: 2021 Apr 03. Accepted: 2021 Apr 09. Published: 2021 May 01. PMID: **34007400**; doi: 10.1016/j.radcr.2021.04.019 (<https://doi.org/10.1016/j.radcr.2021.04.019>)
41. Lyon JF, Vasudevaraja V, **Mirchia K**, Walker JM, Corona RJ, Chin LS, Tran I, Snuderl M, Richardson TE, Viapiano MS. Spatial progression and molecular heterogeneity of IDH-mutant glioblastoma determined by DNA methylation-based mapping. Published: 2021 Jun 30. PMID: **34193272**; doi:10.1186/s40478-021-01221-7 (<https://doi.org/10.1186/s40478-021-01221-7>)
42. Serinelli S, Mirchia K, Gitto L, Khurana K, Zaccarini D. *PAX-8 Expression in Salivary Duct Carcinoma*. **Applied Immunohistochemistry & Molecular Morphology**. Submitted: 2021 Jan 17. PMID: **34081633**; doi:10.1097/PAI.0000000000000951 (<https://doi.org/10.1097/PAI.0000000000000951>)
43. Zain SM, Petropoulou K, Mirchia K, Hussein A, Mirchia K. *COVID-19 as a Rare Cause of Facial Nerve Neuritis in a Pediatric Patient*. **Radiology Case Reports**. Submitted: 2021 Mar 14. Accepted: 2021 Mar 28. Published: 2021 Apr 01. PMID: **33824691**; doi: 10.1016/j.radcr.2021.03.063 (<https://doi.org/10.1016/j.radcr.2021.03.063>)
44. Gitto L, Mehta R, **Mirchia K**, Ramos C, Tawil M, Serinelli S. *Sudden death due to leukostasis in a subject with undiagnosed chronic lymphocytic leukemia*. **Forensic Science, Medicine, and Pathology**. Accepted: 2021 Jul 04. Published: 2021 Aug 20. PMID: **34415512**; doi: 10.1007/s12024-021-00406-9 (<https://doi.org/10.1007/s12024-021-00406-9>)
45. **Mirchia K**, Khurana K. *Financial and Educational Impact of the COVID-19 Pandemic in an Academic Hospital-Based Tertiary Cytopathology Practice*. **Journal of the American Society of Cytopathology**. Submitted: 2021 May 25. Published: 2021 Sep 02. PMID: **34548250**; doi: 10.1016/j.jasc.2021.08.006 (<https://doi.org/10.1016/j.jasc.2021.08.006>)
46. Shaikat AA, Ola D, **Mirchia K**, Laftavi M, Shhahbazov R, Pankewycz O. *Alemtuzumab Salvage Therapy for Refractory Acute Rejection in Pancreas After Kidney Transplantation*. Accepted: 2022 Jan 12.
47. Zain SM, **Mirchia K**, Galbraith K, Galgano MA, Lee M, Richardson TE, Mirchia K. *Mediastinal metastases from a primary immature teratoma of the CNS*. **Radiology Case Reports**. Published: 2022 Jul 13. PMID: **35855860**; doi: 10.1016/j.radcr.2022.06.059 (<https://doi.org/10.1016/j.radcr.2022.06.059>)
48. Silva MA, **Mirchia K**, Chamyan G, Maher O, Wang S, Niazi T. *Disseminated diffuse midline glioma associated with poorly differentiated orbital lesion and metastases in an 8-year-old girl: case report and literature review*. **Child's Nervous System**. PMID: **35460354**; doi: 10.1007/s00381-022-05530-7 (<https://doi.org/10.1007/s00381-022-05530-7>)
49. Lucas CG, Abdullaev Z, Bruggers C, **Mirchia K**, Whipple N, Alashari MM, Lowichik A, Cheshier S, Phillips JJ, Devine P, Solomon DA, Quezado M, Aldape KD, Perry A. *Activating NTRK2 and ALK Receptor Tyrosine Kinase Fusions Extend the Molecular Spectrum Of Pleomorphic Xanthoastrocytomas of Early Childhood: a Diagnostic Overlap with Infant-Type Hemispheric Glioma*. **Acta Neuropathologica**. PMID: **34910220**; doi: 10.1007/s00401-021-02396-y (<https://doi.org/10.1007/s00401-021-02396-y>)
50. Lucas CG, Davidson CJ, Alashari M, Putnam AR, Whipple NS, Bruggers CS, Mendez JS, Cheshier SH, Walker JB, Ramani B, Cadwell CR, Sullivan DV, Lu R, **Mirchia K**, Van Ziffle J, Devine P, Goldschmidt E, Hervey-Jumper SL, Gupta N, Oberheim Bush NA, Raleigh DR, Bollen A, Tihan T, Pekmezci M, Solomon DA, Phillips JJ, Perry A. *Targeted Next-Generation Sequencing Reveals Divergent Clonal Evolution in Components of Composite Pleomorphic Xanthoastrocytoma-Ganglioglioma*. **Journal of Neuropathology & Experimental Neurology**. Published: 2022 Jul 19. PMID: **35703914**; doi: 10.1093/jnen/nlac044 (<https://doi.org/10.1093/jnen/nlac044>)
51. Lucas CG, Sloan EA, Gupta R, Wu J, Pratt D, Vasudevan HN, Ravindranathan A, Barreto J, Williams EA, Shai A, Whipple NS, Bruggers CS, Maher O, Nabors B, Rodriguez M, Samuel D, Brown M, Carmichael J, Lu R, **Mirchia K**, Sullivan DV, Pekmezci M, Tihan T, Bollen AW, Perry A, Banerjee A, Mueller S, Gupta N, Hervey-Jumper SL, Oberheim Bush NA, Daras M, Taylor JW, Butowski NA, de Groot J, Clarke JL, Raleigh DR, Costello JF, Phillips JJ, Reddy AT, Chang SM, Berger MS, Solomon DA. *Multiplatform molecular analyses refine classification of gliomas arising in patients with neurofibromatosis type 1*. **Acta Neuropathologica**. Published: 2022 Aug 9. PMID: **35945463**; doi: 10.1007/s00401-022-02478-5 (<https://doi.org/10.1007/s00401-022-02478-5>)

52. Chen WC, Perlow HK, Choudhury A, Nguyen MP, **Mirchia K**, Youngblood MW, Lucas CG, Palmer JD, Magill ST, Raleigh DR. *Radiotherapy for meningiomas*. J Neurooncol. Published: 2022 Nov. PMID: **36315366**. doi: 10.1007/s11060-022-04171-9 (<https://doi.org/10.1007/s11060-022-04171-9>)
53. Asa SL, Mete O, Schüller U, Ramani B, **Mirchia K**, Perry A; *Cauda Equina Neuroendocrine Tumors: Distinct Epithelial Neuroendocrine Neoplasms of Spinal Origin*. Published: 2022 Dec 22. PMID: **36543154** doi: 10.1097/PAS.0000000000002009 (<https://doi.org/10.1097/PAS.0000000000002009>)
54. Mirchia K, Mahoney M, Christie O, Fuller CE, **Mirchia K**; *A Rare Tumor in a Rare Location: Radiology and Pathology Findings with a Literature Review on Intraventricular Gliosarcoma*. Published: 2023 Feb 04. PMID: **36891012** doi: 10.7759/cureus.34622 (<https://doi.org/10.7759/cureus.34622>)
55. Guney E, Lucas CG, Singh K, Pekmezci M, Fernandez-Pol S, **Mirchia K**, Toland A, Vogel H, Bannykh SI, Schafernak KT, Alexandrescu S, Mobley BC, Powell SZ, Davidson C, Neltner J, Boué DR, Hattab EM, Ferris SP, Ohgami RS, Rubenstein JL, Bollen AW, Tihan T, Perry A, Solomon DA, Wen KW. *Molecular profiling identifies at least 3 distinct types of post-transplant lymphoproliferative disorder involving CNS*. Blood Adv. Published: 2023 Mar 10. PMID: **36897259**. doi: 10.1182/bloodadvances.2022009521 (<https://doi.org/10.1182/bloodadvances.2022009521>)
56. Chen W, Choudhury A, Youngblood M, Polley MY, Lucas CH, **Mirchia K**, Maas S, Suwala A, Won M, Bayley J, Harmanci A, Harmanci A, Klisch T, Nguyen M, Vasudevan H, McCortney K, Yu T, Bhave V, Lam TC, Pu J, Leung G, Chang J, Perlow H, Palmer J, Haberler C, Berghoff A, Preusser M, Nicolaidis T, Mawrin C, Agnihotri S, Resnick A, Rood B, Chew J, Young J, Boreta L, Braunstein S, Schulte J, Butowski N, Santagata S, Spetzler D, Bush NAO, Villanueva-Meyer J, Chandler J, Solomon D, Rogers C, Pugh S, Mehta M, Sneed P, Berger M, Horbinski C, McDermott M, Perry A, Bi W, Patel A, Sahm F, Magill S, Raleigh DR. *Targeted gene expression profiling predicts meningioma outcomes and radiotherapy responses*. Nature Medicine. Published: 2023 Nov 09. **Nature Medicine**. PMID: **36993741**.
57. Tang V, Lu R, **Mirchia K**, Van Ziffle J, Devine P, Lee J, Phillips JJ, Perry A, Raleigh DR, Lucas CG, Solomon DA. *Loss of p16 expression is a sensitive marker of CDKN2A homozygous deletion in malignant meningiomas*. Acta Neuropathol. Published: 2023 Apr. PMID: **36723772**. doi: 10.1007/s00401-023-02544-6 (<https://doi.org/10.1007/s00401-023-02544-6>)
58. Vasudevan HN, Delley C, Chen WC, **Mirchia K**, Pan S, Shukla P, Aabedi AA, Nguyen MP, Morshed RA, Young JS, Boreta L, Fogh SE, Nakamura JL, Theodosopoulos PV, Phillips J, Hervey-Jumper SL, Daras M, Pike L, Aghi MK, Tsai K, Raleigh DR, Braunstein SE, Abate AR. *Molecular Features of Resected Melanoma Brain Metastases, Clinical Outcomes, and Responses to Immunotherapy*. JAMA Network Open. JNO23-2882-T. Published: 2023 Aug 17. PMID: **37589977**. doi: 10.1001/jamanetworkopen.2023.29186 (<https://doi.org/10.1001/jamanetworkopen.2023.29186>).
59. Clarkson BDS, Grund EM, Standiford MM, **Mirchia, K**, Westphal MS, Muschler LS, Howe CL. *CD8+ T cells recognizing a neuron-restricted antigen injure axons in a model of multiple sclerosis*. **The Journal of clinical Investigation**. Submitted: 2022 June 16. Accepted: 2023 September 6. Published: 2023 November 1. PMID: **37676734**; doi: 10.1172/JCI162788 (<https://doi.org/10.1172/JCI162788>)

RESEARCH PUBLICATIONS (In Preparation/Under Review)

- **CG Lucas, Mirchia K** [co-first], Seo K, Chen WC, Choudhury A, Liu J, Perry A, Vasudevan HN, Raleigh DR; *Spatial transcriptomic and protein expression mechanisms reveal therapeutic vulnerabilities driving meningioma evolution*. Res Sq [Preprint] <https://doi.org/10.21203/rs.3.rs-2921804/v1> (Manuscript under review, Nature Genetics)
- Daggubati V, Vykunta A, Choudhury A, Qadeer Z, **Mirchia K**, Saulnier O, Zakimi N, Hines K, Paul M, Wang L, Jura N, Xu L, Reiter J, Taylor M, Weiss W, Raleigh D. Hedgehog target genes regulate lipid metabolism to drive basal cell carcinoma and medulloblastoma. Res Sq [Preprint]. 2023 Aug 3. PMID: **37577529**. doi: 10.21203/rs.3.rs-3058335/v1.
- **Mirchia K**, Choudhury A, Joseph T, Birrueta J, Phillips J, Bhaduri A, Crouch E, Perry A, Raleigh D. *Meningeal solitary fibrous tumor cell states phenocopy cerebral vascular development and homeostasis*. Res Sq [Preprint]. 2023 Jul 26. PMID: **37546798**. doi: 10.21203/rs.3.rs-3164953/v1.

- Nguyen MP, Bonnin DA, **Mirchia K**, Chen WC, Goldschmidt E, Braunstein SE, Perry A, Bush NAO, Raleigh DR. *Immune checkpoint inhibition response in a meningioma with DNA mismatch repair deficiency.*
- Nguyen MP, Chen WC, Zakimi N, **Mirchia K**, Lucas CG, Raleigh DR. *Pan-cancer copy number variant analysis identifies optimized size thresholds and co-occurrence models for individualized risk stratification.*

ABSTRACTS/MEETINGS

1. Bhat P, **Mirchia K**, Basti S, Feder R, Pyatetsky D. *Necrotizing Scleritis – A Case Series and Review of Literature.* **ARVO; 2012**; Fort Lauderdale, Florida, USA. Hall B/C, Session Number 146, 1253/D1082; c00.
2. Barbetta H, Kim HJ, Clarkson BDS, Curran G, **Mirchia K**, LaFrance-Corey RG, Howe CL. *A New Model of Theiler's Murine Encephalomyelitis Virus Infection.* **Mayo Graduate School Annual SURF Symposium 2014.**
3. Curtis KC, **Mirchia K**, LaFrance-Corey RG, Howe CL. *Acute viral encephalitis is associated with rapid microglial activation and production of CCL2,* **Mayo Graduate School Annual SURF Symposium 2015.**
4. Clarkson BDS, **Mirchia K**, Kim HJ, Sauer BM, LaFrance-Corey RG, Howe CL. *Understanding neuronal gene expression changes induced by distal demyelination or inflammatory insult,* **American Association of Immunology 2015,** New Orleans, Louisiana. Session BA6P, May 10, 2015.
5. Awarded **travel grant to Cole Eye Institute Imaging Summit (pre-ASRS 2015),** Vienna, Austria. July 10, 2015. **Mirchia K**, Howe CL. *In vivo measurement of retinal ganglion cell health following optic nerve injury or demyelination in preclinical models of multiple sclerosis.*
6. **Mirchia K**, Howe CL. *In vivo measurement of retinal ganglion cell health following optic nerve injury or demyelination in preclinical models of multiple sclerosis.* **Society for Neuroscience 2015,** Chicago, Illinois, USA. Hall A, Session October 19, 2015. 346.19/Z15.
7. Standiford MS, **Mirchia K**, Howe CL. *Functional Validation of iPSC-derived Oligodendrocyte Precursor Cells for Pre-Transplant Quality Control Testing.* **Mayo Graduate School 2016 January.**
8. Standiford MS, **Mirchia K**, Triplet EM, Howe CL. *Functional Validation of iPSC-derived Oligodendrocyte Precursor Cells for Pre-Transplant Quality Control Testing.* **Mayo Graduate School 2016 September.**
9. **Mirchia K**, Patel MS, Lucchinetti CF, Howe CL. *Intrinsic Metabolic Dysfunction in MS – Implications for Pathogenesis and Progression.* **CMSAN Annual Meeting 2016 November**
10. **Mirchia K**, Fullmer J. *Where Is My Hemangioblastoma-Case Report: Gliosis Radiographically Mimicking A Paraspinous Neoplasm.* **American Association of Neuropathologists.** 9th Jun 2018, Poster Number 166, 2nd Session.
11. Thompson A, Iorio N, **Mirchia K**, Rawlins S. *A unique case of profound secretory diarrhea in the setting of two concomitant neuroendocrine tumors in a newly-diagnosed HIV patient.* **NYACP Annual Meeting 2019.** Submitted Nov 2018; Presented Oct 12, 2019
12. **Mirchia K**, Naous R. *Malignant Myopericytoma Of the Vocal Cord – A Rare Lesion in A Rare Location: Case Report and Brief Review of Literature.* **American Society of Clinical Pathology.** Annual Meeting 3rd – 5th Oct 2018.
13. **Mirchia K**, Sathe AA, Walker JM, Viapiano M, Hatanpaa KJ, Xing C, Richardson TE. *Total Copy Number Variation and Clinical Outcome in Adult Astrocytoma Subtypes.* **American Association of Neuropathologists.** 7 Jun 2019, Platform 3.
14. Clarkson BDS, Grund EM, **Mirchia K**, Standiford MM, Howe CL. *Increased immune surveillance of neuron-restricted antigen during demyelination leads to axon loss perpetrated by CD8+ T cells.* **The Journal of Immunology.** May 1 2019, Vol 202; Supp 1 180.1 (https://www.jimmunol.org/content/202/1_Supplement/180.1)
15. Gitto L, Medina-Perez M, Destian S, Richardson TE, Williams M, **Mirchia K**, Serinelli S. *VIRTopsy vs AUTOPSY - From the radiology reading room to the autopsy table: post-mortem neuroradiologic-neuropathologic correlation in the hospital setting.* **Radiological Society of North America.** Dec 2019. Abstract ID: 19011931

16. Joseph S, Petropoulou KA, Mirchia K, **Mirchia K**, Salastekar NV. *Imaging Characteristics of Most Common Pineal Tumors*. **Radiological Society of North America**. Dec 2019. Abstract ID: 19012886
17. Serinelli S, Richardson TE, Destian S, **Mirchia K**, Williams M, Medina-Perez M, Gitto L. *Head and Brain PMCT-Autopsy Correlation in Hospital Deaths*. **National Association of Medical Examiners**. Oct 18-22 2019. Abstract ID: Accepted Jun 4 2019
18. Klumpp M, Mirchia K, Mangla R, **Mirchia K**, Perez MM. *Pediatric Skull Base: A Timeline of Developmental Processes with a Pictorial Review and Radiologic Differential of Skull Base Lesions in the Pediatric Population*. **American Society of Head and Neck Radiology**. Oct 2-6 2019. Abstract ID: 685421.
19. Mirchia K, Swarnkar A, Klumpp M, **Mirchia K**. *Technical and Clinical Outcome of Computed Tomography Guided Aspiration of Deep Neck Abscesses: A Single Institution Retrospective Analysis*. **American Society of Head and Neck Radiology**. Oct 2-6 2019. Abstract ID: 697206, Oral Presentation.
20. Mirchia K, Swarnkar A, Klumpp M, **Mirchia K**. *Double Needle Saline Wash: Evolving Technique for Image Guided Aspiration of Neck Abscesses*. **American Society of Head and Neck Radiology**. Oct 2-6 2019. Abstract ID: 702904, Oral Presentation.
21. Mirchia K, Swarnkar A, Klumpp M, **Mirchia K**. *Technique and Clinical Outcome of Ultrasound-guided Aspiration of Superficial Neck Abscesses: A Single-Institution Retrospective Analysis*. **American Society of Head and Neck Radiology**. Oct 2-6 2019. Abstract ID: 702459.
22. Mirchia K, Swarnkar A, Klumpp M, **Mirchia K**. *Temporal Progression of Imaging Findings in a Case of Non-Alcoholic Wernicke's Encephalopathy*. **The Eastern Neuroradiological Society**. Aug 22-25 2019, Aug 25 Excerpta Extraordinaire Session, Oral Presentation.
23. Tewari SO, Mirchia K, Gandy M, **Mirchia K**, Pinter D, Kobayashi K, Jawed M. *Safety and Efficacy of Transthoracic Computed Tomography Guided Fine Needle Aspiration of Lung Nodules*. **Symposium on Clinical Interventional Oncology**. Oct 11-13 2019, Abstract ID: 710177.
24. Tambe A, **Mirchia K**. *Localized Pulmonary Amyloidosis: A Single Institution Experience*. **American Society of Hematology**. Dec 7-10 2019, Abstract ID: 125124. <https://doi.org/10.1182/blood-2019-125124>
25. Riaz S, Gowtham S, Shafi C, Masood U, Kudravalli P, Sharma A, **Mirchia K**, Ozden N. *A Rare Case of Myxedema Ascites and Ischemic Colitis*. **American Journal of Gastroenterology**; American College of Gastroenterology Annual Meeting 2019. Oct 25-30 2019, Vol 114; p S912-S913; Abstract ID: 1631. doi: 10.14309/01.ajg.0000596052.28575.26
([https://journals.lww.com/ajg/fulltext/2019/10001/A Rare Case of Myxedema Ascites and Ischemic.1631.aspx](https://journals.lww.com/ajg/fulltext/2019/10001/A_Rare_Case_of_Myxedema_Ascites_and_Ischemic.1631.aspx))
26. Kumar PA, Graziano S, **Mirchia K**. *Retinal Metastasis of a Lung Mucinous Adenocarcinoma*. **NCCN 2020 Annual Conference – Case Study Panel**. Submitted Dec 31 2019, Accepted Feb 14 2020. Manuscript ID: 74.79.225.30 Mar 21 2020.
27. Klumpp M, **Mirchia K**. *Extraskelatal Ewing's Sarcoma*. **American Institute for Radiologic Pathology**. Mar 18 2020.
28. Bhamra M, **Mirchia K**. "Figuring out the Finger": *Necrotizing Granuloma with Mycobacterium Avium Intracellulare*. **SUNY Upstate Medicine Grand Rounds**. Feb 20 2020.
29. **Mirchia K**, Walker JM, Hatanpaa KJ, Richardson TE. *Copy Number Variation and Clinical Outcome in Oligodendroglioma, Lower-Grade Astrocytoma, and Glioblastoma*. **American Association of Neuropathologists**. 2020 Jun 11-14. JNEN Vol 79, No. 6, June 2020. Abstract number: 61, p: 670. doi: 10.1093/jnen/nlaa036.
30. **Mirchia K**, Mirchia K, Zaccarini D, Richardson TE. *Recurrent Spinal Anaplastic Hemangiopericytoma/Malignant Solitary Fibrous Tumor*. **American Association of Neuropathologists**. 2020 Jun 11-14. JNEN Vol 79, No. 6, June 2020. Abstract number: 229, p: 712. doi: 10.1093/jnen/nlaa036.
31. **Mirchia K**, Galbraith K, Mirchia K, Richardson TE. *Immature Thalamic Teratoma with Mediastinal Metastases*. **American Association of Neuropathologists**. 2020 Jun 11-14. JNEN Vol 79, No. 6, June 2020. Abstract number: 230, p: 712. doi: 10.1093/jnen/nlaa036.

32. Gabr JB, **Mirchia K**. *A Case of Immune-related Adverse Event: Challenges for the Rheumatologist*. **SUNY Upstate Rheumatology Grand Rounds**. Apr 16 2020.
33. Gitto L, Mehta R, **Mirchia K**, Ramos C, Serinelli S. *Sudden death due to leukostasis in a subject with untreated chronic lymphocytic leukemia*. Abstract number 210537. American Academy of Forensic Sciences (AAFS) 2021 Annual Meeting Feb 15-19.
34. **Mirchia K**, Khurana K. *Impact of the COVID-19 Pandemic in an Academic Hospital-Based Tertiary Cytopathology Practice: A V-Shaped Recovery*. United States and Canadian Academy of Pathology (USCAP) 2021 Annual Meeting Mar 13-19. Abstract number: 747. Mar 15 2021, Stowell-Orbison/Surgical Pathology/Autopsy Award Poster Session
35. Richardson TE, Abdullah K, Viapiano M, **Mirchia K**, Snuderl M, Hatanpaa K, Walker J. *Multiple Lines of Evidence for Chromosomal Instability as an Underlying Factor in Malignant Behavior in Astrocytoma Subsets*. **American Association of Neuropathologists**. JNEN Vol 80, No. 6. 10-13 Jun 2021, Hybrid Meeting.
36. **Mirchia K**, Mirchia K, El-Zammar O, Fuller C. *Final Histopathologic Diagnoses of Preoperatively Diagnosed Pituitary Macroadenomas*. **American Association of Neuropathologists**. JNEN Vol 80, No. 6. 10-13 Jun 2021, Hybrid Meeting.
37. **Mirchia K**, Khurana K. *Impact of Challenges and Innovative Solutions in Cytopathology Education of Pathology Residents in the COVID-19 Era: A Survey of Residents in A Pathology Training Program*. American Society of Cytopathology 2021 Annual Meeting Nov 11-14. Submitted.
38. Lucas CG, Sloan E, Jangham J, Gupta R, Wu J, Vasudevan H, Shai A, Whipple N, Bruggers C, Samuel D, Maher O, Lu R, **Mirchia K**, Sullivan D, Pekmezci M, Tihan T, Bollen A, Perry A, Banerjee A, Gupta N, Mueller S, de Groot J, Clarke J, Raleigh D, Phillips JJ, Reddy A, Chang S, Berger M, Diaz A, Solomon DA. *Multiplatform molecular analyses refine classification of gliomas arising in patients with neurofibromatosis type 1*. **American Association of Neuropathologists**. 2022 Jun 9-12. JNEN Vol 81, No. 6. Abstract number: 15; Platform.
39. Tang V, Lucas CG, Lu R, **Mirchia K**, Sullivan D, Van Ziffle J, Devine P, Lee JL, Phillips JJ, Perry A, Raleigh D, Solomon DA. *Loss of p16 expression is a sensitive marker of CDKN2A homozygous deletion in higher-grade meningiomas*. **American Association of Neuropathologists**. 2022 Jun 9-12. JNEN Vol 81, No. 6. Abstract number: 112; Platform.
40. Chen WC, Choudhury A, Youngblood MA, Polley M, Lucas CG, **Mirchia K**, ..., Raleigh DR. *Clinical and analytical validation of a targeted gene expression biomarker predicting meningioma outcomes and radiotherapy responses*. **ASCO Annual Meeting I**. 2023. Published: 2023 May 31. doi:10.1200/JCO.2023.41.16_suppl.2009 (https://doi.org/10.1200/JCO.2023.41.16_suppl.2009)
41. Zhu I, Miller K, Mirchia K, Payne E, Pak J, Jacques L, Braunstein SE, Vasudevan HN. *Malignant Peripheral Nerve Sheath Tumors Activate Distinct Immunosuppressive Pathways Following Radiotherapy and are Associated with Immune Depletion In Vivo*. **ASTRO 2023**; International Journal of Radiation Oncology, Biology, Physics, 117(2), S168. doi: 10.1016/j.ijrobp.2023.06.269 (<https://doi.org/10.1016/j.ijrobp.2023.06.269>)
42. **Mirchia K**, Pan S, Payne E, Agoglia R, Arribas-Layton M, Vasudevan HN. *High-throughput single nucleus isolation and DNA sequencing of human NF1 mutant glioblastomas identifies patterns of tumor evolution and recurrence*. **Crick International Cancer Conference**, Oct 8-10 2023, Francis Crick Institute, London.
43. Al-Adli N, Chen W, Young J, **Mirchia K**, Peeran Z, Braunstein S, et al. BIOM-31. Targeted DNA Sequencing of Recurrent Glioblastoma Identifies Molecular Factors Associated with Clinical Outcomes. *Neuro-Oncology*. 2023;25(Supplement_5):V11-V. **Society of Neuro-Oncology Annual Meeting 2023**.
44. Chen W, Choudhury A, Youngblood MW, Polly M-Y, Lucas C-H, **Mirchia K**, et al. BIOM-55. Targeted Gene Expression Profiling Predicts Meningioma Outcomes and Radiotherapy Responses. *Neuro-Oncology*. 2023;25(Supplement_5):V16-V7. **Society of Neuro-Oncology Annual Meeting 2023**.
45. Pan S, Liu J, **Mirchia K**, Payne E, Pak J, Seo K, et al. DDDR-18. Single-Cell Functional Genomic Analysis of Pharmacologic Responses in NF1 Mutant Glioblastoma Reveals Distinct Mechanisms Of Action For MEK And Shp2 Inhibition. *Neuro-Oncology*. 2023;25(Supplement_5):V109-V. **Society of Neuro-Oncology Annual Meeting 2023**.

46. Young J, Cho NW, Lucas C-H, Mirchia K, Seo K, Chen W, et al. EXTH-68. Systemic Neutralization of IL6 Sensitizes IDH-Wildtype Glioblastoma Preclinical Models to Immune Checkpoint Inhibition. *Neuro-Oncology*. 2023;25(Supplement_5):V240-V. **Society of Neuro-Oncology Annual Meeting 2023.**
47. **Mirchia K**, Cho S-J, Reddy AT, Jacques L, Pekmezci M, Perry A, et al. EPCO-04. Spatial Transcriptomic Analysis of Malignant Peripheral Nerve Sheath Tumors Reveals Therapeutically Targetable Molecular Signatures in Regions Undergoing Histopathologic Transformation. *Neuro-Oncology*. 2023;25(Supplement_5):V124-V. **Society of Neuro-Oncology Annual Meeting 2023.**
48. **Mirchia K**, Choudhury A, Joseph T, Birrueta JO, Phillips J, Bhaduri A, et al. EPCO-48. The Single-Cell and Spatial Transcriptomic Architecture of Meningeal Solitary Fibrous Tumors Phenocopies Cerebral Vascular Development and Homeostasis. *Neuro-Oncology*. 2023;25(Supplement_5):V135-V. **Society of Neuro-Oncology Annual Meeting 2023.**
49. **Mirchia K**, Payne E, Pan S, Al-Adli N, Young J, Chen W, et al. EPCO-28. Multiplatform Molecular and Functional Genomic Analyses of NF1 Mutant Glioblastoma Identify Distinct Co-Mutation Patterns and Druggable Dependencies Underlying Selumetinib Response. *Neuro-Oncology*. 2023;25(Supplement_5):V129-V30. **Society of Neuro-Oncology Annual Meeting 2023.**

INVITED ARTICLES

- **Mirchia K**, Bakri S. *Ranibizumab vs. Laser in Diabetic Macular Edema*, August 06 2014. <http://www.medscape.com/viewarticle/829196>
- **Mirchia K**, Bakri S. *Risk Factors for Geographic Atrophy in the CATT trial*, September 19, 2014. <http://www.medscape.com/viewarticle/831781>

PLATFORM PRESENTATIONS

- **Mirchia K**. *Congenital hypertrophy of the retinal pigment epithelium (CHRPE)*. **Grand Rounds**, Department of Ophthalmology, **Northwestern University**, Chicago, Illinois, USA. **April 2011**
- **Mirchia K**, Mirchia R, Pahwa S, Jain M. *Corneal Flap Thickness Precision and Predictability in Femtosecond Assisted LASIK and Mechanical Keratome Sub-bowman's Keratomileusis*. APAO/SOE Busan. **April 2012**
- **Mirchia K**, Mirchia R, Pahwa S, Jain M. *Corneal Endothelial Cell Density Variation after LASIK by Mechanical Keratome Sub-bowman's Keratomileusis vs. Femtosecond Assisted LASIK*. APAO/SOE Busan. **April 2012**
- **Mirchia K**. *iPSC-derived OPCs as a therapy for optic nerve remyelination*. Upper Midwest Neuroimmunology and Neuroinflammation Collaborative Symposium. **October 2016**
- **Mirchia K**. *Stem-cell based transplant strategies to restore vision in MS*. Mayo Clinic Center for Multiple Sclerosis and Autoimmune Neurology Annual Retreat. **November 2016**
- **Mirchia K**, Sathe AA, Walker JM, Viapiano M, Hatanpaa KJ, Xing C, Richardson TE. *Total Copy Number Variation and Clinical Outcome in Adult Astrocytoma Subtypes*. American Association of Neuropathologists. **June 7 2019**
- Mirchia K, Swarnkar A, Klumpp M, **Mirchia K**. *Technical and Clinical Outcome of Computed Tomography Guided Aspiration of Deep Neck Abscesses: A Single Institution Retrospective Analysis*. **American Society of Head and Neck Radiology**. Oct 2-6 2019. Abstract ID: 697206.
- Mirchia K, Swarnkar A, Klumpp M, **Mirchia K**. *Double Needle Saline Wash: Evolving Technique for Image Guided Aspiration of Neck Abscesses*. **American Society of Head and Neck Radiology**. Oct 2-6 2019. Abstract ID: 702904.
- Mirchia K, Swarnkar A, Klumpp M, **Mirchia K**. *Temporal Progression of Imaging Findings in a Case of Non-Alcoholic Wernicke's Encephalopathy*. **The Eastern Neuroradiological Society**. Aug 22-25 2019, Aug 25 Excerpta Extraordinaire Session, Oral Presentation.

- **Mirchia K**, Lucas CG, Lu R, Atiya S, Shonka N, Chen J, Perry A. *Pleomorphic Xanthoastrocytoma with Transformation to an Epithelioid Angiosarcoma*. **American Association of Neuropathologists, 63rd AANP Diagnostic Slide Session (DSS) Case 2022-10**. 2022 Jun 9 – 12.
- **Mirchia K**, Margeta M. *Nemaline myopathy associated with a novel pathogenic variant in α -actin (c.131G>T, p.Gly44Val) gene*. **American Association of Neuropathologists**. 2022 Jun 9-12. JNEN Vol 81, No. 6. Abstract number: 24; Platform.
- **Mirchia K**, Pan S, Payne E, Agoglia R, Arribas-Layton M, Vasudevan HN. *High-throughput single nucleus isolation and DNA sequencing of human NF1 mutant glioblastomas identifies patterns of tumor evolution and recurrence*. **Crick International Cancer Conference**, Flash Talk, Oct 10 2023, Francis Crick Institute, London.
- **Mirchia K**, Payne E, Pan S, Al-Adli N, Young J, Chen W, et al. EPCO-28. *Multiplatform Molecular and Functional Genomic Analyses of NF1 Mutant Glioblastoma Identify Distinct Co-Mutation Patterns and Druggable Dependencies Underlying Selumetinib Response*. *Neuro-Oncology*. 2023;25(Supplement_5):V129-V30. **Society of Neuro-Oncology Annual Meeting 2023**. Session: Molecular Pathology – Classification, Nov 19, 2023.

BOOKS

- Nageswari KS, Sharma R, Devi Syamala, **Mirchia K**. *Experimental Physiology Manual for Computer Based Amphibian Experiments*; written for first year MBBS students.
- Kloss, B., & Bruce, T. *Graphic Guide to Infectious Disease E-Book*. Elsevier Health Sciences. 2018 Mar 24, Contributing Editor: **Mirchia K**.
- Recent Advances in Forensic Medicine & Toxicology: Volume 3. Jaypee Brothers Medical Publishers. Richardson TE, Serinelli S, **Mirchia K**, Galbraith K, Jaeger D, Williams M, Gitto L. *Mechanisms of Sudden Unexpected Death Secondary to Central Nervous System Neoplasms*.

LEADERSHIP EXPERIENCE

- **Lab Management** (Post-doctoral Research Fellow): Managed a team with basic science research lab technologist (1), graduate students (5), and post-baccalaureate students (2). **Jul 2014 – Jun 2017** (~500 hours)
- **Hospital Formulary Committee** (Resident Advisor): Resident/Trainee representative for the hospital formulary committee. **Jan 2018 – Jun 2021** (~50 hours)
- **ACGME Program Effectiveness Committee** (Resident Advisor): Help in assessing/improving pathology education for residents. **Jan 2019 – Present** (~30 hours)
- **CAP Resident Forum Delegate**: SUNY Upstate Medical University, **Mar 2019 – Mar 2020**
- **Chief Resident** (Elected) **Apr 1 2019 – March 31 2020**
- **Alpha Omega Alpha (AOA)** Elected member, **Jul 2019**

PROFESSIONAL AFFILIATIONS

- Society for Neuroscience (**SfN**), Member
- American Association of Immunologists (**AAI**), Member
- American Society of Clinical Pathology (**ASCP**), Member
- Hans Popper Hepatopathology Society (**HPHS**), Member
- College of American Pathologists' (**CAP**), Member
- College of American Pathologists' (**CAP**) **Residents Forum**, Member
- Digital Pathology Association (**DPA**), General Member, and Education Committee Member
- American Association of Neuropathologists (**AANP**), Junior Member
- United States and Canadian Academy of Pathology (**USCAP**), Member