

MIA S. BERTALAN

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EDUCATION

Geisel School of Medicine at Dartmouth College	Hanover, NH
<ul style="list-style-type: none">○ M.D., anticipated May 2022○ Science Scholar, participating in Geisel's competitive research mentorship program○ Global Health Scholar, bridging cultures and borders through service and research	2018 – Present
Harvard College	Cambridge, MA
<ul style="list-style-type: none">○ B.A., Organismic and Evolutionary Biology, <i>cum laude</i>○ Secondary Field in Global Health and Health Policy	2012 – 2016
Harvard Summer Study Abroad at Oxford University	Oxford, UK
<ul style="list-style-type: none">○ Immersive study of the history and modern scientific application of the theory of evolution by natural selection○ Enriched with expeditions to locations and institutions significant to Charles Darwin's life and research	2014

RESEARCH

Medical Student Researcher in the Translational Oncology Program for Scholars <i>Norris Cotton Cancer Center at Dartmouth-Hitchcock Medical Center</i> Advisors: Arminja Kettenbach, PhD, Associate Professor of Biochemistry & Cell Biology; Mary Chamberlin, MD, Assistant Professor of Medicine; Laura Tafe, MD, Associate Professor of Pathology & Laboratory Medicine & Assistant Director of Laboratory for Clinical Genomics and Advanced Technology	Lebanon, NH
<ul style="list-style-type: none">○ Cultured human breast cancer cell lines, treated with targeted therapies, and quantified response with cytotoxicity assays○ Collected clinical data on 100+ patients with triple-negative breast cancer for correlation with matched sequencing data	Summer 2019
Brain Donation Co-Director, Database Manager, & Clinical Research Coordinator <i>Pappas Center for Neuro-Oncology at the Massachusetts General Hospital, Harvard Medical School</i> Supervisors: Tracy T. Batchelor, MD MPH, Director of the Pappas Center & Professor of Neurology; Priscilla K. Brastianos, MD, Director of the Central Nervous System Metastasis Program & Assistant Professor of Medicine	Boston, MA
<ul style="list-style-type: none">○ Consented patients, liaised with families, coordinated transportation, and collected tissue samples for over 40 autopsies○ Created, managed, queried, and analyzed data from a 4000-patient clinical database○ Communicated with Institutional Review Boards for five research protocols○ Assist with multiple ongoing research projects including the study of brain metastases from colorectal and ovarian cancers	2016 – 2018
Research Assistant <i>Center for the Environment at the Harvard T.H. Chan School of Public Health</i> Advisor: Christopher Golden, PhD, Associate Director of the Planetary Health Alliance & Assistant Professor of Nutrition and Planetary Health at the Harvard School of Public Health	Cambridge, MA
<ul style="list-style-type: none">○ Assisted with modeling effects of climate change on global fisheries and human nutrition○ Conducted literature reviews, mined extensive open-access databases, and assisted with data analysis	2016
Volunteer Research Assistant <i>British Natural History Museum</i> Supervisor: George Beccaloni, PhD, Director of the Wallace Correspondence Project	London, UK
<ul style="list-style-type: none">○ Transcribed original Victorian-era letters to and from Alfred Russel Wallace, Darwin's contemporary and co-theorist○ Increased accessibility of these pivotal writings for both researchers and the public	2014
Research Intern <i>Undergraduate Summer Internship at the Harvard Center for Systems Biology</i> Advisor: Lauren O'Connell, PhD, Bauer Fellow	Cambridge, MA
<ul style="list-style-type: none">○ Cared for poison dart frog subjects, assisted field work via frog capture and Spanish interpretation○ Designed and edited an animation to teach a lay audience about microbiomes in the human gut and on frogs' skin	2013

PUBLICATIONS

ORCID ID: 0000-0003-3519-7985

- Wang N, Cohen JV, Goss NC, **Bertalan MS**, Keeley MC, Oh K, Brastianos P. **The impact of a dedicated multidisciplinary tumor board on care for patients with brain metastases.** *Journal of the American Society for Clinical Oncology*. 26 May 2019. doi: 10.1200/JCO.2019.37.15_suppl.e13585
- Neftel C, Laffy J, Filbin MG, Hara T, Shore ME, Rahme GJ, Richman AR, Silverbush D, Shaw ML, Hebert CM, Dewitt J, Gritsch S, Perez EM, Castro LNG, Lan X, Druck N, Rodman C, Dionne D, Kaplan A, **Bertalan MS**, Small J, Pelton K, Becker S, Bonal D, Nguyen QD, Servis RL, Fung JM, Mylvaganam R, Mayr L, Gojo J, Haberler C, Geyeregger R, Czech T, Slavic I, Nahed BV, Curry WT, Carter BS, Wakimoto H, Brastianos PK, Batchelor TT, Stemmer-Rachamimov A, Martinez-Lage M, Frosch MP, Stamenkovic I, Riggi N, Rheinbay E, Monje M, Rozenblatt-Rosen Orit, Cahill DP, Patel AP, Hunter T, Verma IM, Ligon KL, Louis DN, Regev A, Bernstein BE, Tirosh I, Suva ML. **An integrative model of cellular states, plasticity and genetics for glioblastoma.** *Cell*, 178(4). 8 August 2019. 835-849. DOI: 10.1016/j.cell.2019.06.024
- Nayyar N, White MD, Gill CM, Lastrapes M, **Bertalan M**, Kaplan A, D'Andrea MR, Bihun I, Kaneb A, Dietrich J, Ferry JA, Martinez-Lage M, Giobbie-Hurder A, Borger DR, Rodriguez FJ, Frosch MP, Batchelor E, Hoang K, Kuter B, Fortin S, Holdhoff M, Cahill DP, Carter S, Brastianos PK, Batchelor TT. **MYD88 L265P mutation and CDKN2A loss are early mutational events in primary central nervous system diffuse large B-cell lymphomas.** *Blood Advances*. 12 Feb 2019; 12;3(3), 375-383. doi 10.1182/bloodadvances.2018027672
- Alvarez-Breckenridge C, Giobbie-Hurder A, Gill CM, **Bertalan M**, Stocking J, Kaplan A, Nayyar N, Lawrence DP, Flaherty KT, Shih HA, Oh K, Batchelor TT, Cahill DP, Sullivan R, Brastianos PK. **Upfront surgical resection of melanoma brain metastases provides a bridge towards immunotherapy mediated systemic control.** *Oncologist*. 22 Feb 2019. Epub ahead of print. doi: 10.1634/theoncologist.2018-0306
- Juratli TA, McCabe D, Nayyar N, Williams EA, Silverman IM, Tummala SS, Fink AL, Baig A, Martinez-Lage M, Selig MK, Bihun IV, Shankar GM, Penson T, Lastrapes M, Daubner D, Meinhardt M, Hennig S, Kaplan AB, Fujio S, Kuter BM, **Bertalan MS**, Miller JJ, Batten JM, Ely HA, Christiansen J, Baretton GB, Stemmer-Rachamimov AO, Santagata S, Rivera MN, Barker FG 2nd, Schackert G, Wakimoto H, Iafrate AJ, Carter SL, Cahill DP, Brastianos PK. **DMD genomic deletions characterize a subset of progressive/higher-grade meningiomas with poor outcome.** *Acta Neuropathol*. November 2018; 136(5), 779-792. doi: 10.1007/s00401-018-1899-7
- Fujio S, Juratli TA, Arita K, Hirano H, Nagano Y, Takajo T, Yoshimoto K, Bihun IV, Kaplan AB, Nayyar N, Fink AL, **Bertalan MS**, Tummala SS, Curry WT Jr, Jones PS, Martinez-Lage M, Cahill DP, Barker FG 2nd, Brastianos PK. **A clinical rule for preoperative prediction of BRAF mutation status in craniopharyngiomas.** *Neurosurgery*. 27 November 2018. doi: 10.1093/neuros/nyy569
- Alvarez-Breckenridge C, Giobbie-Hurder A, Gill C, **Bertalan M**, Stocking J, Kaplan A, Nayyar N, Lawrence D, Flaherty K, Shih H, Oh K, Batchelor T, Cahill D, Sullivan R, Brastianos P; CMET-16. **The role of surgical resection of melanoma brain metastases in the immunotherapy era.** *Neuro-Oncology*. 5 November 2018; 20(suppl_6), vi56-vi57. doi: 10.1093/neuonc/noy148.228
- Strickland MR, **Bertalan MS**, Kuter BM, Juratli TA, Melchert V, Higgins N, Toups MR, Kaplan A, Bihun I, Nayyar N, Martinez-Lage M, Lastrapes M, Borger DR, Shih HA, Hong TS, Brastianos PK. **Whole exome sequencing of brain metastases from colorectal primary cancers reveals clinically actionable mutations.** *Neuro-Oncology*. 5 November 2018; 20(suppl_6), vi56. doi: 10.1093/neuonc/noy148.227
- Winter SF, Lobel F, Vaio EJ, **Bertalan MS**, Bussiere M, Shih HA, Muzikansky A, Martinez-Lage M, Vajkoczy P, Dietrich J. **Clinicoradiographic key features of biopsy-proven treatment-induced necrosis in patients with malignant glioma.** *German Medical Science*. 18 June 2018; docP057. doi: 10.3205/18dgn398
- White M, Brastianos PK, Batchelor T, Nayyar N, Gill C, Lastrapes M, **Bertalan M**, Kaplan A, D'Andrea M, Bihun I, Kaneb A, Dietrich J, Ferry J, Martinez-Lage Alvarez M, Giobbie-Hurder A, Borger DR, Rodriguez FJ, Holdhoff M, Cahill DP, Carter SL. **MYD88 L265P mutation and CDKN2A loss as early mutational events in primary central nervous system lymphomas.** *Journal of Clinical Oncology*. 01 June 2018; 36(15_suppl), e14041-e14041. doi: 10.1200/JCO.2018.36.15_suppl.e14041
- Wang N, **Bertalan MS**, Brastianos PK. **Leptomeningeal metastasis from systemic cancer: Review and update on management.** *Cancer*. 22 November 2017; 124, 21-35. doi: 10.1002/cncr.30911
- Brastianos PK, Nayyar N, Rosebrock D, Leshchiner I, Gill CM, Livitz D, **Bertalan MS**, D'Andrea M, Hoang K, Aquilanti E, Chukwueke UN, Kaneb A, Chi A, Plotkin S, Gerstner ER, Frosch MP, Suva ML, Cahill DP, Getz G, Batchelor TT. **Resolving the phylogenetic origin of glioblastoma via multifocal genomic analysis of pre-treatment and treatment-resistant autopsy specimens.** *Nature Precision Oncology*. 18 September 2017; 1(33), 1-8. doi: 10.1038/s41698-017-0035-9

LEADERSHIP & TEACHING

- Curriculum Representative
Medical Education Committee of the Geisel School of Medicine Hanover, NH
2018 – Present
- Serve as a voting member on both the Committee and student government, elected by and representing the class of 2022
 - Lead education improvement initiatives and facilitate communication between administration and peers
- Peer Tutor
Bureau of Study Council at Harvard College Cambridge, MA
2013 – 2016
- Tutored undergraduate and extension school students in calculus, chemistry, biology, and physics
 - Trained weekly on tutoring best practices and mentored fellow tutors

SERVICE & OUTREACH

Health Educator	Manchester, NH
<i>Global Health Scholars at the Geisel School of Medicine</i>	2018 – Present
○ Volunteer with the Bhutanese refugee community at Maintaining Independence in Manchester, NH	
○ Conduct health education sessions topics relevant to and chosen by this community, such as diabetes and pain management	
Medical Interpreter	NH & VT
<i>Project Salud at the Geisel School of Medicine</i>	2018 – Present
○ Address social and economic determinants of health in a vulnerable rural population	
○ Provide comprehensive, culturally-sensitive, linguistically-accessible medical and dental care to migratory farm workers	
Science Fair Mentor	Roxbury, MA
<i>James P. Timilty Middle School in collaboration with the Massachusetts General Hospital</i>	2016 – 2018
○ Guided experiment design, data analysis, and preparation for oral presentation with four middle school students	
○ Encouraged STEM educational and career aspirations of students from under-represented demographics in these fields	
Volunteer Interviewer	Somerville, MA
<i>Harvard Alumni Association</i>	2016 – 2018
○ Interviewed five Somerville High School applicants	
○ Wrote persuasive recommendations to the admissions committee on students' behalf	
Patient Advocate (2015) & Triage Specialist (2016)	Boston, MA
<i>Health Leads</i>	2015 – 2016
○ Connected over 300 patients and their families with community resources to address social determinants of health	
○ Trained 55 peer volunteers and coordinated program logistics as part of Harvard Health Leads Student Leadership Team	
Peer Counselor	Cambridge, MA
<i>Sexual Health and Relationship Counselors at Harvard College</i>	2015 – 2016
○ Counseled undergraduate and graduate students and conducted freshman workshops	
○ Trained regularly and extensively on non-directive counseling and sexual health education	

FUNDING & GRANTS

○ Harvard's Phillips Brooks House Association STRIDE Public Service Program	2015 – 2016
○ Harvard Democratic Society for Progressive Public Service	2015
○ Harvard College Research Program Herchel Smith Independent Research Funding	2014
○ Howard Hughes Medical Institute Harvard Center for Systems Biology Undergraduate Research Internship	2013
○ Harvard Museum of Comparative Zoology Grant-In-Aid of Undergraduate Research	2013
○ Mark D. Cory Harvard Scholarship	2012 – 2016

PROFESSIONAL MEMBERSHIPS

○ American Medical Association	2018 – Present
○ Massachusetts Medical Society	2018 – Present
○ Physicians for Human Rights National Student Program	2018 – Present
○ Society for Neuro-Oncology	2016 – Present

INTERESTS

- Spanish, intermediate proficiency
- Violinist, Concertmaster of Etowah Youth Orchestra (2010 – 2011)
- Farrier and blacksmith, certified by Lookout Mountain School of Horseshoeing (2010)
- Horseback riding, member of the Harvard Polo Club junior varsity (2013 – 2014) and varsity (2014 – 2015) teams
- Obstacle course races, re-founded and served as captain of Harvard College Tough Mudders (2014 – 2016)