



Ryan Charles Leung Brewster

- Affiliate, Department Funds
- Fellow in Pediatrics - Neonatology

Bio

BIO

Ryan Brewster is a fifth-year MD candidate at the Stanford University School of Medicine. He is pursuing a career in pediatric cardiology or hematology/oncology and is passionate about reducing health inequities through technology and entrepreneurship. His current research in the Bhatt Lab examines the relationship between the gut microbiome and cardiometabolic disease in South Africa. Additionally, he is a Schweitzer Fellow with the Stanford Pediatrics Advocacy Program, and is involved in several early-stage medical technology projects in pediatric cardiology, neonatology, digital pathology, and women's health. Ryan earned his B.A. in Molecular Biology/Biochemistry and Spanish from Middlebury College.

HONORS AND AWARDS

- Gold Humanism Honors Society, Gold Humanism Honors Society (2020)
- UCSF Rosenman Institute Prize, MIT Hacking Medicine (2019)
- MacKenzie Foundation Scholarship, The MacKenzie Foundation (2019)
- MedScholars Grant Recipient, Stanford University School of Medicine (2017-2019)
- Kaiser Permanente Medical Student Scholarship, Kaiser Permanente Northern California (2019)
- Biodesign NEXT Fellow, Byers Center for Biodesign (2017)
- Mary Duke Biddle Clinical Scholar, Stanford Center for Innovation in Global Health (2019)
- David A. Zlotnick Scholarship, Stanford Center for Innovation in Global Health (2019)
- Schweitzer Fellow, Albert Schweitzer Fellowship (2018-2019)

PROFESSIONAL EDUCATION

- Certificate, Stanford Graduate School of Business Ignite (2019)

Publications

PUBLICATIONS

- **Managing Persistent Hypertension and Tachycardia Following Septic Shock, Limb Ischemia, and Amputation: The Role for beta-Blockade.** *Clinical pediatrics*
Brewster, R., Lee, J., Nguyen, E., Ward, V.
2021; 60 (4-5): 226–29
- **Evaluation of Absolute Lymphocyte Count at Diagnosis and Mortality Among Patients With Localized Bone or Soft Tissue Sarcoma.** *JAMA network open*
Brewster, R., Purington, N., Henry, S., Wood, D., Ganjoo, K., Bui, N.
2021; 4 (3): e210845

- **Gut microbiome profiling of a rural and urban South African cohort reveals biomarkers of a population in lifestyle transition.** *BMC microbiology*
Oduaran, O. H., Tamburini, F. B., Sahibdeen, V., Brewster, R., Gomez-Olive, F. X., Kahn, K., Norris, S. A., Tollman, S. M., Twine, R., Wade, A. N., Wagner, R. G., Lombard, Z., Bhatt, et al
2020; 20 (1): 330
- **The Effect of Socioeconomic Status on Age at Diagnosis and Overall Survival in Patients with Intracranial Meningioma.** *The International journal of neuroscience*
Brewster, R., Deb, S., Pendharkar, A. V., Ratliff, J., Li, G., Desai, A.
2020: 1–12
- **Using Telemedicine and Infographics for Physician-Guided Home Drain Removal.** *OTO open*
Go, B. C., Brewster, R., Patel, R., Rajasekaran, K.
2020; 4 (2): 2473974X20933566
- **Justice is the Best Medicine. And, Yes, You Can Call Us by Our Pronouns.** *AMA journal of ethics*
Brewster, R.
2020; 22 (3): E253–254
- **Optimizing telemedicine encounters for oral and maxillofacial surgeons during the COVID-19 pandemic.** *Oral surgery, oral medicine, oral pathology and oral radiology*
Moon, H. S., Wang, T. T., Rajasekaran, K. n., Brewster, R. n., Shanti, R. M., Panchal, N. n.
2020
- **Optimizing your telemedicine visit during the COVID-19 pandemic: Practice guidelines for patients with head and neck cancer.** *Head & neck*
Prasad, A. n., Brewster, R. n., Newman, J. G., Rajasekaran, K. n.
2020
- **How to perform a nasopharyngeal swab - an otolaryngology perspective.** *The American journal of medicine*
Kaufman, A. C., Brewster, R. n., Rajasekaran, K. n.
2020
- **Preparing for Telemedicine Visits: Guidelines and Setup.** *Frontiers in medicine*
Prasad, A. n., Brewster, R. n., Rajasekaran, D. n., Rajasekaran, K. n.
2020; 7: 600794
- **Microbiota modification in hematology: still at the bench or ready for the bedside?**
Severyn, C. J., Brewster, R., Andermann, T. M.
AMER SOC HEMATOLOGY.2019: 303–14
- **Cutaneous Patches to Monitor Myoelectric Activity of the Gastrointestinal Tract in Postoperative Pediatric Patients** *PEDIATRIC GASTROENTEROLOGY HEPATOLOGY & NUTRITION*
Taylor, J. S., de Ruijter, V., Brewster, R., Navalgund, A., Axelrod, L., Axelrod, S., Dunn, J. Y., Wall, J. K.
2019; 22 (6): 518–26
- **Socioeconomic Predictors of Surgical Resection and Survival for Patients With Osseous Spinal Neoplasms** *CLINICAL SPINE SURGERY*
Deb, S., Brewster, R., Pendharkar, A., Veeravagu, A., Ratliff, J., Desai, A.
2019; 32 (3): 125–31
- **Frameless Robot-Assisted Deep Brain Stimulation Surgery: An Initial Experience.** *Operative neurosurgery (Hagerstown, Md.)*
Ho, A. L., Pendharkar, A. V., Brewster, R., Martinez, D. L., Jaffe, R. A., Xu, L. W., Miller, K. J., Halpern, C. H.
2019
- **Surveying Gut Microbiome Research in Africans: Toward Improved Diversity and Representation.** *Trends in microbiology*
Brewster, R. n., Tamburini, F. B., Asimwe, E. n., Oduaran, O. n., Hazelhurst, S. n., Bhatt, A. S.
2019
- **Microbiota modification in hematology: still at the bench or ready for the bedside?** *Hematology. American Society of Hematology. Education Program*
Severyn, C. J., Brewster, R. n., Andermann, T. M.

2019; 2019 (1): 303–14

- **Microbiota modification in hematology: still at the bench or ready for the bedside?** *Blood advances*
Severyn, C. J., Brewster, R. n., Andermann, T. M.
2019; 3 (21): 3461–72
- **Meningioma transcription factors link cell lineage with systemic metabolic cues.** *Neuro-oncology*
Du, Z., Brewster, R., Merrill, P. H., Chmielecki, J., Francis, J., Aizer, A., Abedalthagafi, M., Sholl, L. M., Geffers, L., Alexander, B., Santagata, S.
2018; 20 (10): 1331-1343
- **The Search for Meaning** *ACADEMIC MEDICINE*
Brewster, R., Vyas, D.
2018; 93 (6): 823
- **Endoscope-assisted repair of CSF otorrhea and temporal lobe encephaloceles via keyhole craniotomy.** *Journal of neurosurgery*
Roehm, P. C., Tint, D., Chan, N., Brewster, R., Sukul, V., Erkmén, K.
2018; 128 (6): 1880-1884
- **Superior semicircular canal dehiscence syndrome.** *Journal of neurosurgery*
Bi, W. L., Brewster, R., Poe, D., Vernick, D., Lee, D. J., Eduardo Corrales, C., Dunn, I. F.
2017; 127 (6): 1268-1276
- **Germline and somatic BAP1 mutations in high-grade rhabdoid meningiomas.** *Neuro-oncology*
Shankar, G. M., Abedalthagafi, M., Vaubel, R. A., Merrill, P. H., Nayyar, N., Gill, C. M., Brewster, R., Bi, W. L., Agarwalla, P. K., Thorner, A. R., Reardon, D. A., Al-Mefty, O., Wen, et al
2017; 19 (4): 535-545
- **Genomic landscape of intracranial meningiomas.** *Journal of neurosurgery*
Bi, W. L., Abedalthagafi, M., Horowitz, P., Agarwalla, P. K., Mei, Y., Aizer, A. A., Brewster, R., Dunn, G. P., Al-Mefty, O., Alexander, B. M., Santagata, S., Beroukhi, R., Dunn, et al
2016; 125 (3): 525-35
- **Oncogenic PI3K mutations are as common as AKT1 and SMO mutations in meningioma.** *Neuro-oncology*
Abedalthagafi, M., Bi, W. L., Aizer, A. A., Merrill, P. H., Brewster, R., Agarwalla, P. K., Listewnik, M. L., Dias-Santagata, D., Thorner, A. R., Van Hummelen, P., Brastianos, P. K., Reardon, D. A., Wen, et al
2016; 18 (5): 649-55
- **How a Lumbar Discectomy Influenced Medical Malpractice and the Landscape of Health Care.** *World neurosurgery*
Yang, B. W., Bi, W. L., Smith, T. R., Brewster, R., Gormley, W. B., Dunn, I. F., Laws, E. R.
2016; 86: 88-92
- **Evita's lobotomy.** *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*
Young, G. J., Bi, W. L., Smith, T. R., Brewster, R., Gormley, W. B., Dunn, I. F., Laws, E. R., Nijensohn, D. E.
2015; 22 (12): 1883-8
- **The Assassination of Abraham Lincoln and the Evolution of Neuro-Trauma Care: Would the 16th President Have Survived in the Modern Era?** *World neurosurgery*
Yan, S. C., Smith, T. R., Bi, W. L., Brewster, R., Gormley, W. B., Dunn, I. F., Laws, E. R.
2015; 84 (5): 1453-7
- **The neurosurgeon as baseball fan and inventor: Walter Dandy and the batter's helmet.** *Neurosurgical focus*
Brewster, R., Bi, W. L., Smith, T. R., Gormley, W. B., Dunn, I. F., Laws, E. R.
2015; 39 (1): E9