

## Denise Fabian, MD

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### EXPERIENCE

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**UNIVERSITY OF KENTUCKY MARKEY CANCER CENTER – RADIATION ONCOLOGIST** Lexington, KY  
*Assistant Professor, Radiation Oncology (2020- present)*  
*Associate Residency Program Director, Radiation Oncology (2020-present)*

### EDUCATION

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**OHIO STATE UNIVERSITY JAMES CANCER HOSPITAL** Columbus, OH  
*Radiation Oncology Residency, 2020*

**OHIO STATE UNIVERSITY WEXNER MEDICAL CENTER** Columbus, OH  
*Preliminary Internal Medicine Residency, 2016*

**OHIO STATE UNIVERSITY COLLEGE OF MEDICINE** Columbus, OH  
*Doctor of Medicine, 2015*

**BOSTON UNIVERSITY COLLEGE OF ARTS AND SCIENCES** Boston, MA  
*Biochemistry and Molecular Biology (Major) & International Relations (Minor), 2010*

### AWARDS, ACHIEVEMENTS, AND LEADERSHIP POSITIONS

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- **Chief Resident – Radiation Oncology** (April 2019- June 2020)  
Managed clinical curriculum schedule and structure, promoted a positive atmosphere of teamwork, planned resident retreats, resolved resident concerns, improved inpatient call structure and service transition protocol, medical student education
- **James Cancer Center Hematology/Oncology Medical Committee** (August 2019-April 2020)  
Served on the hospital hematology/oncology committee as the selected resident & fellow representative.
- **Faculty Athletic Council** (August 2019-present)  
Resident Liaison – organized and promoted athletic events and tournaments for Ohio State Faculty, Residents and Fellows
- **RAC** (April 2018 – April 2020)  
*The Residency Advisory Council (RAC) is the GME Housestaff Advisory Association, which represents the 800 + residents at Ohio State*  
**Chair** (April 2019 – present) & **Vice-Chair** (April 2018- April 2019)  
Advocated for resident interests, lead monthly RAC meetings, established sub-committee leadership, spearheaded new resident stipend initiative with support of senior leadership, sat on GME council meetings; promoted quality improvement
- **RSNA** (2016-present)  
*The Radiological Society of North America (RSNA) is an international society of radiologists, medical physicists, and other medical professionals*  
**Ohio State Resident Representative** (2017-2018)
- **PODEMOS** (2013- present)  
*The Partnership for Ongoing Developmental, Educational and Medical Outreach Solutions (PODEMOS) is a 501c3 non-profit organization benefiting medical relief efforts*  
**Fundraising Director and Board Member** (2014-Present) & **Fundraising Chair** (2013)  
Oversee in long-term organizational planning and decision-making; organized five fundraising events to help subsidize medical brigade costs; provided essential primary care services to marginalized communities in Honduras
- **Bertha A. Watts-Mount Memorial Scholarship Award Recipient** (2014 -2015)  
*Scholarship competitively awarded to a student in one of Ohio State's professional degree programs who demonstrates a commitment to education, research, and service to the community*
- **Ohio State College of Medicine Roessler Research Award** (2012)  
*Competitively awarded to top research-oriented medical students at OSU*  
Worked in the Laboratory of Arnab Chakravarti, MD; Chair and Professor of Radiation Oncology and Max Morehouse Chair of Cancer Research, Ohio State University Comprehensive Cancer Center/Arthur G. James Cancer Hospital
- **Ohio State P4 Summer Scholar** (2012)  
*Competitive enrollment for OSU medical students interested in learning about personalized health care, specifically focusing on genetics*  
Practiced application of innovative personalized medicine concepts in routine healthcare

- **AMSA (2013-2015)**  
*The American Medical Student Association (AMSA) is the nation's largest and oldest independent association of future physicians, committed to representing concerns of physicians in training*  
**President (2013-2014):** Advocated the interest of medical students at Ohio State Started and developed a Medical Spanish class for health professional students Structured over 16 AMSA related events and initiatives throughout the year
- **ROIG**  
*The Radiation Oncology Interest Group (ROIG) was founded to provide academic, research, and networking opportunities for OSU medical students interested in Radiation Oncology*  
Helped start ROIG at OSU, structured group informative meetings, research seminars, and residency match panels; Promoted student interest in Radiation Oncology, helped start interest group  
**Fundraising Chair (2013):** Organized "Picture a Cure" Silent Art Auction and raised funds to support Radiation Oncology research at The James.
- **Other Awards:** FMG Research Award (Fall 2008/ Spring 2009); FROG Research Award (Fall 2008/Spring 2009); Dean's List, Boston University Triathlon Team, **Treasurer (2008-2009)**, North East Collegiate Triathlon Conference Champions.
- **Other Professional Society Membership:** American Society for Radiation Oncology (ASTRO), European Society for Radiation Oncology (ESTRO), American Society of Clinical Oncology (ASCO), Association of Residents in Radiation Oncology (ARRO), Radiological Society of North America (RSNA), American Medical Association (AMA).

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## TEACHING AND VOLUNTEER EXPERIENCE

- **The Ohio State University (2018-2019)**  
**Lecturer:** Taught Clinical Trial Design class for Biomedical Sciences undergraduate students (BIOMSCI 4830H); taught Radiation Therapy for Endocrine Cancer lecture undergraduate students; developed exam questions.
- **The Princeton Review (2011-2013)**  
**Instructor and Tutor (MCAT/DAT):** Taught relevant scientific material to students preparing for medical and dental school entrance exams; provided instruction in strategic test-taking and crisis management techniques; helped students achieve academic goals to become leaders in healthcare; Contributing author to "Cracking the USMLE Step 1" by the Princeton Review, Microbiology Chapter
- **Beth Israel Deaconess Medical Center (BIDMC)/Harvard Medical School (2009)**  
**Kopelman Fellow:**-Prestigious research and clinical fellowship awarded to one undergraduate student each year who is pursuing a career in medicine; Thoracic Oncology Clinical Research Position and Clinical Observership
- **Other Volunteer Experience:** The Adaptive Adventure Sports Coalition (TAASC) (2010); Physicians Free Clinic (PFC) (2010-2011), Massachusetts General Hospital Emergency Room (2008-2009), Mansfield General Hospital (2008)

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## SKILLS

- **Languages:** English, Slovak(fluent), Spanish(proficient)

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## RESEARCH EXPERIENCE

2010-Present **OHIO STATE UNIVERSITY/THE JAMES CANCER CENTER** Columbus, OH  
*Resident and Medical Student Researcher, Mentor: Arnab Chakravarti, MD, Chair and Professor of Radiation Oncology and Max Morehouse Chair of Cancer Research, Ohio State University Comprehensive Cancer Center/Arthur G. James Cancer Hospital; Erica Hlavin Bell, PhD; Associate Professor Radiation Oncology; Joshua D. Palmer, MD, Assistant Professor Radiation Oncology.*

### **Clinical, Translational, and Laboratory Research Experience:**

- Worked in the laboratory of Dr. Arnab Chakravart – focused on molecular isolations from tumor tissue and analysis; designed and drafted Phase I clinical trial protocol (*Phase I study of the combination of the Cyclin-Dependent Kinase (CDK) 4 and 6 inhibitor, Abemaciclib, with Stereotactic Radiosurgery (SRS) for treatment of brain metastases*); Designed and drafted quality improvement project protocol (*Radiographic Surveillance following Stereotactic Radiotherapy for Brain Metastases: A QI Project*); Wrote 5 IRB protocols; helped develop and maintain international working collaborations with physicians in Slovakia, India, and Germany; mentored several undergraduate and medical students (Kathryn Andrews, Allison LaRocco, Kevin Liu, Jihad Aljabban, Aleksander Vayntraub, and Catherine Fabian).

### **Peer Reviewed Publications (Selected):**

- Singh M, Leasure JM, Chronowski C, Geier B, Bondra K, Duan W, Hensley LA, Villalona-Calero M, Li N, Vergis AM, Kurmasheva RT, Shen C, Woods G, Sebastian N, **Fabian D**, Kaplon R, Hammond S, Palanichamy K, Chakravarti A, Houghton PJ. FANCD2 is a potential therapeutic target and biomarker in alveolar rhabdomyosarcoma harboring the PAX3-FOXO1 fusion gene. Clin Cancer Res. 2014 Jul 15;20(14):3884-95. doi: 10.1158/1078-0432.CCR-13-0556. Epub 2014 Apr 30.
- Bell EH, Kirste S, Fleming JL, Stegmaier P, Drendel V, Mo X, Ling S, **Fabian D**, Manring I, Jilg CA, Schultze-Seemann W, McNulty M, Zynger DL, Martin D, White J, Werner M, Grosu AL, Chakravarti A. A

novel miRNA-based predictive model for biochemical failure following post-prostatectomy salvage radiation therapy. *PLoS One*. 2015 Mar 11;10(3):e0118745. doi: 0.1371/journal.pone.0118745. eCollection 201

- **Fabian, D**, Smith, JB, Pluto, CP, Thompson, BP, Minneci, PC, Deans, KJ, Elmaraghy, CA. 2015. Pediatric Tonsillar malignancies: Misleading Presentations. *International Journal of Otorhinolaryngology*. Vol. online, no. May: eonline.
- Eulitt P, **Fabian D**, Kelly C & Hemminger, Jessica & M, Basem. (2017). Waldenström's macroglobulinemia masquerading as ovarian cancer with peritoneal carcinomatosis, ascites, and elevated cancer antigen 125. *Hematology/Oncology and Stem Cell Therapy*. 10.1016/j.hemonc.2017.02.004.
- Bell E, Zhang P, Fisher B, MacDonald D, McElroy J, Lesser G, Fleming J, Chakraborty A, Liu Z, Becker A, **Fabian D**, Aldape K, Ashby L, Werner-Wasik M, Walker E, Bahary J, Kwok Y, Yu M, Laack N, Schultz C, Gray H, Robins I, Mehta M, Chakravarti A. Association of *MGMT* Promoter Methylation Status With Survival Outcomes in Patients with High-Risk Glioma Treated with Radiotherapy and Temozolomide: An Analysis from NRG Oncology/RTOG 0424 Trial. *JAMA Oncology*. 4(10): 1405-1409. October 2018.
- **Fabian D**, Guillermo Prieto Eibl M, Alnhhas I, Sebsatian N, Giglio P, Puduvalli V, Gonzalez J, Palmer JD. Treatment of Glioblastoma (GBM) with the Addition of Tumor-Treating Fields (TTF): A Review. *Cancers* 2019, 11(2), 174; <https://doi.org/10.3390/cancers1102014>.
- **Fabian D**, DiCostanzo D. J, Barney C, Aljabban J, Wuthrick E. J, Williams T, Bazan J. Radiation Dose to the Thoracic Vertebral Bodies and Impact on Hematologic Toxicity in Patients Receiving Concurrent Chemoradiation for Esophageal Cancer. *Front. Oncol*. Feb 21, 2019. doi: 10.3389/fonc.2019.00147
- **Fabian D**, LaRocco A, Olsen M, and Quick A. MRI-Guided Intracavitary/Interstitial Brachytherapy for Treatment of Locally Advanced Cervical Cancer in a Patient with Bicornuate Uterus. *Journal of Contemporary Brachytherapy*. Jun 6, 2019. doi: 10.5114/jcb.2019.85738
- Odei B, Holliday EB, Jagsi R, Chino F, Schulmire C, Kudrimoti M, Chen AM, Raval R, **Fabian D**. Recruitment Challenges and Opportunities for Radiation Oncology Residency Programs During the 2020-2021 Virtual Residency Match. *Int J Radiat Oncol Biol Phys*. 2020 Aug 13:S0360-3016(20)34113-4. doi: 10.1016/j.ijrobp.2020.08.024. Epub ahead of print. PMID: 32798607; PMCID: PMC7424314.

#### **Presentations (Selected)**

- **Fabian D**, Quick A. MRI-Guided Intracavitary/Interstitial Brachytherapy for Treatment of Locally Advanced Cervical Cancer in a Patient with Bicornuate Uterus. Poster presented at ABS Annual Meeting: 2018 July; San Francisco.
- **Fabian D**, DiCostanzo D. J, Barney C, Wuthrick E. J, Williams T, Bazan J, Haglund K. E. Comparison of ACUROS and Anisotropic Analytica Algorithm for Dose Calculation in Treatment of Early-Stage Non-Small Cell Lung Cancer Utilizing Stereotactic Body Radiation Therapy. Poster presented at ASTRO Annual Meeting: 2018 Oct 23; San Antonio..
- **Fabian D**, McElroy J, Bhatt A, Blakaj D, Mitchell D, Grecula J, Wobb J, Diavolitsis V. Survey to assess the practice patterns of induction chemotherapy (IC) in head and neck cancer patients. Poster presented at ASTRO 2017 Annual Meeting; 2017 Sept 24; San Diego, CA.
- **Fabian D**, Makary M, Aquino A, Pandya V, Healy E, Slone W, Prevedello L, and Palmer JD. Radiographic Surveillance following Stereotactic Radiotherapy for Brain Metastasis, a QI Project. Poster presented at The Ohio State Annual Quality Improvement Symposium; 2018; Columbus, OH
- **Fabian D**, Andrews K, Grecula JC, Raval R, McGregor J, Elder B, Ammirati M, Arnett A, Lu L, Chakravarti A, Palmer JD. Use of Gamma Knife Radiosurgery for Treatment of Trigeminal Neuralgia: An Institutional Experience. Poster presented at ESTRO 38 Annual Meeting; 2019 April 27; Milan, Italy.
- **Fabian D**, Radiation Oncology Grand Rounds Presentation. No Routine Brain Cancer: Tackling the Complexities of CNS Malignancies. 2019 June 11; Columbus, OH.
- **Fabian D**, Bell EH, McElroy JP, Cui T, Fleming JL, Bcker AP, Geurts M, Harque SJ, Robe P, and Chakravarti A. A Preliminary miRNA-Based Nomogram for Individualized Estimation of Survival in Patients with Newly-Diagnosed Glioblastoma Utilizing Global microRNA Expression Data. ASCO 2019 Annual Meeting; June 2; Chicago, IL.
- **Fabian D**, Bell EH, McElroy JP, Cui T, Fleming JL, Bcker AP, Geurts M, Harque SJ, Robe P, and Chakravarti A. A Preliminary Comprehensive Molecular-Based Nomogram for Individualized Estimation of Survival in Patients with Glioblastoma Utilizing Global microRNA, Proteomic, and Methylation data. September 16, Chicago, IL. ASTRO 2019 Annual Meeting. Oral Presentation.
- **Fabian D**, Wuthrick E, Wei L, Tan Y, Grecula J, Welliver M, Williams T, Elder JB, Raval R, Blakaj D, Bazan J, Kendra K, Arnett A, Liebner D, Bell EH, Gonzalez J, Giglio P, Puduvalli V, Chakravarti A, and Palmer JD. Phase I Study of Trametinib in Combination with Whole Brain Radiation Therapy for Brain Metastases. September 16, Chicago, IL. ASTRO 2019 Annual Meeting. Poster Presentation

*Undergraduate Research Associate, Mentor: Dr. Lee Goldstein, Associate Prof. of Psychiatry*

Developing novel early diagnostics and nanotherapeutics for Alzheimer's and Parkinson's disease.

- ABSTRACT: Ghosh, JG, **Fabian D**, Ashley Mallat, Steve Ramirez, Mark Burton, Juliet Moncaster, Noel Casey, Anca Mocofanescu, Dean Hartley, and Patric Stanton. "The Molecular Chaperone Human A $\beta$  Crystallin Modulates Amyloid- $\beta$  Neurotoxicity." *Alzheimer's and Dementia* 5.4 (2009): P304. Print.