

SEPTEMBER 2024

SPOTLIGHT

Dr. Drew Sullivan and his wife, Donna, lost their son, Eric, to Glioblastoma in January 2023. In honor of Eric's memory, they generously donated to the Gallium Maltolate (GaM) Expanded Access Program (EAP) through the Musella Foundation. Their donations will go directly to help patients enrolled in the EAP. Please read Eric's inspiring story as we honor his memory and acknowledge the tremendous gift from Dr. Drew and Donna Sullivan.

Eric's Story

For two decades, Imaging Biometrics has been perfecting perfusion MRI's ability to complement anatomical imaging in the diagnosis and treatment for brain tumors. Often it is seen as a very scientific, complex, technological pursuit. But every now and then a real life story illustrates how we impact the lives of real people, often extending their time to enjoy life to the fullest.

Dr. Eric Sullivan loved the mountains and fully embraced all things Montana. After completing his PhD in Applied Mathematics at the University of Colorado, Denver, Eric and his wife, Johnanna ("J"), relocated to Helena, Montana, where he joined the mathematics faculty at Carroll College in 2013. He became known as an energetic and mentally tough math professor and was instrumental in developing the College's Data Science program and promoting student research. The Numerical Methods textbook he authored is used in several university classes nationwide.

Eric and "J" were outdoor enthusiasts who together made hiking, backpacking, camping, mountain and road biking, rock climbing, paddleboarding, kayaking, fly fishing, snowshoeing, and skiing central parts of their life—often accompanied by their beloved



Eric and "J"

dogs. Despite not having any advance warning, Eric acutely developed symptoms and was diagnosed with glioblastoma on his 46th birthday in April 2021. He underwent an initial surgery at the University of Utah Medical Center, followed by both radiation and chemotherapy in Salt Lake City, Utah.

Eric and "J" had a motto: "movement is medicine." For every day of chemotherapy, they had an adventure: trail hiking, star gazing, participating in "fun runs," and enjoying ice cream and luscious brownie treats.

Following surgery, and during rounds of challenging chemotherapy, Eric returned to his college classroom, where he continued to impart his love of mathematics to his students. They, in turn, assisted him as he experienced progressive visual and mobility challenges. His students learned much more than math in that class.

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After a second surgery to address an additional tumor, and with the assistance of fellow math professors, Eric was able to continue his classroom and department activities, as well as student mentoring. He was selected as the outstanding professor of 2022 by the Carroll College faculty and students.

Embracing the philosophy, "You can't win the lottery unless you buy a ticket," Eric became the first patient at the Gunderson Medical Center in La Crosse, Wisconsin, to receive pulsed low-dose radiation treatments. These treatments provided



Eric in Montana



Eric and Aspen

temporary stabilization of GBM symptoms, which allowed Eric to enjoy some adaptive water-skiing adventures. With "J" as the pilot, Eric and "J" enjoyed Montana fall bike rides on their tandem recumbent tricycle.

Eric passed away in January 2023, just a few months shy of his 48th birthday. Gifts to Carroll College have established the Dr. Eric Sullivan Data Science Fund in his memory, and he was honored with Carroll College Emeritus status at the 2023 graduation ceremony.

Eric was a "math nerd," a passionate teacher, an adventurer, a connoisseur of craft beers, and a warrior!

The Musella Foundation has provided a tax-deductible donation form, enabling individuals to directly support patients in covering the costs associated with accessing Gallium Maltolate.

We invite you to contribute to this program by donating. Your support, regardless of the amount, will directly benefit patients with high-grade gliomas, helping them access this important treatment option.

We appreciate your willingness to be part of our dedication to progress and compassion.



[VIEW FORM & DONATE TODAY!](#)

Updates and Accolades

- Meet Jonah Ebent who completed a summer internship with Imaging Biometrics, where he made valuable contributions as a software engineering intern. A rising junior majoring in Computer Science at Franciscan University of Steubenville, OH, Jonah focused on enhancing IB Nimble. Throughout the summer, he expanded his knowledge across various domains, including app design, DevOps, and cybersecurity. Outside of his professional pursuits, Jonah enjoys spending time outdoors, fishing, climbing, and kayaking with family and friends.



- Congratulations to IB's co-founder, Dr. Kathleen Schmainda, for being elected to the Medical College of Wisconsin's Society for Research Excellence. Members must have a longstanding track record of high-impact scientific discovery, mentorship, leadership, & advancement in research. [View their website](#)
- In case you missed it, Applied Radiology® presented: The Clinical Benefits of Perfusion MRI for Glioblastomas by doctors Leland Hu, MD, Mark Shiroishi, MD and Jerrold Boxerman, MD. [View Here](#)
- The Board of IQ-AI Ltd is pleased to announce the Company's half yearly report for the period ending

30 June 2024. Please refer to the link for the full announcement and key highlights below. [View full announcement and key highlights here](#)

- An exciting new application of our quantitative imaging capabilities is using Delta T1™ maps for assessing the extent of surgical ablation using laser interstitial thermal therapy ("LITT"). The dT1 maps overcome current limitations with standard post-contrast MRI that are confounded by effects from the treatment. A study characterizing the benefit of dT1 for LITT is being undertaken by neurosurgeon, Dr. Max Krucoff with Dr. Kathleen Schmainda at the Medical College of Wisconsin.

We will be introducing the next software release of IB Clinic. This release includes important new features and enhancements, along with upgrades in cybersecurity and general updates to the code base. Of significance will be the ability to post-process Spin and Gradient Echo ("SAGE") data. We will be the first company to offer SAGE processing. SAGE permits the collection of rCBV information with a variable sensitivity to vessels of different diameters, as well as additional tissue biophysical metrics relevant to changes observed with cancer and treatment and represents the future of perfusion MRI.

In addition, we will be offering an artificial intelligence (AI) based pipeline that enables the automatic generation of quantitative perfusion class maps also known as FTB (Fractional Tumor Burden). This highly demanded feature eliminates the need for an end user, such as a neuroradiologist or skilled MR technologist, to perform a manual segmentation step.

- Don't Miss This Key Article: "Advanced Imaging Prompts Treatment Changes for Nearly Half of High-Grade Glioma Patients". [Read article](#)

Dr. Jennifer Connelly, the lead investigator on the Gallium Maltolate Phase 1 trial, will be presenting at the Medical College of Wisconsin's Department of Neurology's 50th Anniversary, Celebrating the Advances in Neurological Care.

Saturday, September 21st, 2024 | 8am – 4pm



[Register Here](#)

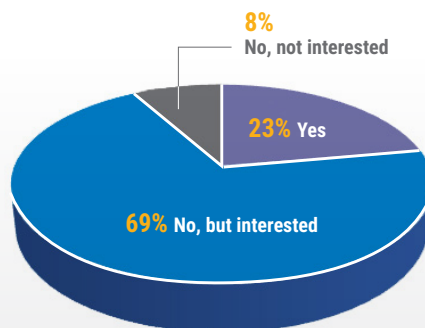
EXPANDED ACCESS PROGRAM UPDATE



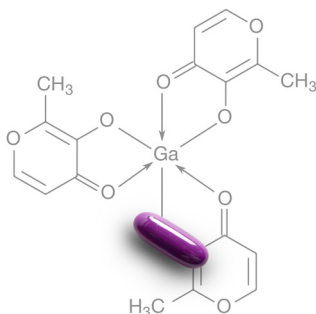
Imaging Biometrics is proud to announce that we have secured approval from the FDA (Food and Drug Administration) for an Expanded Access Program (EAP). The EAP is open to physicians whose patients have exhausted standard-of-care therapies and fit the eligibility criteria. We are working closely with eligible patients to help them navigate the on-boarding process and are providing resources and information to help them cover the costs of the EAP.

ASFNR 2024 SURVEY

In a recent poll conducted at last month's American Society of Functional Neuroradiology (ASFNR) meeting, 92% of respondents are interested in Fractional Tumor Burden DSC Imaging.



Have You Adopted Fractional Tumor Burden Analysis of DSC?



GALLIUM MALTOLATE CLINICAL TRIAL UPDATES

The Phase 1 clinical trial is in its final stages at The Medical College of Wisconsin. As soon as all the results are available, an End of Phase 1 ("EOP1") meeting will be held with the US Food and Drug Administration.

[Click here to see preliminary results](#)

IB USER'S GROUP WEBINAR

TITLE:

Quantitative DSC Perfusion Class Maps "FTB" – Fractional Tumor Burden

DATE:

**September 24, 2024
Noon CDT**

FTB maps compute and display the % of contrast enhancement that is recurring high-grade glioma. These maps are color coded based on voxel metrics and perfusion cut-off thresholds that have been validated with tissue biopsy samples (red for high grade tumor, blue for treatment effect, and yellow for indeterminate).

PRESENTED BY:

Mike Schmainda,
CEO, Imaging Biometrics



[Register Here](#)

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