

Department of Biomedical Sciences Newsletter

Congratulations to **Dr. Ben Harrison** on being promoted to Associate Professor with tenure.

Congratulations to **Dr. Doug Spicer** on being promoted to Professor (tenure).

Congratulations to **Dr. Katie Becker** for a successful third year Assistant Professor RPT review.

Congratulations to **Dr. Eliza Grlickova-Duzevik** for a successful third year Assistant Clinical Professor RPT review.

Congratulations to **Prof. Joel Talsma** for a successful third year Assistant Clinical Professor RPT review.

Congratulations to **Dr. Ling Cao** on being awarded a *UNE mini-grant* titled "Determine the contribution of Tollip-regulated Toll-like receptor pathways in HIV Tat-associated sensory neuropathy".

Congratulations to **Dr. Harry Filippakis** on being awarded a *UNE mini-grant* titled "Investigating the role of macropinocytosis in lysosomal metabolism of mTORC1-hyperactive cells".

Congratulations to **Dr. Luis Queme** on being a presenter at the 50th Maine Biological and Medical Sciences Symposium on Friday, April 21, 2023

Welcome to two new DBMS faculty members:

Tyler Redway, PhD

Geoffrey McCullen, MD

Faculty meeting dates:

- July 26, 2023; 1-2 pm
- August 23, 2023; 1-2 pm
- September 27, 2023; 1-2 pm

Feel free to send any agenda items for discussion at our faculty meeting to Angela Morse.

2023 UNE COM Seminars:

All seminars hosted by the department will be posted on our seminar link on our site: <https://sites.une.edu/biomedicalsciences/seminar-series/>

Shared Governance Meetings:

UFA

Wednesday, July 19
via Zoom, 12-2pm

Wednesday, August 16
via Zoom, 12-2pm

Wednesday, September 20
via Zoom, 12-2pm

COMFA

Wednesday, July 26
12-1pm

Thursday, August 17
12-1pm

Wednesday, September 27
12-1pm

NOTE: Publication costs for papers which have COM students as authors are eligible to be considered for up to \$250/student by the [SGA's educational enhancement fund](#) (link enabled). These requests are vetted by the finance committee of the SGA and processed by RSAS.

Please join me in welcoming **Drs. Geoffrey McCullen** and **Tyler Redway** as the newest faculty members in the Department of Biomedical Sciences.



<https://www.regenerativemedicineno.com/doctor/dr-geoffrey-m-mccullen-m-d-m-s/>

Dr. Geoff McCullen is a fellowship trained orthopedic spine surgeon and a clinical anatomist. He is certified by the American Board of Orthopedic Surgery and is a fellow of the American Academy of Orthopedic Surgeons. Educated at Williams College (BA, Chemistry), he received a United States Navy Health Professions Scholarship to attend the Case Western Reserve School of Medicine, graduating with distinction. Dr. McCullen completed surgical internship/residency (University of Texas Southwestern), orthopedic residency (Dartmouth), and spine fellowship (State University of New York). He then served on active duty as the chief of spine surgery, director of research and orthopedic faculty member at the Naval Medical San Diego and the University of California San Diego before establishing a multidisciplinary spine private practice in Lincoln, Nebraska in 1999. In 2013, Dr. McCullen earned a Master of Healthcare Delivery Science at Dartmouth College, Tuck School of Business. In 2014, he founded OneHealth Nebraska, an independent physician association with more than 300 members. In 2017, Dr. McCullen moved to Maine and joined the VA serving veterans with orthopedic and spine problems. He has served as the Surgical Preceptor for medical students and the Chief of Orthopedics at VA Maine. He has coauthored a book, Hip and Knee Replacement, A Patient's guide (WW Norton Publishers) and authored 9 chapters in spine surgery textbooks and 17 articles in peer reviewed medical journals. He serves on the Editorial Review Board for The Spine Journal.



<https://www.linkedin.com/in/tyler-redway-62567723b>

Dr. Redway is a triple graduate of The Ohio State University, where he focused on teaching human anatomy to all levels of students and expanding the Division of Anatomy's Anatomy Outreach Program. This program's primary objective was to reach high school-level students in anatomy and physiology classrooms and provide them with a hands-on learning experience in the donor lab. These outreach sessions provide students with opportunities to learn about human anatomy outside of the textbook, interact with content experts, and learn about related education and career opportunities. Through this work, he found a passion for teaching and creating a safe space for more people to learn about the wonders of the human body. His research has focused on the presence and methods of existing Anatomy Educational Outreach Programs (AEOPs) in the United States and some of the impacts of the OSU AEOP on students' interests and attitudes toward human anatomy. At UNE, he hopes to continue this work with the community so that he may expand our understanding of AEOPs, how they operate and impact our participants, and build resources for new and existing programs.

[Faculty / Student / Staff Highlights:](#)

[New Peer-Reviewed Publications \(from PubMed \(links enabled\)\)](#)

[The Struggle Is Real: Breaking Barriers that Limit Student Success.](#)

Haight MA, Bahner I, Belovich AL, Bonaminio G, Brooks WS, Chin C, Habal S, El-Sawi N, Haudek SB, Ikonne U, McAuley RJ, McKell D, Porter R, **Rowe R**, Taylor TAH, Thesen T.

Med Sci Educ. 2023 Jan 18;33(1):311-315.

doi: 10.1007/s40670-023-01732-z

Invited Publication:

[Fixation methods and immunolabeling for cilia proteins in ciliary and extraciliary locations.](#)

Hua K, **Ferland RJ**.

Methods Cell Biol. 2023 Feb 24;176:43-57.

doi: 10.1016/bs.mcb.2023.01.002

[Preparation of Primary Mixed Glial Cell Cultures from Adult Mouse Spinal Cord Tissue.](#)

Cao L, Bean EN, Malon JT.

Curr Protoc. 2023 Apr;3(4):e743.

doi: 10.1002/cpz1.743

[Forgotten Branch of the Intercostal Nerve: Implication for Cryoablation Nerve Block for Pectus Excavatum Repair.](#)

Talsma J, Kusakavitch M, Lee D, Niederhauser C, Palmer B, Ozgediz D, Idowu O, Kim S.

J Pediatr Surg. 2023 May 16:S0022-3468(23)00294-4.

doi: 10.1016/j.jpedsurg.2023.05.006

[Supervised interprofessional student pain clinic program - efficacy with the utilization of zoom.](#)

Dao B, **Cao L**.

Front Pain Res (Lausanne). 2023 May 23;4:1144666.

doi: 10.3389/fpain.2023.1144666

[Thermoneutral housing does not rescue olanzapine-induced trabecular bone loss in C57BL/6J female mice.](#)

Langlais AL, Mountain RV, Kunst RF, Barlow D, **Houseknecht KL**, Motyl KJ.

Biochimie. 2023 May 24:S0300-9084(23)00098-6.

doi: 10.1016/j.biochi.2023.05.002.

Faculty Achievements:

Congratulations to **Drs. Ling Cao and Kin Ly** on being mentors to students at the Interprofessional Student Showcase on April 26, 2023 for the following work:

Leaving Home with Broken Bones: A Case Reflection

PHIT Team 1

Haley Gagne, DPT

Sarah Kohl, Med Bio

Aniqa Rahman, COM

Kyra Smith, COM

Faculty Mentors: **Ling Cao, MD, PhD**

Kin S. Ly, PharmD, EdD

Adaptation of Public Health Problem Solving Paradigm In Interprofessional Training

PHIT Team 3

Rachel Bordonaro, COM

Diana Nguyen, NUR

Stephanie Stanley, COM

Faculty Mentors: **Ling Cao, MD, PhD**

Kin S. Ly, PharmD, EdD

Interprofessional Collaboration Addressing the Public Health Paradigm

PHIT Team 2

Carla Champagne, COM

Dengyumei Du, COM

Alexandra Kennie, DPT

Macy Punzalan, CDM

Faculty Mentor: **Ling Cao, MD, PhD**

Interdisciplinary Management of a Complex Patient Post-CVA

PHIT Team 4

Kaylee Dixon, COM

John Kaminski, DPT

Camille Mulcahy, COM

Lacie Reed, MPH-S

Faculty Mentor: **Ling Cao, MD, PhD**

Regional/National/International Presentations

Oral Presentations:

Frank Willard, PhD was an invited speaker at an Osteopathic Congress in Lyon, France on Cerebral Palsy.

Frank Willard, PhD was an invited speaker at an Osteopathic Congress in Berlin, Germany on Joint Innervation. He also ran a 2-day workshop on Joint Anatomy.

New Funding

Congratulations to **Dr. Ling Cao** on being awarded an NIH NNE-CTR UVM Subaward titled “Identification of gaps in care for patients with chronic pain through the establishment of a state-wide pain registry in Maine.”

Other News:

Congratulations to **Dr. Ling Cao** for being invited to serve as a Standing Member of the NIH Drug Discovery and Molecular Pharmacology B Study section.