



Joan E. Adamo, PhD
University of Rochester

Dr. Joan E. Adamo is the Director for Regulatory Support Services at the University of Rochester and is located in the Clinical and Translational Science Institute. There she provides advice and guidance on clinical and basic research projects and serves as an FDA liaison for University investigators working on Industry-Sponsored and Sponsor-Investigator clinical studies. This includes supporting researchers in IDE- and IND-governed clinical studies, managing a framework for preclinical GLP compliance within the University of Rochester and at external University collaborators, and leading the University efforts to foster a culture of quality by establishing elements of a quality system in basic and translational research. As part of the Regulatory Science program at the University of Rochester, Joan co-leads the ***America's Got Regulatory Science***

Talent student competition, mentors students, teaches BME431 and BME432 a two-part series focused on FDA regulation of and intellectual property issues for medical devices and therapeutics, and serves in an advisory role for the Regulatory Science curriculum.

Prior to joining the University, Dr. Adamo served as a researcher and regulator at the Center for Biologics Evaluation and Research in the U.S. FDA. As a credentialed FDA inspector, she audited national and international vaccine manufacturers. Her work in the Division of Viral Products at the FDA was focused on the research and approval of viral vaccines such as Influenza, Smallpox and West Nile Virus. Previously, she performed research as a Leukemia and Lymphoma Society Fellow studying human cytomegalovirus with Thomas Shenk at Princeton University. Dr. Adamo received her BS in Biochemistry from Cornell University and her PhD in molecular genetics studying with Patrick Brennwald from Cornell Medical College.



Hani Awad, PhD*
University of Rochester

Dr. Awad is Professor of Biomedical Engineering and Orthopaedics in the Center for Musculoskeletal Research at the University of Rochester and Director of the Biomechanics, Biomaterials, and Molecular Imaging Core, Center for Musculoskeletal Research. He leads a nationally recognized, research program focused on musculoskeletal tissue engineering with emphasis on challenging clinical problems and translational solutions involving stem cells and biomaterials. Since 2009, he has been among the Top 100 NIH-funded investigators in orthopaedic research. He authored more than 100 peer-reviewed publications, 5 book chapters, and more than 150 conference papers and proceedings. He received several honors including the Kappa Delta Award in 2007 from the Orthopaedic Research Society and the American Academy of Orthopaedic Surgeons for his work on Functional Tissue Engineering for

Tendon Repair, and has recently been inducted into the American Institute of Medical and Biological Engineers College of Fellows for his contributions to the field of Tissue Engineering. He is a member of the Editorial Review Boards of the *Journal of Orthopaedic Research* and the *Journal of Bone and Mineral Research*. In addition, he is a standing member of the Skeletal Biology Structure and Regeneration Study Section of the Center for Scientific Review at the National Institutes of Health.

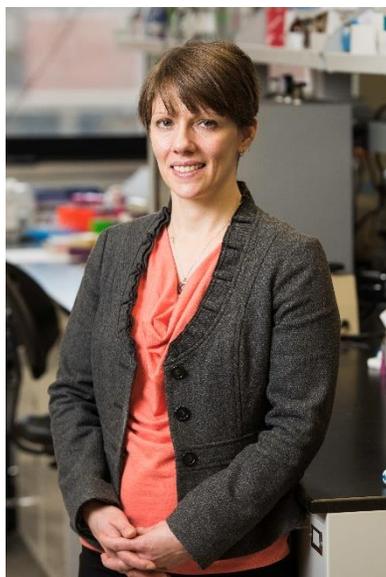
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Tracey Baas, PhD
University of Rochester Medical Center

Dr. Baas has unusually broad research experience, receiving her PhD in Organic Chemistry and postdoctoral training in Microbiology and Systems Biology. She subsequently worked as Associate and Senior Editor for several years at Science-Business eXchange - a publication of Nature Publishing Group - prior to joining UR. She personally exemplifies the kind of career path the URBEST (Broadening Experiences in Scientific Training) program supports and encourages, and is currently an Assistant Professor at UR SMD. To say she loves talking about science or graduate

education is an understatement. She also spends a lot of time participating in science communication founded on the idea of improvisation. Yes, improv! That's how she managed to create and maneuver that wild, winding career path and to offer counsel for others to do the same.



Danielle Benoit, PhD*
University of Rochester

Danielle Benoit is Associate Professor within the Department of Biomedical Engineering with appointments also in Chemical Engineering and the Center for Musculoskeletal Research at the University of Rochester. She directs the Therapeutic Biomaterials Laboratory, which specializes in the rational design of polymeric materials for regenerative medicine and drug delivery applications. Her work has provided insights into the translation of tissue engineering strategies for bone allograft repair, development of pH-responsive nanoparticles for nucleic acid and small molecule drug delivery, and novel targeting strategies for bone-specific delivery of therapeutics. Prof. Benoit has received numerous awards for her research program including the 2016 Rochester Young Engineer of the Year Award, 2015 Young Innovator Award in Cellular and Molecular Bioengineering, an NSF CAREER Award, and Alex's Lemonade Stand Young Investigator Award. Prof. Benoit received her undergraduate degree in Biological Engineering from the University of Maine and M.S. and Ph.D. in Chemical Engineering

from the University of Colorado, where she was mentored by Dr. Kristi Anseth. She then trained at the University of Washington where she was a Damon Runyon Cancer Research Foundation Postdoctoral Fellow, working with Drs. Patrick Stayton and Allan Hoffman. Prof. Benoit joined the faculty at the University of Rochester in 2010.

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Larry Bonassar, PhD*
Cornell University

Dr. Bonassar is Professor of the Meinig School of Biomedical Engineering and the Sibley School of Mechanical and Aerospace Engineering. He received his bachelor's degree from the Departments of Biomedical Engineering and Materials Science and Engineering from the Johns Hopkins University. He received both his masters and doctoral degrees from the Department of Materials Science and Engineering at MIT. He completed postdoctoral training in the Department of Orthopaedic Surgery at Massachusetts General Hospital. He was an Assistant Professor in the Center for Tissue Engineering at University of Massachusetts Medical School from 1997 to 2003, prior to joining the faculty at Cornell. He was one of the founding members of the Department of Biomedical Engineering at Cornell and served as Associate Chair from 2005-2014. Dr. Bonassar's research focuses on cartilage biomechanics and tissue engineering. His work is aimed at understanding structure-property relationships in cartilage to elucidate mechanisms of disease and inform design of tissue replacements. His research focusing on tissue regeneration includes the development of tissue injection molding and 3D tissue printing

aimed at scale-up and manufacturing of high fidelity living implants design based on medical imaging. His work on regenerative medicine has been featured in the Health and Science Section of the *Washington Post*, National Geographic's *Explorers*, BBC's *Horizons*, CBC's *The Nature of Things*, CBS's *Sunday Morning*, and CNN's *Fareed Zakaria GPS*.



Brendan F. Boyce, MB.ChB
University of Rochester Medical Center

I am a Professor of Pathology and Laboratory Medicine and Orthopaedics in the Department of Pathology and Laboratory Medicine and Center for Musculoskeletal Research. I received my medical degree from Glasgow University in Scotland in 1972 and completed residency training in Pathology at the University in 1979. My research focus between 1976 and 1986 was clinical, reading slides and doing histomorphometry on undecalcified bone biopsy specimens from patients with metabolic bone diseases, particularly renal osteodystrophy and Paget's disease. During 1986 to 1988, I spent a 2-year sabbatical in Greg Mundy's lab in San Antonio Texas learning to do experimental research, and returned from Glasgow in 1990 to take up a faculty position in pathology in San Antonio. This desire to do bench work was inspired by a fabulous presentation made by Greg on the vicious cycle of bone destruction by osteoclasts in response to metastatic breast cancer cells and the release of growth factors from resorption sites that promoted cancer cell growth and

release by the cancer cells of what turned out to be PTHrP, which stimulates osteoclast formation and activation through RANKL. In 1999, I moved to the University of Rochester Medical Center to be professor of pathology and the director of Surgical Pathology and have been there since. My research currently focuses on the roles of NF-kappa B signaling in osteoclast and osteoblast formation in inflammatory and other common bone diseases, and my clinical sub-specialty is bone and soft tissue pathology.

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Mark Buckley, PhD*
University of Rochester

Mark Buckley is an Assistant Professor of Biomedical Engineering. He received his B.S. in Physics from Haverford College, where he trained with Dr. Jerry Gollub, in 2001. After teaching English for China for a year and working in the Radiation Epidemiology branch of the National Cancer Institute for an additional year, he joined Dr. Itai Cohen's laboratory at Cornell University and received his Ph.D. in Physics in 2010. Dr. Buckley then transitioned fields and in 2012, completed his post-doctoral training at the University of Pennsylvania in the Department of Bioengineering under Dr. Louis Soslowsky. He joined the faculty of the Department of Biomedical Engineering at the University of Rochester in January of 2013. Through his training and as an independent investigator, he has studied diverse topics ranging from three-dimensional tracking of swimming bacteria to the biomechanics of the cornea. Dr. Buckley is currently interested in the role of cell and

tissue scale mechanical deformations in the pathogenesis and treatment of diseases, especially those affecting cartilage, tendon and the cornea. His laboratory seeks to find ways to exploit the complex nonlinear, anisotropic, viscoelastic and poroelastic properties of these soft biological tissues to diagnose pathology, guide rehabilitation protocols and evaluate treatment strategies in diseases ranging from osteoarthritis to keratoconus. Dr. Buckley's research is funded by the National Institutes of Health (NIH) and the American Orthopaedic Foot and Ankle Society (AOFAS).



Joe Chakkalakal, PhD*
University of Rochester Medical Center

Dr. Joe V. Chakkalakal is an Assistant Professor in the Department of Orthopaedics and Rehabilitation, Center for Musculoskeletal Research at the University of Rochester Medical Center, Rochester New York USA. He earned his PhD in Cellular and Molecular Medicine from the University of Ottawa, Ottawa Ontario Canada. Dr. Chakkalakal did postdoctoral fellowships at Harvard University and Massachusetts General Hospital Center for Regenerative Medicine, Boston Massachusetts USA. His research explores the regulation and contributions of stem cells to skeletal muscle atrophy, age related wasting (sarcopenia) and regeneration. Specifically, his laboratory utilizes targeted genetics and injury models to determine how molecules of interest affect stem cell maintenance, fate and skeletal muscle regenerative capacity.

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David T. Corr, PhD*
Rensselaer Polytechnic Institute

David T. Corr is an Associate Professor of Biomedical Engineering at Rensselaer Polytechnic Institute in Troy, NY. He received his B.S. and M.S. degrees in Engineering Mechanics & Astronautics, and after working as a consultant at NASA's Jet Propulsion Laboratory, he returned to the University of Wisconsin to earn his M.S. in Biomedical Engineering and Ph.D. in Mechanical Engineering. Dr. Corr was an Alberta Ingenuity Fund Postdoctoral Fellow in muscle physiology and modeling at the Human Performance Laboratory, and the Ernst & Young Fellow in Joint Injury and Arthritis Research, at the McCaig Centre, University of Calgary. Dr. Corr joined the faculty at Rensselaer Polytechnic Institute in 2006, and is currently an Associate Professor in the Department of Biomedical Engineering. His research specializes in: (i) laser-based biofabrication techniques to engineer cellular microenvironments to direct stem cell fate, and model systems for *in vitro* diagnostics, (ii) developing cell-based strategies for creating

musculoskeletal soft tissue replacements, and (iii) soft tissue mechanics across various length scales. Dr. Corr's laboratory aims to understand the impact of various environmental and developmental stimuli on cell behavior and fate decisions, and to exploit these to improve functional tissue engineering.



Lisa Fortier, DVM, PhD*
Cornell University

Lisa A. Fortier is the James Law Professor of Surgery at Cornell University in Ithaca, NY. Her combined passion for horses and athletics have paved a natural path for her career choices. She received her DVM from Colorado State University and completed her PhD and surgical residency training at Cornell University. She is boarded with the American College of Veterinary Surgeons and practices equine orthopedic surgery at Cornell University in Ithaca, New York and at the Cornell Ruffian Equine Specialists in Elmont, New York. Her laboratory has a particular interest in translational research including the prevention of post-traumatic osteoarthritis. In addition, Lisa's research program investigates the clinical application of stem cells and biologics such as platelet rich plasma and bone marrow concentrate for cartilage repair and tendinosis. She has received the Jacques Lemans Award from the International Cartilage Repair Society, the New Investigator Research Award from the Orthopaedic Research Society, and the

Pfizer Research Award for Research Excellence from Cornell University. Lisa is the Vice President of the International Veterinary Regenerative Medicine Society, Past President of the International Cartilage Repair Society, and Director of the Equine Park at Cornell University.

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**Michele J. Grimm, PhD
National Science Foundation**

Michele J. Grimm, Ph.D., currently serves as Program Director for the Engineering of Biomedical Systems (EBMS) and Disability and Rehabilitation Engineering (DARE) Programs at the National Science Foundation. She remains on faculty in the Department of Biomedical Engineering in the College of Engineering at Wayne State, where she also holds an adjunct appointment in the Department of Orthopaedic Surgery in the School of Medicine. Dr. Grimm completed her B.S. in Biomedical Engineering and Engineering Mechanics at The Johns Hopkins University in 1990 and her Ph.D. in Bioengineering at the University of Pennsylvania in 1994. Her graduate work focused on orthopaedic biomechanics, and this carried over to her roles at Wayne State, where she served as Director of Orthopaedic Biomechanics for the Department of Orthopaedic Surgery from 1997 through 2010. Since joining Wayne State in 1994, a significant portion of her research has involved injury biomechanics – from characterizing important tissue properties to developing appropriate models for the assessment of injury mechanisms. For the past 15 years, that work has focused on the biomechanics of neonatal brachial plexus injuries. She has had the privilege of working with obstetricians to develop computer models of a process for which patient-based clinical studies are not appropriate. The work has provided an understanding of the pathomechanics of this injury, supporting the results that have been found through epidemiological and case study based research. She recently served on the American College of Obstetricians and Gynecologists Task Force on Neonatal Brachial Plexus Palsy, which was charged with compiling the current state of evidence in the area of NBPP (with a focus on the cause of the injury) and identifying key gaps in knowledge in the area.

In addition to her scientific research, Dr. Grimm has spent a large part of her career focused on curriculum development and enhancement of student learning in engineering. She established both the graduate and undergraduate programs in biomedical engineering at Wayne State. She currently serves as a commissioner to the Engineering Accreditation Commission of ABET and has been a program evaluator for many years. Michele Grimm is a Fellow of ASME, and served as Division Chair for the Bioengineering Division of ASME from 2012 to 2013. She has also served on the executive board of the Bioengineering Division of ASEE and has served in several leadership roles within BMES.

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Farshid Guilak, PhD*
Past-President, Orthopaedic Research Society
Washington University in St. Louis

Dr. Farshid Guilak is Professor of Orthopaedic Surgery at Washington University Director of Research, Shriners Hospitals for Children in St. Louis, and co-director of the Washington University Center of Regenerative Medicine. Dr. Guilak completed his B.S. and M.S. degrees in Biomedical Engineering from Rensselaer Polytechnic Institute, and then a second Master's degree and Ph.D. in Mechanical Engineering from Columbia University. Following his Ph.D., he started his faculty career at the State University of New York at Stony Brook, and then moved to Duke University, where he was on the faculty for 22 years as the Laszlo Ormandy Professor and Director of Orthopaedic Research. He relocated his laboratory to Washington University in 2016, where is a Professor in the Departments of Orthopaedic Surgery, Developmental Biology, and Biomedical Engineering. His laboratory is pursuing a multidisciplinary approach to investigate the etiology and pathogenesis of various musculoskeletal diseases – particularly osteoarthritis – as a basis for developing

new bioengineering-based therapies. He has published over 300 articles in peer-reviewed journals and has co-edited four books. He is the Past-president of the Orthopaedic Research Society, Past Chair of SBSR NIH Study Section, and the only PhD member of the Board of Trustees and Executive Committee of the Orthopaedic Research and Education Foundation. Dr. Guilak is the editor-in-chief of the *Journal of Biomechanics*, Associate editor for *Osteoarthritis & Cartilage*, and serves on several other journal editorial boards. He has won several national and international awards for his research, including two Kappa Delta Awards from the American Academy of Orthopaedic Surgeons, the Borelli Award from the American Society of Biomechanics, the Cell and Molecular Bioengineering Innovator Award of the Biomedical Engineering Society, the Marshall Urist Award of the ORS, the Nicolas Andry Award from the AJBS, and the Basic Science Research Award of the Osteoarthritis Research Society International, as well as three separate mentoring awards. He is also the Founder and President of Cytex Therapeutics, a startup company focusing on developing new regenerative medicine therapies for musculoskeletal conditions.

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Rita Kandel, MD, FRCPC*
Mount Sinai Hospital

Rita Kandel MD FRCP(C) obtained her medical degree and did her Pathology residency at the University of Toronto. She did postdoctoral fellowships at Tufts University and Harvard University in Boston. She is currently the **Chair of the Department of Laboratory Medicine and Pathobiology at the University of Toronto and Chief of Department of Pathology and Laboratory Medicine** at Sinai Health System. Her research has focused on utilizing regenerative medicine approaches to develop biological treatments for back pain and arthritis. She has published over 240 papers and multiple book chapters. Among other numerous honours and awards, Dr. Kandel is a Fellow of the Canadian Academy of Health Sciences.



Catherine K. Kuo, PhD*
University of Rochester
ORS Ambassador – Northeast
ORS Regional Symposium Organizer

Catherine K. Kuo is an Associate Professor in the Department of Biomedical Engineering, Department of Orthopaedics, and the Center for Musculoskeletal Research at the University of Rochester in Rochester, NY. She received her B.S.E. in Materials Science and Engineering and Ph.D. in Biomaterials and Macromolecular Science and Engineering from the University of Michigan, Ann Arbor, and completed her Postdoctoral Fellowship in the Cartilage Biology and Orthopaedics Branch of NIAMS at the NIH in Bethesda. Her research focuses on elucidating biophysical and biochemical mechanisms of embryonic tendon development and healing, and using these findings to inform novel tendon tissue engineering and regenerative medicine strategies. Professor Kuo has received numerous international and national accolades for her research, including the Go:Life Award for Innovation in Research (2015), *Stem Cell Research and Therapy* Emerging Investigator Award (2015), NSF CAREER Award (2013), and March of Dimes Basil O'Connor Starter Scholar Research Award (2011). Her research has been continuously funded by the NIH, DoD, NSF, foundations, and industry. She serves on the editorial review board for the *Journal of Orthopaedic Research* and the advisory council for the International Society of Ligaments and Tendons. She has chaired conferences, symposia, workshops, and tracks for Fusion, ORS, World Congress of Biomechanics, TERMIS, and BMES. She is currently Chair of the ORS Tendon Section Research Committee, Co-chair of the Regenerative Medicine Topic for the ORS Program Committee, and an ORS Ambassador. As an ORS Ambassador, she organized the 1st ORS Regional Symposium in 2017 for the Northeast / New York region.

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Alayna E. Loiseau, PhD*
University of Rochester Medical Center

I am currently an Assistant Professor in the Department of Orthopaedics & Rehabilitation and Center for Musculoskeletal Research (CMSR) at the University of Rochester Medical Center. My lab is focused on fundamental cell and molecular biology of scar-mediated tendon healing, and disruptions in tendon homeostasis leading to tendinopathy, with the overarching goal of rationale identification of therapeutic targets. I completed my PhD in Pathology in the CMSR and identified the role of bone marrow derived cells in scar-mediated tendon healing. I then completed a Post-doctoral Fellowship at Penn State College of Medicine focused on the roles of gap junction communication and surface topography in bone regeneration.



James L. McGrath, PhD
University of Rochester

Dr. McGrath is Professor of Biomedical Engineering at the University of Rochester. After graduating from Arizona State with a BS degree in Mechanical Engineering, Professor McGrath earned a Master's degree in Mechanical Engineering from MIT in 1994 and a PhD in Biological Engineering from Harvard/MIT's Division of Health Sciences and Technology in 1998. He then trained as a Distinguished Post-doctoral Fellow in the Department of Biomedical Engineering at the Johns Hopkins University. Since 2001, Professor McGrath has been on the Biomedical Engineering faculty at the University of Rochester where he directed the graduate program in BME for a decade and now serves as the Associate Director of the microfabrication and metrology core (URNano). While historically, Professor McGrath's research was focused on the phenomena of cell migration, since 2007 he has been leading an interdisciplinary, multi-institutional team that is developing and applying ultrathin membrane technologies (nanomembranes). Professor McGrath is a co-founder and past president of SiMPore Inc., a company that develops and sells the nanomembrane technology originating at Rochester. In 2015 he was elected as a fellow of the American Institute for Medical and Biological Engineering (AIMBE).



J. Edward Puzas, PhD*
University of Rochester

Dr. J. Edward Puzas is the Donald and Mary Clark Professor of Orthopaedics at the University of Rochester. Dr. Puzas' research interests span all areas of bone, cartilage, orthopaedics and oral biology, especially at the cellular and molecular level. Research from his laboratory is aimed at translational approaches that extend discoveries made at the lab bench to higher order life forms. He currently has active programs that examine the molecular mechanisms by which environmental agents affect skeletal health as well and the discovery of new signaling pathways that control bone formation during the remodeling process. He is also currently heading two clinical trials related to these lines of investigation. Understanding the cellular and molecular mechanisms of these effects will open new possibilities for diagnosis and treatment of bone diseases. Dr. Puzas was trained with a B.S. degree from the University of Massachusetts and a M.S. and Ph.D. from the University of Rochester. He was an endocrinology fellow at Yale

University. He currently holds the Donald and Mary Clark Chair in Orthopaedics at the University of Rochester School of Medicine. He is also the former Senior Associate Dean for Research at that institution. Dr. Puzas has been a past president of the Orthopaedic Research Society and the United States Bone and Joint Decade.



Edward Schwarz, PhD*
University of Rochester Medical Center

Edward (Eddie) Schwarz is currently the Burton Professor of Orthopaedics, and the Director of Center for Musculoskeletal Research, at the University of Rochester, Rochester, NY, USA. He received his PhD degree in Microbiology & Immunology from the Albert Einstein College of Medicine, New York, NY (1993), and completed his Postdoctoral Fellowship at the Salk Institute, La Jolla, CA (1997), before joining the faculty at the University of Rochester. As an osteoimmunologist his primary research focuses on inflammatory bone loss seen in rheumatoid arthritis, osteomyelitis, and wear debris-induced osteolysis. He received several awards, including Fellowships from the Arthritis Foundation & National Multiple Sclerosis Society, the ORS Harris Award (2003), the AAOS Kappa Delta (2005), MTF Neff Award (2009) and the Richard Brand Award (2015). He has served on various NIH Study Sections and currently serves as a standing member of the Musculoskeletal Tissue Engineering (MTE) Study Section, Chaired the Orthopaedic Research and

Education Foundation Basic Science Study Section, and served as an editorial board member for *Arthritis Research & Therapy*, *Arthritis & Rheumatism*, and *the Journal of Bone and Mineral Research*. Several foundations, industry, the DoD and 28 NIH grants have supported his research. He has published 274 original articles and 10 book chapters. He is a named inventor on 12 patents, and founded 3 spinoff companies. He joined the ORS in 2000, and has served on the Nominating Committee (2012-2014), Chair of the Media Relations Committee (2006-2008), Chair of the New Initiatives Committee (2011-2012), and served as a member of the Board of Directors (2006-2008; 2010-2012). He is currently Chair Elect of the Publication Advisory Board.

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**Fei Wang, PhD
 NIAMS-NIH**

Dr. Fei Wang is the director of the Musculoskeletal Tissue Engineering and Regenerative Medicine Program in the Division of Musculoskeletal Diseases, National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), National Institutes of Health (NIH).



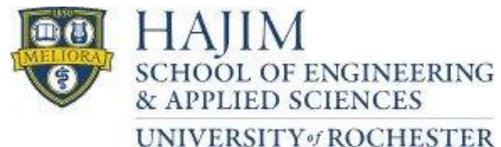
**Michael Zuscik, PhD*
 University of Rochester Medical Center**

Mike Zuscik is an Associate Professor in the Department of Orthopaedics and in the Center for Musculoskeletal Research at the University of Rochester. Since 2003, Mike has been studying fracture healing, cartilage biology and osteoarthritis, with his research spanning from basic molecular and cell biology in these contexts, to the execution of human clinical trials to test candidate disease modifying treatments for osteoarthritis. His recent focus has been on targeting the gut microbiome for the treatment of osteoarthritis and delayed fracture healing in obesity, and he is conducting a phase 2, placebo-controlled clinical trial to evaluate the therapeutic potential of teriparatide as a chondroregenerative treatment in early stage osteoarthritis. Mike is an active educator, both at the University of Rochester where he serves as the director of the education program in the Center for Musculoskeletal Research and lectures in

biomedical engineering, toxicology and pathology courses, and at Monroe Community College where he teaches introductory biology courses in the evening division.

*Names with a * indicates an ORS member.*

Thank you to the following supporters of the symposium:



Thank you to University of Rochester Department of Orthopaedics and Department Biomedical Engineering for their generous support of the symposium.