

2019 PBRG Satellite Meeting Speaker Biographies



Anibal Diogenes, DDS, MS, PhD

University of Texas Health Science Center at San Antonio

Dr. Anibal Diogenes received his D.D.S. from UFPE in Brazil, his M.S. in Molecular Biology from the University of Nebraska, and his Ph.D. in Pharmacology and Certificate in Endodontics from the University of Texas Health Science Center at San Antonio. Dr. Diogenes is the director of the endodontic residency program and Vice-Chair in the department of Endodontics at the University of Texas Health Science Center at San Antonio. His areas of research include, inflammation, pain and regenerative endodontics. He is also an Associate Editor for the Journal of Endodontics and a Diplomate of the American Board of Endodontics.



Ashraf Fouad, DDS, MS

University of North Carolina

Dr. Ashraf Fouad obtained his DDS, Certificate of Endodontics and MS at the University of Iowa. He served as Assistant, then Associate Professor of Endodontology at the University of Connecticut Health Center from 1992–2004, and as Chair of the Department of Endodontics, Prosthodontics and Operative Dentistry at the University of Maryland, from 2005–2015. He has been Freedland Distinguished Professor and Chair of Endodontics at the University of North Carolina since 2016. Dr. Fouad has published over 70 manuscripts, 20 textbook chapters, over 130 abstracts, and edited and co-authored the textbooks: Endodontic Microbiology (now in its second edition) and the fifth edition of Endodontics: Principles and Practice. He is a Diplomate and Past President of the American Board of Endodontics, and an Associate Editor of the Journal of Endodontics. In 2017, he received the Distinguished Scientist Award from the Pulp Biology and Regeneration Group of IADR.



Athina Bakopoulou, DDS, PhD

Aristotle University of Thessaloniki

Dr. Athina Bakopoulou is an Assistant Professor at the Department of Prosthodontics of the School of Dentistry, Faculty of Health Sciences of the Aristotle University of Thessaloniki, (A.U.Th) in Greece. Since 2009 she is a Visiting Research Fellow at the Department of Conservative Dentistry, Periodontology and Preventive Dentistry of the Medical University of Hannover (MHH) in Germany. Her published work includes more than 30 original research papers in international peer-review journals focusing in the fields of dental tissue engineering and biocompatibility of dental materials, as well as several book chapters on Prosthodontics and Regenerative Dentistry. She has been serving as regular Reviewer for several distinguished international scientific journals, including Journal of Dental Research, Dental Materials, Clinical Oral Investigations, Archives of Oral Biology, Stem Cells International, Stem Cells and Development, PLoS One etc. She has presented her research and clinical work in more than 120 international and national meetings and conferences and has been the recipient of significant awards, including the first award at the 11th (Crete, Greece, 2005) and 12th (Fukuoka, Japan, 2007) Meeting of the International College of Prosthodontists (ICP), as well as the Senior Robert Frank Award at the 44th IADR-CED Meeting (Munich, Germany, 2009), as well as the 96th IADR-General Session Meeting (London, UK, 2018). She is the national representative of the Young Scientists Forum (YSF) of the European Society of Biomaterials (ESB) and member of the organizing committee of the 28th Annual ESB Conference, 4-8 September, Athens, Greece. She is currently principal investigator of several on-going research projects on dental tissue regeneration, oral stem cells and biological responses to biomaterials.



Brian Johnstone, PhD, FIOR, FORS
Oregon Health & Science University

Dr. Brian Johnstone is the Research Director in Orthopaedics and Rehabilitation at Oregon Health & Science University, Portland. His research is focused on the biology and regeneration of musculoskeletal tissues. He did his predoctoral research at the Kennedy Institute of Rheumatology, London, England and postdoctoral work at West Virginia University and UNC-Chapel Hill. As a faculty member at Case Western Reserve University he developed the in vitro system for the chondrogenic induction of adult stem cells. He has served as the President of the Orthopaedic Research Society and was elected into the inaugural class of Fellows of International Orthopaedic Research (FIOR), and that of the Orthopaedic Research Society Fellows (FORS). In 2017 he was awarded the Marshall R. Urist Award for his research in tissue regeneration.



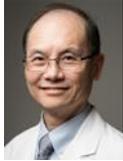
Chengfei Zhang, DDS, PhD
University of Hong Kong

Dr. Chengfei Zhang is a Clinical Professor in Endodontology, Faculty of Dentistry, The University of Hong Kong (HKU). His research is mainly focused on three different areas: 1) Dental stem cell-based pulp regeneration; 2) Differentiation of dental stem cells into osteo/odontogenic, endothelial, and neural cell lineages; 3) Clinical aspects of regenerative endodontics. He has published more than 100 peer-reviewed journal articles on various aspects of this subject. His recently published work was focused on a novel approach that combines prevascularization and scaffold-free microtissues, which aims to address one of the major challenges in regenerative endodontics - enhancement of vasculature during pulp regeneration. This work was internationally recognized with several awards including IADR William J Gies award for Biomaterials and Bioengineering Research 2016 and Journal of Endodontics award for best paper in Basic Science: Biology 2016. As the principal investigator, he has been awarded the following competitive research grants, GRF, NSFC and HMRF grants in Hong Kong and China. His work in dental pulp regeneration have been presented in Pulp Biology and Regeneration Symposia held in 2013, 2016, and 2018 IADR/AADR meeting.



Fionnuala Lundy, BSc(Hons), PhD, PGCHET
Queen's University, Belfast

Dr. Fionnuala Lundy is a Senior Lecturer in Oral Science at the Wellcome-Wolfson Institute of Experimental Medicine, Queen's University, Belfast. Fionnuala is a past president and a past treasurer of the Irish Division of the IADR. She is Associate Editor of *Archives of Oral Biology* and a member of the scientific advisory board of the *Journal of Endodontics*. Fionnuala is an active reviewer of manuscripts for many of the international dental journals as well as international journals in related scientific disciplines. Fionnuala's research interests focus on the cell biology of the dental pulp and periodontal tissues and in particular the pathway from infection and pain/inflammation to healing and repair. She has described a role for neurogenic inflammation in the dental pulpal and more recently has studied transient receptor potential (TRP) channels as sentinels of tissue damage/pain caused by environmental stimuli. She is also interested in the regenerative and differentiation capacity of dental pulp stem cells particularly their differentiation towards a neuronal lineage. Fionnuala has been awarded several prizes for her research including the IADR/GSK Innovation in Oral Care Award (\$75,000 research award) on two occasions, as both principal investigator and co-investigator.



George Huang, DDS, MSD, DSc
University of Tennessee

Dr. George Huang is a board certified endodontist, currently Professor and Director for Stem Cells and Regenerative Therapies, Department of Bioscience Research at UTHSC, College of Dentistry. He is the former Chair/Herbert Schilder Professor in Endodontics, at Boston University, also a former Chair in Endodontics at Columbia University. Dr. Huang has published more than 170 research articles, abstracts, review articles, including papers in Stem Cells, Stem Cells and Development, Stem Cell Research and Therapy, Tissue Engineering, Regenerative Medicine, Infection and Immunity, Human Gene Therapy, Journal of Dental Research, Journal of Endodontics, etc.; and 19 book chapters in books such as Ingle's Endodontics, Cohen's Pathways of the Pulp, Endodontic Microbiology, Principles of Regenerative Medicine, Tissue Engineering and Regenerative Dentistry, Tissue-Specific Stem Cell Niche, Material-Tissue Interfacial Phenomena, etc; and co-edited with Dr. Irma Thesleff and wrote chapters for the text book "Stem cells, craniofacial development and regeneration", in 2013, published by Wiley-Blackwell. His research has been funded by various sources including NIH and AAE Foundation. His current research interest is in the area of stem cells and regenerative medicine.



Gilles Richard, PhD
Septodont

Dr. Gilles Richard is an Engineer in Chemistry and Physics and has a PhD in Polymer Science. Gilles explored the ophthalmic industry during 5 years at Essilor before joining the dental community. For more than 15 years, Gilles is now working on aligning the pharmaceutical and medtech requirements with the dental clinical needs. Since he joined Septodont, Gilles is the Director of Research and Development in charge of developing new products for dental professionals. Based in the central R&D center in France, Gilles's everyday work consists in turning scientific and technological concepts into pharmaceutical products and applications after going through industrial processes. His objective is to bring innovative treatments up to their regulatory registration in order to provide safe and efficient dental products available in dental practices worldwide. Developing Biodentine was one of his first key achievements. His research interests currently covers pain management and regenerative dentistry.



Gottfried Schmalz, DMD, PhD, DDS
University of Regensburg

Dr. Gottfried Schmalz is Professor (Operative Dentistry and Periodontology) Universities of Regensburg/Bern, Germany/Switzerland. Hi main research interests are in biocompatibility and tissue regeneration. He has published more than 280 articles. He is the founder/Editor of "Clinical Oral Investigations". He has received over 35 prizes/awards, such as the "Distinguished Scientist Award", "Distinguished Service Award" of IADR and the "Award of Excellence" from the European Federation of Conservative Dentistry. He is a member/former Senator of the German National Academy of Sciences. He is Chairman of ISO (International Organization of Standardization) Technical Committee 106: Dentistry.



Imad About, MS, PhD
Aix-Marseille University

Dr. Imad About obtained a PhD in biochemistry in 1992 from Aix-Marseille University, France. He joined the same university in 1996 as Assistant Professor and became Professor of Oral Biology at the Faculty of Dentistry in 2002. Imad About is currently member of the "Institut des Sciences du Mouvement". He is responsible of the Research Laboratory and the basic sciences field at the faculty of dentistry at Aix-Marseille University, France. Professor About is associate editor of Clinical

Oral Investigations and lead guest editor of Stem Cells International published in 2017. He is president of the Pulp Biology and Regeneration Group of the International Association of Dental Research and President-elect of the Continental European Division. Imad About is reviewer and editorial board member of leading journals in the scientific and dental field (such as Journal of Dental Research and Journal of Endodontics). His research group is involved in investigating the role of progenitor and non-progenitor cells in dentin-pulp regeneration, and the effects of biomaterials on these events. Dr. About was the winner of the European Society of Endodontology annual research grant in 2012 and has been awarded the “Distinguished scientist award 2018” of the Pulp Biology and Regeneration Group. He is actively involved in developing dental materials and he is one of the main academic members involved in Biodentine development. He published more than 220 peer reviewed papers, abstracts and book chapters.



Ivo Lambrichts, DDS, PhD
University of Hasselt

Dr. Ivo Lambrichts is currently full Professor of microscopic anatomy at the Faculty of Medicine, University of Hasselt, Belgium. He is member of several professional organisations: member of the board of directors of the Belgian-Dutch Society of Oral Biology, member of the board of directors of the Belgian Society of Cell Biology. He is board member of the Belgian society for stem cell research. He is chairman of the Histology-Imaging group of the BIOMED institute. At present he is vice-dean of the Faculty of Medicine of Hasselt University, Chairman of the Medical Ethical Committee and board member of the Flemish Commission on Research Integrity. He contributes to stem cell research, to oral biology and oral imaging research and is involved in tissue banking, tissue reconstruction and regeneration. He is member of the board of directors of the BIOMED research institute of the University of Hasselt. He was also member of the central council of the European Association of Dento-Maxillo-Facial Radiology (EADMFR). He is panel member (Med8 and Clinical research) of the Fund for Scientific Research Flanders (FWO). He is referee of the IWT, The Inbev-Latour Award and review editor of Frontiers in Craniofacial Biology. At present he is vice-president of the European Society of Dental and Cranio-Facial Stem Cells (ESCDSC). His research group was partner in a SBO/IWT project “IMAGINE” on nanoparticles, stem cells and anti-cancer therapy. Recently he obtained several projects and research grants in the field of dental pulp regeneration, dental pulp stem cell, nanomedicine, 3D printing and cancer research from the FWO and the VITO-FWO. He contributed to 151 publications and several book chapters.



Jacques Nor, DDS, MS, PhD
University of Michigan

Dr. Jacques Nor is the Donald Kerr Endowed Professor of Dentistry and serves as Chair of the Department of Cariology, Restorative Sciences and Endodontics at the University of Michigan School of Dentistry. He has joint appointments as Professor of Otolaryngology (Medical School) and Professor of Biomedical Engineering (College of Engineering) at the University of Michigan. Jacques serves as Chair of the Oral Dental and Craniofacial Sciences (ODCS) NIH study section, and has been the principal investigator for several NIH grants. He has served for several years as the Co-Director of the University of Michigan Head Neck SPORE funded by the National Cancer Institute (NCI). Jacques is a Fellow and Chair-Elect of the Section on Dentistry & Oral Health Sciences of the American Association for the Advancement of Sciences (AAAS), and recently became Fellow of the American Association for Dental Research (AADR). He received the Distinguished Scientist Award and the William J. Gies Award from the International Association for Dental Research (IADR). Jacques is Associate Editor of the *Journal of Dental Research* and a member of several editorial boards. His research interests are in the study of the pathobiology of cancer stem cells in head neck squamous cell carcinoma and salivary gland cancer, as well the studies of mechanisms regulating dental pulp stem cell fate.



Jeremy Mao, DDS, PhD
Columbia University

Dr. Jeremy J. Mao is currently professor at Columbia University and Edwin Robinson Endowed Chair. Dr. Mao's research has been at the interface between stem cell biology and biomaterials. His research group has made several important discoveries in endogenous stem cells that are recruited into injectable or 3D printed biomaterials for the healing of tissue and organ defects, including a cover article in the Lancet. In addition, Dr. Mao's work has been published in Nature Medicine, Lancet, Nature Materials, Science Translational Medicine, Cell Stem Cell, Journal of Clinical Investigation, Nature Communications, ACS Nano, Nano Letters, etc. Dr. Mao has published over 200 scientific papers, and co-written 2 books. Dr. Mao's research has led to over 30 patents and establishment of 2 biotechnology companies. One of Dr. Mao's patents has been developed into a commercialized product that received FDA, EU and Australian approval. Dr. Mao's research group is currently funded by NIH and other grants in the areas of stem cell biology, tissue engineering and regeneration. Dr. Mao serves as a consultant for funding agencies in the United States as well as in China, EU, UK, France, Sweden, Holland, Canada, Singapore, Australia, Germany, Ireland, Hong Kong, Japan, Korea and other countries. Dr. Mao has received a number of prestigious awards including Yasuda award, IADR Distinguished Scientist Award and Spenadel Award. Dr. Mao's laboratory has trained many scientists and clinicians that are in academia, industry and government.



Kerstin Galler, DDS, PhD
University of Regensburg

Dr. Kerstin Galler obtained her degree in dentistry from the Ludwig-Maximilians-University in Munich in 2000. She worked in Private Practice until 2002 and then joined the Department of Conservative Dentistry and Periodontology at the University of Regensburg, Germany. She received post-doctoral training at the University of Texas Health Science Center in Houston from 2004 to 2006, and earned her Ph.D. in Biomedical Engineering from Rice University in Houston in 2009. Dr. Galler is currently Associate Professor and leader of the section of Endodontology and Dental Traumatology at the University of Regensburg. Her time is divided between clinical work with focus on endodontology and restorative dentistry, teaching as senior lecturer and clinical instructor, and research. Her research group works on tunable hydrogel scaffolds and dental stem cells for dental pulp tissue engineering and regenerative endodontics, on dentin matrix proteins and on biofilm-associated reactions of the pulp tissue. Dr. Galler was President of the Pulp Biology and Regeneration Group of IADR in 2013/14, and led the committee for the ESE Position Statement on Revitalization. She has published numerous articles in the field of pulp biology and dental pulp tissue engineering, received several awards for her scientific work and has lectured extensively nationally and internationally in clinical as well as scientific meetings.



Laura Ricles, PhD
U.S. Food and Drug Administration

Dr. Laura Ricles is a biomedical engineer and cell therapy team lead in the Office of Tissues and Advanced Therapies (OTAT) in the Center for Biologics Evaluation and Research (CBER) at the US Food and Drug Administration (FDA). Dr. Ricles joined the FDA in 2014 as a Commissioner's Fellow where she evaluated the current scientific trends and regulatory challenges to enhance FDA's review of 3D printed medical products. She then joined OTAT as a product reviewer where she performs chemistry, manufacturing, and controls review of cell therapy products, including somatic cell therapies, tissue engineered products, cell-device combination products, and devices, for clinical trial applications and marketing. She is currently the cell therapy team lead in the Cell Therapies Branch in OTAT and actively participates in working groups and other initiatives at the FDA in the area of tissue

engineering and regenerative medicine. Dr. Ricles earned a B.S. in bioengineering at Lehigh University and a Ph.D. in biomedical engineering at The University of Texas at Austin, where she investigated the use of bone marrow derived mesenchymal stem cell therapy, in combination with 3D biomaterials, for ischemic diseases using in vitro and in vivo models.



Lillian Shum, PhD

National Institute of Dental and Craniofacial Research, NIH

Dr. Lillian Shum is Director of the Division of Extramural Research at the National Institute of Dental and Craniofacial Research (NIDCR), National Institutes of Health (NIH). She provides leadership and guidance for the planning, development, implementation and evaluation of NIDCR extramural research portfolio encompassing diverse areas in dental, oral and craniofacial sciences. The goal is to support research through grants, cooperative agreements and contracts to capture the most promising discoveries and emerging technologies for rapid translation to clinical applications for improving the health of all Americans. Dr. Shum has been with NIH for 22 years and has held leadership positions for the past 14 years. She is an alumna of the NIH Executive Leadership Program and represents NIDCR on trans-NIH and interagency working groups, such as the NIH Common Fund's High Risk-High Rewards Program, 21st Century Cures Regenerative Medicine Innovation Project, All of Us Research Program, and Coordinating Committee on Research on Women's Health. Dr. Shum earned her PhD from the University of North Carolina Chapel Hill, specializing in Cell Biology, Developmental Biology and Anatomy. She completed two postdoctoral fellowships studying growth and transcription factor signaling; one at the Center for Craniofacial Molecular Biology at the University of Southern California and another at the University of California San Francisco School of Dentistry. She also conducted research on growth and transcription factor regulation of cranial neural crest cells, stem/progenitor cell differentiation and apoptosis, and craniofacial skeletal development in the NIH intramural program. In 2003, she joined NIDCR as the Director of the Mineralized Tissue Physiology Program. Five years later, she became the Chief of the Integrative Biology and Infectious Diseases Branch, where she managed a portfolio of basic and translational research. She has led the Division of Extramural Research since 2014.



Lina Nih, PhD

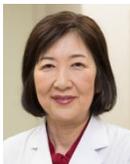
University of California, Los Angeles

Dr. Lina R. Nih is a senior scientist in the laboratory of Dr. Stanley T. Carmichael in the Neurology Department at the University of California, Los Angeles (UCLA). She obtained her Master's degree in Vascular Biology and her Doctorate in Neuroscience from the University of Paris V, France, under the supervision of Pr. Nathalie Kubis. She then completed a postdoctoral research at the UCLA Chemical and Biomolecular Engineering Department under the supervision of Dr. Carmichael and Dr. Tatiana Segura. The overarching goal of her research work is to enhance fundamental knowledge on the cellular and molecular mechanisms of brain repair in order to provide translational solutions to stroke. In particular, her unconventional approach is founded on the brain's ability to regenerate through vessels. Her current work explores the regenerative potential of tissue engineering concepts to design and develop innovative therapeutic biomaterials and drug delivery systems to regenerate a functional vascular network and promote brain repair. Her research is currently supported by several awards from the NIH, American Heart Association (AHA), California Institute of Regenerative Medicine (CIRM), and National Science Foundation (NSF).



Luiz Bertassoni, DDS, PhD
Oregon Health & Science University

Dr. Luiz Bertassoni is Assistant Professor in Restorative Dentistry at Oregon Health & Science University School of Dentistry. He earned his DDS from the Pontifical Catholic University in Curitiba, Brazil in 2007 and his PhD in Biomaterials from the University of Sydney in 2012. He is an experienced biomedical engineer with a significant clinical and translational background. He completed a post-doctoral fellowship at USCF in 2007 where he studied the nanoscale mineralization of calcified tissues another at Harvard and MIT in 2013 where he developed 3D bioprinting strategies to engineer vascularized tissues and organs-on-a-chip. During his PhD he studied the nanostructure and function of the organic matrix of mineralized tissues, with special emphasis in the molecular and nanostructural organization of collagen in bone and dentin. His research led to the development of the first method to 3D bioprint fully vascularized tissue constructs loaded with osteoprogenitor cells – an accomplishment that was considered one of the top 100 research stories by Discover Magazine. His current research focus is on Nano and microscale strategies for tissue engineering and biofabrication, biomaterials development, with a special emphasis on bioinks for 3D bioprinting, nanoscale structure and function relationships of calcified tissues and biomaterials, and the development of organs-on-a-chip and microfluidic microdevices. He is currently funded by the NIH to translate many of these technologies into the scope of craniofacial and dental regeneration. He has authored over 40 publications on the topics above, including research papers, book chapters and four edited books.



Misako Nakashima, DDS, PhD
National Center for Geriatrics and Gerontology and Aeras Bio Inc. (Air Water Group), Japan

Dr. Misako Nakashima earned her DDS and PhD from Kyushu University in Japan. Her research started with initial dentinogenesis and reparative dentin induction by partially purified bone morphogenetic proteins (BMPs). During a stay at the National Institute of Dental Research, NIH as a visiting scientist, she learned Cell Biology and Molecular Biology and studied the isolation of pulp progenitor cells and their differentiation into odontoblasts by BMPs. After returning to Japan, began to examine the role of recombinant BMP2 and 4 in reparative dentin formation in vivo. After a short stay in Johns Hopkins University, she identified a novel member of the BMP family, Gdf11, and a novel zinc finger transcription factor, GliH1. During a stay at New York University, she performed gene targeting of GliH1 to analyze its function in tooth development. After that, she developed gene therapy and cell therapy with BMPs for dentin regeneration. Then her research focus changed from dentin regeneration after pulpotomy into pulp regeneration after pulpectomy. Her group isolated and characterized dental pulp stem cell (DPSC) subsets with high angiogenic/neurogenic potential and transplanted the DPSC subsets with SDF-1 or G-CSF into pulpectomized tooth to regenerate pulp tissue in dogs. She further demonstrated the utility of DPSC subsets for total pulp regeneration in a preclinical study in 2013. This potential cell therapy was also examined in her group's recent clinical investigations, suggesting the safety and efficacy for total pulp regeneration in the clinic.



Pamela Yelick, Ph.D.
Tufts University

Dr. Pamela Yelick is a Tenured Full Professor in the Department of Orthodontics, Tufts University School of Dental Medicine, Director of the Division of Craniofacial and Molecular Genetics, and Program Director for the Genetics Program, Tufts University Graduate School of Biomedical Sciences. Dr. Yelick also holds adjunct appointments in the Tufts University Sackler School Cell Molecular and Developmental Biology and PPET Programs, and the Department of Biomedical Engineering, Tufts University, Medford, MA. Her research focuses on elucidation and functional characterization of molecular signaling cascades regulating mineralized craniofacial and skeletal tissue

development, disease and regeneration. She has extensive published expertise in basic and translational research pertaining to craniofacial development and regeneration using zebrafish, and mammalian rodent models, and in clinically relevant dental tissue engineering research rabbit and mini pig models. She has received NIH funding since 1990, was a permanent member of the MTE NIH Study Section (2007-2011), and serves as an ad hoc reviewer for multiple NIH Study Section Panels and for CIRM. She is internationally recognized as a leader in dental tissue engineering and craniofacial development, and has been invited to more than 200 national and international speaking engagements during her career. Dr. Yelick has over 150 peer reviewed publications and invited chapters, and more than 225 abstracts since the year 2000, and serves as a reviewer for numerous journals. She has received several research awards including the 2002 William J. Gies Award in Biomaterials & Bioengineering Research, the 2017 IADR Distinguished Scientist Award, and was recently accepted as a 2019-2020 ADEA Leadership Institute Fellow.



Paul Cooper, PhD
University of Birmingham

Dr. Paul Cooper obtained a BSc (Hons) in Genetics from Leeds University (1992) and received his PhD from the University of Birmingham, UK, in Cancer Sciences (1995). He was then a post-doctoral researcher at Roswell Park Cancer Institute, New York, US, working on the molecular genetics of cancer, eye and ear predisposing syndromes. He subsequently returned to the UK to work for Novartis in the area of molecular therapeutic target identification in lung disease. In 2000 he joined the School of Dentistry at the University of Birmingham and became Professor of Oral Biology in 2012. Paul conducts research into dental tissue regeneration, the inflammatory/immune aspects of oral and dental disease and in the biomaterials area with particular focus in pulp biology. In 2010, he received the prestigious Young Investigator Award from the International Association for Dental Research. He has served as President of the European Society of Dental and Craniofacial Stem Cells, is currently the Mineralised Tissue Group (MINTIG) Chair for the British Society for Oral and Dental Research (BSODR) and is a councilor on BSODR Management Committee. Paul has over 130 full publications (Google Scholar h-index=45) and authored several book chapters in the field of pulp biology and regenerative endodontics. He has supervised over 30 PhD students. Paul serves on the Editorial Board of the Journal of Dental Research, Journal of Endodontics and Journal of Periodontal Research. He has delivered over 30 invited lectures around the world. Paul has received significant funding from research councils, charities and industry to support his research. Paul completed his postgraduate certificate in learning and teaching in higher education (PGCILTHE) in 2003, is a Fellow of the Higher Education Academy and heads up Oral Biology teaching. He is currently the Director of Research and Deputy Head of School at the School of Dentistry.



Songtao Shi, DDS, PhD
University of Pennsylvania

Dr. Songtao Shi is Professor and Department Chair at the University of Pennsylvania School of Dental Medicine. Dr. Shi received his D.D.S. degree and certificate in Pediatric Dentistry from the Peking University School of Stomatology and Ph.D. in Craniofacial Biology from the University of Southern California. Prior to joining the faculty at the University of Pennsylvania, he served as a Principal Investigator and Clinical Fellow for nine years at the National Institute of Dental and Craniofacial Research and a professor for more than eight years at the University of Southern California. His research program focuses on understanding mechanism of mesenchymal stem cell (MSC)-associated diseases, developing new experimental disease models, and exploring feasibility of translating these bench discoveries to clinical therapies. His group and his collaborators were the first to identify dental pulp stem cells, baby tooth stem cells, periodontal ligament stem cells, root apical papilla stem cells, tendon stem cells, gingiva stem cells, sclera MSCs, and benign tumor MSCs from keloid. These novel and

landmark discoveries have opened opportunity for scientists to investigate oral tissues derived stem cells and their use for tissue engineering, disease modeling, and clinical treatment. Dr. Shi has published more than 190 peer-reviewed articles in a variety of high-impact scientific journals. Dr. Shi's research is supported by NIH grants and funding from California Institute of Regenerative Medicine. Dr. Shi has served on several local and national committees and boards including Scientific Editor for the PLoS ONE and Associate Editor for Journal of Tissue Engineering. He is recipient of the 2013 IADR Distinguished Scientist Award for Pulp Biology & Regeneration. His service has also included: Scientific Advisory Boards for the Journal of Endodontics, the Scientific Committee of Chinese Stomatological Association, and the Scientific Committee of Chinese Military Stomatology Research Institute.



Anthony Smith, PhD
University of Birmingham

Dr. Tony Smith is an Emeritus Professor at University of Birmingham, UK where he was previously Professor of Oral Biology and Director of Research for many years and has honorary positions at Trinity College Dublin in Ireland and at two universities in China. He has long been active in the areas of pulp biology and regeneration, particularly cell behaviour in dentine-pulp and in the modulation of cell behaviour during pulp regeneration and engineering and in response to dental restorative procedures. His experience in the dentine-pulp field extends over approximately 40 years and he has published widely in the area. In 2004, he was awarded the IADR Distinguished Scientist in Pulp Biology award and was President of the IADR Pulp Biology research group in 2004/2005. He was Editor-in-Chief of the Journal of Dental Research from 2004 to 2010.