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**Honorary Council**


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**Erdogan Şendemir**

*Professor of Anatomy, Department of Anatomy, Faculty of Medicine, Uludağ University, Bursa, Turkey*

*demir@uludag.edu.tr*

Dr. Erdogan Sendemir was born in Bursa, Turkey in 1960. He was graduated from Bursa Anatolian High School in 1978 and from Uludag University Faculty of Medicine in 1985. After finishing his obligatory service in Akhisar, Manisa, he started his specialty in Uludag University, Medical Faculty, Department of Anatomy in 1988 and gave his thesis about "Effects of insulin and/or alfamethylparathyrosine injections on thyrosine hydroxylase activity and catecholamine levels in the adrenal medulla of rats following hemi- or transection of their spinal cords" in 1990. After his military service, he was attended as assistant professor at Uludag University, Faculty of Medicine, Department of Anatomy in 1993. In 1994 he spent nine months as a "Visiting Scientist in Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology (MIT), Cambridge, MA" and studied in G. Schneider's lab with R.S. Erzurumlu and S. Jhaveri. He received his associate professor title in 1997. Between 1999 and 2000, he continued his research as a "Research Fellow in Louisiana State University (LSU), School of Medicine, Anatomy and Cell Biology Department, New Orleans, LA" for six months with R.S. Erzurumlu. By 2002 he received his professorship and elected as the head of department. He spent two years with G.F. Jirikowski in Friedrich-Schiller Universitaet (FSU), Anatomie Institut, Anatomie II, Jena as a visiting scientist in 2003-2005. He has about 20 international publications, 25 international presentations in international congresses and about 40 citations in indexed international scientific journals. He has two international awards. His scientific fields of interest are: Thalamocortical development, and neural regulation of sympathoadrenal system.

**Hakan Hamdi Çelik**

*Professor of Anatomy, Department of Anatomy, Faculty of Medicine, Hacettepe University, Ankara, Turkey*

*hacelik@hacettepe.edu.tr*

Dr. Hakan Hamdi Celik was born in Ankara, Turkey in 1961. He was graduated from Ankara University Faculty of Medicine in 1985. He started his doctoral studies at Hacettepe University, Faculty of Medicine, Department of Anatomy in 1988 and received PhD degree with his thesis titled "Examination of Dimensions of Ventricular system by CT" in 1992. After completing his military service, he was appointed as assistant professor to Hacettepe University, Faculty of Medicine, Department of Anatomy in 1994. He received his associate professor title in 1996. He has been working at the same department as professor since January 2003. Dr. Celik has more than 100 international publications, more than 150 international presentations in international congresses and more than 600 citations in indexed international scientific journals. He has 2 international and 11 national scientific awards. His scientific fields of interest are neuroanatomy, scanning electron microscopy of biologic materials (advanced SEM techniques and anaglyph techniques), radiological anatomy and micro-computerized tomography. Dr Celik is a member of FICSP (Federative International Committee for Scientific Publications) set up under IFAA (International Federation of Associations of Anatomists) and delegate of ICSMS (International Committee of Symposia on Morphological Sciences). Dr. Celik was Congress President of EACA 2009 (10th European Congress of European Association of Clinical Anatomy). Dr. Celik serves as a project consultant for Health Sciences Research Group and is a panelist of Project Evaluation Committee under the Scientific and Technological Research Council of Turkey (TUBITAK). Dr. Çelik has been Deputy Chief Physician of the Hacettepe Adult Hospitals since 2013.

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**Invited Speakers**


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**Sten Grillner**

*(Stockholm-Sweden)*

*Department of Neuroscience, Karolinska Institute, Stockholm*

Sten Grillner is Professor at the Karolinska Institute since 1975 and is a member of the National Academy of Science (US), Institute of Medicine (US), and several other academies and his awards include The Kavli Prize in Neuroscience (2008). He is currently Secretary General for IBRO and was President for FENS 2010-2012. Sten Grillner's research has focused on the intrinsic function of the modular network organization underlying fundamental aspects of our motor repertoire. His initial work defined the basic organisation of the mammalian locomotor system in terms of supraspinal command systems, spinal networks coordinating the movements (CPGs), and the sensory control of the CPGs. To address the next level question - the molecular, cellular and synaptic design of these neu-

ronal circuits - he developed a simpler vertebrate model (lamprey). The different network interneurons, their synaptic interaction (transmitters, receptor subtypes), and their membrane properties (ion channel subtypes expressed) have been identified. The palette of different subtypes of ion channels expressed in different neurones is found to be of critical importance for network function. Through an interaction between detailed multi-faceted experimentation and large scale modelling with biophysically realistic numbers of Hodgkin-Huxley neurons, the operation of this entire motor control system has been uncovered. Most recently Sten Grillner has been working on the neural mechanisms underlying selection of behaviour using the lamprey as a model, which has had a focus on the role of the basal ganglia. A detailed analysis of the connectivity within the different parts of the basal ganglia and the habenulae demonstrates that it is conserved in considerable detail. Furthermore, transmitters, receptor subtypes, and membrane properties, are also maintained from lamprey to mammals. The inference is that the forebrain design with regard to the basal ganglia and related structures evolved very early in vertebrate evolution, and has been conserved.

**Reha S. Erzurumlu***(Baltimore–USA)**Professor of Anatomy and Neurobiology, University of Maryland School of Medicine Baltimore, MD, 21201 USA*

Ph.D. is Professor of Anatomy and Neurobiology and Director of Medical Neuroscience course at University of Maryland School of Medicine, Baltimore, MD, USA. Professor Erzurumlu received his undergraduate degree from University of Ankara, Turkey, Masters degree from Washington University, St Louis, MO, USA and PhD in biological sciences from University of California, Irvine, CA, USA. He had postdoctoral training at Brown University, Providence, RI, USA and Massachusetts Institute of Technology, Cambridge, MA, USA. Professor Erzurumlu is a member of several professional organizations and he has organized many international meetings and chaired symposia. He is an active member of both the Society for Neuroscience and European Federation of Neuroscience Societies. He currently serves on the Global Membership Committee of the Society for Neuroscience. He participates in National Institutes of Health, Center for Scientific Review and is the Chair of the Somatosensory and Chemosensory Systems Study Section. Professor Erzurumlu's research interests include: Cellular and molecular mechanisms underlying axon-target interactions in mammalian sensory pathways. Molecular mechanisms of sensory axon elongation and arborization. Activity-dependent refinement of synaptic connections. NMDA receptor-mediated development and patterning of sensory maps. The Erzurumlu laboratory uses molecular biology, in vitro and in vivo electrophysiology, imaging, neuroanatomical and behavioral techniques to understand mechanisms underlying development of topographic maps, neural patterning, plasticity and neonatal injury-induced alterations in the trigeminal system. Publications from the laboratory can be found at: <http://www.ncbi.nlm.nih.gov/pubmed/?term=erzurumlu+r> Research is funded by grants from the National Institutes of Neurological Disorders and Stroke, USA.

**Alev Erisir***(Virginia–USA)**Department of Psychology, University of Virginia, Charlottesville, VA, USA*

Alev Erisir received her medical degree (MD) from Istanbul University, School of Medicine (Turkey) in 1986, and her PhD from State University of New York in Stony Brook (NY, USA) in 1996. After her postdoctoral training in New York University Center for Neural Science (NY; 1996-1999) and in New York Medical College (Valhalla, NY; 1999-2000), she was hired as an Assistant Professor in Department of Psychology, University of Virginia, Charlottesville, VA in 2000. She was promoted to Associate Professor with tenure in 2007, and to Professor in 2013. She has served as Director of Undergraduate Studies for Cognitive Science and Neuroscience majors between 2008 and 2015. Her university and national service record and honors include grant and fellowship review panels for National Science Foundation, UVA VP for Research, and Undergraduate Excellence and Fulbright; Dean's Committee for Promotion and Tenure; Faculty for Undergraduate Neuroscience faculty advisor and Honors; Central Virginia Chapter of Society for Neuroscience council member; Institutional Animal Care and Use Committee; Visiting Scholar in Downing College U Cambridge; Leadership in Academic Matters; Mead Endowment Honored Faculty;

and University of Virginia Teaching Fellow Award. Her lab is specialized in track tracing and ultrastructural anatomy approaches to study synaptic circuits in sensory pathways, and synaptic plasticity in developing and aging brains.

**Emel Ulupinar***(Eskişehir–Turkey)**Department of Anatomy, Faculty of Medicine, Eskişehir Osmangazi University, Eskişehir, Turkey*

Professor Emel Ulupinar was born in 1969, in Ankara. After graduation from Gazi University Faculty of Medicine in 1992, she was awarded a scholarship for doctoral education by Higher Education Council of Turkey. She studied at Cell Biology and Anatomy Department of Louisiana State University Health Sciences Center and received her PhD degree in 1999. Since then she has been working as a faculty member at Eskişehir Osmangazi University, Faculty of Medicine, Anatomy Department. In addition, she has been working as the head of Interdisciplinary Neuroscience Department, in Health Sciences Institute of Eskişehir Osmangazi University, since 2012. Due to her studies in the field of neuroscience and specifically in developmental neurobiology, she received "Distinguished Young Scientist Award" from the Turkish Academy of Sciences (TUBA-GEBIP) in 2001. She was the Congress Secretary of first National Neuroscience Meeting held in Eskişehir, in 2002. As of June 2010, she is an affiliated faculty member of Northwestern University School of Medicine, Neurology Department in USA. Currently, she is working as Secretary General of Neuroscience Society of Turkey (TUBAS) and Turkish Society of Anatomy and Clinical Anatomy (TAKAD). She is a member of the International Brain Research Organization (IBRO), Society for Neuroscience (SFN), Federation of European Neuroscience Society (FENS) and the American Association of Anatomists (AAA). Dr. Emel ULUPINAR is married and the mother of two daughters.

**George Paxinos***(Sydney–Australia)**Neuroscience Research Australia, Sydney, Australia*

Professor George Paxinos was born on Ithaca, Greece. He studied psychology at The University of California at Berkeley, McGill University and Yale University before taking up a lectureship at The University of New South Wales, in Sydney. He is now an NHMRC Senior Principal Research Fellow at Neuroscience Research Australia. He published 46 books on the brain and spinal cord of humans and experimental animals. He identified 90 nuclei in the brain of the rat and human. Comparing these two mammals, he also identified 61 brain homologies. He was the first to produce a reliable stereotaxic space for the brain of rats, mice, and primates, a factor facilitating neuroscience research since the 1980s. He constructed the most frequently cited atlases of the brain and spinal cord of rats, mice, monkeys, humans and birds. In the field of neuroscience, he is the author of the most cited publication internationally (The Rat Brain in Stereotaxic Coordinates; Paxinos and Watson, 1986). This is the third most cited book in science after Molecular Cloning and the Diagnostic and Statistical Manual of Mental Disorders. He served on the editorial board of 15 journals and was the president of the Australian Neuroscience Society and of the IBRO World Congress of Neuroscience.

**Stefano Geuna***(Torino-Italy)**Department of Clinical and Biological Sciences,  
University of Torino, Torino, Italy*

Curriculum Education Graduated in Medicine and Surgery at the University of Torino (year 1989/90). Professional Licensure for Medical and Surgical Practice (2nd session of State Examination 1990). Member of the Professional Register of Physicians and Surgeons of the Province of Torino. Specialization in Child Neurology and Psychiatry at the University of Torino (year 1994/95). 1985-1990, internship at the Department of Human Anatomy and Physiology (University of Torino). 1990-1993, engaged in research projects at the Department of Human Anatomy and Physiology (University of Torino). 1994-1998, engaged in research projects at the Department of Clinical and Biological Sciences (University of Torino) 1998-2001, full-time employee of the University of Torino as Junior Researcher at the Department of Clinical and Biological Sciences. 2001-2006, full-time employee of the University of Torino as Senior Researcher and Aggregate Professor of Anatomy at the Department of Clinical and Biological Sciences. 2007-present, full-time employee of the University of Torino as Associate Professor of Anatomy at the Department of Clinical and Biological Sciences 2010-present, Research Leader of the Peripheral Nerve Regeneration Unit at the Cavalieri Ottolenghi Institute of Neuroscience. Research Main grants received 1999, recipient of a research grant from the MURST ("Progetto Giovani Ricercatori" fund) for the investigation of cold-related changes in nerve cells. 2000, recipient of a research grant from the University of Torino (ex-60% fund) for the investigation of a mutant mice model of infantile neuroaxonal dystrophy. 2001, recipient of a research grant from the University of Torino (ex-60% fund) for the investigation of neural stem cells in the peripheral nervous system. 2002, recipient of a research grant from the University of Torino (ex-60% fund) for the investigation of Laser biostimulation on peripheral nerve repair. 2003, recipient of a research grant from the University of Torino (ex-60% fund) for the investigation of Schwann cell characterization along muscle-vein-combined grafts. 2003, recipient of a research grant from the MURST (FIRB fund) for the investigation of nerve regeneration along non-nervous conduits. 2004, recipient of a research grant from the University of Torino (ex-60% fund) for the investigation of the development of chick dorsal root ganglia. 2004, recipient of a research grant from the University of Torino (DSCB fund) for the investigation of laser biostimulation on peripheral nerve repair. 2005, recipient of a research grant from the University of Torino (ex-60% fund) for the investigation of the effects of lasertherapy after nerve crush injury. 2005, recipient of a research grant from the Regione Piemonte (CIPE fund) for the investigation nerve regeneration along bioengineered scaffolds. 2006, recipient of a research grant from the University of Torino (ex-60% fund) for the investigation of the role of neuregulin-1 and ErbB receptors in peripheral nerve regeneration. 2006, recipient of a research grant from the MIUR (PRIN fund) for the investigation of the employment of stem cell transplantation and lentiviral technology for improving peripheral nerve regeneration along bioengineered scaffolds. 2007, recipient of a research grant from the University of Torino (ex-60% fund) for the investigation of end-to-side nerve regeneration. 2007, recipient of a research grant from the Regione Piemonte (Ricerca Santaria Finalizzata) for the investigation age-related changes in peripheral nerve regeneration. 2008, recipient of a research grant from the University of Torino (ex-60% fund) for the investigation of nerve regeneration along chitosan conduits. 2008, recipient of a research grant from the Regione Piemonte (Ricerca Santaria Finalizzata) for the investigation adipose tissue-derived stem cells and their application in regenerative medicine. 2008, recipient of a research grant from the Regione Piemonte (Ricerca Santaria Finalizzata) for the investigation of

the treatment of spinal cord contusion injury with Rolipram. 2009 recipient of a research grant from the Regione Piemonte (Ricerca Santaria Finalizzata) for the investigation of the gene therapy for prevention of denervation-related skeletal muscle atrophy. 2009, recipient of a research grant from the University of Torino (ex-60% fund) for the investigation of the effects of ghrelin on neural repair. 2009, recipient of a research grant from the Ministero della Salute for the investigation of the effects of platelet gel on muscle damage. 2010, recipient of a research grant from the Chinese University of Hong Kong (RGF # 214064) for the investigation of BRE expression manipulation to improve the function of human umbilical cord perivascular mesenchymal progenitor cells. 2011, recipient of a Regione Piemonte research grant on peripheral nerve reconstruction medical devices. 2012, recipient of a EU FP7 research grant (HEALTH.2011.1.4-2) for the investigation of Biohybrid templates for peripheral nerve regeneration.

**Hong-Quan Zhang***(Beijing-China)**Department of Anatomy, Histology and Embryology,  
School of Basic Medical Sciences, Peking University,  
Beijing, China*

Professor Hong-Quan Zhang, the Head of Department of Anatomy, Histology and Embryology and the Director of Laboratory of Cancer Metastasis of the Peking University Health Science Center, got his PhD in Molecular Genetics in 1991 in China and finished his postdoctoral training at the M.D. Anderson Cancer Center in 2004 in USA. His research interesting is to unravel the roles of integrin-associated molecules in the control of cancer metastasis and cancer stem cells. He has published more than 70 scientific research papers in international journals.

**Lan Xiao***(Chongqing-China)**Department of Histology and Embryology, Third  
Military Medical University (TMMU), Chongqing,  
China*

Director of Department of Histology and Embryology of the Third Military Medical University (TMMU) in China, got her MD and PhD in Histology and Embryology in the TMMU. She stayed at the Canada for 3 years as a postdoctoral fellow in the Neuropsychiatry Research Unit, Department of Psychiatry at the University of Saskatchewan. Her scientific interests focus on the myelination and remyelination, oligodendroglia dysfunction and psychiatry disorders. During the past 5 years, she has published 26 papers in international journals.

**Chang-Min Lin***(Shantou-China)**Shantou University Medical College, Shantou,  
Guangdong, China*

PhD and Associate professor, is the Director of English Curriculum and Foundation Study Block in English Curriculum, Department of Histology and Embryology, Shantou University Medical College, China. She has studied the "Regeneration of Hair Follicle", obtained 3 patents for the devices of Hair Follicle transplantation, got 4 items of research grants.

**Xue-Song Yang***(Jinan-China)*

*Division of Histology & Embryology, Key Laboratory for Regenerative Medicine of the Ministry of Education, Medical College, Jinan University, Guangzhou 510632, China*

Xuesong Yang is currently a professor in Division of Histology and Embryology, Medical College, Jinan University, China. He received his bachelor's (MD) in clinical medicine from Harbin Medical University (1984), master's degree in reproductive physiology from Harbin Medical University Division of Physiology (1987), and then started his overseas study in Japan (1991) after serving as an assistant professor in Harbin Medical University Medical College for two years. He received his doctorate in cell membrane physiology and neurosciences in Tokyo Medical and Dental University School of Medicine, Japan (1997). Next, I had worked on pancreas exocrinology as a postdoctoral research associate in University of Manchester for two years, and then moved to University of Dundee Wellcome Trust Center in 1999. Since then my research has mainly focused on developmental biology, specifically about "FGF, VEGF and PDGF signaling modulating mesoderm cell migration during chick embryo gastrulation". Part of the work has been published in *Developmental Cell*, *PNAS*, *Current Biology* and *Development*, *Developmental Biology* and *Oncogene*. Since being recruited as an professor in Jinan University Medical School (2008), China, I have been continuing to carry on the aforementioned project while I also extend my research interest into studying cancer cell metastasis, neural tube formation & heart formation, and vasculogenesis & angiogenesis in embryonic development and abnormal development using various chick embryo models. There are many works that have already been published or in submission in the new research fields.

**Maia A. Dgebuadze**

*Department of Human Normal Anatomy, Tbilisi State Medical University, Tbilisi, Georgia*

Associative Professor of Human Normal Anatomy Department of Tbilisi State Medical University, International Academy of Integrative Anthropology Academician, Honour scientist of Rome, member of coordinating council of International Association of Morphologists, member of council of Georgian Association of Anatomists, Histologists and Embryologists (Morphologists), member of editorial council of journal "Morphology" (Morfologia - Archives of Anatomy, Histology and Embryology), founded in 1916, member of editorial council of journal "Biomedical and Biosocial Anthropology", author more than 140 published scientific works. In 2009 professor Maia Dgebuadze was included in the publication *Whos Who in the World of American publisher of biographical information Marquis Whos Who*, founded in 1899. In 2013 she was awarded with The Robert Koch Medal by European Academy of Natural Sciences (Hannover, Germany).

**Ozan Akkuş***(Cleveland-USA)*

*Department of Mechanical and Aerospace Engineering, Biomedical Engineering and Orthopaedics, Case Western Reserve University, Cleveland, OH, USA*

Reconstituted collagen is orders of magnitude weaker than natural tissues, limiting collagen's applicability for functional repair of load-bearing structures. Reconciling the porosity needed for cellularization with a demanding mechanical functionality adds to the challenge. We have developed a novel biofabrication modality that compacted and aligned collagen molecules electrophoretically. Through innovative combination of computer aided design and manufacturing, collagen is reconstituted as threads, patterned meshes or 3D curvilinear complex anatomical forms. The presentation will highlight the bioinductive potential of electrocompacted collagen on stem cells. Applications of this novel biomaterial in tendon/cartilage repair, urinary incontinence therapy and craniofacial reconstruction will be elucidated.

**Yun-Qing Li***(Xi'an-China)*

*Department of Anatomy, Histology and Embryology, K. K. Leung Brain Research Centre, The Fourth Military Medical University, Xi'an, China*

Prof. Li earned Ph.D. in both the Fourth Military Medical University (FMMU) in China and the Faculty of Medicine, Kyoto University in Japan. His research work focuses on the neural mechanisms underlying nociception and analgesia. He has published over 100 papers in international professional journals. Prof Li is the Vice-President of the International Federation of Associations of Anatomists (IFAA) and Vice-President of Chinese Society of Anatomical Sciences (CSAS).

**Chang-Man Zhou***(Beijing - China)*

*Department of Anatomy and Histology at Peking University Health Science Center, Beijing, China*

Chang-Man Zhou, Professor in Department of Anatomy and Histology at Peking University Health Science Center, China. Currently Vice-President and General Secretary of Chinese Society of Anatomical Sciences (CSAS). Prof. Changman Zhou current research focus is preclinical translational research related to the neuronal regeneration and neurobiology of diseases such as stroke. He published more than 120 international peer-reviewed papers and many book chapters. He is currently on the Editorial Boards of *Clinical Anatomical, Anatomical Record, Anatomy & Cell Biology* and Vice Editor-in-Chief of *Acta Anatomica Sinica*.

**Yu-Qiang Ding***(Shanghai-China)*

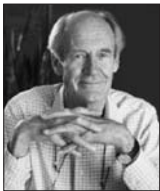
*Department of Anatomy and Neurobiology, Tongji University School of Medicine, Shanghai, China*

Distinguished Professor and Head of Department of Anatomy and Neurobiology, Tongji University School of Medicine, Shanghai, China. Prof. Ding's lab is working on the transcriptional control of neural development and focused on the cerebral cortex and monoaminergic neurons. He is also interested on dissecting the neurological basis of psychiatric disorders. He is currently the Editor of *Scientific Report*.

**Bing-Yin Su***(Chengdu–China)*

*Development and Regeneration Key Lab of Sichuan Province, Department of Anatomy and Histology and Embryology, Chengdu Medical College, Chengdu 610500, China*

Prof. Suearned his PhD. at Third Military Medical University, and had been in Harvard University and Hinosima University as a visiting scholar for two years. His research work focuses on development and regeneration of central nerve system. He has published over 50 papers in international professional journals.

**Tomas Hökfelt***(Stockholm–Sweden)*

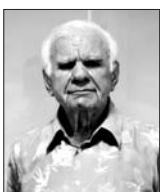
*Department of Neuroscience, Karolinska Institutet, S-17177, Stockholm, Sweden*

Ph.D. /M.D. (1968/1971), Assist. Prof. (1969), Swedish MRC (1969-78), Prof. Histology with Cell Biology (1979). Around 1,100 publications; around 60 plenary/keynote lectures; twenty PhD students. Member National Academy of Sciences (USA), Swedish Royal Academy of Sciences, Academia Europaea, Chinese Academy of Sciences. Doctor h. c. Universities of Tampere, Copenhagen, Ferrara, Victor-Ségalen-Bordeaux II, Austral University (Buenos Aires). Awards: The Artois-Baillet Latour Health Prize (Brussels) (with V. Mutt), The Bristol-Myers Award for Distinguished Achievement in Neuroscience Research (New York) (with W. Nauta, T.P.S. Powell), Anders Jahre's Prize (Oslo), The Grand Médaille, Académie des Sciences (Paris).

**Juan Mena Segovia***(Oxford–UK)*

*Center for Molecular and Behavioral Neuroscience, Rutgers University, New Brunswick, NJ, USA*

Dr. Juan Mena-Segovia graduated in Medicine from the National University of Mexico (UNAM) in 1999. He obtained a PhD from the same University in 2003. In the same year he moved to the University of Oxford (MRC Anatomical Neuropharmacology Unit) where he obtained a postdoctoral position (until 2007) and subsequently an Investigator Scientist position (until 2015) in the laboratory of Prof. Paul Bolam to investigate the structure and function of the pedunculopontine nucleus and its relationship with the basal ganglia. Since 2015, Dr. Mena-Segovia holds an Assistant Professor position at the Center for Molecular and Behavioral Neuroscience at Rutgers University. His research is focused on the functional properties and neuronal organization of neuromodulatory systems and their interaction with basal ganglia and thalamocortical systems. He has 21 publications including peer-reviewed articles, review articles and book chapters, originating more than 800 citations.

**M. Gazi Yaşargil, MD***(Istanbul–Turkey)*

*Department of Neurosurgery, Yeditepe University, Faculty of Medicine, Istanbul, Turkey*

Professor M. Gazi Yaşargil was born on July 6, 1925 in Lice, Turkey. In 1953, he began his neurosurgical residency at the University of Zürich, under Professor Hugo Kraysenbühl. From 1965 to 1967 he was a research fellow in microvascular surgery at the University of Vermont, Burlington, under Professor R.M. Peardon Donaghy, where he learned microsurgical techniques, which were then applied to the cerebral arteries on animals in the laboratory. After returning to Zurich, he was instrumental in shaping the future development of microneurosurgery, applying microtechniques to the whole field of this specialty. His extensive experiences and surgical results are summarized in his 6 volume monography "Microneurosurgery". In 1994, Professor Yaşargil was appointed Professor of Neurosurgery at the University of Arkansas for Medical Sciences in Little Rock, where he continues to be active in microneurosurgical clinical practice, research, and teaching. He is a Professor and Chairman of the Department of Neurosurgery Istanbul Yeditepe University since August 2013.

**Uğur Türe***(Istanbul–Turkey)*

*Department of Neurosurgery, Yeditepe University School of Medicine, Istanbul, Turkey*

Dr. Türe graduated from Ankara Hacettepe University School of Medicine in 1987 and the same year he started his neurosurgery residency education at İstanbul Şişli Etfal Hospital. During his residency and afterwards he studied microsurgery and surgical neuroanatomy under the supervision of Professor Yaşargil at Zürich University Hospital, Switzerland. Between 1993-1995 he worked as a staff neurosurgeon at İstanbul Şişli Etfal Hospital Neurosurgery Clinic. He continued his work on surgical neuroanatomy under the supervision of Professor Yaşargil and Professor Al-Mefty at UAMS, Little Rock, AR, USA between 1995-1997. After returning to Turkey in 1997 he worked at İstanbul Marmara University. In 2003-2005 he worked in Samsun Ondokuz Mayıs University and became professor of neurosurgery. He has been working as Professor and Chairman of the Department of Neurosurgery, Yeditepe University İstanbul since September 2005.

**Selva Baltan***(Cleveland–USA)*

*Department of Neurosciences, Lerner Research Institute, 9500 Euclid Avenue, Cleveland, OH, USA*

Selva Baltan, MD, PhD, is an Associate Professor of Molecular Medicine at the Cleveland Clinic Lerner College of Medicine at Case Western Reserve University and is Associate Staff in the Department of Neurosciences at the Cleveland Clinic. She received her M.D. from Hacettepe University Medical School in Ankara, Turkey and earned her Ph.D. from McGill University in Montreal, Canada. She then studied at the Montreal Neurological Institute on Multiple Sclerosis and in the Department of Neurology at Washington University in St. Louis, Missouri as an American Stroke Association (ASA) Heartland Stroke Fellow. She continued her studies in the Neurology Department of the University of Washington in Seattle as an ASA National Scientist before moving to the Cleveland Clinic in 2011. Her initial research focused on the impact of aging on learning and memory formation during stroke-like conditions. She primarily focused on the region- and age-specific mechanisms of brain cell damage following stroke in white matter. Her work showed that over-activation of glutamate receptors is toxic not only to neurons, but also to axons and oligodendrocytes, and established the

proof-of-principle that excitotoxicity mediates injury to white matter during stroke. Using a structure-to-function approach, she identified that the unique but unexpectedly complex mechanisms of white matter injury significantly differ from neuronal injury. Her studies therefore challenged the existing convention in stroke research that a common mechanism of injury exists in the brain and provided experimental evidence underlying the failure of clinical stroke trials exclusively focused on neuronal protection. Currently, she is interested in the role of protein acetylation and mitochondrial dynamics in white matter stroke, which has expanded her interest to neurodegenerative diseases involving white matter such as multiple sclerosis, Alzheimer's disease, traumatic brain injury. She is recipient of multiple grants from NIH and other agencies such as the ASA.



**Gustav F. Jirikowski**

(Jena–Germany)

*Institute of Anatomy II, Friedrich Schiller University, Teichgraben 7, Jena, Germany*

Born July 14th 1954 in Vienna, Austria, Studies of Biology, University of Salzburg, Austria 1973. PhD, Dept of Clinical Morphologie University of Ulm, Germany, 1980. 1984-87, visiting associate professor: Dept of Cell Biology and Anatomy, University of North Carolina, Chapel Hill, USA. 1988: Habilitation for Anatomy, University of Ulm, Germany. 1989: Heisenberg Fellowship: Dept. of Neuroendocrinology, Rockefeller University, NY, USA. 1989-1992: visiting scientist: Dept. of Neuropharmacology, Scripps Institute, La Jolla, USA, 1992-1994, group-leader: Max Planck Institute for Psychiatry Munich, Germany. 1994 til present: Full professor: Institute for Anatomie II Klinikum der Friedrich Schiller Universität Jena, Germany. 189 original publications, 32 reviews, 14 patents.



**Veronika M. Gebhart**

(Jena–Germany)

*Institute of Anatomy II, Friedrich Schiller University, Teichgraben 7, Jena, Germany*

07749 Jena Theses 2015 doctoral thesis submitted “Expression of steroid hormone binding globulins and their interaction with steroids and steroid analogs” 2012 diploma thesis “Investigations on athermal effects of water-filtered infrared A radiation regarding the changes of redox status and UV induced damages in an human 3D skin model” Professional experience 2012 - today research fellow (PhD student) and lecturer institute of anatomy II, university hospital Jena 2011 - 2012 graduand institute of nutritional toxicology, Friedrich Schiller University Jena Education 2012 diploma in biochemistry 2007 - 2012 study of biochemistry (Friedrich Schiller University Jena) Professional Societies 2013 - today Anatomische Gesellschaft anatomic society 2013 - today Gesellschaft für Biochemie und Molekularbiologie, GBM society of biochemistry and molecular biology Grants 2013 Boehringer Ingelheim travel grant 2013 DAAD – project: travel foundation.



**Stephen Carmichael**

(Rochester, MN–USA)

*Professor Emeritus of Anatomy and Orthopedic Surgery, Mayo Clinic, Rochester, MN, USA*

Stephen Carmichael was born in Detroit, Michigan, USA in 1945. He attended high school in Modesto, California, and was graduated from Kenyon College with Honors in Biology. He earned the Ph.D. in Anatomy from Tulane University in 1971 and took a faculty position at West Virginia University. In 1982 he moved to the Mayo Clinic in Rochester, Minnesota where he spent the rest of his professional career, retiring in 2007. He is now Professor Emeritus of Anatomy and Orthopedic Surgery. Dr. Carmichael is a member of several academic societies. He served as president of The Histochemical Society and the American Association of Anatomy Chairs. His is an Honored Member of the Turkish Society of Anatomy and Clinical Anatomy and an Honorary Emeritus member of the Australian New Zealand Association of Clinical Anatomists. He has received many other honors including the A.J. Ladman AAA/Wiley Exemplary Service Award, the R. Benton Adkins, Jr. Distinguished Service Award from the American Association of Clinical Anatomists, and the Mayo Clinic Alumni Association Distinguished Alumnus Award. Dr. Carmichael was Editor-in-Chief of Clinical Anatomy for 12 years and is currently Editor Emeritus of that journal. He is author or co-author of over 150 articles in peer-reviewed journals and wrote 9 books. He is currently on the Council of the American Association of Clinical Anatomists.



**Marios Loukas**

(St. George's–Grenada)

*Departments of Anatomy and Pathology, St. George's University, Grenada, West Indies*

Dr. Loukas received his MD degree from Warsaw University School of Medicine, and a PhD from the Institute of Rheumatology in the Department of Pathology in Warsaw, Poland. He held a post-doctoral position at the Ulm University Clinic in Germany and studied arteriogenesis and angiogenesis projects. He began his academic career at Harvard Medical School where he served as lecturer and laboratory instructor for the Human Body Course. In 2005, he joined St. George's University in Grenada where he rose to the rank of a professor. In 2008, he was named Chair of the Department of Anatomical Sciences and Assistant Dean of Basic and Allied Health Sciences. Under his leadership, the Department of Anatomical Sciences developed a unique division of Ultrasound in Medical Education that instructs faculty members in how to teach ultrasound to medical students and residents, and how to provide effective continuing medical education (CME) courses. In 2012, Dr. Loukas was appointed Dean of Research for the School of Medicine at St. George's University. One of his main tasks was to develop a trans-disciplinary research infrastructure to support translational research to bridge basic science and clinical departments with the aim of enhancing student research and publications. Since that time, the School of Medicine has published over 100 scientific papers each year in peer-reviewed journals. In 2015, Dr. Loukas was appointed as Dean of Basic Sciences at St. George's University, School of Medicine. Dr. Loukas' research has been continuously funded from St. George's University. He has been the recipient of numerous teaching research awards such as the Herbert M. Stauffer Award from the Association of University Radiologists and Harvard Excellence in Tutoring Award from Harvard Medical School in 2007. In 2015, Dr. Loukas was appointed as editor-in-chief of the journal Translational Research in Anatomy published by Elsevier. Dr. Loukas has published over 550 papers in peer reviewed journals, authored 15 books, which include Gray's Anatomy Review, Gray's Clinical Photographic Dissector of the Human Body, McMinn and Abrahams's Clinical Atlas of Human Anatomy 7th ed. and has authored 14 chapters in various medical and surgical books. He has also served as an editor and co-editor for 12 journals and reviewer for over 40

journals. His scientific interests include surgical anatomy and technique, cardiovascular pathology and medical education. Recently, his focus has been directed toward issues of integrated curriculum and faculty development in medical education with an emphasis on simulation and technology and effective teaching and assessment. Finally, in 2015, Dr. Loukas was elected the president elect of the American Association of Clinical Anatomists.



**Thomas Gest**

(Texas–USA)

*Paul L. Foster School of Medicine, Texas Tech University Health Sciences Center, Texas, USA*

Dr. Thomas Gest received his Bachelors degree in mathematics at Florida State University in 1973 and his Masters degree in archeology also from Florida State. He received his Ph.D. in physical anthropology from the University of Pittsburgh in 1983. After doing his post-doctoral studies at the University of North Dakota, Dr. Gest has held positions at the University of South Carolina College of Medicine, Medical College of Georgia, University of Arkansas for Medical Sciences, University of Michigan Medical School, and Texas Tech University Health Sciences Center Paul L. Foster School of Medicine, where he has the position of Professor of Anatomy. Dr. Gest has authored or co-authored 7 books, 11 programs of educational software, and 35 articles, and he developed the University of Michigan Anatomy web site, which is used throughout the world. Dr. Gest has served in various positions in the American Association of Clinical Anatomy and currently serves as co-editor of *Clinical Anatomy*. He has worked on various committees for the National Board of Medical Examiners and currently serves as a member of the Basic Science Task Force for the NBME. He is a member of the Federative International Programme for Anatomical Terminology for the IFAA (International Federation of Anatomy Associations), serving as Secretary of the Gross Anatomy Working Group. Dr. Gest serves on several editorial boards and is Chief Editor of *Anatomy for Medscape*.



**Shao-Xiang Zhang,**

(Chongqing–China)

*Institute of Digital Medicine, Third Military Medical University (TMMU), Chongqing, China*

Professor, PhD, MD, director of Institute of Digital Medicine, Third Military Medical University, China, President of Chinese Society of Anatomical Sciences (CSAS). Prof. Zhang earned his Ph.D. and M.D. at Third Military Medical University and had been in Bonn University as a visiting scholar for three years. His current research focus is on visible human, digital medicine and computer assisted surgery. He has devoted himself to Chinese Visible Human Project and is working hard with his team to make greater contributions to its application to clinical diagnosis and treatment. He is the chairman of Chinese Society of Digital Medicine.



**Hong-Jin Sui**

(Dalian–China)

*Department of Anatomy, Dalian Medical University, Dalian, China*

Prof. Sui is the first person who practiced plastination technique in China, the founder of Mystery of Life Museum, organizer of travelling anatomical exhibition of “Bodies ... the Exhibition” and “Sea Monsters” and author of several anatomical atlases. His major research field is in clinical anatomy and comparative anatomy.



**Bin Fang**

(Chongqing–China)

*School of Computer Science, Chongqing University, Chongqing, China*

Prof. Fang received the BS degree in electrical engineering from Xi’an Jiaotong University, Xi’an, China, the MS. degree in electrical engineering from Sichuan University, Chengdu, China, and the PhD degree in electrical engineering from the University of Hong Kong, Hong Kong, China. His research interests include computer vision, pattern recognition, medical image processing, biometrics applications, and document analysis. He has published more than 150 technical papers and is an Associate Editor of the *International Journal of Pattern Recognition and Artificial Intelligence*. He is a senior member of IEEE & member of IEEE SMC Pattern Recognition Committee.



**Yan-Li Guo**

(Chongqing–China)

*Director of Ultrasound Department, Southwest Hospital, Third Military Medical University, Chongqing, China*

Prof. Guo has got her doctor degree in human anatomy, histology and embryology from the third military medical university. Her research mainly focuses on the echocardiograph, the clinical application of visible human, digital medicine for the early diagnosis and monitoring of disease.



**Gordana Teofilovski-Parapid**

(Belgrade–Serbia)

*Institute of Anatomy “Niko Miljanic”, Faculty of Medicine, University of Belgrade & Serbia, Division of Cardiology, Clinical Center of Serbia, Belgrade, Serbia*

Professor of Anatomy and Chair for Studies in English at Belgrade University School of Medicine (BUSM). The youngest Department Head at the BU when elected in 1991, she was one of the founders of Studies in English at BUSM only 4 years later. Former Visiting Professor at Medical College of Ohio (Toledo, OH; USA), Georgetown University School of Medicine (Washington DC; USA), etc. Member of the Serbian Anatomical Society, Italian AA, AAA, Brazilian AA and Honorary Member of the Romanian Anatomical Society and Russian Association of Anatomists, Histologists and Embryologists. Author of over 150 publications, textbooks (including the first “Human Anatomy” for students of BU’s School of Pharmacy), chapters and co-authoring the Atlas of human CNS. Her research has been focused on left/right asymmetry in human and monkey brains, anatomical background for some psychiatric disorders and morphological evaluation of human and monkey coronary circulation.



**Oladapo Ashiru**

(Lagos-Nigeria)

Medical Art Center, 21 Mobolaji Bank Anthony Way, Ikeja, Lagos

Professor Oladapo A Ashiru has excelled as an internationally renowned reproductive endocrinologist, medical scientist/clinician, clinical researcher, medical educator and astute teacher. He has enormous experience in the health and education sectors of our development. 1. Outstanding contribution in basic and applied clinical science research as well as outstanding contribution in assisted reproductive technology. He discovered and reported the follicle stimulating hormone (FSH) positive feedback, and the mechanism regulating anterior pituitary FSH release. (CV Publications No. 3-12). Several plenary lectures were given internationally on this work. This knowledge is currently being used clinically in assisted conception technologies by injection of FSH as personal, metrodin, follistin and others. Provided postgraduate training, through his active research, for Nigerian medical doctors in the field of human anatomy, a discipline of medicine known for dearth of medical anatomists. Excellent contribution in assisted reproductive technology. He pioneered the technique of In-vitro fertilization and Embryo transfer in West Africa in 1983 (experimental), 1984 (human) and had with Professor Giwa-Osagie the first test-tube baby through IVF-ET in 1989. Furthermore he improved the technique for sperm for insemination. These techniques are now being used in the treatment of several cases of infertility. (CV Publication No.19, 21-24, 30 & 41). 2. Outstanding national and international collaborative research that enjoyed significant competitive funding from funding agencies. Developed and collaborated with many IVF centers in USA and Europe, on procedures necessary to improve the pregnancy rate using cutting edge technology in Assisted Reproduction. (CV Abstract No.45, 48, & 49). 3. Developed a new virtual image project for the teaching of human embryology for medical students, resident doctors, and eventually in counseling parents of Pediatrics patients with congenital abnormality. (CV Abstract No.46, 47, 50-52). 4. Excellent contribution in medical education and research from medical school through graduate school, post doctoral and till present time. (See CV for details). 5. Publication of Reproductive Health Magazine for public consumption. 6. Founding of the Oladapo Ashiru Reproductive Health Solutions Foundation.



**Susana Biasutto**

(Cordoba-Argentina)

Faculty of Medical Sciences, National University of Cordoba, Cordoba, Argentina

Susana N. Biasutto was born in Córdoba, Argentina, in 1956. In high school she specialized in Biology and Pedagogy and started medicine studies at the National University of Cordoba in 1974. At the time of university graduation (1979) she had just been student assistant at the Chair of Normal Anatomy (1975-79) and, simultaneously, at the Department of Surgery and the Emergency Area in the University Hospital of Clinics. At the same hospital, she was Resident of Surgery until 1983, accessing so her first title of Specialist in Surgery. Assistant Professor of Normal Anatomy since 1984 and of Surgery from 1986, Dr. Susana Biasutto graduated as Doctor in Medicine and Surgery (highest university title in 1988) and as University Professor (1989). From 1988 to 1990 was Faculty Secretary and from 1992 to 1996 was twice elected as member of the Faculty Directive Council. She accessed the charge of Associate Professor of Normal Anatomy in 1992; position

she kept and alternated with main professor up to now. Prof. Biasutto was also Associate Professor of Surgery from 1999 to 2004. From 1991 up to now she is a staff surgeon at Cordoba Emergency Hospital. She was also Main Professor of Anatomy in Medicine at the National University of La Rioja, Argentina (1999) and fellow at the Department of Surgery in the Istituto Nazionale dei Tumori (Milano, Italia; 1985-86). After having been officer in different positions at the "Asociación Rioplatense de Anatomía", "Asociación Argentino-Uruguaya de Anatomía" and "Sociedad Argentina de Ciencias Morfológicas", she was the first President of the Argentine Association of Clinical Anatomy, the President of the I Argentine Congress of Clinical Anatomy (2009) and the editor in Chief of the Argentine Journal of Clinical Anatomy since 2009. She was elected as Secretary of the International Federation of Associations of Anatomists (2014-19) in Beijing. Dr. Biasutto developed her professor career in Anatomy with similar dedication to teaching, research and special emphasis in the training of human resources.



**Nadir Prates**

(Sao Paulo-Brazil)

Institute of Biomedical Sciences, University of Sao Paulo, Sao Paulo, Brazil

High School: Rio Branco School, Sao Paulo, Brazil. Undergraduate School: Medical School, University of Sao Paulo, Brazil, 1969-1974. Medical Residence: General Surgery, Medical Hospital, University of São Paulo, 1975-1976. Graduate School: PhD in Anatomy, Institute of Biomedical Sciences, University of São Paulo. Honorary Degree as Doctor of Sciences, Honoris Causa, 1987. Professional Experience: Assistant Professor of Anatomy, Santo Amaro University, 1977- 1985. Professor of Anatomy, Special background in Respiratory and Cardiovascular System, Institute of Biomedical Sciences, University of Sao Paulo, 1986-2002.



**Patrice Le Floch-Prigent**

(Versailles-France)

Versailles-Saint Quentin University, Paris, France

Patrice LE FLOCH-PRIGENT is M.D (1978), Ph.D. (Biology: Gross-Anatomy, 1981), Ph.D. (Ethics, 2009). After his medical studies (1964 to 1972) in Paris, and Paris Cochin, Paris V, he was trained as an orthopedic surgeon (Gold medal of the Hôpitaux privés de Paris, 1978-79). Associate Professor since 1985 (national competitive examination). He has been teaching gross anatomy in the Paris-Ouest Medical School since 1974. He served 4 times in the Georgetown University Medical School (Washington D.C., USA) to teach during the annual trimester of gross-anatomy. He owns 7 university diplomas including one in Forensic Medicine. His is habilitated to the research direction (HDR) since 1985; member of the National Commission of the Universities (CNU) since 1994; Past-President of the French Association of Anatomists; Delegate in the EFEM. He published 71 papers and several hundred of communications. His research involves osteological studies specially in paleo-anthropology and primatology mainly by CT-scan and concerning the cephalic bones. The seriated cross-sections of the entire head of high vertebrates is his current, main research topic as the study of ancient anatomical models (since 1700).



**Fabrice Duparc**

(Rouen–France)  
Department of Orthopedics and Traumatology,  
University of Rouen, Rouen, France

He was born in 1959, September 15th. He graduated from Rouen University, Faculty of Medicine, in 1984. He worked a resident in 1984–1990 in Rouen and Paris. He received his Master of biological and medical sciences (anatomy, biomechanics, kinesiology) degree in 1989 and finished his Orthopedic Surgery residency in 1990. He graduated in Microsurgery – Experimental surgery in Rouen, 1988, June. He completed his Military National Service in Military Hospital (Paris) during 1987 August – 1988 July as a Medical Officer, Captain, Reserve Army. He worked as a fellow of Anatomy and Orthopedic Surgery during 1990 October 1st – 1994 August 31st. he received his Associate Professor degree (Anatomy, Orthopedic Surgery, Rouen University Hospital) in 1994 and PhD in Neurosciences in 1997. He worked as Habilitation to the Direction of Research. He was promoted as Professor (Anatomy, Orthopedic Surgery, Rouen University Hospital) in 2002. He was Associate Editor of locomotor system section for Surgical and Radiological Anatomy during 1993 – 2004. He is currently Editor in Chief of Surgical and Radiologic Anatomy since 2004, June 1st. he is married with three children.

**Diogo Pais**

(Lisbon–Portugal)  
NOVA Medical School, Faculdade de Ciências  
Médicas-UNL, Lisbon, Portugal

Diogo Pais was born in Lisbon, Portugal, in 1958. He graduated from the Faculty of Medical Sciences (NOVA University of Lisbon) in 1982, where he obtained his Master of Sciences Degree (1988) and his PhD (1996) in Medicine (Anatomy) with *summa cum laude*. He is Professor and Course Director of Gross Anatomy, Regional Anatomy, Medical Ethics and Law and Legal Medicine, in both pre and postgraduate courses, since 2008. He is Director of the Gross Anatomy Laboratory and Body Donation Officer at the NOVA Medical School. He was Visiting Professor at the Medical College of Ohio (Toledo, USA) from 1985 to 1987, having been awarded a fellowship by the INIC (National Institute of Scientific Research of Portugal – 1985) and the ECFMG (Educational Commission for Foreign Medical Graduates, USA – 1986–1987). He was honored by several teaching awards, namely “Best Teacher of the Year Award” in the Orthoptics Degree Course of the School of Health Technology of Lisbon in 1992/1993 and of the Dental Medicine Degree Course at the Faculty of Dentistry (University of Lisbon) in 2003/2004, 2005/2006, 2006/2007 and 2007/2008. At the NOVA Medical School | Faculty of Medical Sciences, in Lisbon, he is Member of the Pedagogic and Scientific Councils, Coordinator of the 3rd year of the Medical Degree Course and President of the Ethics Research Committee. He is a founding member of the Ethics Committee of the NOVA University of Lisbon. He is Vice-President-Treasurer of the ‘RedÉtica Association’ (the Portuguese National Association of Ethics Research Committees). Diogo Pais is a member of numerous Scientific Societies, having been awarded Honorary Membership of the Anatomical Society of Paris and of the Romanian Society of Anatomy and “Special” Membership of the Portuguese Society of Comparative Anatomy. He is currently President of the European Federation for Experimental Morphology (EFEM), President of the Portuguese Anatomical Society

(AAP|SAP) and Secretary of the International Committee of Symposia on Morphological Sciences (ICSMS). Diogo Pais’ main research interests are the microvasculature of tissues and organs, especially testis and epididymis, anatomical education and medical ethics. He is a member of the Editorial Board and referee of ‘Clinical Anatomy’, the ‘European Journal of Anatomy’, ‘Journal of Morphological Sciences’, ‘Annual Research & Review in Biology’, ‘Archives of Anatomy’, ‘Acta Médica Portuguesa – The Portuguese Medical Association’s Scientific Journal’ and ‘Journal of Medical Case Reports’. Diogo Pais is an Advisor for Gross Anatomy of FIPAT and a member of FICEM and FICTID of the International Federation of the Associations of Anatomists (IFAA) and a founding member of TEPARG.

**Lisardo Boscá**

(Madrid–Spain)  
Instituto de Investigaciones Biomédicas Alberto  
Sols, CSIC-UAM, 28029 Madrid, Spain

(Valencia, 1957) is Senior Research Professor at the Spanish Research Council (CSIC) and director of the Institute of Biomedical Research Alberto Sols, co-shared by CSIC and UAM. He is author of more than 180 original articles of research published in international journals in the field of biochemistry, molecular biology and immunology (J. Exp. Med; Nature Cell Biology, FASEB Journal, Gastroenterology, Blood, J. Clin. Invest., Proc. Natl. Acad. Sci. USA; J. Immunol; J. Biol. Chem.; Hepatology; Biochem. J., Nat Med.). He began his studies under the direction of Professor Alberto Sols investigating the effect of protein interactions in the regulation of carbohydrate metabolism. Later he continued his studies at Oxford, Brussels, London and Ottawa studying the role of protein kinase C on energy metabolism in tumor cells. From 1992 onwards he focuses on the study of the physiopathology of inflammatory processes investigating the contribution of inflammation to the onset of pathologies as diverse as myocarditis, septic shock, and the liver regeneration processes. In this context, he studied the role of reactive oxygen and nitrogen species, in particular nitric oxide, on the regulation of liver regeneration after partial hepatectomy as well as in macrophage activation and in the heart after sepsis or myocardial ischemia/reperfusion, demonstrating its role in processes of remodeling of the extracellular matrix. Recently, he focused on the study of the role of nuclear receptors in the regulation of the inflammatory response and its action in the regulation of gene expression in regenerating liver and the cardiomyocytes, as well as on metabolic reprogramming of macrophages as a tool to improve diagnostic imaging techniques. He is a member of the National Royal Academy of Pharmacy and of several international scientific societies.

**Gülgün Şengül**

(İzmir–Turkey)  
Department of Anatomy, Faculty of Medicine, Ege  
University, Izmir, Turkey

Dr. Gülgün Şengül (formerly Kayalioglu) was graduated from Ege University, School of Medicine in 1990. She received her degree as an anatomy specialist from the Department of Anatomy, Ege University, School of Medicine, Izmir, Turkey, where she still teaches human anatomy to medical and dentistry students. She worked as a senior research fellow in Karolinska Institute Department of Neuroscience in 1997 and 1998, and made four short term visits Neuroscience Research Australia

starting from 2008, where she has an ongoing atlas and research projects with Professor George Paxinos and Professor Charles Watson. Gülgün Şengül's research interests are spinal cord and brain stem anatomy, and pain pathways. She is one of the editors and author of six chapters in the comprehensive spinal cord book, *The Spinal Cord: A Christopher and Dana Reeve Foundation Text and Atlas*, published in 2009 by Elsevier. She was also involved in the production of the rat and mouse spinal cord atlases. These provide a significant platform on which further spinal cord research can be built. She has an ongoing collaboration with the Allen Institute for Brain Science (Seattle) on their gene atlas projects, the Mouse Spinal Cord Atlas and the brainstem part of the Human Brain Atlas. Dr. Sengul is also in the editorial board of the Elsevier Brain Navigator Project, an online atlas project. She has mapped the marmoset and rhesus monkey spinal cords and her most recent work is mapping the human spinal cord. These will be published in 'Atlas of the Spinal Cord of the Rat, Mouse, Marmoset, Rhesus, and Human – authors Gulgun Sengul, Charles Watson, Ikuko Tanaka, and George Paxinos- in October 2012.



**Emel Sokullu Urkac**

(Izmir–Turkey)

Assistant Professor, Katip Celebi University, Faculty of Engineering and Architecture, Izmir, Turkey

Optogenetics is the combination of genetics and optics to control well-defined events within specific cells of living tissue. It includes the discovery and insertion into cells of genes that confer light responsiveness; it also includes the associated technologies for delivering light deep into organisms as complex as freely moving mammals, for targeting light-sensitivity to cells of interest, and for assessing specific readouts, or effects, of this optical control. Light-responsive proteins allow scientists to turn neurons on or off selectively with unprecedented precision. Introducing these proteins into cultured cells or the brains of live animals allows investigation of the structure and function of neural networks. These 'optogenetic' tools also hold clinical promise, with the potential for modulating activity of brain circuits involved in neurological disorders or restoring vision loss.



**Aylin Şendemir Ürkmez**

(Izmir–Turkey)

Assistant Professor, Ege University, Faculty of Engineering, Bioengineering Department, Izmir, Turkey

Traditional two-dimensional (2D) cell culture system was a convenient way to study cell behavior in vitro, but it fails to mimic the in vivo cellular microenvironment in terms of cell-cell communications, cell-extracellular matrix (ECM) interactions, expression of cell surface receptors, cell proliferation characteristics, cell polarity, growth factor synthesis and cell differentiation characteristics, which all play key roles in cell morphology, behavior and functionality. Thus, to develop in vitro culture models and to investigate mammalian cell behavior for basic science, diagnostic and therapeutic purposes, use of different biomaterials and three dimensional (3D) cell culture systems are gaining importance. Effects of 3D substrates, biomaterial chemistry and microstructure on regulating mammalian cell morphology as well as the techniques to characterize cell behavior on these substrates will be discussed.



**Yannis Missirlis**

(Patras–Greece)

Department of Mechanical engineering and Aeronautics, University of Patras, Patras, Greece

Professor Yannis Missirlis graduated as Chemical Engineer from the NTUA (Athens-1969), received a M.Sc in Chemical Engineering, (Syracuse-USA, 1971) and his Ph.D. from Rice University (Houston-1973) in Biomedical Engineering. Prof. Missirlis was Assistant /Associate Professor at McMaster University (Canada,1974-1980) before joining the University of Patras in 1981, as a full Professor, directing since then the Laboratory of Biomechanics and Biomedical Engineering, until his retirement (1/9/2013). Prof. Missirlis has served as Vice-Rector of the University (1986-1988), as a member of the European, and the World Council of Biomechanics. He has coauthored a book: "Biomaterials, A Tantalus Experience" (Helsen-Missirlis, 2011), coedited 2 books: "Modern aspects of Protein Adsorption on Biomaterials" (Missirlis-Lemm, 1991) and "The role of Platelets in Blood-Biomaterial Interactions" (Missirlis-Wautier, 1993). He has published >80 peer-reviewed papers in international journals, several chapters in books, and currently is active in the area of cell-material interactions, mechanotransduction, tissue engineering, biomechanics from nano-to macro level. Professor Missirlis was unanimously elected an Honorary Member of the European Society of Biomechanics (by its General Assembly, in Boston, July 2014), and an Honorary Member of the European Society for Biomaterials (unanimous Council decision, April 2014).



**Yasuo Uchiyama**

(Tokyo–Japan)

Department of Cellular and Molecular Neuropathology, Juntendo University, Tokyo, Japan

Dr. Yasuo Uchiyama was born in Tokyo, Japan in 1947. He was graduated from Gunma University School of Medicine in 1972. He started clinical experience as a pediatrician, and then moved to basic researches, especially to the field of embryology. He received PhD degree in Tohoku University School of Medicine, and was appointed as an Associate Professor in Department of Embryology and Anatomy, School of Medicine, University of Tsukuba in 1981. Then, he gained his position as a full professor in Department of Cell Biology and Neurobiology, Osaka University Graduate School of Medicine in 1991. Since April of 2008, he has been working as a Professor in Juntendo University Graduate School of Medicine in Tokyo, and appointed as Director of University Research Institute for Diseases of Old Age in 2012. Dr. Uchiyama has more than 300 international publications including top journals such as Cell, Science and Nature, total citation of his publications is 20227 (average is 56.98 per publication), and h-index is 69. His scientific fields are molecular cell biology and neurosciences. He is the President of ICSMS (International Committee of Symposia of Morphological Sciences) since 2010 and the President of International Society of Histology and Cytology. He belonged to an Executive Member of Japanese Association of Anatomists (JAA) from 2005 to 2011 and the President of JAA from 2009 to 2011. He has been Editor-in-Chief of the Archives of Histology and Cytology, and Associate Editors of Autophagy, J Histochemistry and Cytochemistry, Acta Histochemica et Cytochemica, Neuroscience Research, and Anatomical International.

**Masayuki Miura***(Tokyo–Japan)**Department of Genetics, Graduate School of Pharmaceutical Sciences, The University of Tokyo and CREST, JST, Tokyo, Japan*

Dr. Masayuki Miura was born in Akita, Japan. He was graduated from Osaka University Graduate School of Science in 1985. He received PhD degree with his thesis titled “Transcriptional regulation and promoter function of mouse myelin basic protein gene” in 1988. He was appointed as instructor at Keio University, Japan, and then started the molecular genetic research about apoptosis as Fogarty International Research of Massachusetts General Hospital, USA from 1992-1994. He was appointed as assistant professor of Tsukuba University, Japan in 1995, associate professor of Osaka University, Japan in 1997, and PI position of RIKEN Brain Science Institute, Japan in 2001. He was appointed as professor of the University of Tokyo, Japan in 2003. Dr Miura is a Chair, the Board of Directors of The Japanese Society for Cell Death Research, a Board of Councillors of The Japanese Biochemical Society and a Board of Councillors of Japan Society for Proteases in Pathophysiology. Dr. Miura is a Vice Dean of Graduate School of Pharmaceutical Sciences, the University of Tokyo, Japan since 2014.

**Seda Vatansver***(Manisa–Turkey)**Department of Histology-Embryology, Faculty of Medicine, Celal Bayar University, Manisa, Turkey*

Prof. Vatansver was graduated in 1989 from Faculty of Medicine, Dokuz Eylul University. With a scholarship from the government, she completed her PhD in the Department of Human Anatomy and Cell Biology, Liverpool University between 1994-1997. Her academic career Celal Bayar University assistant professor of histology-embryology department between 1998-2004, associated professor and between 2004-2011 and she is full-time lecturer as a Professor in Celal Bayar University, Faculty of Medicine, Department of Histology-Embryology. Professional life so far, she took part in 100 project manager / researcher. She have 85 published article in international journals. Stem Cells and clinical use, cancer biology, individualized treatment, cell death, the oocyte culture and are concerned with in vitro fertilization techniques, and cell culture techniques are the histological and molecular techniques workspace.

**Devrim Gözüaçık***(Istanbul–Turkey)**Department of Molecular Biology, Genetics and Bioengineering, Sabancı University, Istanbul, Turkey*

Devrim Gozuacik received his M.D. degree from Hacettepe Medical Faculty, Ankara, in 1995, followed by a D.E.A. degree from Ecole Polytechnique, Paris. He was awarded a Ph.D. degree in molecular cell biology for his studies in Pasteur Institute, Paris and Necker Children’s Hospital Research Center, in 2001. During 2001–2006, he was a Postdoctoral Fellow in the Weizmann Institute of Science, Rehovot. Since Fall 2006, he moved to the Department of Molecular Biology,

Genetics and Bioengineering, Sabancı University, Orhanlı, Istanbul, Turkey, where he is currently an Associate Professor and a Research Team Leader. Dr Gozuacik is a specialist of cellular stress and death response mechanisms. Research in his laboratory focuses on autophagy regulation in mammals, autophagic cell death mechanisms, autophagy-apoptosis connection, and autophagy abnormalities in human diseases. He is the author of 40 publications that received more than 3000 citations. Dr Gozuacik is an Editorial Board Member of the Autophagy journal (Texas, USA) and Turkish Journal of Biology (TUBITAK, Turkey), and a referee of several prominent international journals. Additionally, Dr Gozuacik serves as a project and academic referee for several international and national agencies, including Cancer Research, UK, Wellcome Trust, UK, The Health Research Board, Ireland, Research Foundation Flanders, FWO, Belgium ve Katholieke Universiteit Leuven, Belgium etc. He is a Board of Directors Member of the International Cell Death Society (ICDS) based in New York, and a founding member of the Turkish Molecular Biology Association, and Turkish Cell Death Research Association. Dr Gozuacik is a recipient of prestigious international and national awards, including EMBO Strategic Development and Installation Grant (EMBO-SDIG), Turkish Academy of Sciences (TUBA) GEBIP Award, IKU Prof. Dr Onder Oztunalı Science Award and TGC Sedat Simavi Health Sciences Award.

**Guido Macchiarelli***(L’Aquila–Italy)**Department of Life, Health and Environmental Sciences and Center of Electron Microscopies, University of L’Aquila, L’Aquila, Italy*

Prof. Guido Macchiarelli, MD and Specialist in Cardiology. Full Professor of Human Anatomy; Director of the Center of Microscopy; University of L’Aquila, Italy. Secretary General of the “International Committee of Symposia of Morphological Sciences” (ICSMS). Commitments at the University of L’Aquila: Member of the “Senatus Academicus” (2001-04); Pro-Rector Delegate for ICT and E-learning (2004-10) and for Relations with Unions and Staff (2010-13); Vice-Dean Faculty of Medicine (2007-10). Director of the Department of Health Science (2011-12). Author of more than 330 publications, mainly on electron microscopy, reproductive and cardiovascular biology. H-index (GS): 24; n. of citations (GS): 1810.

**Stefania Annarita Nottola***(Rome–Italy)**Department of Anatomy, Histology, Forensic Medicine and Orthopaedics, Laboratory of Electron Microscopy “Pietro M. Motta”, University La Sapienza, Rome, Italy*

Stefania Annarita Nottola, MD, PhD, graduated in Medicine and Surgery from “Sapienza” University, Rome, Italy, in 1984 and was awarded a Research Doctoral degree from MIUR, Italy, in 1990. She worked as Assistant Professor in the Department of Anatomy, “Sapienza” University, from 1988 to 2000. Since 2000, Dr. Nottola has been Associate Professor of Anatomy in the same Department and, in 2014, she qualified to hold the role of Full Professor of Anatomy. Her research interests focus on reproductive biology and assisted reproduction, with particular regard to the ultrastructure of the ovaries, ovarian follicles and oocytes in humans and other mammals.



**Maria Grazia Palmerini**

(L'Aquila-Italy)

*Department of Life, Health and Environmental Sciences and Center of Electron Microscopies, University of L'Aquila, L'Aquila, Italy*

Maria Grazia Palmerini was born in L'Aquila, Italy, on 1977. She was graduated summa cum laude at the University of L'Aquila (Italy) on 2003. She received her PhD degree in Biotechnology at the University of L'Aquila on 2007 with a thesis entitled: "Expression of Akt and spindle configuration in in vitro matured metaphase II mouse oocytes" and tutored by Prof. Guido Macchiarelli. Part of the experimental research during her PhD course was conducted to the Laboratory of Animal Reproduction, at the Tohoku University, Sendai (Japan), under the guide of Prof. Eimei Sato. She, then, obtained the Residency summa cum laude in Clinical Pathology on 2012, University of L'Aquila, with a thesis entitled "Preservation of the ultrastructure of immature and mature human oocytes after Cryotop vitrification", tutored by Prof. Macchiarelli. From 2012, she is a postgraduate researcher in the Laboratory of Biotechnology of Reproduction, Department of Medicine, Health and Environmental Sciences, University of L'Aquila. As expert in microscopy techniques, such as fluorescent and confocal microscopy, electron microscopy, histology, her research activities focus on toxicant-induced impairment of female gamete production/function; morpho-functional alterations in human and mammalian oocytes and granulosa cells after in vitro maturation and/or cryopreservation; ovarian angiogenesis.



**Gulmira Zhurabekova**

(Aktobe-Kazakhstan)

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Dr. Gulmira Zhurabekova was born in Aktobe, Kazakhstan in 1975. She was graduated from West Kazakhstan Marat Ospanov state Medical University (WKMU), Faculty of General Medicine in 2001 and in 2002 Internship, Surgeon Department of Hospital Surgery, WKMU. She started her candidate researches at WKMU, Department of Normal and Topographical Anatomy in 2002 and received PhD degree with her thesis titled "Morphological characteristic structures of the adrenal cortex by prolonged formaldehyde exposure and the phytoprotection by "Licorice oil" in 2008 at the S.D.Asfendiarov Kazakh National Medical University, Almaty. After completing her military service, she was appointed as assistant professor to WKMU, Faculty of General Medicine, Department of Normal and Topographical Anatomy in 2009. She was head of the Department of innovative development and transfer of higher technology (2012), Executive Secretary of the Science Co-ordination Committee (2011), Head of Young Scientists' Board (2006-2010). Currently Dr. Zhurabekova G. is an editor-in-chief of "Medical Journal of West Kazakhstan" and Associate Executive Professor at the department of Normal Anatomy WKMU. Dr Zhurabekova is a member of Public Organization "Young doctors of Azerbaijan". She was an organizer of International medical conferences (Baku 2013, Aktobe 2014). Her scientific fields of interest: Female reproductive ovarian reserve; Reproductive health of woman of Aral Sea region; Medical education. Dr. Zhurabekova was awarded with «Bolashak» International Scholarship Scientific Internship at the Department of Biotechnological and Applied Clinical Sciences. University of L'Aquila Italy.



**Mohammad Ali Khalili**

(Yazd-Iran)

*Research and Clinical Center for Infertility, Shahid Sadoughi University of Medical Sciences, Yazd, Iran*

Dr. Mohammad Ali Khalili was born in Yazd, Iran in 1959. He received his BSc and MSc in Biology from Middle Tennessee State University in USA in 1983 and 1985. He started his doctoral studies at University of Mississippi, Faculty of Medicine, Department of Anatomy in 1989 and received PhD degree with his thesis titled "Ultrastructural and cellular recording of cerebral vascular system after SAH" in 1994. Then, he was appointed as assistant professor at Research and Clinical Center for Infertility, Shahid Sadoughi University Medical Sciences in 1995. He has been working at the same department as professor since 2011. Dr. Khalili has about 100 international publications and more than 150 presentations in international congresses. He has 2 international and 10 national scientific awards. His scientific fields of interest are ultramorphology of reproductive cells, embryo development and manipulation, cryopreservation of human gametes and embryo, IVF. In 2001, he took the visiting scientist post at KCRM (Kentucky Center for Reproductive Medicine) and University of Kentucky in Lexington, USA for 1 year. He joined department of Anatomy, Sapienza University in Rome, Italy in 2011, as sabbatical faculty. Dr. Khalili will join the department of Anatomy, university of L'Aquila, Italy as visiting professor in Nov 2015. Currently, Dr Khalili is president of ISRM (Iranian Society for Reproductive Medicine), Board member of Reproductive Biology appointed by Health Ministry of Iran, and scientific member of IJRM (Iranian Journal of Reproductive Medicine). Dr. Khalili has been Congress chairman of ICRM in 2009 and 2015 (International Congress of Reproductive Medicine). At present, he serves as supervisor of 14 PhD thesis projects in Reproductive Sciences.



**Beat M. Riederer**

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Beat M. Riederer was born in Zurich, did his studies in Basel. After a postdoc at the Friedrich Miescher Institute he became assistant professor at the M.S.Hershey Medical Center, Pennsylvania, USA. Since 1988 he is teaching human anatomy at the University of Lausanne, Faculty of Biology and Medicine (FBM), Switzerland. He is responsible for the locomotor system and pelvic floor, and teaches to a wide group of students in medicine, sports and sport management, fitness and architecture ; he supervises postgraduate courses and surgical master classes. He is responsible for the plastination labs at the morphology platform. He is a longstanding member of the TEPARG and currently serves as vice president. Anatomical research focuses on the set-up of teaching modules by master students in medicine, using various anatomical imaging techniques, dissections and polymer plastination. He is group leader at the Centre for Psychiatric Neurosciences (CNP), University Hospital Lausanne (CHUV), where he directs the Proteomic Unit and investigates oxidative stress in neurodegeneration and Alzheimer's disease by using a variety of protein labeling and proteomic techniques. Author of more than 200 publications in many peer reviewed Journals, including papers on body donation, plastination, teaching human anatomy and redox proteomics. Editor-in-chief of Laboratory Animals (UK) and

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**Erich Brenner**

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Born in Salzburg in 1965. He graduated in Medicine in June 1990 at the University of Innsbruck, Austria. In October 1996, he finished his education as Specialist in Anatomy. In March 2002, he earned a "Master of Medical Education" at the University of Bern, Switzerland. Anatomy teaching certificate in October 2003 at the University of Innsbruck, Austria. Associate Professor in Anatomy from 2004, and full Professor from November 2013 at the Division of Clinical and Functional Anatomy of the Department of Anatomy, Histology and Embryology, Medical University of Innsbruck. Fields of research prevalent: Functional anatomy of the locomotor apparatus; blood and lymph vessels; development and evaluation of medical curricula. Author of more than 90 original papers and reviews, and more than 30 chapters and books.



**Umit S. Şehirli**

*(Istanbul–Turkey)*

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Prof. Umit S. Şehirli, M.D, PhD was born in Rize Turkey in 1967. He was graduated from Marmara University School of Medicine, Istanbul in 1992. He had his obligatory service as a general practitioner in Hizan, Bitlis, in 1993-1994. He finished both specialty and PhD programs in Anatomy. He was appointed as an assistant professor of anatomy at Marmara University School of Medicine in 2001, became an associate professor in 2005 and full professor in 2011. He had international experience in Canada, Dalhousie University, Department of Anatomy and Neurobiology (2002) and in UK, Aston University, School of Health and Life Sciences, Physiology and Pharmacology Research Group (2006-

2007) as a visiting scientist. His research interests are the developmental properties of pedunculopontine nucleus, brain stem organization and degenerative changes in epilepsy. He also has studies on increasing cadaver donation in Turkey. He received several awards from Turkish Epilepsy Association and Brain Research Association. He was deputy director of Marmara University Institute of Health Sciences in between 2008-2010. He has been vice dean of Marmara University School of Medicine since September 2015.



**Javier Regadera**

*(Madrid–Spain)*

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Graduated from the School of Medicine of Universidad de Oviedo (Spain) in 1978. In 1979 he started his residency at the Pathology Department of Hospital La Paz (Universidad Autonoma de Madrid, UAM, Spain). In 1982 he defended his Doctoral Thesis entitled "Arterial alterations in testis of young normal and in elderly men with arteriosclerosis". This study obtained the first Doctoral Extraordinary Award of a Medical Doctoral Thesis at the School of Medicine of UAM. His research interests have focused in two main aspects. Firstly, in Human Surgical and Autopsy Pathology, particularly in testicular functional and tumoral pathology. He has been nominated Professor of the European Academy of Andrology. Secondly, his research has also focused in Human Vascular Pathology, animal models of cardiovascular disease and Pathobiology of the inflammation. He has supervised 29 Doctoral Thesis. He is author or co-author of four medical books and more than 150 scientific publications and textbook chapters. He has also directed more of 45 Postgraduate Medical Course of Pathology, Histology and Immunohistochemistry in Latin America. In addition, he has received in his laboratory more of 120 visiting professors of prestigious Universities of North and South America. Dr. Regadera has developed an intense international activity, participating in numerous congresses. Moreover, he is the Tutor of the International Agreements between UAM and Universidad Autónoma de Nuevo Leon UANL, Monterey (Mexico), and with the Universidad Nacional Autonoma de Nicaragua, UNAN-León Nicaragua. Dr. Regadera obtained the Annual Award 2013 of School of Medicine at Universidad Autonoma de Nuevo León, Monterrey México.