



WELCOME RECEPTION

EMK 2025 MSC 2025

27. ULUSAL ELEKTRON MİKROSKOPİ KONGRESİ

27TH NATIONAL CONGRESS OF ELECTRON MICROSCOPY

2ND INTERNATIONAL MICROSCOPY

AND SPECTROSCOPY CONGRESS

2. ULUSLARARASI MİKROSKOPİ VE SPEKTROSKOPİ KONGRESİ

25-27 EYLÜL 2025 / 25-27 SEPTEMBER 2025

ACIBADEM MEHMET ALİ AYDINLAR ÜNİVERSİTESİ TIP FAKÜLTESİ, HİSTOLOJİ VE EMBRİYOLOJİ ANABİLİM DALI ATAŞEHİR, İSTANBUL

ACIBADEM MEHMET ALİ AYDINLAR UNIVERSITY SCHOOL OF MEDICINE, DEPARTMENT OF HISTOLOGY AND EMBRYOLOGY ATAŞEHİR, İSTANBUL

MCC 2025 RIOLOGICAL SCIENCES PROGRAMME

				MSC 2025 BIOLOGICAL SC	IENCES PROGRAMME				
SEPTEMBER 25, 2025			SEPTEMBER 26, 2025			SEPTEMBER 27, 2025			
08:30-17:00	REGISTRATION		08:30-17:00	r-17:00 REGISTRATION		08:30-17:00	D8:30-17:00 REGISTRATION		
9:00-14:00	MICROSCOPY SCHOOL		09:00-09:40	O PLENARY LECTURE 2 - Conference Hall Chairs: Güldal Süyen, Merve Elmas		09:00-09:40	PLENARY LECTURE 3 - Conference Hall Chairs: Feray Bakan Mısırlıoğlu, Mehtap Kutlu		
				The Role of Astroglia in the Generation and Prevention of Seizures Emre Yakşi			AI-based Advances in Biomedical Microscopy and Pathology Aydoğan Özcan - ZOOM		
			09:40-10:10 COFFEE BREAK		09:40-10:00	0:00 COFFEE BREAK			
			10:10-12:10	PARALLEL SESSIONS		10:00-12:30	PARALLEL SESSIONS		
				BS Session 3 - Cell I - Conference Hall Chairs: Oya Evirgen, Meltem Müftüoğlu	BS Session 4 - Cell II - D1 Hall Chairs: Beki Kan, Agnes Kittel		BS Session 9 - Cell III - Conference Hall Chairs: Selma Yılmazer, Fatma Kaya Dağıstanlı	BS Session 10 - Microbiology - D1 Hall Chairs: Engin Yenilmez, Özgür Kurt	
				Lipid Droplets and Nuclear Structures Toyoshi Fujimoto - ZOOM (Invited)	Revisiting the Human Umbilical Cord. Unique Cells in a Surprisingly Fibrous Stroma Alp Can (Invited)		The Mitochondrial Relay with the Nucleus: Form and Function Michelangelo Campanella - ZOOM (Invited)	Investigation of Mechanism of Action of Newly Developed Wide Spectrum Peptide Antibiotics by Electron Microscopy Tanıl Kocagöz (Invited)	
				The Heterogeneous Blueprint: Regional Mapping of the Human Amniotic Membrane and Its Implications in Fundamental Research and Translation Roberta Di Pietro - ZOOM (Invited) Life Sciences Applications on FIB-SEM Volkan Erkut (Invited)	Imaging Gene Transcription Pavel Hozak (Invited)		Condensates that Control Transcription Factor Dimerization Batu Erman (Invited)	The Role of Microscopy in the Diagnosis of Parasitic Disease Ahmet Özbilgin (Invited)	
					Deciphering the Secrets of Extracellular Vesicles or the Limits of Classical TEM Examinations		Resolving Subcellular Structure Alterations in Cancer with (Correlative) Light and Electron Microscopy Nalan Liv (Invited)	Investigating Virus Infection Mechanisms in Situ Caner Akıl (Invited)	
				Oral Presentations	Agnes Kittel (Invited) Exosomes: Tiny Packages, Transformative Potential Biogenesis and Their Role in Medicine		Rewiring of Organelle Ultrastructure in HER2-Positive Breast Cancer Revealed through Volume Electron Microscopy Lakshmi Edakkandiyil (Invited)	Decoding the Replication Machinery of Nipah Virus: Struc and Molecular Insights Esra Balıkçı Akıl (Invited)	
			12:10-13:30	(0055, 0062) POSTER SESSIO	Seda Vatansever (Invited) N - Exhibition Hall		Visualization of EV Biogenesis and Secretion Using Advanced Light and Electron Microscopy Zahra Elly Soltani (Invited)	Global Air Isolated Workflow Solution for Battery Analysis From Cryo FIB to TEM Nicolas Ravier (Invited)	
			13:30-14:30	LU	INCH	12:30-13:30	ш	INCH	
			14:30-16:30	PARALLE BS Session 5 - Cell Death -	L SESSIONS BS Session 6 - Advanced Microscopy Techniques -	13:30-15:30	Confe	I 1- Organoids - ence Hall	
00-14:45 45-15:30	KEY NOTE LECTUR	OPENING CEREMONY - Conference Hall KEY NOTE LECTURE - Conference Hall		Conference Hall Chairs: Gözde Erkanlı Şentürk, Figen Kaymaz	D1 Hall Chairs: Naoto Kawakami, Esra Erdemli		Chairs: Dilek Akakın, Gamze Tanrıverdi Human Kidney Organoids to Model Glomerular Disorders and Kidney Fibrosis Jitske Jansen - ZOOM (Invited)		
Chairs: Serap Arbak, Servet Turan Unlocking the Power of SEM: Quantitative Imaging and 4D Diffraction Across Disciplines Vladislav Krzyzanek - President of the European Microscopy Society				Life Super-Resolution Imaging of Programmed Cell Death Barbara Conradt (Invited)	Intravital Imaging of Lymphocytes Using Multi-Photon Microscopy Naoto Kawakami (Invited)		Recent Advances in 3D Cell Culture: Revolutionizing Drug Disc Ranan Gülhan Aktaş (Invited)	overy and Disease Modeling Through Advanced Technologie	
				Can we Increase the Therapy Response of Brain Tumors by Epigenetic Interventions? Tuğba Bağcı Önder (Invited)	Microscopy in Transition: From Optical Lenses to Intelligent Algorithms Serçin Karahüseyinoğlu (Invited)		Enhanced Human Placenta Organoids with Immune and Vasco Therapeutic Testing Çiler Çelik Özenci (Invited)	ılar Components for In Vivo-Like Function, Disease Modeling	
				Hydra Bio Plasma-FIB Technologies for Multidisciplinary Research Meltem Sezen Özkoç (Invited)	Fast and Gentle Live Imaging with Spinning Disk Confocal Microscopy in Life Sciences Rahul Kumar (Invited)		Genetics and Modeling of Neurological Disorders Kaya Bilgüvar (Invited)		
				Cryogenic TEM Sample Holder and MEMS-Chips Development for In Situ Cooling, Heating and Biasing Applications	Redefining 2D/3D Imaging: Introducing new 120kV TEM Gaurav Sharma (Invited)				
30-16:00	COFFEE BREAK			David Westmoreland (Invited)	Gaurav Silarina (iliviteu)	15:30-15:45	COFFI	E BREAK	
00-16:40	PLENARY LECTURE 1 - Conference Hall Chairs: Melek Öztürk, Deniz Yücel Al-Powered 3D Cell-Level Imaging for Disease Studies and Therapeutic Development Ali Ertürk		16:30-17:00	COFFE	E BREAK	15:45-17:30		SENTATIONS	
			17:00-19:00	BS Session 7 - Biomaterials -	EL SESSIONS BS Session 8 - Developmental Biology - D1 Hall		OP Session 2 - Tissue and Systems II - D1 Hall Chairs: Özlem Tuğçe Çilingir Kaya, Esin Yuluğ (0067, 0075, 0087, 0064, 0093, 0102)	OP Session 3 - Biomaterials - D2 Hall Chairs: Duygu Gök Yurtseven, Başak Işıldar (0106, 0083, 0088, 0022)	
:40-18:40	PARALLE	L SESSIONS		Conference Hall Chairs: İpsita Roy, Halime Kenar	Chairs: Feriha Ercan, Abit Aktaş			OP Session 4 - Microscopy Techniques - D2 Hall Chairs: Elif Kervancıoğlu Demirci, Merve Elmas	
	BS Session 1 - Neuroscience - Conference Hall Chairs: Özhan Eyigör, Filiz Onat	BS Session 2 - Cancer - D1 Hall Chairs: Gamze Güney, Gamze Tanrıöver		Biomimetic Bioprinting for Tissue/Organ Engineering Bahattin Koç (Invited)	Morphological and Epigenetic Outcomes in a Mouse Model of Assisted Reproductive Technologies Marisa Bartolomei - ZOOM (Invited)			(0033, 0099, 0034, 0059)	
	Uncoupling of Aging from Cancer Propagation by Hypothalamic Feeding Circuits Involving the Immune System Tamas Horvath - ZOOM (Invited)	Sevin Turcan - ZOOM (Invited) Sevin Turcan - ZOOM (Invited) Sevin Turcan - ZOOM (Invited) Sevin Turcan - ZOOM (Invited) Multiomics in Minutes: The Next Frontier of Non-Invasive Cancer Diagnostics Approaches Roya Khosravi-Far (Invited)		Natural and Sustainable Polymers of Bacterial Origin and Their Biomedical Applications Ipsita Roy (Invited)	Technological Tour de Force in Creating True Interspecies Hybrids with Both a Hybrid Genome and Hybrid Cytoplasm	17:30-18:00	7:30-18:00 CLOSING AND AWARD CEREMONY MSC 2025 IS SPONSORED BY EUROPEAN MICROSCOPY SOCIETY		
	Blood-Brain Barrier as an Obstacle in the Treatment of Neurodegenerative Diseases; Current Considerations and Novel Approaches Bülent Ahıshalı (Invited)			Morphological Evaluation of Biomolecule-Conjugated Nanomedicine Platforms Özgül Gök Özatay (Invited)	Leyla Satı (Invited) OP Session 1 - Tissue and Systems I - D1 Hall Chairs: Deniz Yücel, Pınar Köroğlu (0028, 0046, 0027, 0115, 0116)				
	sualizing Nervous System Regeneration in Zebrafish. tefan H. Fuss (Invited) Oral Presentations (0031, 0037, 0096, 0044)			Theranostics Bükem Tanören (Invited)					
	Oral Presentations (0079)		20:00	GALA DINNER					
40.00	WEI CALLE DECENTION								