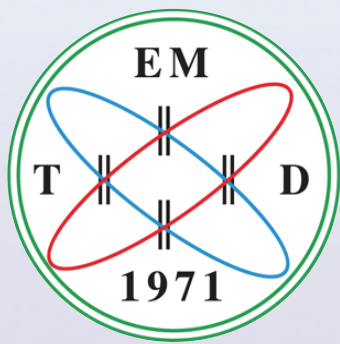


ACIBADEM
MEHMET ALİ AYDINLAR
UNIVERSITY

EMK 2025

27. ULUSAL ELEKTRON
MİKROSKOPİ KONGRESİ

27TH NATIONAL CONGRESS
OF ELECTRON MICROSCOPY

MSC 2025

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

MSC 2025 BIOLOGICAL SCIENCES PROGRAMME

SEPTEMBER 25, 2025		SEPTEMBER 26, 2025		SEPTEMBER 27, 2025	
08:30-17:00	REGISTRATION	08:30-17:00	REGISTRATION	08:30-17:00	REGISTRATION
09:00-14:00	MICROSCOPY SCHOOL	09:00-09:40	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 Yakşı		AI-based Advances in Biomedical Microscopy and Pathology Aydoğan Özcan - ZOOM	
		09:40-10:10	COFFEE BREAK	09:40-10:00	COFFEE BREAK
		10:10-12:10	PARALLEL SESSIONS	10:00-12:30	PARALLEL SESSIONS
		BS Session 3 - Cell I - Conference Hall Chairs: Oya Evirgen, Kamila Hrubanova		BS Session 9 - Cell III - Conference Hall Chairs: Selma Yılmaz, Fatma Kaya Dağıstanlı	
		BS Session 4 - Cell II - D102 Hall Chairs: Beki Kan, Agnes Kittel		BS Session 10 - Microbiology - D102 Hall Chairs: Engin Yenilmez, Özgür Kurt	
		Lipid Droplets and Nuclear Structures Toyoshi Fujimoto - ZOOM (Invited)		The Mitochondrial Relay with the Nucleus: Form and Function Michelangelo Campanella - ZOOM (Invited)	
		Revisiting the Human Umbilical Cord. Unique Cells in a Surprisingly Fibrous Stroma Alp Can (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)		Condensates that Control Transcription Factor Dimerization Batu Erman (Invited)	
		Imaging Gene Transcription Pavel Hozak (Invited)		The Role of Microscopy in the Diagnosis of Parasitic Diseases Ahmet Özbilgin (Invited)	
		Life Sciences Applications on FIB-SEM Volkan Erkut (Invited)		Resolving Subcellular Structure Alterations in Cancer with (Correlative) Light and Electron Microscopy Nalan Liv (Invited)	
		Deciphering the Secrets of Extracellular Vesicles or the Limits of Classical TEM Examinations Agnes Kittel (Invited)		Investigating Virus Infection Mechanisms in Situ Caner Akıl (Invited)	
		Oral Presentations (0055, 0062)		Rewiring of Organelle Ultrastructure in HER2-Positive Breast Cancer Revealed through Volume Electron Microscopy Lakshmi Edakkandiyl (Invited)	
		Exosomes: Tiny Packages, Transformative Potential Biogenesis and Their Role in Medicine Seda Vatansever (Invited)		Decoding the Replication Machinery of Nipah Virus: Structural and Molecular Insights Esra Balıkcı Akıl (Invited)	
14:00-14:45	OPENING CEREMONY - Conference Hall	12:10-13:30	POSTER SESSION - Exhibition Hall	12:30-13:30	LUNCH
	Opening and Welcoming	13:30-14:30	LUNCH	13:30-15:30	BS Session 11- Organoids - Conference Hall Chairs: Dilek Akakin, Gamze Tanrıverdi
	Moment of Silence				
	National Anthem				
	Prof. Dr. Serap Arbak Chair-MSK 2025 and EMK 2025 / President- Turkish Society for Electron Microscopy				Human Kidney Organoids to Model Glomerular Disorders and Kidney Fibrosis Jitske Jansen - ZOOM (Invited)
	Prof. Dr. Güldal Süyen Vice Rector- Acibadem Mehmet Ali Aydınlar University				Recent Advances in 3D Cell Culture: Revolutionizing Drug Discovery and Disease Modeling Through Advanced Technologies Ranan Gülhan Aktaş (Invited)
	Music Performance Gizem Kosif (Piano) & Can Gözüm (Saxophone)				Enhanced Human Placenta Organoids with Immune and Vascular Components for In Vivo-Like Function, Disease Modeling, and Therapeutic Testing Çiler Çelik Özenci (Invited)
	Tango Dance Performance Melis Aydın & Barış Karahasan				Genetics and Modeling of Neurological Disorders Kaya Bilgüvar (Invited)
14:45-15:30	KEY NOTE LECTURE - Conference Hall 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	16:30-17:00	COFFEE BREAK	15:30-15:45	COFFEE BREAK
15:30-16:00	COFFEE BREAK	17:00-19:00	PARALLEL SESSIONS	15:45-17:30	ORAL PRESENTATIONS
16:00-16:40	PLENARY LECTURE 1 - Conference Hall Chairs: Melek Öztürk, Deniz Yücel		BS Session 7 - Biomaterials - Conference Hall Chairs: İpsita Roy, Halime Kenar		OP Session 2 - Tissue and Systems II - D102 Hall Chairs: Özlem Tuğçe Çilingir Kaya, Esin Yuluğ (0067, 0075, 0087, 0064, 0093, 0102)
	AI-Powered 3D Cell-Level Imaging for Disease Studies and Therapeutic Development Ali Ertürk		BS Session 8 - Developmental Biology - D102 Hall Chairs: Feriha Ercan, Abit Aktaş		OP Session 3 - Biomaterials - D103 Hall Chairs: Duygu Gök Yurtseven, Başak Işıldar (0106, 0083, 0088, 0022)
16:40-18:40	PARALLEL SESSIONS		Biomimetic Bioprinting for Tissue/Organ Engineering Bahattin Koç (Invited)		OP Session 4 - Microscopy Techniques - D103 Hall Chairs: Elif Kervancıoğlu Demirci, Merve Elmas (0033, 0099, 0034, 0059)
	BS Session 1 - Neuroscience - Conference Hall Chairs: Özhan Eyigör, Filiz Onat		Morphological and Epigenetic Outcomes in a Mouse Model of Assisted Reproductive Technologies Marisa Bartolomei - ZOOM (Invited)	17:30-18:00	CLOSING AND AWARD CEREMONY Conference Hall
	BS Session 2 - Cancer - D102 Hall Chairs: Gamze Güney, Gamze Tanrıöver		Morphological and Epigenetic Outcomes in a Mouse Model of Assisted Reproductive Technologies Marisa Bartolomei - ZOOM (Invited)		
	Uncoupling of Aging from Cancer Propagation by Hypothalamic Feeding Circuits Involving the Immune System Tamas Horvath - ZOOM (Invited)		Natural and Sustainable Polymers of Bacterial Origin and Their Biomedical Applications Ipsita Roy (Invited)		
	The Role of IDH Mutations in Brain Tumors Şevin Turcan - ZOOM (Invited)		Morphological Evaluation of Biomolecule-Conjugated Nanomedicine Platforms Özgül Gök Özatay (Invited)		
	Blood-Brain Barrier as an Obstacle in the Treatment of Neurodegenerative Diseases; Current Considerations and Novel Approaches Bülent Ahışahı (Invited)		Morphological Evaluation of Biomolecule-Conjugated Nanomedicine Platforms Özgül Gök Özatay (Invited)		
	Visualizing Nervous System Regeneration in Zebrafish. Stefan H. Fuss (Invited)		Theranostics Bükem Tanören (Invited)		
	Oral Presentations (0079)	20:00	GALA DINNER		
19:00	WELCOME RECEPTION				

