



Federation of European Toxicologists & European Societies of Toxicology

The 2nd Course on Molecular Toxicology

22-24 May 2024

Ege University - İzmir, Türkiye

EUROTOX - Molecular Toxicology Specialty Section (<http://www.eurotox.com/molecular-toxicology/>) is organizing *The 2nd Course on Molecular Toxicology* in collaboration with Ege University Faculty of Pharmacy and the Turkish Society of Toxicology between May 22 and May 24, 2024.

Why should you attend this course?

Molecular toxicology is the discipline that particularly emerged in recent years due to the paradigm shift currently underway in the field of toxicology. This shift involves transitioning from classical toxicology, focusing on apical endpoints of toxicity in animal models, to more predictive in vitro toxicology, relying on information on toxicity mechanisms.

Driven by these recent developments, the Molecular Toxicology Specialty Section within EUROTOX aimed to establish a comprehensive modular education and training in this field. In this 2nd course, a series of state-of-the-art lectures related to 4 themes will be provided, namely, General principles, Receptor-mediated toxic outcomes, Targets and cellular responses, and Approaches to toxicity prediction. Each lecture within these themes will elaborate on both the basics and progress regarding specific topics pertinent to the molecular toxicology area. This 2.5 days' course will be assessed by a multiple-choice exam.

This course is the 2nd of its kind and has been recognised as an ERT Course on the core topic [B4: Molecular and Cellular Toxicology](#).

Who should attend this course?

This course is intended for (post)doctoral students and early-stage scientists from industry, academia or regulatory agencies who recently became active in the field of toxicology. Applicants should ideally have a background in toxicology, pharmaceutical sciences, biology, chemistry, (bio)medical sciences, veterinary sciences or equivalent.

How can I register?

To register, please complete the registration form (3rd page) and email it to ecz.kemal.atmaca@gmail.com along with the bank receipt of the registration fee and any additional payments of your choice (Group Dinner and/or Daily Tour to Ephesus). Registration will be completed after the email confirmation from the Organizing Committee. **The number of attendees will be limited to 40.**

Prof. Dr. Angela Mally, Ph.D., E.R.T
Chair of the Molecular Toxicology Specialty Section

Prof. Dr. Hilmi Orhan, Ph.D., E.R.T
Chair of the Local Organizing Committee



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DAY 1. May 22nd, Wednesday

08:30-09:00	Welcoming	Hande Gürer Orhan, Dean Faculty of Pharmacy
	Introduction	Hilmi Orhan, LOC Chair
09:00-12:30	RECEPTOR-MEDIATED TOXIC OUTCOMES	
09:00-09:45	Xenoreceptors: PARP, CAR, PXR, KEAP and Nrf-2	Hartmut Jaeschke
09:45-10:30	Modes of Cell Death	Hartmut Jaeschke
10:30-11:00	Coffee break	
11:00-11:45	AhR Receptors	Jan Vondracek
11:45-12:30	Hormone Receptor-Mediated Toxic Outcomes	Bayram Yilmaz
12:30-13:30	LUNCH	
13:30-18:15	APPROACHES TO TOXICITY PREDICTION	
13:30-14:45	Adverse Outcome Pathways	Mathieu Vinken
14:45-15:30	Liver-based <i>In Vitro</i> Models: Tools for Molecular Toxicology Research	Mathieu Vinken
15:30-16:00	Coffee break	
16:00-16:45	New Approach Methodologies (NAM)-based Testing	Thomas Hartung
16:45-17:30	Novel Computational Approaches to Predict Drug Metabolism and Toxicity	Atilla Akdemir
17:30-18:15	Zebrafish as an <i>In Vitro</i> Toxicity Testing Model	Gülçin Çakan Doğan

DAY 2. May 23rd, Thursday

09:00-12:30	GENERAL PRINCIPLES	
09:00-09:45	Hormesis: Biphasic Dose Responses In Biology, Toxicology and Medicine	Edward Calabrese
09:45-10:30	The Continuing Role of Biotransformation in Toxicology	Peter Guengerich
10:30-11:00	Coffee break	
11:00-11:45	Chemical and Biological Properties of Reactive Intermediates	Peter Guengerich
11:45-12:30	Membrane Lipid Structure and Cell Signalling.....	Suna Sabuncuoğlu
12:30-13:30	LUNCH	
13:30-17:00	TARGETS AND CELLULAR RESPONSES-1	
13:30-14:15	The Historical Foundations of Cancer Risk Assessment	Edward Calabrese
14:15-15:00	Physiological and Toxicological Functions of MicroRNAs	Timothy Gant
15:00-15:30	Coffee break	
15:30-16:15	Risk Factors Involved Interindividual Susceptibility and Genetic Polymorphism	Sinan Süzen
16:15-17:00	Cellular Responses to DNA Damage and Genotoxicity Testing	Marcus Cooke

DAY 3. May 24th, Friday

09:00-12:30	TARGETS AND CELLULAR RESPONSES-2	
09:00-09:45	Mitochondrial Dysfunction Induced by Chemicals	Hilmi Orhan
09:45-10:30	ER Stress and Consequences	Jan Vondracek
10:30-11:00	Coffee break	
11:00-11:45	Ion Channels and Ion Imbalances in Adverse Outcomes.....	Metiner Tosun
11:45-12:30	Protein Modification and Cellular Responses	Angela Mally
12:30-14:00	LUNCH	
14:00-16:30	Multiple choice exam	
20:00-	Group Dinner	

May 25th, Saturday

09:00-16:00	Excursion	
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	Kayıt Ücreti*
Akademi veya Kamu	75 EUR
Endüstri	250 EUR

*Kayıt ücretine tüm derslere katılım, dijital ve basılı kurs materyalleri, öğle yemekleri ve kahve molaları dahildir. Kayıt ücreti ve diğer ek ücretler ödenirken yüksek banka komisyonundan etkilenmemek için transfer anında Merkez Bankası döviz satış kuru esas alınarak TL ödenebilir.

İsteğe bağlı ek ücretler:

- Grup Yemeği (24 Mayıs 2024) 30 EUR
- Efes Günlük Tur (25 Mayıs 2024) 75 EUR (tur + öğle yemeği)

KONAKLAMA SEÇENEKLERİ

Üniversite Konukevi: Etkinliğin yapılacağı Eczacılık Fakültesine 10 dakikalık yürüme mesafesindedir.

Günlük ücret tek kişilik oda için kişi başı 35,5 Avro'dur (kahvaltı dahil). **Rezervasyon** +90 232 311 21 33 numaralı telefondan doğrudan veya ecz.kemal.atmaca@gmail.com adresinden organizasyon aracılığıyla yapılabilir.

Coordinat Suits, Ege Üniversitesi'ne 3 metro durağı mesafesindedir.

Günlük ücret tek kişilik oda için kişi başı 73 Avro'dur (kahvaltı dahil).

Rezervasyon doğrudan <https://coordinatsuits.com> ya da ecz.kemal.atmaca@gmail.com adresinden yapılabilir.

Lütfen aşağıdaki formu doldurun ve kayıt ücreti ve ek ödemeler (Grup Yemeği ve/veya Efes Antik Kenti Günlük Turu) için banka dekontu ile birlikte ecz.kemal.atmaca@gmail.com adresine gönderin:

Hesap Adı: Kemal ATMACA € IBAN:TR280003200000000124117319 SWIFT:TEBUTRISXXX
TL IBAN:TR770003200000000124414421

Ad-Soyad:
Bağlı Kuruluş:
Kayıt Tipi: Akademi Endüstri
Geliş Tarihi:
Ayrılış Tarihi:
Oda Tercihi: Tek Çift
Grup Yemeği: Evet Hayır
Efes Günlük Tur: Evet Hayır

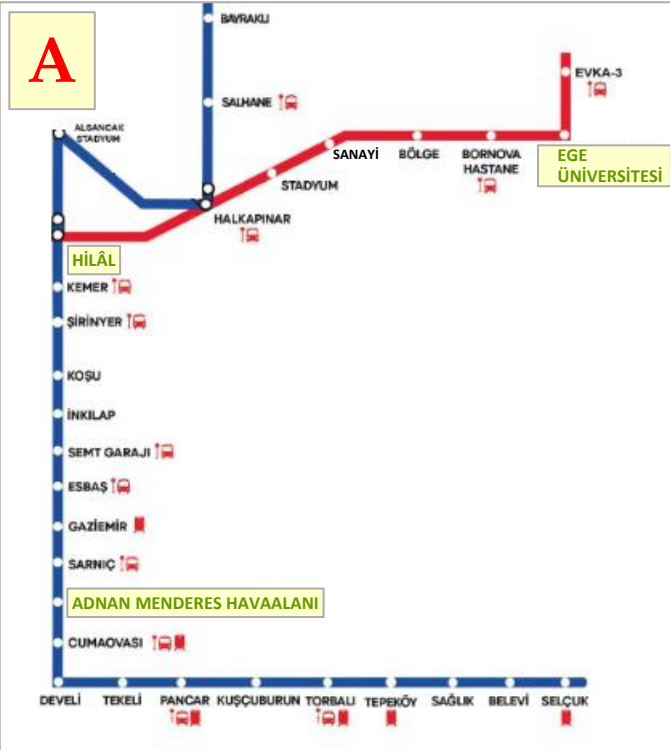
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Havaalanından E.Ü. Konukevine nasıl ulaşabilirsiniz?

- 1) Adnan Menderes Havalimanı'nda İZBAN hattından Menemen/Aliağa yönüne giden trene binin (A).
- 2) 20-25 dakikalık bir yolculuktan sonra Hilal aktarma istasyonunda inip (A) aynı bilet hakkı ile metro hattına geçin.
- 3) Bornova yönüne giden metroya binmek için "Bornova" ve/veya "Evka-3" platformundan metroya binin.
- 4) Ege Üniversitesi istasyonunda inin (A).
- 5) Yaklaşık 5 dk'lık mesafedeki Ege Üniversitesi Konukevi'ne ulaşmak için haritada mavi noktalarla gösterilen yolu takip edin (B).



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Havaalanından Coordinat Suits'e nasıl ulaşabilirsiniz?

- 1) Adnan Menderes Havalimanı'nda İZBAN hattından "Menemen" ya da "Aliğa" yönüne giden trene binin (A).
- 2) 20-25 dakikalık bir yolculuktan sonra Hilal aktarma istasyonunda inin.
- 3) Coordinat Suits'e (3. Sanayi durağı) giden metroya binmek için "Evka-3" ya da "Bornova" yönünde ilerleyin ve metroya binin.
- 4) Sanayi durağında inin.
- 5) 5 dakika yürüyerek (A) ve (B)'de gösterildiği gibi Coordinat Suits oteline ulaşın.
- 6) Otelden kurs yerine ulaşmak için Sanayi durağından metroya binin ve Ege Üniversitesi'nde (3. istasyon) inin. İstasyondan sağ çıkıştan çıkın, mavi noktaları takip ederek Eczacılık Fakültesine ulaşın (C).

