



Federation of European Toxicologists & European Societies of Toxicology

The 2nd Course on Molecular Toxicology

22-24 Mayıs 2024

Ege Üniversitesi - 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 | Opening and Introduction | Hilmi Orhan |
| 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 Yılmaz |
| 12:30-13:30 | LUNCH | |
| 13:30-17:30 | 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 | Atila Akdemir |
| 17:30-18:15 | Zebrafish as an <i>In Vitro</i> Toxicity Testing Model | Gülçin Çakan Doğan |

DAY 2. May 23rd, Thursday

| | | |
|-------------|---|------------------|
| 09:00-11:45 | GENERAL PRINCIPLES | |
| 09:00-09:45 | Structure-Activity and Dose-Response Relationships | 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 | Carcinogenesis and 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

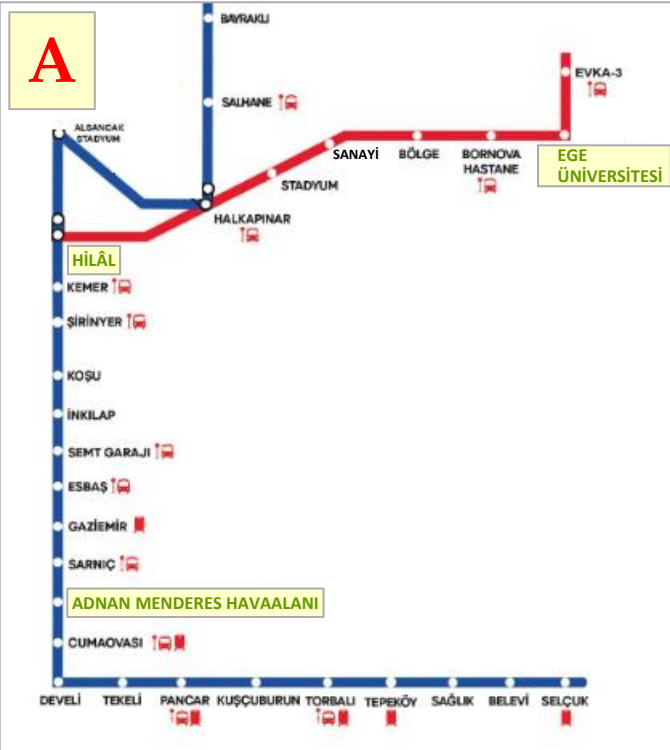
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Havaalanından E.Ü. Konukevine nasıl ulaşabilirsiniz?

- 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).

