



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	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 Yilmaz
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	Atilla Akdemir
17:30-18:15	Zebrafish as an <i>In Vitro</i> Toxicity Testing Model	Gülçin Çakan Doğan

DAY 2. May 23rd, Thursday

09:00-11:45	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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	Registration fee*
Academia or government	250 EUR
Industry	300 EUR

*Registration fee includes attendance to all lectures, digital and printed course materials, lunches, and coffee breaks.

Additional optional expenses:

- Group dinner (24 May 2024) 30 EUR
- Daily tour to Ephesus (25 May 2024) 75 EUR (tour + lunch)
entrance fee on your own

ACCOMMODATION

University Guesthouse: Located a 10 min. walk to the venue.

The daily rate is 35,5 EUR per person for a single room (including breakfast).

Booking can be made directly by calling +90 232 311 21 33 or via the organization at ecz.kemal.atmaca@gmail.com

Coordinat Suits, is within walking distance to the metro station for easy access to Ege University (3 stops).

The daily rate is 73 EUR per person for a single room (inc. breakfast).

Booking can be done directly on <https://coordinatsuits.com> or via the organization at ecz.kemal.atmaca@gmail.com

Please fill in the form below and return it to ecz.kemal.atmaca@gmail.com along with the bank receipt for the registration fee and any additional payments (Group Dinner and/or Daily Tour to the ancient city of Ephesus):

Account holder: Kemal ATMACA **IBAN:** TR280003200000000124117319 **SWIFT:** TEBUTRISXXX

Name-surname:
Affiliation:
Registration type:	<input type="checkbox"/> Academia <input type="checkbox"/> Industry
Arrival date:
Departure date:
Room preference:	<input type="checkbox"/> Single <input type="checkbox"/> Double
Group dinner:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Daily tour to Ephesus:	<input type="checkbox"/> Yes <input type="checkbox"/> No

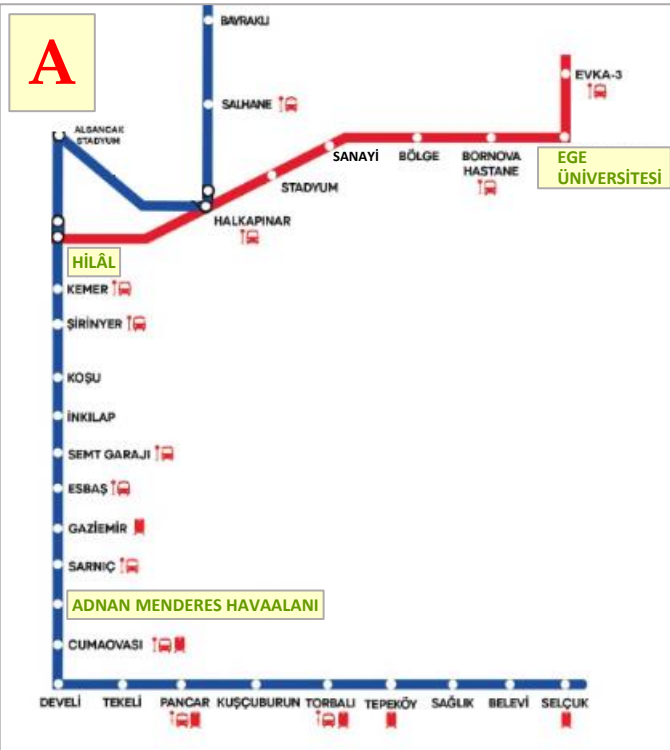
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How can you reach the Ege University Guest House from Adnan Menderes Airport?

- 1) Take the IZBAN line at Adnan Menderes Airport toward Menemen and/or Aliğa (A).
- 2) After a journey of approximately 20-25 minutes, disembark at the transfer station, Hilal (A).
- 3) To catch the subway towards Bornova, proceed in the direction marked "Bornova" and/or "Evka-3" and board the train.
- 4) Get off at Ege University station (A).
- 5) To reach Ege University Guesthouse (E.U. Konukevi) at 5 min, follow the direction indicated by blue dots (B).



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How can you reach Coordinat Suits from Adnan Menderes airport?

- 1) To reach Coordinat Suits, take the IZBAN train to the direction of "Menemen" or "Aliğa" at Adnan Menderes Airport.
- 2) After a journey of approximately 20-25 minutes, disembark at the transfer station, Hilal (A).
- 3) To catch the subway towards Coordinat Suits (at the Sanayi metro station), proceed in the direction marked "Evka-3" or "Bornova", and board the subway.
- 4) Alight at Sanayi station (A).
- 6) Walk about 5 minutes, as indicated in (A) and (B) to reach the hotel, Coordinat Suits.
- 7) To reach the course venue from the hotel, board the train at Sanayi station, and alight at "Ege Üniversitesi" (3rd station). Exit the station from the right exit, follow the blue dots, and find the Faculty of Pharmacy (C).

