

Esra Balcioglu, Ph.D.

Assistant Professor of Forensic Chemistry and Toxicology, Forensic Sciences, Biology

Department of Computer, Mathematical and Physical Sciences

Department of Homeland Security & Criminal Justice

Sul Ross State University

MAB 112A, PO Box C-12

Alpine, TX 79832

Tel #: (432) 837-8337

esra.balcioglu@sulross.edu

<https://srinfo.sulross.edu/fs/exb25kc>

EDUCATION

- 2019 **Ph.D.**, Ankara University, Department of Interdisciplinary Forensic Sciences
Institute for Health Sciences, Forensic Chemistry and Forensic Toxicology
Doctoral Program
- 2011 **M.Sc.**, Turkish National Police University, Department of Forensic Sciences
Institute for Security Sciences
- 2006 **M. Courses**, Ankara University, Chemistry, Institute of Science
- 2003 **B.Sc.**, Ankara University, Department of Biology Faculty
of Sciences
- 1999 **A.S.**, Hacettepe University, Department of Medical Laboratory.
School of Health Services

ACADEMIC & PROFESSIONAL EXPERIENCE

2025- **Assistant Professor,**

Department of Computer, Mathematical and Physical Sciences at Sul Ross State University.

Department of Homeland Security & Criminal Justice at Sul Ross State University.

2023-2024 **Researcher,**

Department of Cell Biology and Biochemistry-Thomas Lab., Health Sciences Center, Texas
Tech. University.

2015-2019 **Senior Biologist,**

Faculty of Medicine Cebeci Central Laboratory, Metabolism Unit. Ankara University.

2017-2022 **Vice Chairman,**

Turkish Association of Forensic Toxicology.

2005-2015 **Biologist,**

Faculty of Pharmacy, Central Laboratory - Analytical Chemistry. Ankara University.

2013-2014 **Visitor Researcher,**

Department of Allied Health Sciences, Faculty of Health and Life Sciences, De Montfort
University, Leicester, UK.

2004-2005 **Biologist**,

Institute of Biotechnology, Central Laboratory, Proteomics Unit, Ankara University.

2002-2004 **Laboratory Assistant**,

Department of Chemistry, Biochemistry and Tissue Engineering Laboratory, Faculty of Science, Ankara University

Ph.D. Dissertation Effect on DNA Damage of Gene Polymorphisms (MnSOD and p22phox) Related to Oxidative Stress and Blood Arsenic Levels in Arsenic Exposed Workers

Advisor: H. Sinan SUZEN, Ph.D.

M.Sc. Thesis Forensic Investigation of Palynological Samples Collected Materials and Methods of the Samples Can Be Obtained

Advisor: Cahit DOĞAN, Ph.D.

PUBLICATIONS

- **Balcioğlu E**, Kayaaltı Z. “The Effect of Arsenic on Gene Polymorphism Associated with Oxidative Stress”. The Turkish Journal of Occupational/ Environmental Medicine and Safety. 2017, Vol:2, No:1(1), 278-278. ISSN:2149-4711.
- Kaya-Akyüz D, Kayaaltı Z, **Balcioğlu E**, Bal C, Targan P, Haris PI. Lead Poisoning in Turkish Women Due To “Lead Pouring”: A Traditional Practice. 51st Congress of the European Societies of Toxicology, 13-16 Eylül 2015, Portugal. Toxicology Letters, 2015; 238S:S101. doi: 10.1016/j.toxlet.2015.08.333. (ISI).
- **Balcioğlu E**, Targan P. “The Most Widely Used Synthetic Cannabinoids in Recent Years”, The Turkish Journal of Occupational/ Environmental Medicine and Safety. 2015, Cilt:1, Sayı:1(2).
- Kaya-Akyuzlu D, Kayaalti Z, **Balcioğlu E**, Bal C, Targan P, Haris PI. “Lead Poisoning in Turkish Women: A Traditional Practice”. Turkey Clinic of Forensic Medicine, Special Topics. 2015. Volume 1 (3): 69-74.

Presentations

- **Balcioğlu E**. “Forensic Palynology”, EuroForensics 2011, 2nd International Digital & Medical Forensic Sciences Conference and Exhibition, 24-26 March 2011, Harbiye Military Museum and Cultural Complex, Istanbul. **(Oral Presentation-Invited Speaker)**.
- **Balcioğlu E**. “Biology in Forensic Sciences”, 23-25 July 2009, 1st National Biology Students and Alumni Congress, 23-25 July 2009, Ankara University, Faculty of Pharmacy, Ankara. **(Oral Presentation)**.

Posters

- **Balcioğlu E**, Kartal Y, Kayaaltı Z. “The Importance of RNA in Postmortem Interval Determination for Forensic Sciences”, 8-11 May 2014, Forensic Sciences Spring Symposium, Grand Yazıcı Club Marmaris Palace Hotel, Muğla – Marmaris. **(Poster Presentation)**.
- Küçük S., **Balcioğlu E**, Targan P., Cantürk G., Kayaaltı Z. Using the Alcohol, Medical Drugs or Narcotic Substances in Traffic Accidents. XI. International Anatolian Forensic Sciences Congress; 23-25 October 2014 Bayburt, Turkey. **(Poster Presentation)**.
- **Balcioğlu E**, Targan P, Kayaaltı Z. “The Most Widely Used Synthetic Cannabinoids in Recent Years”, 1st International Congress and Workshop of Forensic Toxicology, 29-30

November 2014, Ankara University, ATAUM Conference Hall, Turkey. **(Poster Presentation).**

- Targan P, **Balcioğlu E**, Kayaaltı Z. “Drugs Related Suicides in United Kingdom”, 1st International Congress and Workshop of Forensic Toxicology, 29-30 November 2014, Ankara University, ATAUM Conference Hall, Turkey. **(Poster Presentation).**
- Kartal Y, **Balcioğlu E**, Kayaaltı Z. “The Role of Metal Metabolism in Oxidative Stress” 2nd International Congress of Forensic Toxicology, Industrial and Environmental Toxicology, May 26-30, 2016, Ankara University, Ankara, Turkey. **(Poster Presentation).**
- **Balcioğlu E**, Kayaaltı Z. “The Effect of Arsenic on Gene Polymorphism Associated with Oxidative Stress”. 2nd International Congress of Forensic Toxicology, Industrial and Environmental Toxicology, May 26-30, 2016, Ankara University, Ankara, Turkey. **(Poster Presentation).**

CONGRESS & CONFERENCES

- "2nd International Congress of Forensic Toxicology – Industrial and Environmental Toxicology" 26-30 May 2016, Ankara (Participation and Member of the Organization Committee).
- “Laboratory Safety” 22-23 June 2015, organized by Ankara University, Personnel Department - Ankara.
- XI. International Anatolian Forensic Sciences Congress; 23-25 October 2014 Bayburt, Turkey.
- “1st International Congress and Workshop of Forensic Toxicology”, 29-30 November 2014, Ankara University, ATAUM Conference Hall, Turkey.
- Forensic Medicine Specialists Association and Forensic Scientists Association- Forensic Sciences Spring Symposium, 8-11 May 2014, Marmaris, Turkey.
- “5th Forensic Anthropology Course, 06-08 September and 13-15 September 2013, Ankara University Faculty of DTC, Ankara.
- ATOME (Access to Opioid Medication in Europe)- *"Strategic Action Plan for Improving Access to Opioid Medication"* 2 May 2012, Ankara.
- EuroForensics 2011, 2nd International Digital & Medical Forensic Sciences Conference and Exhibition, 24-26 Mart 2011, Harbiye Military Museum and Cultural Complex, Istanbul. (Invited Speaker)
- “Proteomics Workshop”, May 2005, Ankara University Biotechnology Institute Central Laboratory, Ankara. (Organizer and Participator).
- “12th International Symposium on Biomedical Science and Technology, BIOMED 2005”, Ege University, İzmir, TÜRKİYE.
- “DNA Biosensors Workshop”, March 2005, Ankara University, Institute of Biotechnology, Ankara.
- “11th International Biomedical Science and Technology Days”, BIOMED 2004, Hacettepe University, Ankara.
- “3rd Ankara Biotechnology Days”, November 2004, Ankara University, Ankara.
- “10th Biomedical Science and Technology Symposium”, BIOMED 2003, METU, Cyprus.
- “2nd Ankara Biotechnology Days”, 2003, Ankara University, Ankara.
- “1st Ankara Biotechnology Days, September 2002, Ankara University, Ankara.

INTERNATIONAL EXPERIENCE & COURSES

- De Montfort University, Faculty of Health and Life Sciences, Department of Allied Health Sciences, as a Visitor Researcher for 12 months at Leicester, 2013—2014, UK.
- “Intensive Course on Mitochondrial DNA”, 14-24 November 2010, Taipei, Taiwan.

ACADEMIC DISCIPLINE:

Biology, Forensic Sciences, Forensic Toxicology, Forensic Chemistry and Forensic Toxicology.

RESEARCH TOPICS:

Toxic materials, Toxicogenetics, the effects of DNA Damages, Forensic Evidence, Biological Materials, Protein Analysis, Biochemistry.

LANGUAGES

English	Advanced
Turkish	Native
German	Upper-Intermediate