



Babür Erdem

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Education

PhD student, Biology

Middle East Technical University, Graduate School of Natural and Applied Science,
Department of Biological Sciences, Ankara, Turkey

Advisor: Meryem Beklioğlu

Master of Science, Biology (2018)

Middle East Technical University, Graduate School of Natural and Applied Science,
Department of Biological Sciences, Ankara, Turkey

Thesis: *Differences in Learning Performance and Related Behaviors Across Three Honey Bee
Subspecies from Turkey*

Advisors: Mehmet Somel & Tuğrul Giray

Bachelor of Science, Biology (2015)

Middle East Technical University, Faculty of Arts and Science,
Department of Biological Sciences, Ankara, Turkey

Experience

Research Assistant

TOBB Economy and Technology University, Psychology Department, Münire Özlem
Çevik's Laboratory. Project: *Investigation of neural basis of attention in fruit fly*. (December
2017 – July 2018)

Founder & CEO

Vitaliter Natural Sciences and Engineering R&D Ltd. (March 2016 – November 2018)

Intern

Boğaziçi University, Department of Molecular Biology and Genetics, N. C. Tolga Emre's
Laboratory of Genome Regulation (Summer 2013)

Publications

Erdem, B., & Özkök, A. (2017). Can food supplement produced from apilarnil be alternative to
testosterone replacement therapy. *Hacettepe Journal of Biology and Chemistry*, 45(4), 635 –
638.

Sağlıcan, E., Özkurt, E., Hu, H., **Erdem, B.**, Khaitovich, P., Somel, M. (2014). Heterochrony
explains convergent testis evolution in primates. *bioRxiv*

Projects

Biosensor Development for Explosives and Narcotics Detection Using Honey Bees (July 2016 – September 2017) Supported by Scientific and Technological Research Council of Turkey (TÜBİTAK), 1512 Technopreneurship Capital Support Program (Position: Project Manager / Budget: ₺ 150,000)

Effects of Light and Serotonin on Sex Determination in Daphnia magna (September 2013 – September 2014) Supported by Scientific and Technological Research Council of Turkey (TÜBİTAK), 2209/A Undergraduate Students Domestic Research Projects Support Program (Position: Project Manager / Budget: ₺ 1,500)

Patent

Erdem, B., Arslan, O. C., Mülayim, M. S. (2018). *Turkish Patent No. TR 2016 14275 B. "Separation of Apilarnil lipid extract and usage as testosterone booster."* Ankara: Turkish Patent and Trademark Office.

Scholarship

100/2000 YÖK (The Council of Higher Education) Doctoral Fellowship in Bioinformatics – Biostatistics field (2019 – 2021)

Awards

Erdem, B., Akpolat, M. T., & Arslan, O. C. (Kovan Team) "*Biosensor development for explosives and narcotics detection using honey bees.*" Yeni Fikirler Yeni İşler (New Ideas New Businesses) technopreneurship program special prize in IDEA Category, organized by ODTÜ Teknokent & METU. December 5, 2015. Ankara, Turkey.

Fundings

A Timeline of Human Evolutionary Tree with Actual/Replica Skulls (September 2017 – September 2018) Supported by European Society for Evolutionary Biology (ESEB), Outreach Fund (Position: Fellow Project Manager with Çağrı Mert Bakırcı, Ezgi Altınışık, & Mehmet Somel / Budget: € 2,000)

Tree of Evolution Movement Project (March 2012 – March 2013) Supported by European Society for Evolutionary Biology (ESEB), Outreach Fund (Position: Fellow Project Manager with Çağrı Mert Bakırcı / Budget: € 2,000)

Conference Papers

Erdem, B., Arslan, O. C., Kence, M., Somel, M., & Giray, T. "*Determining the differences of learning abilities and behaviors between the three honey bee subspecies.*" 45th Apimondia. September 29 – October 4, 2017. İstanbul, Turkey. Abstract Book: p 205 (Poster Presentation)

Erdem, B., Mandacı, B. C., Kence, M., Beklioğlu, M. "*The effect of serotonin in hypoxia induced hemoglobin producing pathway in water fleas (Daphnia magna).*" Ecology and Evolutionary

Biology Symposium, organized by Ecology and Evolutionary Biology Society of Turkey & İstanbul Technical University. July 11-13, 2017. İstanbul, Turkey. Abstract Book: p 40 (Poster Presentation)

Erdem, B., Usal, K. A., & Hohenberger, A. “*Smell recognition and odor – shape matching.*” 4th International Symposium on Brain and Cognitive Science, organized by Hacettepe University. April 30, 2017. Ankara, Turkey. (Poster Presentation)

Saglican, E., Donertas, M., Rohlf, R., Ozkurt, E., Hu, H., Neme, R., **Erdem, B.**, Khaitovich, P., & **Somel, M.** “*Mechanisms of convergent testis transcriptome evolution in primates.*” 86th Annual Meeting of the American Association of Physical Anthropologists, organized by AAPA. April 19-22, 2017. New Orleans, USA. Abstract Book: p 364 (Oral Presentation)

Parvizi, P., Turan, Z. G., Özkurt, E., Baloğlu, O., **Erdem, B.**, Karaca, M., Erbab, B., Burduloğlu, H. C., Doğru, E., Somel, M. “*Testing the hypothesis that chronic stress accelerates brain aging in a mouse model*”. 3rd International Congress of the Molecular Biology Association of Turkey, organized by İzmir Institute of Technology & Molecular Biology Association of Turkey. September 10-12, 2014. İzmir, Turkey. Abstract Book: p 186 (Poster Presentation)

Erdem, B., & Kence, M. “*Role of serotonin in environmental stress induced sex determination in Daphnia.*” Ecology and Evolutionary Biology Symposium, organized by Boğaziçi University. July 12-13, 2014. İstanbul, Turkey. Abstract Book: p 25 (Poster Presentation)

Erdem, B. “*Daphnia: a rising model organism.*” Laboratory Animal Science 3rd National Congress, organized by Erciyes University. September 26-28, 2013. Kayseri, Turkey. Abstract Book: pp 68-69 (Oral presentation in Turkish)

Erdem, B. “*Biological origins of obesity and food-based regulations for prevention.*” Turkish 11th Food Congress, organized by Mustafa Kemal University & The Association of Food Technology. October 11-12, 2012. Hatay, Turkey. Abstract Book: p 18 (Oral presentation in Turkish)

Erdem, B., & Akyüz, C. “*Contradictions between scientific theories for obesity and government policies.*” Obesity and Ethics: 3rd National Medical Ethics Project Contest, organized by Gazi University. May 23, 2012. Ankara, Turkey. Contest Projects Book: pp 189-201 (Finalist)

Trainings & Certificates

T-Jump Entrepreneurship Bootcamp. February 2016. ODTÜ Teknokent, San Francisco, USA

Yeni Fikirler Yeni İşler (New Ideas New Businesses) Technopreneurship Program. July 2015. ODTÜ Teknokent, Ankara, Turkey

Mt. Erciyes & Sultan Reeds Nature Education Certificate. August 2010. Erciyes University & Scientific and Technological Research Council of Turkey, Kayseri, Turkey

Language & Computer Skills

Turkish (Native), English (Full professional proficiency)

Matlab, Python, R, SPSS, Minitab

Organization & Foundations

Ecology and Evolutionary Biology Society of Turkey (2017 –)

Simurg Bird Sanctuary Society (2019 -)