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Education:

02/2017-05/2021 PhD., Department of Biochemistry, Istanbul Medipol University, Istanbul/Turkey

09/2015-02/2017 MSc., Department of Neuroscience, Istanbul Medipol University, Istanbul/Turkey

09/2010-07/2015 B.S., Department of Molecular Biology and Genetics, Gebze Technical University, Kocaeli/Turkey

Postdoctoral Training:

Feb 2022-Present Research Scholar, Memorial Sloan Kettering Cancer Center, New York, USA

Positions and Appointments:

May 2021-Feb 2022 Senior Researcher, Institute for Health Sciences and Technologies  
Istanbul Medipol University, Istanbul Turkey

Nov 2016-May 2021 Researcher, Regenerative and Restorative Medicine Research Center  
Istanbul Medipol University, Istanbul Turkey

Scientific and Medical Societies:

2015-Present Society for Neuroscience

2018-Present Federation of European Neuroscience Societies (FENS)

Publications:

1. Mehmet Serif Aydin, **Sadik Bay**, Esra Nur Yigit, Cemil Ozgul, Elif Kaval Oguz, Elcin Yenidunya Konuk, Nese Aysit, Nureddin Cengiz, Ender Erdogan, Aydin Him, Mehmet Kocak, Emrah Eroglu, Gurkan Ozturk (2022). Neurons protect themselves by active shrinkage upon axonal transection. *bioRxiv*.
2. **Sadik Bay**, Gurkan Ozturk, Nesrin Emekli, Turan Demircan (2022). Downregulation of Yap1 During Limb Regeneration Results in Defective Bone Formation in Axolotl. *bioRxiv*.
3. Yasemin Baris, Javid Jabbar, Yasemin Yozgat, Ege Cigirgan, **Sadik Bay**, Merve Erden Tucer, Volkan Aslan, Melike Dincelik-Aslan, Murat Alper Cevher (2022). Mediator-RNA Polymerase II Interactions Critical for Transcriptional Activation Are Mediated by the N-terminal Half of MED14 and C-terminal Domain of RPB1. *bioRxiv*.
4. Damla Uludağ, **Sadik Bay**, Bilgesu Onur Sucu, Özgecan Şavluğ İpek, Thomas Mohr, Mustafa

- Güzel, Nihal Karakaş (2022). Potential of Novel Methyl Jasmonate Analogs as Anticancer Agents to Metabolically Target HK-2 Activity in Glioblastoma Cells. *Frontiers in Pharmacology*, 1525.
5. Umran Aydemir Sezer, Kevser Ozturk Yavuz, Gizem Ors, **Sadık Bay**, Basak Aru, Oguz Sogut, Tuba Akgul Caglar, Mehmet Recep Bozkurt, Esra Cagavi, Gülderen Yanikkaya Demirel, Serdar Sezer, Huseyin Karaca. Zero-valent iron nanoparticles containing nanofiber scaffolds for nerve tissue engineering. *J Tissue Eng Regen Med.* 2020; 14: 1815– 1826.
  6. Nihal Karakaş, **Sadık Bay**, Nezaket Türkel, Nurşah Öztunç, Merve Öncül, Hülya Bilgen, Khalid Shah, Fikrettin Şahin, Gürkan Öztürk. (2020) Neurons from human mesenchymal stem cells display both spontaneous and stimuli responsive activity. *PLoS ONE* 15(5): e0228510.
  7. Elif Nur Yilmaz, **Sadık Bay**, Gurkan Ozturk, Mehmet Hikmet Ucisik. Neuroprotective Effects of Curcumin-Loaded Emulsomes in a Laser Axotomy-Induced CNS Injury Model. *International Journal of Nanomedicine* 2020;15 9211–9229.
  8. Metehan Akça, **Sadık Bay**, Gulsen Baydas, Nese Altuncu, Gurkan Ozturk, Mehmet Yildirim.(2019). Effects of Ginkgo Biloba Components and Calcium Channel Blockers on Cortical Neuron Excitability in WAG/Rij Rats with Absence Epilepsy: In Vitro Calcium Imaging Study. *ACTA PHYSIOLOGICA*, 227, 44–44.
  9. Metehan Akca, Mehmet Yıldırım, Gülsena Baydaş, **Sadık Bay**, Neşe Altuncu, Gürkan Öztürk. (2019). Effect of ginkgo biloba extract egb 761 on intracellular calcium level and excitability in wag/rij rat cortical neuron culture. *Acta Physiologica*, 227, 66-66.
  10. Nihal Karakaş, İrem Öztürk, Serkut Tosyalı, **Sadık Bay**. Nanobodies: Diagnostic and Therapeutic Antibody Fragments. *Acta Oncol Tur..* 2018; 51(2): 240-250
  11. Oğuz Eryılmaz, Perihan Seda Ateş, İsmail Ünal, Ünsal Veli Üstündağ, **Sadık Bay**, Ahmet Ata Alturfan, Türkan Yiğitbaşı, Ebru Emekli-Alturfan, Mehmet Akalın. Evaluation of the interaction between proliferation, oxidant-antioxidant status, Wnt pathway, and apoptosis in zebrafish embryos exposed to silver nanoparticles used in textile industry. *J Biochem Mol Toxicol.* 2018; 32: e22

