

Research assistant Fatma Betul Oktelik graduated from Abant Izzet Baysal University, Department of Biology in 2016. She completed her master's thesis titled "Investigation of Signal Pathway Activations in Multiple Sclerosis CD3⁺ T Cells" at Aziz Sancar Institute of Experimental Medicine, Department of Immunology. She started her PhD at Aziz Sancar Institute of Experimental Medicine, Department of Immunology in 2019. Her current thesis topic is primary immune deficiencies and immune dysregulations. Betul has national and international cited publications and experience in flow cytometry (intracytoplasmic cytokine evaluation, cell proliferation, immunopenotyping and cell isolation), ELISA, luminex. Betul is currently working on projects about immune dysregulation, autoimmunity and COVID-19.



Relevant Literature:

1. Harb H, Benamar M, Lai PS, Contini P, Griffith JW, Crestani E, Schmitz-Abe K, Chen Q, Fong J, Marri L, Filaci G, Del Zotto G, Pishesha N, Kolifrath S, Broggi A, Ghosh S, Gelmez MY, **Oktelik FB**, Cetin EA, Kiykim A, Kose M, Wang Z, Cui Y, Yu XG, Li JZ, Berra L, Stephen-Victor E, Charbonnier LM, Zanoni I, Ploegh H, Deniz G, De Palma R, Chatila TA. Notch4 signaling limits regulatory T-cell-mediated tissue repair and promotes severe lung inflammation in viral infections. *Immunity*. 2021 Jun 8;54(6):1186-1199.e7. doi: 10.1016/j.immuni.2021.04.002.
2. **Oktelik FB**, Yilmaz V, Gelmez MY, Akdeniz N, Pamukcu C, Sutlu T, Kose M, Tuzun E, Deniz G. Decline of humoral immune responses after natural SARS-CoV-2 infection can be efficiently reversed by vaccination. *Can J Microbiol*. 2022 Aug 1;68(8):543-550. doi: 10.1139/cjm-2022-0003.
3. Engin A, **Oktelik FB**, Gelincik A, Sin A, Sin BA, Dursun BA, Beyaz S, Gorgulu B, Cetin E, Deniz G. The role of component-resolved diagnosis in Hymenoptera venom allergy in clinical practice. *Allergy Asthma Proc*. 2021 Jul 1;42(4):350-356. doi: 10.2500/aap.2021.42.210024.
4. High expression of OX-40, ICOS, and low expression PD-L1 of follicular helper and follicular cytotoxic T cells in chronic lymphocytic leukemia. Metin Yusuf Gelmez, **Fatma Betul Oktelik**, Suzan Cinar, Murat Ozbalak, Ozden Ozluk, Melih Aktan & Gunnur Deniz. *Journal of Hematopathology* (2022).
5. **Oktelik FB**, Yilmaz V, Turkoglu R, Akbayir E, Tuzun E, Deniz G, Cinar S. Expression of Akt1 and p-Akt1 in peripheral T cell subsets of multiple sclerosis patients. *Acta Neurol Belg*. 2021 Dec;121(6):1777-1782. doi: 10.1007/s13760-020-01518-9.