

Postdoc/Research Scientist I – Immunology

Postdoc/Research Scientist positions are available in the laboratory of Dr. Dorina Avram in the Department of Immunology at the Moffitt Cancer Center for the following projects:

- (1) Transcriptional and epigenetic control of T and innate lymphoid cell programs in tumors, autoimmunity and in responses to infections.
- (2) Ubiquitination in control of inflammation and cancer at mucosal sites and in tissues.

We use genetically engineered mouse models, organoid culture systems and patient-derived samples, along with “omics” approaches with the ultimate goal to harness the immune responses for cancer therapies and autoimmunity.

Credentials and Qualifications: We seek an enthusiastic candidate with a Ph.D. in immunology or cancer biology and strong commitment, with rich laboratory experience, including expertise with mice. Submit your curriculum vitae, including clear list of publications and a cover letter directly to dorina.avram@moffitt.org.

Recent publications from the lab:

The transcription factor Bcl11b promotes both canonical and adaptive NK cell differentiation. Holmes TD, Pandey RV, Helm EY, Schlums H, Han H, Campbell TM, Drashansky TT, Chiang S, Wu CY, Tao C, Shoukier M, Tolosa E, Von Hardenberg S, Sun M, Klemann C, Marsh RA, Lau CM, Lin Y, Sun JC, Månsson R, Cichocki F, Avram D, Bryceson YT. *Sci Immunol*. 2021 Mar 12;6(57):eabc9801. doi: 10.1126/sciimmunol.abc9801.

Proteolysis-targeting chimera against BCL-X_L destroys tumor-infiltrating regulatory T cells. Kolb R, De U, Khan S, Luo Y, Kim MC, Yu H, Wu C, Mo J, Zhang X, Zhang P, Zhang X, Borchering N, Koppel D, Fu YX, Zheng SG, Avram D, Zheng G, Zhou D, Zhang W. *Nat Commun*. 2021 Feb 24;12(1):1281. doi: 10.1038/s41467-021-21573-x.

Kwiatkowski, AJ, Stewart, JM, Cho, JJ, Avram, D, and Keselowsky BG. Nano and Microparticle Emerging Strategies for Treatment of Autoimmune Diseases - Multiple Sclerosis and Type 1 Diabetes. *Advanced Healthcare Materials*. 2020 Jun;9(11):e2000164. doi: 10.1002/adhm.202000164. Epub 2020 Apr 27.

Drashansky TT, Helm EY, Huo Z, Curkovic N, Kumar P, Luo X, Parthasarathy U, Zuniga AN, Cho JJ, Lorentsen KJ, Xu Z, Uddin M, Moshkani S, Zhou L, Avram D. Bcl11b prevents fatal autoimmunity by promoting Treg cell program and constraining innate lineages in Treg cells. *Sci Adv*. 2019 Aug 7;5(8):eaaw0480. doi: 10.1126/sciadv.aaw0480. eCollection 2019 Aug

Cho JJ, Xu Z, Parthasarathy U, Drashansky TT, Helm EY, Zuniga AN, Lorentsen KJ, Mansouri S, Cho JY, Edelmann MJ, Duong DM, Gehring T, Seeholzer T, Krappmann D, Uddin MN, Califano D, Wang RL, Jin L, Li H, Lv D, Zhou D, Zhou L, Avram D. Hctd3 promotes pathogenic Th17 lineage through Stat3 activation and Malt1 signaling in neuroinflammation. *Nat Commun*. 2019 Feb 11;10(1):701.

Kyle J. Lorentsen, Jonathan J. Cho, Xiaoping Luo, Ashley N. Zuniga, Joseph F. Urban Jr., Liang Zhou, Raad Gharaibeh, Christian Jobin, Michael P. Klade, and Dorina Avram. Bcl11b is essential for licensing Th2 differentiation during helminth infection and allergic asthma, *Nature Communications*, 2018 Apr 26;9(1):1679.

Full list:

<https://www.ncbi.nlm.nih.gov/sites/myncbi/dorina.avram.1/bibliography/40936295/public/?sort=date&direction=descending>

Moffitt Cancer Center and Research Institute is a National Cancer Institute-designated Comprehensive Cancer Center located in Tampa, Florida, United States. Tampa, FL, part of the Tampa Bay together with the City of St. Petersburg and Clearwater, is a major city in the state of Florida, near the Gulf of Mexico, surrounded by beautiful beaches with white sand and beautiful natural parks.

Equal Employment Opportunity

Moffitt is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, or protected veteran or disabled status.