B. Ogan Mancarci

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Canada

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Skills

Programming languages: R, Python, Matlab.

Computing Environment: Linux, Windows.

Bioinformatics: Experience with expression and sequencing datasets.

Laboratory techniques: Common techniques and cell culture.

Languages: Turkish (Mother Tongue), English (Fluent), French (Basic).

Education

2013-2018 (expected) **PhD, Bioinformatics**; University of British Columbia (Vancouver, Canada)

Thesis title: Identification cell type marker genes of the brain and their use in identification of cell type proportions

2009-2013 **BSc, Molecular Biology And Genetics;** Bilkent University (Ankara, Turkey)

Research Experience

2014-now **PhD Student at UBC Micheal Smith Laboratories** - Supervisor: Dr. Paul Pavlidis

- Identification of cell type markers and their use in identification of cell type proportions. (**github.com/oganm/brainCellTypeSpecificGenes**)
- Development of a web application to visualize gene expression in brain cell types (**neuroexpresso.org**)

2013 **Rotation at BC Children's Hospital** - Supervisor: Dr. Wyeth Wasserman

- Analysis of CAGE data for detection of microRNA transcription start sites

2013 **Rotation at Simon Fraser University** - Supervisor: Dr. Fiona Brinkman

- Analysis of antisense transcription in genomic islands

2012 **Summer internship at University of Zurich** - Supervisor: Dr. Barbara Tschirren

- Selective mating of Japanese quails and computational analysis of various properties of quail and tit eggs

2011 **Summer internship at Harvard Medical School** - Supervisor: Dr. George Daley

- Reprogramming of murine and human cells via viral vectors

Teaching Experience

2015 **Teaching Assitant for Exploratory Data Analysis course (STAT 545A) at UBC**
- Instructor: Dr. Jenny Brian

2015 **Instructional Skills Workshop at UBC**

Awards and Scholarships

2013-2014 CIHR training program scholarship

Publications

Horvath, G.A., Demos, M., Shyr, C., Matthews, A., Zhang, L., Race, S., Stockler-Ipsiroglu, S., Van Allen, M.I., **Mancarci, O.**, Toker, L., et al. (2016). Secondary neurotransmitter deficiencies in epilepsy caused by voltage-gated sodium channelopathies: A potential treatment target? Mol. Genet. Metab. 117, 42–48.

Onder, T.T., Kara, N., Cherry, A., Sinha, A.U., Zhu, N., Bernt, K.M., Cahan, P., **Mancarci, B.O.**, Unternaehrer, J., Gupta, P.B., et al. (2012). Chromatin-modifying enzymes as modulators of reprogramming. Nature 483, 598–602.

Presentations

Organization of Computational Neurosciences Conference 2015: Tripathy, S.J., Tebaykin, D., Li, B., **Mancarci, O.**, Toker, L., and Pavlidis, P. (2015). Large-scale analysis of brain-wide electrophysiological diversity reveals novel characterization of mammalian neuron types. BMC Neurosci 16, O4.

23rd Annual International Conference on Intelligent Systems for Molecular Biology: Mancarcı O, Toker L, Tripathy S and Pavlidis P. A comprehensive database of cell-type specific marker genes for the mammalian brain [v1; not peer reviewed]. F1000Research 2015, 4(ISCB Comm J):428 (poster) (doi: 10.7490/f1000research.1110181.1)

23rd Annual International Conference on Intelligent Systems for Molecular Biology: Toker L, **Mancarci O**, Tripathy S and Pavlidis P. A transcriptomics approach for revealing cell-type proportion changes in psychiatric disorders