

**JESPER TEGNER PUBLICATIONS 2017****Peer-reviewed articles**

1. Deng Y, Zenil H, Tegner J, Kiani NA. HiDi: an efficient reverse engineering schema for large-scale dynamic regulatory network reconstruction using adaptive differentiation. *Bioinformatics* 2017; 33: 3964-3972.
2. Elias S, Schmidt A, Tegner J. Chromatin regulatory network of human GM-CSF producing CD4(+) T cells. *Scandinavian Journal of Immunology* 2017; 86: 323-323.
3. Ewing E, Ruhrmann S, Kular L, Liu Y, Fernandes S, Morikawa H, Tegner J, Karathanasis N, Lagani V, Tsamardinos I, Feinberg AP, Piehl F, Gomez-Cabrero D, Jagodic M. Shared DNA methylation profiles in four immune cell types from Multiple Sclerosis patients. *Scandinavian Journal of Immunology* 2017; 86: 282-282.
4. Fernandes S, Morikawa H, Ewing E, Ruhrmann S, Karathanasis N, Lagani V, Tsamardinos I, Kockum I, Olsson T, Piehl F, Jagodic M, Tegner J, Gomez-Cabrero D. Understanding progression in multiple sclerosis through transcriptomics and DNA methylation in CD4+and CD8+T cells. *Multiple Sclerosis Journal* 2017; 23: 189-190.
5. Gomez-Cabrero D, Marabita F, Tarazona S, Cano I, Roca J, Conesa A, Sabatier P, Tegner J. Guidelines for Developing Successful Short Advanced Courses in Systems Medicine and Systems Biology. *Cell Systems* 2017; 5: 168-175.
6. Gomez-Cabrero D, Tegner J, Ekstrom TJ, Ospelt C. Comment on "Epigenetics in the pathogenesis of RA". *Seminars in Immunopathology* 2017; 39: 421-422.
7. Joshi R, Binai N, Marabita F, Sui ZH, Altman A, Heck A, Tegner J, Schmidt A. Human regulatory T cells suppress CD4+T cells by rapidly altering the phosphoproteome. *Scandinavian Journal of Immunology* 2017; 86: 251-252.
8. Joshi RN, Binai NA, Marabita F, Sui ZH, Altman A, Heck AJR, Tegner J, Schmidt A. Phosphoproteomics reveals regulatory T cell-Mediated DeF6 Dephosphorylation That affects cytokine expression in human conventional T cells. *Frontiers in Immunology* 2017; 8.
9. Kannan V, Kiani NA, Piehl F, Tegner J. A minimal unified model of disease trajectories captures hallmarks of multiple sclerosis. *Mathematical Biosciences* 2017; 289: 1-8.
10. Kotelnikova E, Kiani NA, Abad E, Martinez-Lapiscina EH, Andorra M, Zubizarreta I, Pulido-Valdeolivas I, Pertsovskaya I, Alexopoulos LG, Olsson T, Martin R, Paul F, Tegner J, Garcia-Ojalvo J, Villoslada P. Dynamics and heterogeneity of brain damage in multiple sclerosis. *Plos Computational Biology* 2017; 13.
11. Papoutsoglou G, Athineou G, Lagani V, Xanthopoulos I, Schmidt A, Elias S, Tegner J, Tsamardinos I. SCENERY: a web application for (causal) network reconstruction from cytometry data. *Nucleic Acids Research* 2017; 45: W270-W275.

12. Triantafillou S, Lagani V, Heinze-Deml C, Schmidt A, Tegner J, Tsamardinos I. Predicting Causal Relationships from Biological Data: Applying Automated Causal Discovery on Mass Cytometry Data of Human Immune Cells. *Scientific Reports* 2017; 7.
13. Zeitelhofer M, Adzemovic MZ, Gomez-Cabrero D, Bergman P, Hochmeister S, N'Diaye M, Paulson A, Ruhrmann S, Almgren M, Tegner JN, Ekstrom TJ, Guerreiro-Cacais AO, Jagodic M. Functional genomics analysis of vitamin D effects on CD4+T cells in vivo in experimental autoimmune encephalomyelitis. *Proceedings of the National Academy of Sciences of the United States of America* 2017; 114: E1678-E1687.
14. Zenil H, Kiani NA, Tegner J. Low-algorithmic-complexity entropy-deceiving graphs. *Physical Review E* 2017; 96.