

JESPER TEGNER PUBLICATIONS 2016**Peer-reviewed articles**

1. Costa H, Xu XL, Overbeek G, Vasaikar S, Patro CPK, Kostopoulou ON, Jung M, Shafi G, Ananthaseshan S, Tsipras G, Davoudi B, Mohammad AA, Lam H, Straat K, Wilhelmi V, Shang MM, Tegner J, Tong JC, Wong KT, Soderberg-Naucler C, Yaiw KC. Human cytomegalovirus may promote tumour progression by upregulating arginase-2. *Oncotarget* 2016; 7: 47221-47231.
2. Duenas-Espin I, Vela E, Pauws S, Bescos C, Cano I, Cleries M, Contel JC, Keenoy ED, Garcia-Aymerich J, Gomez-Cabrero D, Kaye R, Lahr MMH, Lluch-Ariet M, Moharra M, Monterde D, Mora J, Nalin M, Pavlickova A, Piera J, Ponce S, Santaeugenia S, Schonenberg H, Stork S, Tegner J, Velickovski F, Westerteicher C, Roca J. Proposals for enhanced health risk assessment and stratification in an integrated care scenario. *Bmj Open* 2016; 6.
3. Elias S, Schmidt A, Kannan V, Andersson J, Tegner J. TGF-beta Affects the Differentiation of Human GM-CSF+ CD4(+) T Cells in an Activation- and Sodium-Dependent Manner. *Frontiers in Immunology* 2016; 7.
4. Elias S, Schmidt A, Kannan V, Andersson J, Tegner J. Characterization and mechanistic dissection of the differentiation of GM-CSF+ CD4(+) T cells. *Scandinavian Journal of Immunology* 2016; 83: 354-355.
5. Erusalimsky JD, Grillari J, Grune T, Jansen-Duerr P, Lippi G, Sinclair AJ, Tegner J, Vina J, Durrance-Bagale A, Minambres R, Viegas M, Rodriguez-Manas L, Consortium F. In Search of 'Omics'-Based Biomarkers to Predict Risk of Frailty and Its Consequences in Older Individuals: The FRAILOMIC Initiative. *Gerontology* 2016; 62: 182-190.
6. Gomez-Cabrero D, Almgren M, Sjöholm LK, Hensvold AH, Ringh MV, Tryggvadottir R, Kere J, Scheynius A, Acevedo N, Reinius L, Taub MA, Montano C, Aryee MJ, Feinberg JI, Feinberg AP, Tegner J, Klareskog L, Catrina AI, Ekstrom TJ. High-specificity bioinformatics framework for epigenomic profiling of discordant twins reveals specific and shared markers for ACPA and ACPA-positive rheumatoid arthritis. *Genome Medicine* 2016; 8.
7. Gomez-Cabrero D, Menche J, Vargas C, Cano I, Maier D, Barabasi AL, Tegner J, Roca J, Synergy CC. From comorbidities of chronic obstructive pulmonary disease to identification of shared molecular mechanisms by data integration. *Bmc Bioinformatics* 2016; 17.
8. Joshi RN, Binai N, Marabita F, Tegner J, Schmidt A. Human regulatory T cells rapidly rewire the phosphoproteome of suppressed conventional T cells. *Scandinavian Journal of Immunology* 2016; 83: 376-377.
9. Kannan V, Swartz F, Kiani NA, Silberberg G, Tsipras G, Gomez-Cabrero D, Alexanderson K, Tegner J. Conditional Disease Development extracted from Longitudinal Health Care Cohort Data using Layered Network Construction. *Scientific Reports* 2016; 6.

10. Kannan V, Tegner J. Adaptive input data transformation for improved network reconstruction with information theoretic algorithms. *Statistical Applications in Genetics and Molecular Biology* 2016; 15: 507-520.
11. Kiani NA, Shang MM, Tegner J. Systems Toxicology: Systematic Approach to Predict Toxicity. *Current Pharmaceutical Design* 2016; 22: 6911-6917.
12. Kiani NA, Zenil H, Olczak J, Tegner J. Evaluating network inference methods in terms of their ability to preserve the topology and complexity of genetic networks. *Seminars in Cell & Developmental Biology* 2016; 51: 44-52.
13. Marabita F, de Candia P, Torri A, Tegner J, Abrignani S, Rossi RL. Normalization of circulating microRNA expression data obtained by quantitative real-time RT-PCR. *Briefings in Bioinformatics* 2016; 17: 204-212.
14. Needhamsen M, Kular L, Kramarova T, Gomez-Cabrero D, Ewing E, Adzemovic MZ, Tegner J, Brundin L, Jagodic M. Analysis of DNA methylation in post-mortem brain tissue from Multiple Sclerosis patients. *Multiple Sclerosis Journal* 2016; 22: 485-486.
15. Schmidt A, Eriksson M, Shang MM, Weyd H, Tegner J. Comparative Analysis of Protocols to Induce Human CD4⁺Foxp3⁺Regulatory T Cells by Combinations of IL-2, TGF-beta, Retinoic Acid, Rapamycin and Butyrate. *Plos One* 2016; 11.
16. Schmidt A, Marabita F, Johansson H, Lehtio J, Eriksson M, Elias S, Gomez-Cabrero D, Rao A, Tegner J. Integrative molecular profiling during human induced regulatory T cell (iTreg) generation reveals novel regulators of FOXP3. *Scandinavian Journal of Immunology* 2016; 83: 353-353.
17. Schmidt A, Zhang XM, Joshi RN, Iqbal S, Wahlund C, Gabrielsson S, Harris RA, Tegner J. Human macrophages induce CD4⁽⁺⁾Foxp3⁽⁺⁾ regulatory T cells via binding and re-release of TGF-beta. *Immunology and Cell Biology* 2016; 94: 747-762.
18. Tegner J, Zenil H, Kiani NA, Ball G, Gomez-Cabrero D. A perspective on bridging scales and design of models using low-dimensional manifolds and data-driven model inference. *Philosophical Transactions of the Royal Society a-Mathematical Physical and Engineering Sciences* 2016; 374.
19. Zenil H, Kiani NA, Tegner J. Methods of information theory and algorithmic complexity for network biology (vol 51, pg 32, 2016). *Seminars in Cell & Developmental Biology* 2016; 60: 168-168.
20. Zenil H, Kiani NA, Tegner J. Methods of information theory and algorithmic complexity for network biology. *Seminars in Cell & Developmental Biology* 2016; 51: 32-43.