

JESPER TEGNER PUBLICATIONS 2013**Peer reviewed articles**

1. Shohreh Maleki³, David Gomez-Cabrero¹, Mika Gustafsson⁴, Peri Noori¹, Noriko Ninomiya⁵, Yoshihide Hayashizaki⁵, Harukazu Suzuki⁵, Michael Hornquist² and Jesper Tegnér. *A core network of genes adjacent to NICN1 and GPMR2 responding to modified low density lipoproteins (LDL) treatment during the transformation of macrophages into foam cells.* **PloS One**, In Press
2. Caano, Isac, Michael Michel, David Gomez-Cabrero, Tegnér Jesper, Josep Roca, Peter Wagner. *Contribution of mitochondrial respiration in limiting maximal VO₂*, **Respir Physiol Neurobiol** 2013, 189(3):477-83
3. Abugessaisa Imad, Gomez-Cabrero David, Snir Omri, Lindblad Staffan, Klareskog Lars, Malmström Vivianne, Tegnér Jesper. *Implementation of the CDC translational informatics platform - from genetic variants to the national Swedish Rheumatology Quality Register* **Journal of Translational Medicine** 2013, 11:85.
4. Peter Coveney, Vanessa Diaz-Zuccarini, Norbert Graf, Peter Hunter, Peter Kohl, Jesper Tegnér and Marco Viceconti *Integrative approaches to computational biomedicine* Published 21 February 2013 doi: 10.1098/rsfs.2013.0003 **Interface Focus** 6 April 2013 vol. 3 no. 220130003
5. Francesco Marabita, Malin Almgren, Maléne E. Lindholm, Sabrina Ruhrmann, Fredrik Fagerström-Billai, Maja Jagodic, Carl J. Sundberg, Tomas J. Ekström, Andrew E. Teschendorff, Jesper Tegnér and David Gomez-Cabrero *An evaluation of analysis pipelines for DNA methylation profiling using the Illumina HumanMethylation450 BeadChip platform* Volume 8, Issue 3 **Epigenetics** March 2013 Pages 333 – 346 <http://dx.doi.org/10.4161/epi.24008>
6. Peter Hunter, Tara Chapman, Peter V. Coveney, Bernard de Bono, Vanessa Diaz, John Fenner, Alejandro F. Frangi, Peter Harris, Rod Hose, Peter Kohl, Pat Lawford, Keith McCormack, Miriam Mendes, Stig Omholt, Alfio Quarteroni, Nour Shublaq, John Skår, Karl Stroetmann, Jesper Tegnér, S. Randall Thomas, Ioannis Tollis, Ioannis Tsamardinos, Johannes H. G. M. van Beek and Marco Viceconti *A vision and strategy for the virtual physiological human: 2012 update* Published 21 February 2013 doi: 10.1098/rsfs.2013.0004 **Interface Focus** 6 April 2013 vol. 3 no. 220130004
7. Teschendorff AE, Marabita F, Lechner M, Bartlett T, Tegnér J, Gomez-Cabrero D, Beck S *A beta-mixture quantile normalization method for correcting probe design bias in Illumina Infinium 450 k DNA methylation data.* **Bioinformatics**. 2013 Jan 15;29(2):189-96. doi: 10.1093/bioinformatics/bts680. Epub 2012 Nov 21
8. de la Rica L, Urquiza JM, Gómez-Cabrero D, Islam AB, López-Bigas N, Tegnér J, Toes RE, Ballestar E. *Identification of novel markers in rheumatoid arthritis through integrated analysis of DNA methylation and microRNA expression.* **J Autoimmun**. 2013 Jan 7. doi:pii: S0896-8411(12)00151-5. 10.1016/j.jaut.2012.12.005.

Reviews

1. Fransesco Marabita, Jesper Tegnér, and David Gomez-Cabrero *Integration of transcriptomics and epigenetic data*. Invited review, **BMC Systems Biology**
2. Jesper Tegnér, Gordon Ball, Fransesco Marabita, Angelika Schmidt, and David Gomez-Cabrero *Multi-scale modeling of immune cells and their interactions – challenges and opportunities - lessons learned from other modeling communities*. Invited review, **Frontiers in Immunology**
3. Jesper Tegnér, Fransesco Marabita, and David Gomez-Cabrero, *Network Biology empowering Detection and Understanding of Genetic Interactions* Book Chapter in “Beyond the Genetic Code” 2013
4. Shafi G, Tarique N Hasan, Syed N. A, Paine A, Tegner J, Munshi A. Breast Cancer microRNA; *Omics Approaches in Breast Cancer*. Edited by Cheryl Winters-Tetreau (Accepted)
5. Tegnér J, Abugessaisa I *Pediatric systems medicine: evaluating needs and opportunities using congenital heart block as a case study..* **Pediatr Res.Nature Publishing Group** 2013 Jan 31. doi: 10.1038/pr.2013.19.