

**JESPER TEGNER PUBLICATIONS 2009****Peer reviewed articles**

1. Olivia Eriksson, Jesper Tegnér, and Yishao Zhou. *On stability of limit cycles of a prototype problem of piecewise linear systems*. EMERGENT PROBLEMS IN NONLINEAR SYSTEMS AND CONTROL. Lecture Notes in Control and Information Sciences, 2009, Volume 393/2009, 43-55, DOI: 10.1007/978-3-642-03627-9\_3 **Springer Verlag**
2. \*Hägg, S., Noori, P., Brinne, B., Skogsberg, J., Lundström, J., Nilsson, R., Lockowandt, U., Liska, J., Franco-Cereceda, A., Ivert, T., Hamsten, A., Tegnér, J., J., Björkegren. *The Stockholm Atherosclerosis Gene Expression (STAGE) Study – Expression Profiling in Patients Suffering Severe Coronary Artery Disease* **PLoS Genet.** 2009 Dec;5(12):e1000754. Epub 2009 Dec 4.
3. Fredrik Edin, Torkel Klingberg, Pär Johansson, Fiona McNab, Jesper Tegnér, Albert Compte, *Mechanism for Top-down Control of Working Memory Capacity* **Proceedings of National Academy of Science** Apr 21;106(16):6802-7. Epub 2009 Apr 1.
4. Pena, J., Nilsson, R, Björkegren, J. and Tegnér, J. *An Algorithm for Reading Dependencies from the Minimal Undirected Independence Map of a Graphoid that Satisfies Weak Transitivity*. **Journal of Machine Learning Research**, 10, 1071-1094, 2009
5. *A complex transcriptional network controls growth arrest and differentiation in a human myeloid leukemia cell line*, The FANTOM consortium and RIKEN Genome Exploration Research Group, (Genome Network Project Expression Cluster Workshop) *The FANTOM Consortium (Genome Network Project, Expression Cluster Workshop)*: Harukazu Suzuki\*, ‡, ≠, 1, Alistair R. R. Forrest\*, ‡, ≠, 1, 2, Erik van Nimwegen\*, ‡, ≠, 3, Carsten O. Daub ‡, ≠, 1, Timo Lassmann ‡, ≠, 1, Timothy Ravasi ‡, ≠, 4, Yuki Hasegawa ‡, 1, Michiel J. L. de Hoon ‡, 1, Shintaro Katayama ‡, 1, Katharine M. Irvine ‡, ≠, 5, Kate Schroder ‡, ≠, 5, Piero Carninci ‡, 1, Altuna Akalin<sup>6</sup>, Yoshinari Ando<sup>1</sup>, Erik Arner<sup>1</sup>, Maki Asada<sup>7</sup>, Hiroshi Asahara<sup>7</sup>, Timothy Bailey<sup>5</sup>, Vladimir B. Bajic ‡, 8, Piotr Balwiercz<sup>3</sup>, Denis Bauer<sup>5</sup>, Anthony G. Beckhouse<sup>2</sup>, Nicolas Bertin<sup>1</sup>, Johan Björkegren<sup>9</sup>, Frank Brombacher<sup>10</sup>, Erika Bulger<sup>1</sup>, Alistair M. Chalk<sup>2</sup>, Joe Chiba<sup>11</sup>, Nicole Cloonan<sup>12</sup>, Adam Dawe<sup>8</sup>, Josee Dostie<sup>13</sup>, Pär G. Engström<sup>6</sup>, Magbubah Essack<sup>8</sup>, Geoffrey Faulkner<sup>12</sup>, J Lynn Fink<sup>14</sup>, David Fredman<sup>6</sup>, Isao Fujimori<sup>15</sup>, Masaaki Furuno<sup>1</sup>, Takashi Gojobori ‡, 16, Julian Gough<sup>17</sup>, Sean M. Grimmond ‡, 12, Mika Gustafsson<sup>18</sup>, Megumi Hashimoto<sup>7</sup>, Takehiro Hashimoto<sup>1</sup>, Mariko Hatakeyama<sup>19</sup>, Susanne Heinz<sup>20</sup>, Winston Hide ‡, 8, 21, Oliver Hofmann<sup>8, 21</sup>, Michael Hörnquist<sup>18</sup>, Lukasz Huminiecki<sup>22</sup>, Kazuho Ikeo<sup>16</sup>, Naoko Imamoto<sup>23</sup>, Satoshi Inoue<sup>24</sup>, Yusuke Inoue<sup>25</sup>, Ryoko Ishihara<sup>1</sup>, Takao Iwayanagi<sup>26</sup>, Anders Jacobsen<sup>27</sup>, Mutsumi Kanamori-Katayama<sup>1</sup>, Mandeep Kaur<sup>8</sup>, Hideya Kawaji<sup>1</sup>, Markus C. Kerr<sup>14</sup>, Ryuichiro Kimura<sup>11</sup>, Syuhei Kimura<sup>28</sup>, Yasumasa Kimura<sup>1</sup>, Hiroaki Kitano<sup>29</sup>, Hisashi Koga<sup>30</sup>, Toshio Kojima<sup>19</sup>, Shinji Kondo<sup>1</sup>, Takeshi Konno<sup>16</sup>, Anders Krogh<sup>27</sup>, Adele Kruger<sup>8</sup>, Atsutaka Kubosaki<sup>1</sup>, Ajit Kumar<sup>31</sup>, Boris Lenhard ‡, 6, Andreas Lennartsson<sup>1</sup>, Morten Lindow<sup>27</sup>, Marina Lizio<sup>1</sup>, Cameron

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7. Gustafsson, M., Hörnkvist, M., Björkegren, J., and J. Tegnér, J. *Genome-Wide System Identification and Analysis Reveals Stable yet Flexible Network Dynamics in Yeast. IET Syst. Biol.* -- July 2009 -- Volume 3, Issue 4, p.219–228
8. Gustafsson, M., Hörnkvist, M., Lundström, J., Björkegren, J., J. Tegnér, J. *Reverse engineering of gene networks with LASSO and non-linear basis functions Annals of the New York Academy of Sciences.* xxxx: 1–11 (2009).doi: 10.1111/j.1749-6632.2008.03764.x, 2009 New York Academy of Sciences
9. Eriksson, O., Brinne, B., Zhou, Y., Björkegren, J., J. Tegnér, *A delay piecewise linear systems approach to modelling cell cycle regulation IET Syst. Biol.* -- March 2009 -- Volume 3, Issue 2, p.113–129

## Reviews

1. Bridging the gap between systems biology and medicine, Clermont G, Auffray C, Moreau Y, Rocke DM, Dalevi D, Dubhashi D, Marshall DR, Raasch P, Dehne F, Provero P, Tegnér J, Aronow BJ, Langston MA, Benson M. *Genome Med.* 2009 Sep 29;1(9):88
2. Jesper Tegnér, *Modular analysis of disease gene networks* Invited minireview *J of Biol.* 2009;8(5):48. Epub 2009 May 28.

3. Jesper Tegnér, Albert Compte, Charles Auffray, Gary An, Gunnar Cedersund, Gilles Clermont, Boris Gutkin, Zoltán N Oltvai, Klaas Enno Stephan, Randy Thomas, Pablo Villoslada. *Computational Disease Modeling – Fact or Fiction?* Invited meeting report/review, **BMC Syst Biol.** 2009 Jun 4;3:56
4. Jesper Tegnér, *Networks in Biology – From Identification, Analysis to Interpretation* I.G. Tollis and M. Patrignani (Eds.): GD 2008, LNCS 5417, p. 1, 2009. **Springer-Verlag** Berlin Heidelberg 2009
5. Tegnér, J., Björkegren, J. Ravasi, T., V. Bajic. *Transcription regulatory network analysis using CAGE* Chapter 12 in *CAP\_ANALYSIS GENE EXPRESSION (CAGE)* The science of decoding gene transcription, Edited by Piero Carinci. **Pan Stanford Publishing, UK** 2009