

## Publications

### Peer reviewed articles

1. P.L. Germain, G. Testa Taming Human Genetic Variability: Transcriptomic Meta-Analysis Guides the Experimental Design and Interpretation of iPSC-Based Disease Modeling. *Stem Cell Reports* 2017 8(6):1784-1796. doi: 10.1016/j.stemcr.2017.05.012.
2. M. Gabriele, A.T. Vulto-van Silfhout, P.L. Germain, A. Vitriolo, R. Kumar, E. Douglas, E. Haan, K. Kosaki, T. Takenouchi, A. Rauch, K. Steindl, E. Frengen, D. Misceo, C.R.J. Pedurupillay, P. Stromme, J.A. Rosenfeld, Y. Shao, W.J. Craigie, C.P. Schaaf, D. Rodriguez-Buritica, L. Farach, J. Friedman, P. Thulin, S.D. McLean, K.M. Nugent, J. Morton, J. Nicholl, J. Andrieux, A. Stray-Pedersen, P. Chambon, S. Patrier, S.A. Lynch, S. Kjaergaard, P.M. Tørring, C. Brasch-Andersen, A. Ronan, A. van Haeringen, P.J. Anderson, Z. Powis, H.G. Brunner, R. Pfundt, J.H.M. Schuurs-Hoeijmakers, B.W.M. van Bon, S. Lelieveld, C. Gilissen, W.M. Nillesen, L.E.L.M. Vissers, J. Gecz, D.A. Koolen, G. Testa, B.B.A. de Vries YY1 Haploinsufficiency Causes an Intellectual Disability Syndrome Featuring Transcriptional and Chromatin Dysfunction *American Journal of Human Genetics* 2017 100(6):907-925. doi: 10.1016/j.ajhg.2017.05.006.
3. H. L. Röst, Y. Liu, G. D'Agostino, M. Zanella, P. Navarro, G. Rosenberger, B.C. Collins, L. Gillet, G. Testa, L. Malmström and R. Aebersold TRIC: an automated alignment strategy for reproducible protein quantification in targeted proteomics *Nature Methods* 2016 DOI:10.1038/nmeth.3954
4. P.L. Germain, A. Vitriolo, A. Adamo, P. Laise, V. Das and G. Testa RNAontheBENCH: Computational and empirical resources for benchmarking RNAseq quantification and differential expression methods *Nucleic Acid Research* 2016 44(11):5054-5067 DOI: 10.1093/nar/gkw448
5. E. Signaroldi, P. Laise, S. Cristofanon, A. Brancaccio, E. Reisoli, S. Atashpaz, M. R. Terreni, C. Doglioni, G. Pruneri, P. Malatesta and G. Testa Polycomb dysregulation in gliomagenesis targets a Zfp423-dependent differentiation network *Nature Communications* 2016 DOI: 10.1038/ncomms10753
6. A. Adamo, S. Atashpaz, P.L. Germain, M. Zanella, G. D'Agostino, V. Albertin, J. Chenoweth, L. Micale, C. Fusco, C. Unger, B. Augello, O. Palumbo, B. Hamilton, M. Carella, E. Donti, G. Pruneri, A. Selicorni, E. Biamino, P. Prontera, R. McKay, G. Merla and G. Testa 7q11.23 dosage-dependent dysregulation in human pluripotent stem cells affects transcriptional programs in disease-relevant lineages *Nature Genetics* 2015 47(2):132-41 DOI 10.1038/ng.3169 *News and Views* in the same issue by Urban and Purmann
7. D.H. Park, S.J. Hong, R.D. Salinas, S.J. Liu, S.W. Sun, J. Sgualdino, G. Testa, M.M. Matzuk, N. Iwamori and D.A. Lim Activation of Neuronal Gene Expression by the JMJD3 Demethylase Is Required for Postnatal and Adult Brain Neurogenesis *Cell Reports* 2014 8(5):1290-9 DOI: <http://dx.doi.org/10.1016/j.celrep.2014.07.060>
8. M. Meloni and G. Testa Scrutinizing the Epigenetics Revolution *Biosocieties* 2014 DOI: 10.1057/biosoc.2014.22
9. A. Piunti, A. Rossi, A. Cerutti, M. Albert, S. Jammula, A. Scelfo, L. Cedrone, G. Fragola, L. Olsson, H. Koseki, G. Testa, S. Casola, K. Helin, F. d'Adda di Fagagna and D. Pasini Polycomb proteins control proliferation and transformation independently of cell cycle checkpoints by regulating DNA replication *Nature Communications* 2014; 5:3649. DOI: 10.1038/ncomms4649.

10. P. Prontera, D. Serino, B. Caldini, L. Scarponi, G. Merla, G. Testa, M. Muti, V. Napolioni, G. Mazzotta, M. Piccirilli and E. Donti Brief Report: Functional MRI of a Patient with 7q11.23 Duplication Syndrome and Autism Spectrum Disorder *Journal of Autism and Developmental Disorders* 2014 DOI 10.1007/s10803-014-2117-7
11. C. Palacios, J. Harris and G. Testa Multiplex parenting: In Vitro Gametes and the generations to come *Journal of Medical Ethics* 2014 40(11):752-8. DOI: 10.1136/medethics-2013-101810
12. M. Caganova, C. Carrisi, F. Mainoldi, F. Zanardi, P.L. Germain, L. George, F. Alberghini, G. Varano, L. Ferrarini, A.K. Talukder, M. Ponzoni, G. Testa, T. Nojima, C. Doglioni, D. Kitamura, K.M. Toellner, I. Su and S. Casola EZH2 contributes to lymphomagenesis via regulation of the germinal center response *Journal of Clinical Investigation* 123(12), 2013:5009-22
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14. G. Fragola, P.L. Germain, P. Laise, A. Cuomo, A. Blasimme, F. Gross, E. Signaroldi, G. Bucci, C. Sommer, G. Pruneri, G. Mazzarol, T. Bonaldi, G. Mostoslavsky, S. Casola and G. Testa Cell reprogramming requires silencing of a core subset of Polycomb targets *PLoS Genetics* 9(2), 2013: e1003292
15. A. Blasimme, B. Schmietow and G. Testa Reprogramming potentiality: the co-production of stem cell policy and democracy *American Journal of Bioethics* 13(1), 2013: 30-2
16. T. Burgold, N. Voituron, M. Caganova, P.P. Tripathi, C. Menuet, B.K. Tusi, F. Spreafico, M. Bévangut, C. Gestreau, S. Buontempo, A. Simeone, L. Kruidenier, G. Natoli, S. Casola, G. Hilaire and G. Testa The H3K27 demethylase JMJD3 is required for maintenance of the embryonic respiratory neuronal network, neonatal breathing and survival, *Cell Reports* 2(5), 2012: 1244-58
17. L. Austenaa, I. Barozzi, A. Chronowska, A. Termanini, R. Ostuni, F. Stewart, G. Testa and G. Natoli The histone methyltransferase Wbp7 (Mll4) controls macrophage function through GPI anchor synthesis, *Immunity* 36(4), 2012: 572-85
18. M. Curnutte and G. Testa Consuming genomes: scientific and social innovation in direct-to-consumer genetic testing (2012) *New Genetics and Society*, 31:2, 159-181
19. S. Campaner, F. Spreafico, T. Burgold, M. Doni, U. Rosato, B. Amati, and G. Testa The methyltransferase Set7/9(Setd7) is dispensable for the p53-mediated DNA damage response *Molecular Cell* 43, 2011; 681-688
20. G. Testa The time of timing: How Polycomb proteins regulate neurogenesis *Bioessays*, 2011; 33(7):519-28
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24. G. Testa What to do with the Grail now that we have it? iPSCs, potentiality, and public policy. *Cell Stem Cell*, 2009 5(4):358-9
25. F. De Santa, N. Vipin, Z. H.Yap; B. K.Tusi, T. Burgold, L. Austenaa, G.Bucci, M.Caganova, S. Notarbartolo, S. Casola, G. Testa, W. Sung, C. Wei and G.

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  31. F. De Santa, M. Totaro, E. Prosperini, S. Notarbartolo, G. Testa, and G. Natoli The histone H3 lysine-27 demethylase Jmjd3 links inflammation to inhibition of polycomb-mediated gene silencing *Cell* 2007 130(6):1083-94
  32. I. Hyun\*, P. Taylor\*, G. Testa\*, B. Dickens, K. W. Jung, A. McNab, J. Robertson, L. Skene and L. Zoloth Ethical Standards for Human-to-Animal Chimera Experiments in Stem Cell Research *Cell Stem Cell* 2007 1(2):159-163 \*equal contribution
  33. G. Testa, L. Borghese, J. Steinbeck, and O. Brüstle Breakdown of the Potentiality Principle and Its Impact on Global Stem Cell Research *Cell Stem Cell* 2007 1(2):153-156
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#### Peer-reviewed books and book chapters

1. L. Chiapperino and G. Testa 'The Epigenomic Self in Personalised Medicine: between Responsibility and Empowerment' in M. Meloni, S. Williams, P. Martin (Eds.) 'Biosocial Matters: Rethinking Sociology-Biology Relations in the Twenty-First Century', Wiley-Blackwell forthcoming in 2016
2. I. Galasso and G. Testa 'Medicina di Precisione: rifare il destino tra sfida e utopia' in M. Monti, S. Garagna, G. Milano and C.A. Redi (Eds.) 'Medicina di precisione. Un esercizio di cittadinanza scientifica e democrazia cognitiva' Pavia Collegio Ghislieri Ibis Edizioni 2015
3. G. Testa 'Democracies of stemness: stem cell technologies from generation to regeneration' in F. Calegari and C. Waskow (Eds.) 'Stem Cells. From Basic Research to Therapy', CRC Press 2014
4. G. Testa and A. Maturo 'Medicina rigenerativa ed embrioni', in G. Remuzzi and A. Maturo (Eds.) 'Ci curano o ci curiamo? Il malato tra crisi economica e responsabilità individuale', Franco Angeli, Milano 2013
5. G. Testa 'Stem cells and the structuring of the Italian biopolity' in H. R. Rheinberger and R. Mazzolini (Eds.) 'Different routes to stem cell research: Germany and Italy', Il Mulino (Bologna) and Duncker & Humblot (Berlin)(2012)
6. G. Testa  
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7. H. Nowotny and G. Testa  
Naked Genes. Reinventing the Human in the Molecular Age, 2011 *MIT Press* (originally appeared as 'Die gläsernen Gene. Die Erfindung des Individuums im molekularen Zeitalter', 2009 *Suhrkamp Verlag*; Italian translation 'Geni a nudo. Ripensare l'uomo nel XXI secolo', Codice Edizioni 2012; Russian translation forthcoming)  
Reviewed in *Nature*, *The Financial Times*, *Die Zeit*, *Der Spiegel*, *Il Corriere della Sera*, *BBC Science*
8. G. Testa  
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‘Le scienze della vita. Verso nuove antropogenesi?’ in Antonio Pavan and Emanuela Magno (Eds.) ‘Antropogenesi. Ricerche sull'origine e lo sviluppo del fenomeno umano’ 2010, *Il Mulino*
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