

Giuseppe Testa, MD, PhD, MA

Curriculum Vitae

Date and place of birth: 19 January 1972, Naples (Italy)

Current position: Associate Professor of Molecular Biology
Department of Oncology and Hemato-oncology
University of Milan, Italy
Director, Laboratory of Stem Cell Epigenetics
Department of Experimental Oncology
Deputy Director
Research Unit on Biomedical Humanities
European Institute of Oncology, Milan Italy

Webpages:

<http://www.unimi.it/chiedove/schedaPersonaXML.jsp?matricola=17920>

<https://www.ieo.it/en/RESEARCH/People/Researchers/Testa-Giuseppe/>

<https://www.ieo.it/en/RESEARCH/Basic-research/Department-of-Experimental-Oncology/Stem-cell-epigenetics-Unit/>

<https://www.ieo.it/en/RESEARCH/Medical-Humanities/Biomedical-Humanities/>

Previous positions

- 2003-2005:** Visiting fellow, Berlin Institute of Advanced Studies, Berlin, Germany
Visiting fellow, Program on Science Technology and Society at the Kennedy School of Government of Harvard University (<http://sts.hks.harvard.edu/people/fellows/testa.html>)
- 2002-2005:** Postdoctoral fellow, Max Planck Institute of Molecular Cell Biology and Dresden University of Technology, Dresden, Germany
- 1997-2002:** PhD student, European Molecular Biology Laboratory, Heidelberg, Germany

Academic titles and appointments

- 1996:** M.D., University of Perugia Medical School, with honors (110/110 e lode)
- 1997:** Medical Licensing Examination
- 2002:** PhD, European Molecular Biology Laboratory (EMBL) in cooperation with the Open University, Heidelberg
- 2007:** MA in Health Care Ethics and Law, University of Manchester (with distinction)
- 2008:** Appointed Distinguished International Scholar at the University of Pennsylvania (UPenn), Philadelphia
- 2014:** Adjunct faculty at the Lieber Institute for Brain Development, (Baltimore, USA)
Associate Professor of Molecular Biology at the University of Milan by direct appointment of the Ministry of Education, University and Research

Scientific prizes:

- 2003:** Roche Prize for "Leading Bioscientists of the Next Decade"
- 1997:** Prize "Luigi Manara" from the University of Perugia for the medical student with the best academic curriculum.
- 1997:** National prize "Luigi Casati" from the "Accademia dei Lincei" for the best MD thesis defended during the year 1996

1995: Prize of the Foundation "Francesco Rebucci" for students and young graduates performing research in experimental oncology

Membership in Scientific Societies:

- International Society of Stem Cell Research (ISSCR)
- Associazione di Biologia Cellulare e Differenziamento (ABCD)
- Italian Society of Biochemistry and Molecular Biology

Organization of international conferences

2016: Joint Conference of the International Society for Stem Cell Research (ISSCR), the European Society for Gene and Cell Therapy (ESGCT), and the Associazione Italiana di Biologia Cellulare e Differenziamento (ABCD) 'Changing the Face of Modern Medicine: Stem Cells & Gene Therapy', Florence, October 18-21

2015: **Giuseppe Testa** and Marco Bianchi
EPIGEN-MiChroNetwork Chromatin Seminar
'Changing Landscapes: Histone Turnover in Health and Disease'
Milan, 22 September

2014: **Giuseppe Testa**, Luca Chiapperino and Maria Damjanovicova
'EPIGENomics and Health Care Policy', a joint conference of the Italian National Research Council (CNR) EPIGEN Flagship Project, along with EU consortia BLUEPRINT, DEEP and EPIGENESYS
European Institute of Oncology, 1-3 December 2014

2011: **Giuseppe Testa**, Raymond Poot and Helena Mira
'Biology of Neural Systems', a workshop of the EU Research Network EuroSyStem
European Institute of Oncology, Milan 4-6 December

Giuseppe Testa, Sheila Jasanoff and Halldor Stefansson
EMBL Summer School 'The human animal: scientific, social and moral perspectives'
EMBL, Heidelberg 1-6 August

2009: **Giuseppe Testa**, Stefano Casola and Thomas Graf
'Reprogramming cell fate: basic biology and medical perspectives'
IFOM-IEO-Campus, Milan December 9-11

2008: **Giuseppe Testa**, Sheila Jasanoff and Halldor Stefansson
EMBL Summer School 'Deconstructing and reconstructing life: from classification to design'
EMBL, Heidelberg August 25-30

2007: **Giuseppe Testa** and Christina Brandt
'Times of cloning: historical and cultural aspects of a biotechnological research field'
Max Planck Institute for the History of Science, Berlin March 1-4

2004: **Giuseppe Testa** and Giorgio Vasta

International workshop on Life Sciences and Narratives 'Embryos and plots: public lectures on science and narratives'
Holden School of creative writing and narrative studies, Turin March 22-26

- 2000:** Co-organizer of the first International PhD symposium on Neurobiology "From Genes to Thoughts"
EMBL, Heidelberg October 20-21

Selected invited talks and communications

- 2017:** -Cold Spring Harbor Laboratory (CSHL) Meeting on 'Development and 3D Modeling of the Human Brain', CSHL, December 6-9
- 2016:** -Joint Conference of the International Society for Stem Cell Research (ISSCR), the European Society for Gene and Cell Therapy (ESGCT), and the Associazione Italiana di Biologia Cellulare e Differenziamento (ABCD) 'Changing the Face of Modern Medicine: Stem Cells & Gene Therapy', Florence, October 18-21
- 2015:** -Keynote speaker. 11th World Conference on the Future of Science "Precision Medicine: Present Challenges for Future Cures", Venice, 17-19 September
- National Congress of the Italian Society for Cell Biology and Differentiation (ABCD), Bologna, 17-19 September
- 17th International Workshop Fragile X and Other Early Onset Cognitive Disorders, Strasbourg, 27-30 September
- 2014:** -EMBO Workshop Epigenetic plasticity: Implications in neural (dys)function Braga, Portugal 22 - 25 October
- EMBO Conference Brain development and disorders La Ciotat, France 5 – 8 September
- Glioma Club 2014 National Hospital for Neurology and Neurosurgery, London 20 October
- Joint Meeting of the British Societies for Cell Biology and Developmental Biology, Warwick University, 16-19 March
- G. Armenise Harvard Foundation 15th Symposium 'Mechanisms to Molecules', 22-25 June
- 2013:** -Christian-Albrechts-Universität zu Kiel Symposium 'Das Ende der Wissenschaft und darüber hinaus' Part II, 8 November
- 3rd Oxford Symposium on Epigenetic Mechanisms in Health and Disease "Neuropsychiatry and Inflammation: Epigenetic Target Discovery Beyond Oncology", University of Oxford (UK) March 14-15
- 2012:** -Stem Cell Technologies in Functional Genomics, Lieber Institute for Brain Development, Maltz Research Laboratories, Baltimore (USA) November 26-27
- Roche-Nature Medicine Translational Neuroscience Symposium "Autism Spectrum Disorders: From Biological Understanding to Therapeutic Strategies", Buonas (Switzerland) April 23-25
- Cold Spring Harbor Workshop on Stem Cells, July 27-August 5

- 2011:** -International Symposium on Clinical and Basic Investigation in Glioblastoma, Valencia, 23-25 June
 -Keynote lecture, 'Looking back ahead. The 10th Anniversary of the Human Genome and Its Implications for Science and Society', University of Wien, May 17
 -Meeting of the Ethics and Public Policy Committee of the International Society of Stem Cell Research (ISSCR) 'Pathways Towards a Sustainable Ethics of Human Stem Cell Research', Brocher Foundation, Geneva December 1-2
- 2010:** -Cold Spring Harbor Workshop on Stem Cells, July 30-August 8
- 2009:** -Guest lectures and courses as Distinguished International Professor at the University of Pennsylvania
- 2008:** -Cold Spring Harbor Workshop on Stem Cell Technologies, August 6-13
- 2003:** -Fifth International Workshop on Advanced Genomics, Yokohama (Japan), 26-27 June

Academic honors and appointments to scientific bodies and editorial boards

- European Research Council (ERC) Consolidator Grant 2013 awardee
- European Research Council (ERC Proof of Concept) Grant 2015 awardee
- Appointed to the Editorial Board of *Journal of Biological Chemistry*
- Appointed to the Editorial Board of Cell Press journal *Stem Cell Reports*
- Appointed to the Editorial Board of *Journal of Medical Ethics*
- Reviewer for the *European Research Council (ERC)*, the *Medical Research Council (MRC)*, the *Swiss National Science Foundation*, the *French National Research Agency (ANR)*
- Elected member of the governing Council of the Italian Society of Cell Biology and Differentiation (ABCD – Associazione di Biologia Cellulare e Differenziamento) for the 2014-2016 term
- Member of the Ethics and Public Policy Committee of the International Society for Stem Cell Research (ISSCR)
- Member of the International Affairs Committee of the International Society for Stem Cell Research (ISSCR)
- Member of the Ethics Advisory Board of the Innovative Medicine Initiative (IMI) project "European Bank for Induced Pluripotent Stem Cells (EBiSC)
- Member of the Working Group on Ethics of the International Human Epigenome Consortium (IHEC)
- Member of the Executive Committee of the Italian National Research Council (CNR) Flagship Project EPIGEN
- Chair of the Ethics Advisory Board of the EU Network MODHEP 'Systems Biology of Liver Cancer: an Integrative Genomic-Epigenomic Approach'
- Elected to the governing Council of the International Society for the History, Philosophy and Social Studies of Biology (ISSHPSB) for the 2011-2015 term
- Appointed to the Management Committee of the European COST action 'Bio-objects and their Boundaries: Governing Matters at the Intersection of Society, Policy and Science' (http://www.cost.eu/domains_actions/isch/Actions/IS1001)
- Appointed to the Management Committee of the European COST action 'Citizen's Health through public-private Initiatives: Public health, Market and Ethical perspectives (CHIP ME)' (http://www.cost.eu/domains_actions/isch/Actions/IS1303)
- Associate Principal Investigator of the EU Research Network EuroSyStem

- Ethics Advisor of the EU Research Networks ESTools and NeuroStemCell
- Member of the Ethics Advisory Board of the Human Genetics Foundation (HUGE), Turin, Italy

Studies and research

2006- present

- Associate Professor of Molecular Biology at the University of Milan by direct appointment of the Ministry of Education, University and Research
- Director of the Laboratory of Stem Cell Epigenetics at the European Institute of Oncology, Milan, Italy
- Deputy Principal Investigator of the Research Unit on Biomedical Humanities
- Co-founder of the interdisciplinary PhD program on Foundations and Ethics of the Life Sciences (Folsatec) at the European School of Molecular Medicine, Milan, Italy
- Adjunct faculty at the Lieber Institute for Brain Development, (Baltimore, USA)

2002-2005

- Postdoctoral fellow at the Max Planck Institute of Molecular Cell Biology and Genetics and the Dresden University of Technology. Research theme: epigenetic regulation and genome engineering of embryonic stem cells
- Visiting fellow, Program on Science Technology and Society at the Kennedy School of Government of Harvard University (<http://sts.hks.harvard.edu/people/fellows/testa.html>)
- Visiting fellow, Berlin Institute of Advanced Studies
- Winner of the Branco Weiss Fellowship "Society in Science"
- Founder and chairman of the 'Forum on Science and Society' of the Max-Planck Institute for Molecular Cell Biology and Genetics, Dresden

1997-2002

- PhD Program in Molecular and Cellular Biology at the European Molecular Biology Laboratory (EMBL Heidelberg) in the laboratory of Dr. A. Francis Stewart. Research theme and PhD thesis title: 'Modeling leukemia in the mouse: novel strategies in genome engineering'
- European Doctorate in Biotechnology awarded by the European Association for Higher Education in Biotechnology (HEduBT) for excellence of research in the field of biotechnology

1990-1996

- Medical school at the University of Perugia (Italy), including research studentships at the Clinical Research Centre, Harrow (UK)(Hounsell Lab) and the College of Physicians and Surgeons of Columbia University (New York)(Dalla-Favera Lab)
- Medical Doctor (MD) thesis in Molecular Immunopharmacology at the University of Perugia with Prof. Carlo Riccardi.
- Graduation from the University of Perugia Medical School with the highest grade and honors (110/110 summa cum laude)
- Medical licensing examination from the University of Perugia

Languages

Italian: mother language
 English: fluent, written and oral
 -Certificate of Proficiency in English of the University of Cambridge with the grade "A"

-Test of English as a foreign language (TOEFL) with a score of 670/670
German: fluent, written and oral
Zertifikat Deutsch als Fremdesprache (ZDaF) with the grade "gut"
French: basic

Selected research funds and international consortia

Recipient of several international and national research grants, including:

- **European Research Council** Consolidator Grant
“Modeling Disease through Cell Reprogramming: a Translational Approach to the Pathogenesis of Syndromes Caused by Symmetrical Gene Dosage Imbalances “(DISEASEAVATARS)
- **European Research Council** Proof of Concept (PoC) Grant
“Leveraging Small Demethylase inhibitors for Autism Spectrum Disorder (LSDiASD)”
- **Horizon2020** Consortium
“Integrating Epidemiology and Experimental Biology to Improve Risk Assessment of Exposure to Mixtures of Endocrine Disruptive Compounds” (EDC-MixRisk)
- **ERANET-Neuron**
“The epigenomics of eating disorders” (FOOD FOR THOUGHT -F4T)
- **Italian Association for Cancer Research (AIRC)**
“Reprogramming and stemness in ovarian cancer: function, signatures, and clinical relevance”
- **Association for International Cancer Research**
“Functional dissection of the epigenetic basis of glioma recurrence”
- **Italian National Research Council (CNR) EPIGEN Flagship Project**
- **Regione Lombardia (Ricerca Indipendente 2012)**
- **Telethon**

Publications

Peer reviewed articles

1. 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
2. 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 Acids Res.* 2016 May 17
3. 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 (Feb 29;7:10753. doi: 10.1038/ncomms10753)
4. 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 Feb;47(2):132-41 DOI 10.1038/ng.3169 *News and Views* in the same issue by Urban and Purmann
 5. 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>
 6. M. Meloni and **G. Testa** Scrutinizing the Epigenetics Revolution *Biosocieties* 2014 doi: 10.1057/biosoc.2014.22
 7. 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.
 8. 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
 9. 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
 10. 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
 11. L. Schneider, S. Pellegatta, R. Favaro, F. Pisati, P. Roncaglia, **G. Testa**, S.K. Nicolis, G. Finocchiaro and F. D'Adda di Fagagna DNA damage in mammalian neural stem cells leads to astrocytic differentiation mediated by BMP2 signaling through JAK-STAT *Stem Cell Reports* 2013 DOI: 10.1016/j.stemcr.2013.06.004
 12. 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
 13. 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
 14. 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

15. 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
16. 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
17. 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
18. **G. Testa** The time of timing: How Polycomb proteins regulate neurogenesis *Bioessays*, 2011; 33(7):519-28
19. G. Boniolo and **G. Testa** The Identity of Living Beings, Epigenetics, and the Modesty of Philosophy. *Erkenntnis*, 2011; DOI 10.1007/s10670-011-9308-9
20. C.E. Pasi, A. Dereli-Oz, S. Negrini, M. Friedli, G. Fragola, A. Lombardo, G. Van Houwe, L. Naldini, S. Casola, **G. Testa**, D. Trono, P.G. Pelicci, and T.D. Halazonetis Genomic instability in induced stem cells *Cell Death and Differentiation*, 2011; 18(5):745-53
21. **G. Testa** Stem Cell Teathrics *Nature* 2010, 465: 1012
22. **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
23. 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. Natoli Jmjd3 contributes to the control of gene expression in LPS activated macrophages *The EMBO Journal*, 2009; 28(21):3341-52
24. G. Natoli, **G. Testa** and F. De Santa The future therapeutic potential of histone demethylases: a critical analysis *Current Opinion in Drug Discovery and Development* 2009; 12(5):607-15
25. L. Skene, **G. Testa**, I. Hyun, K. W. Jung, A. McNab, J. Robertson, C. T. Scott, J. H. Solbakk, P. Taylor, L. Zoloth Ethics Report on Interspecies Somatic Cell Nuclear Transfer Research *Cell Stem Cell*, 2009; 5(1): 27-30
26. T. Burgold, F. Spreafico, F. De Santa, M. Totaro, E. Prosperini, G. Natoli and **G. Testa** The histone H3 lysine 27-specific demethylase Jmjd3 is required for neural commitment *PloS One* 2008 3(8): e3034
27. J.A. Adjaye, A.G. Byskov, J.B. Cibelli, R. De Maria, S. Minger, M. Sampaolesi, **G. Testa**, C. Verfaillie, M. Zernicka-Goetz, H. Schöler, M. Boiani, N. Crosetto, C.A. Redi Pluripotency and differentiation in embryos and stem cells *Int J Dev Biol* 2008 52(7):801-9
28. **G. Testa** Stem cells through stem beliefs: the co-production of biotechnological pluralism *Science as Culture* 2008 17(4): 435-448
29. 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
30. 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
31. **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
32. J. Scholten, K. Hartmann, A. Gerbaulet, T. Krieg, W. Müller, **G. Testa**, and A. Roers Mast cell-specific Cre/loxP-mediated recombination in vivo *Transgenic Res.* Epub 2007 Oct 31 (2008 (2):307-15)

33. **G. Testa** Nuclear Transfer: an Example of Responsive Epistemologies *Preprint 310 of the Proceedings of the Max Planck Institute for the History of Science* 2006 pp. 205-214
34. **G. Testa** and J. Harris Ethics and synthetic gametes *Bioethics*, 2005; 19: 146-166
35. **G. Testa** and J. Harris Ethical aspects of ES cell-derived gametes *Science*, 2004; 305:1719
36. **G. Testa** and J. Harris The ethics of deriving gametes from ES cells, response to A. Lippman and S.A. Newman *Science*, 2005;307: 515c-517c
37. **G. Testa**, J. Schaft, F.v.d. Hoeven, S. Glaser, Y. Zhang, T. Hermann, W. Stremmel and A. F. Stewart A reliable lacZ expression reporter cassette for multipurpose, knock-out-first, alleles *Genesis*, 2004, 38(3):151-8
38. **G. Testa**, K. Vintersten, Y. Zhang, V. Benes, J.P.P. Muyrers and A. F. Stewart BAC Engineering for the generation of ES cell-targeting constructs and mouse transgenes *Methods Mol Biol.* 2004; 256:141-58
39. K. Vintersten, **G. Testa**, A. F. Stewart. Microinjection of BAC DNA into the pronuclei of fertilised mouse oocytes *Methods Mol Biol.* 2004; 256: 141-58
40. J.P.P. Muyrers, Y. Zhang, V. Benes, J.M.J. Rientjes, **G. Testa** and A. F. Stewart ET recombination: DNA engineering using homologous recombination in E. coli *Methods Mol Biol.* 2004; 256: 107-22
41. **G. Testa**, Y. Zhang, K. Vintersten, V. Benes, I. Chambers, W. W. M. Pim Pijnappel, A. J.H. Smith, A. A. Smith and A. F. Stewart Engineering the mouse genome with bacterial artificial chromosomes to create multipurpose alleles *Nature Biotechnology*, 2003; 21(4): 443-7
42. T. Schell, **G. Testa**, S. Castagnetti, B. Rutz, M. Hannus and F. Frischknecht Neuroscience from different angles. Student symposium: From genes to thoughts *EMBO Reports* 2001 Jun; 2(6):471-5
43. **G. Testa** and A. F. Stewart Creating a translocation: engineering interchromosomal translocations in the mouse *EMBO Reports*, 2000 Aug; 1(2):120-1
44. Y. Zhang, J. P. P. Muyrers, **G. Testa** and A. F. Stewart DNA cloning by homologous recombination in Escherichia coli. *Nature Biotechnology* 2000 Dec; 18(12):1314-7
45. J. P. P. Muyrers, Y. Zhang, V. Benes, **G. Testa**, W. Ansorge and A. F. Stewart Point mutation of bacterial artificial chromosomes by ET recombination. *EMBO Reports* 2000 Sep; 1(3):239-43
46. J. P. P. Muyrers, Y. Zhang, **G. Testa** and A. F. Stewart Rapid modification of bacterial artificial chromosomes by ET-recombination *Nucleic Acid Research*, 1999 Mar 15; 27(6): 1555-1557
47. G. Nocentini, S. Ronchetti, A. Bartoli, **G. Testa**, F. D'Adamio, C. Riccardi and G. Migliorati TCR α : an alternatively spliced product of the T cell receptor zeta gene *European Journal of Immunology* 1995 25: 1405-1409

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 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. Maturò 'Medicina rigenerativa ed embrioni', in G. Remuzzi and A. Maturò (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**
'More Than Just a Nucleus: Cloning and the Alignment of Scientific and Political Rationalities' in Sheila Jasanoff (Ed.) 'Reframing Rights: Bioconstitutionalism in the Genetic Age', 2011 *MIT Press*, pp. 86-104
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**
'Cloning as Mirror'
in Christoph Zollikofer (Ed.) 'Klon statt Person', 2011 *Hochschulverlag AG an der ETH Zuerich*, pp. 45-50
9. **G. Testa**
'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*
10. G. Boniolo, G. Gatti, G. Pelicci and **G. Testa**
Cellule staminali. La base scientifica, le future terapie. La riflessione etica al di là dello slogan ideologico. Le risposte della scienza.
Quaderno 11 Libertà di sapere libertà di scegliere Fondazione Umberto Veronesi per il progresso delle scienze
11. **G. Testa** and S. Giaimo
'Il concetto di gene' in Giovanni Boniolo e Stefano Giaimo (Eds.) 'Filosofia e Scienze della Vita. Un'analisi dei fondamenti della biologia e della biomedicina' 2008 *Bruno Mondadori*
12. **G. Testa** and A. Minelli
'Vincoli ed epigenesi' in Giovanni Boniolo e Stefano Giaimo (Eds.) 'Filosofia e Scienze della Vita. Un'analisi dei fondamenti della biologia e della biomedicina' 2008 *Bruno Mondadori*
13. **G. Testa**
'Che cos'è un clone? Pratiche e significato delle biotecnologie rosse in un mondo globale' in Massimiano Bucchi and Federico Neresini (Eds.) 'Cellule e Cittadini' (Cells and citizens), 2006 *Sironi Editore*