
CURRICULUM VITAE

Valeria Poli
Full Professor, Molecular Biology, University of Torino



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H-index (Google Scholar) 76, 23582 citations. [Google Scholar profile](#)

Positions and Employment

1992-1997	Principal Investigator, Istituto di Ricerche di Biologia Molecolare (IRBM), Rome, Italy
1997-2001	Principal Investigator, Wellcome Trust Senior Research Fellow, Honorary Senior Lecturer and Head of the Transgenic Unit, Department of Biochemistry, University of Dundee, Dundee, UK
2001-2005	Associate Professor in Molecular Biology, University of Turin, Italy.
2005-present	Full Professor in Molecular Biology, Dept. of Molecular Biotechnology and Health Sciences, University of Turin, Italy.

Elected member of EMBO and Academia Aeuropaea in 1998 and 2014
President of SIBBM (Italian Society of Biophysics and Molecular Biology) since 2016

Editorial Board member, Cell Communications and Signaling, American Journal of Cancer Research and Cancers. Associate Editor, Frontiers in Molecular and Cellular Oncology.

2012-2015	Member of the BIO/11 ASN panel
2010-2017	Member of the LS4 advanced ERC grants reviewing panel
2021:	Coordinator of the Panel of Evaluation Experts for Life Sciences, BIO sector (GEV 05) for the National Research Quality Evaluation (VQR) 2015-2019.

Main Publications 2011-2022:

1. Kreuzaler PA, Staniszewska AD, Li W, Omidvar N, Kedjouar B, Turkson J, Poli V, Flavell RA, Clarkson RWE, and Watson CJ. Stat3 controls lysosomal mediated cell death *in vivo*. (2011) Nature Cell Biology 13:303-309.
2. Bard-Chapeau EA, Li S, Ding J, Zhang SS, Zhu HH, Princen F, Fang DD, Han T, Bailly-Maitre B, Poli V, Varki NM, Wang H and Feng G-S. Ptpn11/Shp2 Acts as a Tumor Suppressor in Hepatocellular Carcinogenesis. (2011) Cancer Cell 19:629–639.
3. Demaria M, Misale S, Giorgi C, Miano V, Camporeale A, Campisi J, Pinton P and Poli V. STAT3 can serve as a hit in the process of malignant transformation of primary cells. 2012, Cell Death and Differentiation 19: 1390-1397.
4. Camporeale A, Marino F, Papageorgiou A, Carai P, Fornero S, Fletcher S, Page BDG, Gunning P, Forni M, Chiarle R, Morello M, Jensen O, Levi R, Heymans S, Poli V. STAT3 activity is necessary and sufficient for the development of immune-mediated myocarditis in mice and promotes progression to dilated cardiomyopathy. (2013) EMBO Mol. Medicine 5: 572–590, DOI: 10.1002/emmm.201201876.

5. Miao Q, Ku AT, Nishino Y, Howard JM, Rao AS, Shaver TM, Garcia GE, Le DN, Karlin KL, Westbrook TF, Poli V and Nguyen H. Tcf3 promotes cell migration and wound repair through regulation of lipocalin 2. (2014) *Nature Communications* 5, 4088, doi:10.1038/ncomms5088
6. Gotthardt D, Putz EM, Straka E, Kudweis P, Biaggio M, **Poli V**, Strobl B, Müller M, Sexl V. Loss of STAT3 in murine NK cells enhances NK cell-dependent tumor surveillance. (2014) *Blood* 124, 15, 2370-2379. PMID: 25185262.
7. Laklai H, Miroshnikova YA, Pickup MW, Collisson E, Kim GE, Barrett AS, Hill RC, Lakins JN, Schlaepfer DD, Mouw JK, LeBleu VS, Novitskiy SV, Johansen JS, **Poli V**, Kalluri R, Iacobuzio-Donahue CA, Wood LD, Hebrok M, Hansen K, Moses HL and Weaver VW. Genotype tunes PDAC tension to induce matricellular-fibrosis and tumor aggression. (2016) *Nature Medicine* 22, 497–505, doi:10.1038/nm.4082.
8. Avalle L, Incarnato D, Savino A, Gai M, Marino F, Pensa S, Barbieri I, Stadler MB, Provero P, Oliviero S, Poli V. MicroRNAs-143 and -145 induce epithelial to mesenchymal transition and modulate the expression of junction proteins. (2017) *Cell Death Differ.*, 24(10):1750-1760. doi:10.1038/cdd.2017.103. doi: 10.1038/cdd.2017.103. PMID: 28644441.
9. Priego N, Zhu L, Monteiro C, Mulders M, Wasilewski D, Bindeman W, Doglio L, Martínez L, Martínez-Saez E, Cajal SRY, Megías D, Hernández-Encinas E, Blanco-Aparicio C, Martínez L, Zarzuela E, Muñoz J, Fustero-Torres C, Pineiro E, Hernández-Laín A, Bertero L, Poli V, Sánchez-Martínez M, Menendez JA, Soffietti R, Bosch-Barrera J, Valiente M. STAT3 labels a subpopulation of reactive astrocytes required for brain metastasis. *Nat Med.* 2018, 24, 1024-1035. doi: 10.1038/s41591-018-0044-4. Erratum in: [Nat Med. 2018 Jun 19](#); PMID: 29892069.
10. Avalle L, Camporeale A, Morciano G, Caroccia N, Ghetti E, Orecchia V, Viavattene D, Giorgi C, Pinton P, Poli V. STAT3 localizes to the ER, acting as a gatekeeper for ER-mitochondrion Ca²⁺ fluxes and apoptotic responses. (2018) *Cell Death Differ.* 2019, 26(5):932-942. doi: 10.1038/s41418-018-0171-y. [Epub 2018 July 24].
11. Martínez-Fábregas J, Prescott A, van Kasteren S, Pedrioli DL, McLean I, Moles A, Reinheckel T, Poli V, Watts C. Lysosomal protease deficiency or substrate overload induces an oxidative-stress mediated STAT3-dependent pathway of lysosomal homeostasis. *Nat Commun.* 2018 Dec 17;9(1):5343. doi: 10.1038/s41467-018-07741-6. PMID: 30559339
12. D'Alise AM, Leoni G, Cotugno G, Troise F, Langone F, Fichera I, De Lucia M, Avalle L, Vitale R, Leuzzi A, Bignone V, Di Matteo E, Tucci FG, Poli V, Lahm A, Catanese MT, Folgore A, Colloca S, Nicosia A, Scarselli E. Adenoviral vaccine targeting multiple neoantigens as strategy to eradicate large tumors combined with checkpoint blockade. *Nat Commun.* 2019, 10:2688. doi: 10.1038/s41467-019-10594-2.
13. Avalle L, Marino F., Camporeale A., Guglielmi C., Viavattene D., Bandini S., Conti L., Cimino J., Forni M., Zanini C., Ghigo A., Bogorad R.L., Cavallo F., Provero P., Koteliansky V. and Poli V. *Liver-specific siRNA-mediated Stat3 or C3 knock-down improves the outcome of experimental autoimmune myocarditis*, *Mol Ther Methods Clin Dev.* 2020, 18:62-78. <https://doi.org/10.1016/j.omtm.2020.05.023>
14. Savino A, Provero P and Poli V. Differential Co-Expression Analyses Allow the Identification of Critical Signalling Pathways Altered during Tumour Transformation and Progression. *Int. J. Mol. Sci.* 2020, 21(24), 9461; <https://doi.org/10.3390/ijms21249461>.
15. Savino A, De Marzo N, Provero P, Poli V. Meta-Analysis of Microdissected Breast Tumors Reveals Genes Regulated in the Stroma but Hidden in Bulk Analysis. *Cancers* 2021, 13(13):3371. doi: 10.3390/cancers13133371.
16. Avalle L, Raggi L, Monteleone E, Savino A, Viavattene D, Statello L, Camperi A, Aversano Stabile S, Salemme V, De Marzo N, Marino F, Guglielmi C, Lobascio A¹, Zanini C, Forni M, Incarnato D, Defilippi P, Oliviero S, Poli V. STAT3 induces breast cancer growth via ANGPTL4, MMP13 and

STC1 secretion by Cancer Associated Fibroblasts, 2022 Oncogene, Online ahead of print, doi:
10.1038/s41388-021-02172-y