
CURRICULUM VITAE

Valeria Poli

Full Professor, Molecular Biology, University of Torino

ORCID ID: orcid.org/0000-0002-3739-3966

H-index (Google Scholar) 66, 19643 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.

Member of EMBO and Academia Aeuropaea

President of SIBBM (Italian Society of Biophysics and Molecular Biology) since 2017

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

Current Research Interests and expertise

1. Mechanisms involved in STAT3 oncogenic activities, particularly in: i) the relationships between breast tumor cells and cancer associated fibroblasts (Raggi et al., in prep.); ii) shaping energy metabolism and Ca homeostasis (Avalle et al., CDD 2018); iii) regulating ES cells pluripotency via linc RNAs (Monteleone et al., MS in preparation); iv) dissecting the role of STAT3 and complement in auto-immune myocarditis (Avalle, Marino et al, MS in preparation). Additionally, we have recently engaged in a collaboration with Nouscom srl, to improve the effectiveness of personalized cancer vaccines (D'Alise et al., Nat Commun. 2019)

Publications 2009-2019:

1. Li W, Ferguson BJ, Khaled WT, Tevendale M, Stingl J, Poli V, Rich T, Salomoni P, Watson CJ. PML depletion disrupts normal mammary gland development and skews the composition of the mammary luminal cell progenitor pool. (2009) Proc Natl Acad Sci USA 106:4725-30.
2. Vallania, F., Schiavone, D., Dewilde, S., Pupo, E., Garbay, S., Calogero, R., Pontoglio, M., Provero, P. and Poli, V. Genome-Wide Discovery of Functional Transcription Factor Binding Sites by Comparative Genomics: the Case of Stat3. (2009) Proc. Natl. Acad. Sci. USA 106:5117-22.
3. Pensa S, Watson CJ and Poli V. Stat3 and the Inflammation/Acute Phase Response in Involution and Breast Cancer. (2009) J Mammary Gland Biol Neoplasia 14:121-9.

4. Pensa S, Regis G, Boselli D, Novelli F, Poli V. STAT1 and STAT3 in Tumorigenesis: Two Sides of the Same Coin? (2009) in Stephanou ed, "JAK-STAT Pathway in Disease", Landes Bioscience, pp 100-121. ISBN: TBA.
5. Schiavone D, Dewilde S, Vallania F, Turkson J, Di Cunto F and Poli V. The RhoU/Wrch1 Rho GTPase gene is a common transcriptional target of both the gp130/Stat3 and Wnt-1 pathways. (2009) *Biochem J*. 421:283-92.
6. Schaljo B, Kratochvill F, Gratz N, Sadzak I, Sauer I, Hammer J, Vogl C, †, Strobl B, Müller M, Blackshear PJ, Poli V, Lang R, Murray PJ and Kovarik P. Tristetraprolin is required for full anti-inflammatory response of murine macrophages to IL-10. (2009) *J. Immunol*. 183:1197-206.
7. Filipowicz M, Wang X, Yan M, Duong FH, Poli V, Hilton DJ, Zhang DE, Heim MH. Interferon alpha induces long-lasting refractoriness of JAK-STAT signaling in the mouse liver through induction of USP18/UBP43. (2009) *Mol Cell Biol*. 17, 4841-51.
8. Regis G, Icardi L, Conti L, Chiarle R, Piva R, Giovarelli M, Poli V and Novelli F. IL-6, but not IFN- γ , triggers apoptosis and inhibits in vivo growth of human malignant T cells on STAT3 silencing. (2009), *Leukemia* 11, 2102-8. PMID: 19626047.
9. Moran A, Tsimelzon AI, Mastrangelo MA, Wu Y, Yu B, Hilsenbeck SG, Poli V, Tweardy DJ. Prevention of trauma/hemorrhagic shock-induced lung apoptosis by IL-6-mediated activation of Stat3. (2009) *Clin Transl Sci*. 2, 41-49. PMID: 20443866.
10. Musteanu M, Blaas L, Mair M, Schleder M, Bilban M, Tauber S, Esterbauer H, Mueller M, Casanova E, Kenner L, Poli V, Eferl R. Stat3 is a negative regulator of intestinal tumor progression in ApcMin mice. (2010) *Gastroenterology* 138:1003-11.
11. Barbieri I, Quaglino E, Maritano D, Pannellini T, Riera L, Cavallo F, Forni G, Musiani P, Chiarle R and Poli V. Stat3 is required for anchorage independent growth and metastasis but not for mammary tumor development downstream of the ErbB-2 oncogene. (2010) *Molecular Carcinogenesis* 49:114-20.
12. Barbieri I, Pensa S, Pannellini T, Quaglino E, Maritano D, Demaria M, Voster A, Turkson J, Cavallo F, Watson CJ, Provero P, Musiani P and Poli V. Constitutively active Stat3 enhances Neu-mediated migration and metastasis in mammary tumors via upregulation of Cten. (2010) *Cancer Res*. 70:2558-67.
13. Hoelbl A, Schuster C, Kovacic B, Zhu B, Wickre M, Hoelzl MA, Fajmann S, Grebien F, Warsch W, Stengl G, Hennighausen L, Poli V, Beug H, Moriggl R and Sexl V. Stat5 is indispensable for the maintenance of *bcr/abl*-positive leukaemia. (2010) *EMBO Mol Med*. 2:98-110.
14. Mair M, Zollner G, Schneller D, Musteanu M, Fickert P, Gumhold J, Schuster C, Fuchsbichler A, Bilban M, Tauber S, Esterbauer H, Kenner L, Poli V, Blaas L, Kornfeld JW, Casanova E, Mikulits W, Trauner M and Eferl R. STAT3 PROTECTS FROM LIVER INJURY AND FIBROSIS IN A MOUSE MODEL OF SCLEROSING CHOLANGITIS. (2010) *Gastroenterology* 138:2499-2508.
15. Demaria M, Giorgi C, Lebedzinska M, Esposito G, D'Angeli L, Bartoli A, Gough DJ, Turkson J, Levy DE, Watson CJ, Wieckowski MR, Provero P, Pinton P and Poli V. A STAT3-mediated metabolic switch is involved in tumour transformation and STAT3 addiction. (2010) *Aging* 2:823-842.

16. Kreuzaler PA, Staniszevska 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.
17. Vogt M, Domszalai T, Kleshchanok D, Lehmann S, Schmitt A, Poli V, Richtering W, Müller-Newen G. The role of the N-terminal domain in dimerization and nucleocytoplasmic shuttling of latent STAT3. (2011) J Cell Sci. 124:900-909.
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18. 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.
19. Schiavone D, Avalle L, Dewilde S, Poli V. The immediate early genes Fos and Egr1 become STAT1 transcriptional targets in the absence of STAT3. (2011) FEBS Lett. 585, 2455-2460.
20. Demaria M and Poli V. From the nucleus to the mitochondria and back. The odyssey of a multitask STAT3. (2011) Cell Cycle 10, 3221-3222.
21. 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.
22. Camporeale A, Poli V. IL-6, IL-17 and STAT3: a holy trinity in auto-immunity? (2012) Frontiers in Bioscience 17:2306-2326.
23. Avalle L, Regis G and Poli V. Universal and Specific Functions of STAT3 in Solid Tumours. in T. Decker and M. Müller (eds.), Jak-Stat Signaling: From Basics to Disease (2012) pag. 305-333, Springer-Verlag, Wien.
24. Avalle L, Pensa S, Regis G, Novelli F and Poli V. Stat1 and Stat3 in tumorigenesis: a matter of balance. (2012) JAK-STAT 1:2, 65-72.
25. Demaria M and Poli V. Pro-malignant properties of STAT3 during chronic inflammation. (2012) Oncotarget 3:359-360.
26. Demaria M and Poli V. PKM2, STAT3 and HIF-1 α : the Warburg's vicious circle. (2012) JAK-STAT 1:3, 194-196.
27. Pensa S, Marco Demaria M, Avalle L, Barbieri I, Camporeale A, Poli V. From tissue invasion to glucose metabolism: the many aspects of Signal Transducer and Activator of Transcription 3 pro-oncogenic activities. (2012) Hormone Molecular Biology and Clinical Investigation, 10, 217-225.
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29. Staniszevska AD, Pensa S, Caffarel MM, Anderson LH, **Poli V**, Watson CJ. Stat3 is required to maintain the full differentiation potential of mammary stem cells and the proliferative potential of mammary luminal progenitors. (2012) PLoS One, 7(12):e52608. doi: 10.1371/journal.pone.0052608. Epub 2012 Dec 20. PMID: 23285109.
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32. Molineris I, Schiavone D, Rosa F, Matullo G, Poli V* and Provero P. Identification of functional cis-regulatory polymorphisms in the human genome. (2013) Human Mutation 34, 735-742. doi: 10.1002/humu.22299. *co-corresponding author
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33. Penna C, Perrelli M-G, Tullio F, Angotti C, Camporeale A, Poli V and Pagliaro P. Diazoxide postconditioning induces mitochondrial protein S-Nitrosylation and a redox-sensitive mitochondrial phosphorylation/translocation of RISK elements: no role for SAFE. Basic Research Cardiol. (2013), 108, 371, doi: 10.1007/s00395-013-0371-z. Epub 2013 Jul 20.
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35. Demaria M, Camporeale A, **Poli V** STAT3 and metabolism: How many ways to use a single molecule? (2014) Int J Cancer, 135, 9, 1997-2003. doi: 10.1002/ijc.28767. PMID: 24500994.
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37. 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.
38. Camporeale A, Demaria M, Monteleone E, Giorgio C, Wieckowski MR, Pinton P, **Poli V**. STAT3 Activities and Energy Metabolism: Dangerous Liaisons. (2014) Cancers (Basel), 6, 3, 1579-1596. doi: 10.3390/cancers6031579. PMID: 25089666
39. Marino F, Orecchia V, Regis G, Musteanu M, Tassone B, Jon C, Forni M, Calautti E, Chiarle R, Eferl R, **Poli V**. STAT3 β controls inflammatory responses and early tumor onset in skin and colon experimental cancer models. (2014) Am J Cancer Res., 4, :484-94. eCollection 2014. PMID: 25232490

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43. Grabner B, Schramek D, Mueller KM, Moll HP, Svinka J, Hoffmann T, Bauer E, Blaas L, Hruschka N, Zboray K, Stiedl P, Nivarthi H, Bogner E, Gruber W, Mohr T, Zwick RH, Kenner L, **Poli V**, Aberger F, Stoiber D, Egger G, Esterbauer H, Zuber J, Moriggl R, Eferl R, Gyo+rffy B, Penninger JM, Popper H and Casanova E. Disruption of STAT3 signalling promotes KRAS-induced lung tumorigenesis. (2015) *Nature Communications* 6, 6285. DOI: 10.1038/ncomms7285
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eCollection 2015. PMID: 26106584
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PMID: 26866929.
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shows altered stratification and cell polarity, which are restored by exogenous Wnt5a ligand. *Hum Mol Genet.* 2016 25(4):740-54. doi: 10.1093/hmg/ddv514. Epub 2015 Dec 18. PMID: 26685160.

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61. Avalle L, Poli V. Nucleus, Mitochondrion, or Reticulum? STAT3 à La Carte. *Int J Mol Sci.* 2018 Sep 18;19(9). pii: E2820. doi: 10.3390/ijms19092820. PMID: 30231582
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63. Monteleone E, Orecchia V, Corrieri P, Schiavone D, Avalle L, Moiso E, Savino A, Molineris I, Provero P, Poli V. SP1 and STAT3 Functionally Synergize to Induce the RhoU Small GTPase and a Subclass of Non-canonical WNT Responsive Genes Correlating with Poor Prognosis in Breast Cancer. *Cancers (Basel)* 2019, Jan 16;11(1). pii: E101. doi: 10.3390/cancers11010101. PMID:30654518.
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Funding-past 5 years:

AIRC Investigator Grant (IG 13009) 2013-2015, “Cancer Associated Fibroblasts”, PI; 315,000 €.

San Paolo Foundation/Ateneo Turin 2013-2014, “Tumor microenvironment (CAFCANCROSS)”, PI; 95,000 €.

MIUR PRIN 2014-2016, “STAT3-mediated regulation of respiratory metabolism”, PI and Co-ordinator; 210,000 €.

TRUUS AND GERRIT VAN RIEMSDIJK FOUNDATION, VADUZ, LIECHTENSTEIN 2014-2019. Role of Stat3 in tumorigenesis (Donation). PI, 105,000 €

AIRC Investigator Grant (IG 16930) 2016-2018, “Synergistic cross-talk between the Wnt/PCP and STAT3 pathways in basal-like breast cancer”. PI, 346,000 €.

CRT Foundation 2016-2017, “Development of novel diagnostic and therapeutic methods for auto-immune myocarditis”. PI, 50,000 €.

Piedmont Region Programma Operativo Regionale “Investimenti a favore della crescita e dell’occupazione, F.E.S.R. 2014/2020

2019-2020, DEFLeCT: Digital tEchnology For Lung Cancer Treatment, co-PI, 70,000 €.

MIUR PRIN 2017 2019-2021, “Prostate cancer: disentangling the relationships within the tumour microenvironment to better model and target tumour progression”. PI and Project co-ordinator, 216,000 €.