
CURRICULUM VITAE

Valeria Poli

Full Professor, Molecular Biology, University of Torino

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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)

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) neo-antigen cancer vaccines (D'Alise et al., Nat Commun. 2019).
2. dissecting the role of STAT3 and complement in auto-immune myocarditis (Avalle et al, Molecular Therapy - Methods and Clinical Development 2020).

Publications since 2012

1. 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.
2. Camporeale A, Poli V. IL-6, IL-17 and STAT3: a holy trinity in auto-immunity? (2012) Frontiers in Bioscience 17:2306-2326.
3. 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.

4. Demaria M and Poli V. Pro-malignant properties of STAT3 during chronic inflammation. (2012) *Oncotarget* 3:359-360.
5. 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.
6. Derecka M, Gornicka A, Koralov SB, Szczepanek K, Morgan M, Rajc V, Sisler J, Zhang Q, Otero D, Cichy J, Rajewsky K, Shimoda K, Poli V, Strobl B, Pellegrini S, Harris TE, Seale P, Russell AP, McAinch AJ, O'Brien PE, Keller SR, Croniger CM, Kordula T, Larner AC. [Tyk2 and Stat3 regulate brown adipose tissue differentiation and obesity](#). (2012) *Cell Metab.* 16:814-24.
7. Staniszewska 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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8. 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. IF 12,14
9. 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
IF 4,9, Q1, 25/165, 0.15
10. 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.

IF 15.48, Q1, 13/125, 0.104

11. [Trilling M](#), [Le VT](#), [Rashidi-Alavijeh J](#), [Katschinski B](#), [Scheller J](#), [Rose-John S](#), [Androsiac GE](#), [Jonjic S](#), [Poli V](#), [Pfeffer K](#), [Hengel H](#). Activated STAT proteins: a paradoxical consequence of inhibited JAK-STAT signaling in cytomegalovirus-infected cells. *J Immunol* (2014), 192, 447-458. doi: 10.4049/jimmunol.1203516. PMID: 24319264

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12. 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. IF 7,4
13. 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 IF 14,9

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15. 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. IF 23,63
16. 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 IF 6,54
17. 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 IF 6,17
18. Orecchia V, Regis G, Tassone B, Valenti C, Avalle L, Saoncella S, Calautti E, **Poli V**. Constitutive STAT3 activation in epidermal keratinocytes enhances cell clonogenicity and favors spontaneous immortalization by opposing differentiation and senescence checkpoints. (2015) *Exp. Dermatology* 24, 29-34, DOI 10.1111/exd.12585, PMID:25382846. Epub 2014 Dec 8
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20. Pathria P, Gotthardt D, Prchal-Murphy M, Putz E, Holcman M, Schleder M, Grabner B, Crncec I, Svinka J, Musteanu M, Hoffmann T, Filipits M, Berger W, **Poli V**, Kenner L, Bilban M, Casanova E, Müller M, Strobl B, Bayer E, Mohr T, Sexl V and Eferl R. Myeloid STAT3 promotes formation of colitis-associated colorectal cancer in mice (2015) *OncoImmunology* 4:4, e998529 IF 8,11
21. 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 IF 14,9
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- [progenitors, and accelerates reconstitution of platelets after myelosuppressive therapy.](#) (2015) J Hematol Oncol. 8:64. doi: 10.1186/s13045-015-0152-2. PMID: 26054961OD
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 28. [Bienaimé F, Muorah M, Yammine L, Burtin M, Nguyen C, Baron W, Garbay S, Viau A, Broueilh M, Blanc T, Peters D, Poli V, Anglicheau D, Friedlander G, Pontoglio M, Gallazzini M and Terzi F.](#) Stat3 Controls Tubulointerstitial Communication during CKD. (2016) J Am Soc Nephrol, 27:3690-3705. PMID, [27153926](#); DOI, 10.1681/ASN.2015091014
 29. [Pinno J, Bongartz H, Klepsch O, Wundrack N, Poli V, Schaper F, Dittrich A.](#) Interleukin-6 influences stress-signalling by reducing the expression of the mTOR-inhibitor REDD1 in a STAT3-dependent manner. (2016) Cell Signal. 28:907-916. doi: 10.1016/j.cellsig.2016.04.004. PMID: 27094713.
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 31. Svinka J, Pflügler S, Mair M, Marschall HU, Hengstler JG, Stiedl P, [Poli V](#), Casanova E, Timelthaler G, Sibilia M, Eferl R. [Epidermal growth factor signaling protects from cholestatic liver injury and fibrosis.](#) (2017) J Mol Med 95(1):109-117. doi: 10.1007/s00109-016-1462-8. PMID: 27568040
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