

**EUROPASS
CURRICULUM
VITAE**



**PERSONAL
INFORMATION**

Name and Surname	MASSIMILIANO PAGANI
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E-mail	massimiliano.pagani@unimi.it
Nationality	Italian

WORK EXPERIENCE

- Date (from - to) March 1, 2015
- Name and address of employer University of Milan
 - Type of business or sector University
 - Occupation or position held Professor
- Main responsibilities and duties Professor, Molecular Biology

- Date (from - to) June 15, 2008
- Name and address of employer FONDAZIONE INGM Istituto Nazionale Genetica Molecolare “Romeo ed Enrica Invernizzi” (“Romeo ed Enrica Invernizzi” National Institute of Molecular Genetics)
Centre of Biomedical Research
- Type of business or sector Principal Investigator
- Occupation or position held
- Main responsibilities and duties Head of the Integrative Biology program

- Date (from - to) January 1st 2006 – June 1, 2008
- Name and address of employer Primm SrL
- Type of business or sector Biotech Industry
- Occupation or position held Head of the R&D department

- Date (from - to) January 1, 2000 – December 31, 2005
- Name and address of employer Primm SrL
- Type of business or sector Biotech Industry
- Occupation or position held Head of the Molecular Biology laboratory

**AWARDS AND
ACKNOWLEDGMENTS**

- Date December 2013
- Award ERC Consolidator Grant (April 2014- March 2019)

EDUCATION AND TRAINING

- Date (from - to) January 1st, 1996 – June 1st, 2001
- Name and type of organization providing education and training PhD in Molecular and Cellular Biology (DIBIT Ospedale San Raffaele, Milan, Italy).

- Date (from - to) October 1989 – February 1995
- Name and type of organization providing education and training Degree in Biological Sciences, Department of Biochemistry and General Physiology, University of Milan, Italy

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE

ITALIAN

OTHER LANGUAGES

ENGLISH

- Reading skills EXCELLENT
- Writing skills EXCELLENT
- Speaking skills EXCELLENT

Membership

- Date (from) 2010: member of the SIICA (Società Italiana di Immunologia, Immunologia Clinica e Allergologia – Italian Society of Immunology, Clinical Immunology and Allergology)
- Date (from) 2015: member of the SIBBM (Società Italiana di Biofisica e Biologia Molecolare – Italian Society of Biophysics and Molecular Biology).

Journal Reviewer

Ad Hoc Reviewer for many scientific journals including: *Nature Immunol*, *Nature comm*, *NAR*, *J Biol Chem*, *EMBO reports*, *Bioinformatics*

Grant Reviewer

Ad Hoc Reviewer for many European funding programs: EUROPEAN RESEARCH COUNCIL ERC-COG-LS2 e ERC-COG-LS6, Reumafonds (Dutch Arthritis Foundation), French National Research Agency (ANR), Israel Science Foundation (ISF), Swiss Multiple Sclerosis Society.

Publications

1. Geginat J, Paroni M, Kastirr I, Larghi P, Pagani M, Abrignani S. Reverse plasticity: TGF- β and IL-6 induce Th1-to-Th17-cell transdifferentiation in the gut. *Eur J Immunol* 2016;46(10):2306-2310
2. Kabanova A, Marcandalli J, Zhou T, Bianchi S, Baxa U, Tsybovsky Y, Lilleri D, Silacci-Fregni C, Foglierini M, Fernandez-Rodriguez BM, Druza, Zhang B, Geiger R, Pagani M, Sallusto F, Kwong PD, Corti D, Lanzavecchia A, Perez L. Platelet-derived growth factor- α receptor is the cellular receptor for human cytomegalovirus gHgLgO trimer. *Nature Microbiology* 2016; 16082
3. Geginat J, Larghi P, Paroni M, Nizzoli G, Penatti A, Pagani M, Gagliani N, Meroni P, Abrignani S, Flavell RA. The light and the dark sides of interleukin-10 in immune-mediated diseases and cancer. *Cytokine Growth Factor Rev* 2016;30:87-93.
4. Paroni M, Magarotto A, Tartari S, Nizzoli G, Larghi P, Ercoli G, Gianelli U, Pagani M, Elli L, Abrignani S, Conte D, Geginat J, Caprioli F. Uncontrolled IL-17 production by intraepithelial lymphocytes in a case of non-IPEX autoimmune enteropathy. *Clin Transl Gastroenterol* 2016;7(7).
5. Panzeri I, Rossetti G, Pagani M. Basic principles of noncoding RNAs in epigenetics. In: *Medical epigenetics*. ; 2016. p 47-63.
6. Nizzoli G, Larghi P, Paroni M, Crosti MC, Moro M, Neddermann P, Caprioli F, Pagani M, De Francesco R, Abrignani S, Geginat J. IL-10 promotes homeostatic proliferation of human CD8+ memory T cells and, when produced by CD1c+ DCs, shapes naive CD8+ T-cell priming. *Eur J Immunol* 2016;46(7):1622-32.
7. de Candia P, Torri A, Fedeli M, Viganò V, Carpi D, Gorletta T, Casorati G, Pagani M, Dellabona P, Abrignani S. The circulating microRNome demonstrates distinct lymphocyte subset-dependent signatures. *Eur J Immunol* 2016;46(3):725-31.
8. Arrigoni A, Ranzani V, Rossetti G, Panzeri I, Abrignani S, Bonnal RJP, Pagani M. Analysis RNA-seq and noncoding RNA. *Methods Mol Biol* 2016;1480:125-35.
9. Bedogni F, Gigli CC, Pozzi D, Rossi RL, Scaramuzza L, Rossetti G, Pagani M, Kilstrup-Nielsen C, Matteoli M, Landsberger N. Defects during Mecp2 null embryonic cortex development precede the onset of overt neurological symptoms. *Cereb Cortex* 2016;26(6):2517-29.
10. Facciotti F, Gagliani N, Häringer B, Alfen JS, Penatti A, Maglie S, Paroni M, Iseppon A, Moro M, Crosti MC, Stölzel K, Romagnani C, Moroni G, Ingegnoli F, Torretta S, Pignataro L, Annoni A, Russo F, Pagani M, Abrignani S, Meroni P, Flavell R, Geginat J. IL-10-producing forkhead box protein 3-negative regulatory T cells inhibit B-cell responses and are involved in systemic lupus erythematosus. *J Allergy Clin Immunol* 2016;137(1):318,321.e5.
11. Kastirr I, Crosti MC, Maglie S, Paroni M, Steckel B, Moro M, Pagani M, Abrignani S, Geginat J. Signal strength and metabolic requirements control Th17 differentiation of uncommitted human T cells. *J Immunol* 2015 Oct 15;195(8):3617-27.
12. Pagani M, Rockstroh M, Schuster M, Rossetti G, Moro M, Crosti M, Tamm JM. Reference proteome of highly purified human Th1 cells reveals strong effects on metabolism and protein ubiquitination upon differentiation. *Proteomics* 2015;15(21):3644-7.
13. Bonnal RJP, Ranzani V, Arrigoni A, Curti S, Panzeri I, Gruarin P, Abrignani S, Rossetti G, Pagani M. De novo transcriptome profiling of highly purified human lymphocytes primary cells. *Sci Data* 2015;2.
14. Cheroni C, Donnici L, Aghemo A, Balistreri F, Bianco A, Zanoni V, Pagani M, Soffredini R, D'Ambrosio R, Rumi MG, Colombo M, Abrignani S, Neddermann P, De Francesco R. Hepatitis C virus deletion mutants are found in individuals chronically infected with genotype 1 hepatitis c virus in association with age, high viral load and liver inflammatory activity. *PLoS ONE* 2015;10(9).
15. Panzeri I, Rossetti G, Abrignani S, Pagani M. Long intergenic noncoding RNAs: Novel drivers of human lymphocyte differentiation. *Front Immunol* 2015;6(MAR).
16. Bonnal RJP, Rossi RL, Carpi D, Ranzani V, Abrignani S, Pagani M. MiRiadne: A web tool for consistent integration of miRNA nomenclature. *Nucleic Acids Res* 2015;43(W1):W487-92.
17. Ranzani V, Rossetti G, Panzeri I, Arrigoni A, Bonnal RJP, Curti S, Gruarin P, Provasi E, Sugliano E, Marconi M, De Francesco R, Geginat J, Bodega B, Abrignani S, Pagani M. The long intergenic noncoding RNA landscape of human lymphocytes highlights the regulation of T cell differentiation by linc-MAF-4. *Nat Immunol* 2015;16(3):318-25.

18. Reghellin V, Donnici L, Fenu S, Berno V, Calabrese V, Pagani M, Abrignani S, Peri F, Francesco RD, Neddermann P. NS5A inhibitors impair NS5A-phosphatidylinositol 4-kinase III α complex formation and cause a decrease of phosphatidylinositol 4-phosphate and cholesterol levels in hepatitis C virus-associated. *Antimicrob Agents Chemother* 2014;58(12):7128-40.
19. de Candia P, Torri A, Pagani M, Abrignani S. Serum microRNAs as biomarkers of human lymphocyte activation in health and disease. *Front Immunol* 2014;5(FEB).
20. Geginat J, Paroni M, Maglie S, Alfen JS, Kastirr I, Gruarin P, de Simone M, Pagani M, Abrignani S. Plasticity of human CD4 T cell subsets. *Front Immunol* 2014;5(DEC).
21. Kastirr I, Maglie S, Paroni M, Alfen JS, Nizzoli G, Sugliano E, Crosti M-, Moro M, Steckel B, Steinfeld S, Stölzel K, Romagnani C, Botti F, Caprioli F, Pagani M, Abrignani S, Geginat J. IL-21 is a central memory T cell-associated cytokine that inhibits the generation of pathogenic Th1/17 effector cells. *J Immunol* 2014;193(7):3322-31.
22. Geginat J, Paroni M, Facciotti F, Gruarin P, Kastirr I, Caprioli F, Pagani M, Abrignani S. The CD4-centered universe of human T cell subsets. *Semin Immunol* 2013;25(4):252-62.
23. de Candia P, Torri A, Gorletta T, Fedeli M, Bulgheroni E, Cheroni C, Marabita F, Crosti M, Moro M, Pariani E, Romanò L, Esposito S, Mosca F, Rossetti G, Rossi RL, Geginat J, Casorati G, Dellabona P, Pagani M, Abrignani S. Intracellular modulation, extracellular disposal and serum increase of MiR-150 mark lymphocyte activation. *PLoS ONE* 2013;8(9).
24. Pagani M, Rossetti G, Panzeri I, de Candia P, Bonnal RJP, Rossi RL, Geginat J, Abrignani S. Role of microRNAs and long-non-coding RNAs in CD4+ T-cell differentiation. *Immunol Rev* 2013;253(1):82-96.
25. Caprioli F, Bosè F, Rossi RL, Petti L, Viganò C, Ciafardini C, Raeli L, Basilisco G, Ferrero S, Pagani M, Conte D, Altomare G, Monteleone G, Abrignani S, Reali E. Reduction of CD68+ macrophages and decreased il-17 expression in intestinal mucosa of patients with inflammatory bowel disease strongly correlate with endoscopic response and mucosal healing following infliximab therapy. *Inflammatory Bowel Dis* 2013;19(4):729-39.
26. Zingaretti C, Arigò M, Cardaci A, Moro M, Crosti M, Sinisi A, Sugliano E, Cheroni C, Marabita F, Nogarotto R, Bonnal RJP, Marcatili P, Marconi M, Zignego A, Muratori P, Invernizzi P, Colombatto P, Brunetto M, Bonino F, De Francesco R, Geginat J, Pagani M, Muratori L, Abrignani S, Bombaci M. Identification of new autoantigens by protein array indicates a role for IL4 neutralization in autoimmune hepatitis. *Mol Cell Proteomics* 2012;11(12):1885-97.
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28. Bonnal RJP, Aerts J, Githinji G, Goto N, Maclean D, Miller CA, Mishima H, Pagani M, Ramirez-gonzalez R, Smant G, Strozzi F, Syme R, Vos R, Wennblom TJ, Woodcroft BJ, Katayama T, Prins P. Biogem: An effective tool-based approach for scaling up open source software development in bioinformatics. *Bioinformatics* 2012;28(7):1035-7.
29. Novellino L, Rossi RL, Bonino F, Cavallone D, Abrignani S, Pagani M, Brunetto MR. Circulating hepatitis B surface antigen particles carry hepatocellular microRNAs. *PLoS ONE* 2012;7(3).
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32. Rossi RL, Rossetti G, Wenandy L, Curti S, Ripamonti A, Bonnal RJP, Birolo RS, Moro M, Crosti MC, Gruarin P, Maglie S, Marabita F, Mascheroni D, Parente V, Comelli M, Trabucchi E, De Francesco R, Geginat J, Abrignani S, Pagani M. Distinct microRNA signatures in human lymphocyte subsets and enforcement of the naive state in CD4+ T cells by the microRNA miR-125b. *Nat Immunol* 2011;12(8):796-803.
33. Celona B, Weiner A, Di Felice F, Mancuso FM, Cesarini E, Rossi RL, Gregory L, Baban D, Rossetti G, Grianti P, Pagani M, Bonaldi T, Ragoussis J, Friedman N, Camilloni G, Bianchi ME, Agresti A.

Substantial histone reduction modulates genomewide nucleosomal occupancy and global transcriptional output. *PLoS Biol* 2011;9(6).

34. Diez-Roux G, Banfi S, Sultan M, Geffers L, Anand S, Rozado D, Magen A, Canidio E, Pagani M, Peluso I, Lin-Marq N, Koch M, Bilio M, Cantiello I, Verde R, de Masi C, Bianchi SA, Cicchini J, Perroud E, Mehmeti S, Dagand E, Schrinner S, Nürnberger A, Schmidt K, Metz K, Zwingmann C, Brieske N, Springer C, Hernandez AM, Herzog S, Grabbe F, Sieverding C, Fischer B, Schrader K, Brockmeyer M, Dettmer S, Helbig C, Alunni V, Battaini M-, Mura C, Henrichsen CN, Garcia-Lopez R, Echevarria D, Puellas E, Garcia-Calero E, Kruse S, Uhr M, Kauck C, Feng G, Milyaev N, Ong CK, Kumar L, Lam M, Semple CA, Gyenesei A, Mundlos S, Radelof U, Lehrach H, Sarmientos P, Reymond A, Davidson DR, Dollé P, Antonarakis SE, Yaspo M-, Martinez S, Baldock RA, Eichele G, Ballabio A. A high-resolution anatomical atlas of the transcriptome in the mouse embryo. *PLoS Biol* 2011;9(1).
35. Margarit I, Rinaudo CD, Galeotti CL, Maione D, Ghezzi C, Buttazzoni E, Rosini R, Runci Y, Mora M, Buccato S, Pagani M, Tresoldi E, Berardi A, Creti R, Baker CJ, Telford JL, Grandi G. Preventing bacterial infections with pilus-based vaccines: The group B streptococcus paradigm. *J Infect Dis* 2009;199(1):108-15.
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37. Pagani M, Fabbri M, Benedetti C, Fassio A, Pilati S, Bulleid NJ, Cabibbo A, Sitia R. Endoplasmic reticulum oxidoreductin 1-L β (ERO1-L β), a human gene induced in the course of the unfolded protein response. *J Biol Chem* 2000;275(31):23685-92.
38. Cabibbo A, Pagani M, Fabbri M, Rocchi M, Farmery MR, Bulleid NJ, Sitia R. ERO1-L, a human protein that favors disulfide bond formation in the endoplasmic reticulum. *J Biol Chem* 2000;275(7):4827-33.
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I, the undersigned, am aware that, pursuant to art. 26 of Law 15/68, false statements, false documents and using false acts are punishable under the Penal Code and special laws. Moreover, I hereby authorize the use of my personal details in relation to the Italian Legislative Decree n° 196/03.

MASSIMILIANO PAGANI



Milan, October 26th 2016