

BIOGRAPHICAL SKETCH

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NAME Sandra Pastorino	POSITION TITLE Junior Researcher		
eRA COMMONS USER NAME			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Liceo Classico "San G. Calasanzio", Carcare (SV), Italy	N.A.	1989	NA
University of Genova, Genoa, Italy	Ph.D.	1996	Biology
University of Pavia, Italy	Ph.D.	2002	Biochemistry and Clinical Chemistry

A. Positions and Honors

Positions and Employment

- 1995-1996: School of Medicine University of Genova, Italy. Intern Student, Biology and Genetics Institute. Supervisor: Prof. C. Garre'
- 1995-1996: National Institute for Cancer Research, IST, Genoa, Italy. Research Fellow, Laboratory of Clinical Immunology. Supervisor: Prof. M. Ferrarini
- 1997-2001: G. Gaslini Institute, Genoa, Italy. Research Fellow/Second Ph.D, Laboratory of Molecular Biology. Supervisor : Dr. L. Varesio
- 2002-2006: National Institute of Health/National Cancer Institute, MD. Research Fellow/Visiting Fellow, Neuro-Oncology Branch (NOB). Supervisor: Dr H. Fine
- 2006-present: Cancer Research Center of Hawaii, University of Hawaii, Honolulu, HI. Junior Researcher, Ph.D. Supervisor: Dr. Joe W. Ramos

Honors

- 1994-1995: Research Fellow Scholarship from the University of Genoa, Italy.
- 1995-1996: Research Fellowship from IST, Genoa, Italy
- 1997-1998: Postdoctoral Research Fellowship from G. Gaslini Institute, Genoa, Italy
- 1998-2001: Postdoctoral Fellowship from the Italian Foundation for Cancer Research FIRC, Milan, Italy
- 2002-2006: Postdoctoral Fellowship from NIH

B. Selected peer-reviewed publications (in chronological order).

1. Cutrona G, Dono M, **Pastorino S**, Ulivi M, Burgio V.L., Zupo S, Roncella S, Ferrarini M c-myc proto-oncogene expression by germinal center B cells isolated from human tonsils. *Ann N Y Acad Sci.* 815:436-9, 1997.
2. Cutrona G., Dono M, **Pastorino S**, Ulivi M, Burgio VL, Zupo S, Roncella S.and Ferrarini M. The propensity to apoptosis of centrocytes and centroblasts correlates with elevated levels of intracellular myc protein. *Eur.J. Immunol* Vol 27: 234-238,1997.
3. Bosco MC, Eva A, **Pastorino S**, and Varesio L: Ricerca di base e terapie innovative. In Castello G. (ed.) *Esposizione ad agenti genotossici. Valutazione del rischio verso un approccio globale alla tutela della salute*, Edizioni Scientifiche Cuzzolin 274-310,1999
4. **Pastorino S**, Massazza S, Varesio L and Bosco MC. Generation of a high-titer retroviral vector-producing macrophages as vehicles for in vivo gene transfer. *Gene Ther.* 8: 431-441, 2001.
5. Carta L, **Pastorino S**, Melillo G. Bosco MC, Massazza S, and Varesio L Engineered macrophages become fully activated in response to hypoxia. *J.Immunol.* 166: 5374-5380, 2001.

6. Rapella A, Negrioli A, Melillo G, **Pastorino S**, Varesio L, and Bosco MC. Flavopiridol inhibits vascular endothelial growth factor production induced by hypoxia or picolinic acid in human neuroblastoma. *Int.J.Cancer*.99 (5):658-664, 2002
7. Rapisarda A, **Pastorino S**, Massazza S, Varesio L and Bosco MC. Antagonistic effect of picolinic acid and interferon-gamma on macrophage inflammatory protein –1 alpha/beta production. *Cell Immunol*. 220 (1):70-80, 2002.
8. Mucci A, Varesio L, Neglia R, Colombari B, **Pastorino S**, and Blasi E. Antifungal activity of macrophages engineered to produce IFN γ inducibility by picolinic acid. *Med.Microbiol.Immunol* 192:71-18, 2003
9. Penco S, **Pastorino S**, Bianchi Scarrà GL, Garrè C. Lactoferrin down-modulates the activity of the Granulocyte Macrophage Colony-stimulating Factor Promoter in Interleukin-1 β -stimulated cells. *J. Biol. Chem*. Vol 270, No 20, 12263-12268, 1995.
10. Bosco MC, Rapisarda A, Reffo G, Massazza S, **Pastorino S**, Varesio L. Macrophage activating properties of the tryptophan catabolite picolinic acid. *Adv Exp Med Biol*. 527:55-65. 2003
11. Bosco MC, Puppo M, **Pastorino S**, Mi Z, Melillo G, Massazza S, Rapisarda A, Varesio L. Hypoxia selectively inhibits monocyte chemoattractant protein-1 production by macrophages. *J.Immunol* 172(3):1681-1890. 2004
12. **Pastorino S**, Carta L, Puppo M, Melillo G, Bosco MC, Massazza S, and Varesio L Picolinic acid- or desferrioxamine-inducible autocrine activation of macrophages engineered to produce INF: an approach for gene therapy. *Gene Ther* 11 (6): 560-568. 2004
13. Puppo M, **Pastorino S**, Melillo G, Pezzolo A, Varesio L and Bosco MC. Induction of Apoptosis by Flavopiridol in Human Neuroblastoma Cells Is Enhanced under Hypoxia and Associated with Inhibition of MYCN Expression. *Clin Cancer Res Cancer* 10 (24): 8704-8719. 2004.
14. Purow BW, Haque RM, Noel MW, Su Q, Burdick MJ, Lee J, Sundaresan T, **Pastorino S**, Park JK, Mikolaenko I, Maric D, Eberhart CG and Fine HA. Expression of Notch-1 and its ligands, Delta-like-1 and Jagged-1, is critical for glioma cell survival and proliferation. *Cancer Res*, 65:2353-2363.2005
15. Sun L, Hui AM, Su Q, Vortmeyer A, Kotliarov Y, **Pastorino S**, Passaniti A, Menon J, Walling J, Bailey R, Rosenblum M, Mikkelsen T, Fine HA. Neuronal and glioma-derived stem cell factor induces angiogenesis within the brain. *Cancer Cell*. 2006 Apr;9(4):287-300.
16. Lee J, Kotliarova S, Kotliarov Y, Li A, Su Q, Donin NM, **Pastorino S**, Purow BW, Christopher N, Zhang W, Park JK, Fine HA. Tumor stem cells derived from glioblastomas cultured in bFGF and EGF more closely mirror the phenotype and genotype of primary tumors than do serum-cultured cell lines. *Cancer Cell*. 2006 May;9(5):391-403.
17. Sun L, Hui AM, Su Q, Vortmeyer A, Kotliarov Y, **Pastorino S**, Passaniti A, Menon J, Walling J, Bailey R, Rosenblum M, Mikkelsen T, Fine HA. Neuronal and glioma-derived stem cell factor induces angiogenesis within the brain. *Cancer Cell*. 2006 Apr;9(4):287-300.
18. Puppo M, Bosco MC, Federico M, **Pastorino S**, Varesio L. Hypoxia inhibits Moloney murine leukemia virus expression in activated macrophages. *J Leukoc Biol*. 2007 Feb;81(2):528-38.
19. Ngo TT, Peng T, Liang XJ, Akeju O, **Pastorino S**, Zhang W, Kotliarov Y, Zenklusen JC, Fine HA, Maric D, Wen PY, De Girolami U, Black PM, Wu WW, Shen RF, Jeffries NO, Kang DW, Park JK. The 1p-encoded protein stathmin and resistance of malignant gliomas to nitrosoureas. *J Natl Cancer Inst*. 2007 Apr 18;99(8):639-52.
20. Bratincsak A, Brownstein MJ, Cassiani-Ingoni R, **Pastorino S**, Szalayova I, Toth ZE, Key S, Nemeth K, Pickel J, Mezey E. CD45-positive Blood Cells Give Rise to Uterine Epithelial Cells in Mice. *Stem Cells*. 2007 Jul 26; [Epub ahead of print].
21. H. Vaidyanathan*, J. Opoku-Ansah*, **S. Pastorino**, H. Renganathan, M.L. Matter, and J. W. Ramos. ERK MAP kinase is targeted to RSK2 by the Phosphoprotein PEA-15. *PNAS*. 104(50): 19837-19842, 2007.

*These authors contributed equally.
