

CURRICULUM VITAE

Last Name: SOLDATI
First Name: Gianni
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Date of birth: March 10, 1958
Birthplace: Lugano
Nationality: Swiss
Marital status: married to Cecilia Guerini, 1962, two children, Adrian born in 1992 and Nora born in 1995
AVS number: 791.58.172.211

Present positions:

- Head of the "Laboratorio di Diagnostica Molecolare" in Breganzona.
- Professor of Molecular Diagnostics at the University of Fribourg, Switzerland
- Director of the Alpine Institute for Life Sciences
- CEO Global Biotechnology Consulting, Lugano
- Consultant at the University Professional School (SUPSI), Tessin
- Member of the Board of Directors of the Bipolo Ticino
- President of the Swiss Italian Association for Biomedical Research

Memberships:

- Founding member of the Swiss Cytometry Society
- Founding member and President of the Associazione della Svizzera Italiana per la Ricerca Biomedica (ASIRB)
- Founding member of the Biopolo Ticino
- Member of the Swiss Society for Medical Genetics
- Member of the Swiss Society for Biochemistry
- Member of the Swiss Society for Clinical Chemistry
- Member of the American Association for Cancer Research
- Member of the Tissue Culture Association
- Member of the Tessiner Society for Natural Sciences
- Member of the Swiss Society for Legal Medicine (SSLM)
- Member of the Group Hemogenetics of the SSLM

Professional background:

High School (1976-1979)

"Scuola Magistrale Cantonale", Lugano, Switzerland. Teaching Diploma.

Undergraduate (1981-1986)

University of Geneva, Geneva, Switzerland. Diploma in Biology. (Laboratory of Dr. A. Kato, CMU Dpt. of Pharmacology, Resp. Prof. Y. Dunant. "Une amélioration de la méthode de l'immunisation in vitro pour la production d'anticorps monoclonaux").

Ph. D. Studies. (1986 - 1991)

- University of Basel, Frauenklinik laboratories, Prof. U. Eppenberger.
- Pharmacological Institute, University of Basel, Prof. H.H. Linde.
- Reproductive Endocrinology Center, "La Carità" Hospital, Locarno, Switzerland, Dr. M. Balerna.

Thesis: Biological activities of a partially purified albumin-bound factor from human peritoneal fluids able to immobilize spermatozoa.

Post-doctoral studies.

1991-1993

- Setup of a new ELISA test for the detection of p53 in tumor tissues

- Development of the Tumorbank, a network database based in Basel for the registration of tumors
- University of Basel, Zentrum für Lehre und Forschung, (Prof. U. Eppenberger, Dr. H. Müller, Dr. W. Küng) and Friedrich Miescher Institut (Dr. Y. Nagamine). Characterization of a new purified substance from breast cancer cell lines. Effects on the expression of the estrogen- and epidermal growth factor-receptor mRNA.

1993

Awarded of the Huggenberger-Bischoff Stiftung zur Krebsforschung (10.000.-).

Institute for Child Health, London (Dr. F. Cotter). Setup of the fluorescent in situ hybridization (FISH) technique for interphase cytogenetics.

1994-1997

In charge of the Fluorescent in situ hybridization (FISH) diagnostics at the Servizio Oncologico Cantonale (Prof. F. Cavalli), "La Carità" Hospital in Locarno.

Professional Experience.

Immunology:

- Cell cultures.
- *In vitro* immunization.
- ELISA.
- Monoclonal antibody production.
- Immunophenotyping by FACS.
- Radial immunodiffusion.

Biochemistry:

- Protein purification with:
 - Low pressure MW-sieving and ion-exchange chromatography.
 - High pressure MW-sieving and ion-exchange chromatography (HPLC).
- Gradient SDS-polyacrylamide gel (PAGE) and isoelectrofocusing (PAGIEF) gel.
- Thin layer chromatography.

Molecular biology:

- Setup of PCR molecular diagnostic tests in medical genetics (restriction analysis) and microbiology.
- Protein truncation test for BRCA1/2 and hNPCC diagnosis.
- Sequence for p53.
- Fluorescent in situ hybridization (FISH) for chromosomal translocations.
- Single strand conformation polymorphism (SSCP).
- Northern Blots.
- FACS analysis and sorting.
- Radioactive- and DIG-detection of nucleic acids.
- Bacterial transformation, plasmid growth and selection.
- RNA and polyA RNA purification.
- Purification of precursor blood cells by flow cytometry.
- Detection of p53 protein by Elisa test
- Detection of intracellular p53 by flow cytometry in precursor blood cells.

Computers:

- Development of a PC-based software (ASAR 4) for management of seminal analyses (1990-1991).
- Development of a PC-based software for management of tumor tissues for the Swiss Tumor Bank Project at the Kantonsspital Basel.

List of publications in International Journals:

1. Erkman L., **Soldati G.**, James R.W. and A.C. Kato. (1987). Partial purification of lymphoblasts after *in vitro* immunization increases the yield in Ig-producing hybridomas. *J. Immunol. Meth.* 98:43-52.
2. Balerna M., **Soldati G.**, Piffaretti-Yanez A. and Campana A. (1989). Immunological factors in female infertility. *Biochemical aspects on the immunopathology of reproduction.* Acta Medica Press 175-193.
3. **Soldati G.**, Piffaretti A.Y., Campana A., Marchini M., Luerti M. and Balerna M. (1989). Effect of peritoneal fluid on sperm motility and velocity distribution using objective measurements. *Fertil. Steril.* 52:113-119.
4. Rosselli M., Marchini M., **Soldati G.**, Campana A and M. Balerna. (1990). Removal of sperm-coat from human spermatozoa by interaction with cervical mucus or a capacitating medium. *Andrologia* 22:543-547.
5. Falcone L., **Soldati G.**, Piffaretti-Yanez A., Marchini M., Balerna M. and U. Eppenberger (1991). Follicular fluid enhances sperm motility and velocity *in vitro*. *Fertil. Steril.* 55(3):619-623.
6. **Soldati G.**, Piffaretti-Yanez A., Balerna M., Eppenberger U. (1991). Purification of a sperm motility inhibiting factor from human peritoneal fluids. *Prog. Reprod. Biol. Med.* 15 (11): 1-5.
7. Revelli A., **Soldati G.**, Stamm J., Massobrio M., Piffaretti-Yanez A. and Balerna M. (1992). Effect of volumetric mixtures of peritoneal and follicular fluid from the same woman on sperm motility and acrosomal reactivity *in vitro*. *Fertil. Steril.* 57(3):654-660.
8. **Soldati G.**, Piffaretti-Yanez A., Balerna M., and Eppenberger U. (1992). Purification of a sperm motility inhibiting factor from human peritoneal fluids. *Prog. Reprod. Biol. Med. Basel, Karger,* 15:86-93.
9. Guidi F., Revelli A., **Soldati G.**, Stamm J., Massobrio M., Piffaretti-Yanez A. and Balerna M. (1993). Influence of peritoneal fluids from spontaneous and stimulated cycles on sperm motility *in vitro*. *Andrologia* 25:71-76.
10. **Soldati G.**, Piffaretti-Yanez A., Balerna M. and U. Eppenberger (1993). Purification of a factor from human peritoneal fluids able to immobilize spermatozoa. *Human Reprod.* 8(3): 428-436.
11. Zucca E, **Soldati G.**, Schlegelberger B., Booth M.J., Weber-Matthiesen K., Cavalli F. and Cotter F.E. (1995). Detection of the t(11;14) translocation in blood and bone marrow by interphase cytogenetics in mantle cell lymphoma. *British J. Hematol.*89:665-668.
12. F. Keller, G. Togni, **G. Soldati**, T. Balmelli, G. Medici, K. Rose and M. Balerna. (1997). Nature's motility blockers: controlling human sperm motility machinery from outside. Chemical characterization of a peritoneal fluid lipid that induces sperm immobilization. *Mol. Hum. Reprod.* 3(3):241-248.
13. G. Filippini, S. Griffin, M. Uhr, H.M. Eppenberger, P. Bonilla, F. Cavalli and **G. Soldati** (1998). A novel flow cytometric method for the quantification of p53 gene expression. *Cytometry* 31: 180-186.
14. T. Balmelli and **G. Soldati** (1997). La genetica molecolare nella diagnosi medica, *Tribuna Medica Ticinese*, 62(12).

15. G. Filippini, T. Balmelli, H. Eppenberger, and **G. Soldati** (1999). Flow cytometric detection of p53 protein after incubation of a pre-B cell line with anti-tumor agents. *Cytometry* 35: 267-273.
16. A. Revelli, **G. Soldati**, C. Costamagna, O. Pellerey, E. Aldieri, M. Massobrio, A. Bosia, and D. Ghigo (1999). Follicular fluid proteins stimulate nitric oxide synthesis in human sperm: a possible role for NO in acrosomal reaction. *J. Cell. Physiol.* 178: 85-92.
17. H. Stricker, G. Soldati, T. Balmelli and G. Mombelli (2001). Homocysteine, vitamins and gene mutations in peripheral arterial disease. *Blood Coagulation and Fibrinolysis.* 12: 469-475.
18. G. Soldati and L. Attanasio (2002). Le basi genetiche della malattia celiaca: co nferme ed ipotesi. *Trib. Med. Tic.* 67: 354-357.
19. G. Soldati, K. Mulders, T. Balmelli and M. Gola (2004). Farmacogenomica: alla ricerca del medicamento perfetto: il caso dell'azatioprina. *Trib. Med. Tic.* 69: 15-18.

List of posters and free communications:

1. **Soldati G.**, Bernasconi V., Campana A. and Balerna M. (1986). Objective measure of motility and number of spermatozoa by means of multiple exposure technique. Poster presented at the International Congress on "Fertility Laboratory Techniques II", Bergamo, Italy. November 6-9, 1986.
2. **Soldati G.**, Piffaretti-Yanez A., Balerna M. and U. Eppenberger. (1990). Purification of a sperm motility inhibiting factor from human peritoneal fluids. Poster presented at the second International meeting of andrology, Tremezzo, Italy. June 1-2, 1990.
3. **Soldati G.**, Togni G., Eppenberger U. and Balerna M (1991). Purification of a peritoneal fluid factor able to immobilize human sperm. Free communication presented at the annual Meeting of the Swiss Fertility and Sterility Society, Lausanne, October 4-5 1991.
4. **Soldati G.**, Medici G., Balerna M. and U. Eppenberger. (1992). Purification of a sperm motility inhibiting factor from human peritoneal fluids. Poster presented at the USGEB meeting in Basel, March 1992.
5. Zucca E., **Soldati G.**, Cavalli F., Schlegelberger B. and Cotter F (1994). Feasibility of interphase fluorescent in situ hybridization (FISH) for the detection of the t(11;14) translocation in centrocytic (mantle-cell) lymphomas. Abstract presented at the First Meeting of the European Hematology Association in Brussels, Belgium. 2-5 June.
6. **Soldati G.**, Zucca E. and Cavalli F. (1995). Detection of minimal residual disease by fluorescent in situ hybridization (FISH) in mantle cell lymphomas. Abstract presented at the 27.th Meeting of the Swiss Societies for Experimental biology. 30-31 March.
7. Bosshard G., **Soldati G.**, Sessa C., D'Incalci M., Ghiemini M. and Cavalli F. (1995). An in vitro model for myelotoxicity based on human umbilical cord blood progenitors cells to test new anti-tumor agents. Abstract presented at the 27.th Meeting of the Swiss Societies for Experimental biology. 30-31 March.
8. G. Filippini, F. Cavalli, H.M. Eppenberger and **G. Soldati** (1996). Flow cytometric detection and quantitation of wild-type and mutant p53 in a pre-B cell line stimulated by etoposide. Abstract presented at the XVIII International Congress for analytical cytology, Rimini, Italy, 13-18 April 1996.

9. G.J.M. Maestroni, M. Togni, G. Filippini and **G. Soldati** (1996). Neurocrine regulation of hematopoiesis. Free communication presented at the 25th annual meeting of the international Society for experimental hematology. August 23-27, New York, USA.
10. G. Filippini, M. Togni, GJM. Maestroni, H.M. Eppenberger, F. Cavalli and **G. Soldati** (1996). p53 activation mediates cell death or differentiation in a pre-B cell line. Poster presented at the 25th annual meeting of the international Society for experimental hematology. August 23-27, New York, USA.
11. G. Filippini, M. Togni, GJM. Maestroni, H.M. Eppenberger, F. Cavalli and **G. Soldati** (1997). Norepinephrine induced apoptosis in a pre-B cell line is not mediated by a known adrenergic receptor. Poster presented at the 29th annual meeting of the USGEB, Geneva, March 20-21, Switzerland.
12. T. Balmelli, G. Filippini, M. Balerna, H. Eppenberger and G. Soldati (1997). Effect of lysophosphatidylcholine on tumor cell growth and p53 expression. Poster presented at the 29th annual meeting of the USGEB, Geneva, March 20-21, Switzerland.
13. A. Bernasconi, T. Balmelli, G. Filippini, E. Zucca, F. Cavalli and G. Soldati (1997). FISH and nested-PCR in mantle cell lymphoma diagnosis: two faces of the same mirror. Poster presented at the Congress of Molecular Medicine, May 3-5, Berlin, Germany.
14. T. Balmelli, G. Filippini, M. Balerna and G. Soldati (1997). FISH and nested-PCR in mantle cell lymphoma diagnosis: two faces of the same mirror. Poster presented at the 12th. HIFCC European Congress of Clinical Chemistry, August 17-22, Basel, Switzerland.