



SOVALAT Hanna Research Scientist

Project leader “Identification of very small embryonic-like stem cells in adult tissues”

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Nationality: French and Polish

ACADEMIC EDUCATION

- 1995 : PhD in Biological Sciences with high honors . WIHiE, Warsaw, Poland
- 1985 : Postgraduate thesis in Molecular and Cellular Biology - University LIMOGES and POITIERS : UER of Sciences, France
- 1974 : MD in Biological Sciences - University LODZ, Poland

POSITIONS AND PROFESSIONAL EXPERIENCES

- 1974 – 1976 Biology Expert of Environmental Protection
Grudziadz, Poland.
- 1976 – 1978 Chief-Assistant in the laboratory for quality control of dairy products
Pabianice, Poland
- 1978 – 1981 Associate Professor in Cytogenetics Institute
University Lodz, Faculty of Medicine, Poland
- 1983 – 1985 Research internship
Laboratoire de Biochimie, Biologie Cellulaire et application (UER des Sciences), University Limoges, France
- 1985 – 1987 : Research on : Identification d'un facteur stimulant provenant du produit biologique
Institut Bio-Limousin, Limoges, France
- 1987 to date : Recherche Scientist
Institut de Recherche en Hématologie et Transfusion, Mulhouse, France

SCIENTIFIC ACTIVITES

Member of Scientific Societies

- Association Française de Cytométrie
- International Society for Analytical Cytology
- European Stem Cell Club
- European Haematology Association

Publications

- 36 publications of fundamental research
- Editeur of a book : Hématopoietic Stem Cells The Mulhouse Manual.
E.Wunder, **H. Sovalat**, Ph. Hénon, S. Serke(Editeurs) : AlphaMed Press 1994

Communication in different Congresses et Symposia

- 33 abstracts
- 30 oral presentations - invited or selected on the abstracts
- 15 posters

Organisation of Congress

- European Workshop : Peripheral Blood Stem Cell Determination and Standardization, February 1992 et May 1993, Mulhouse, France
- Workshop: Flow Cytometry determination of CD34⁺ cells, 20-24 September 1994, Warsaw, Poland
- "3rd European Workshop on Stem Methodology". Standardisation and quality control of the determination CD34⁺ cells by flow cytometry- 16 - 20 October 1995, Mulhouse, France
- Workshop “Technical Aspects of the Flow Cytometry of CD34⁺ Hematopoietic Cells”, 29-30 October 1998, Warsaw, Poland
- 1st, 2nd, 6th International Symposium on Peripheral Blood Stem Cell Transplantation: October 1989, September/October 1991, September 1999, Mulhouse, France -
- International Symposium on Bioengineering and Regenerative Medicine, 24-26 September

2007, Mulhouse, France

Reviewer of scientific manuscripts

Stem Cells

Journal of Hematotherapy

Journal of Hematotherapy and Stem Cell Research

Inflammatory Bowel Diseases

Scientific cooperation

- Medical Centre of Postgraduate Education. Department of Clinical Cytology, Warsaw, Poland, Prof. Kawiak. Invited teacher: courses for doctors and biologists,

- Marie Skłodowska-Curie Memorial Oncology Center, Warsaw, Poland, Prof. Pojda, in the context of « European Concerted Action and Peco Initiative on the Human hematopoietic Stem Cell », Director Suzanne Watt,

- "Commission for Transplantology Experimental Hematology and Cell Engineering, Polish Academy of Science", Dir. Prof. W. Wictor. Scientific consultant in the program to collect cord blood, creation of the Bank Cord Blood in Warsaw, Poland,

- Royal North Shore Hospital, Dept. of Haematology, Sydney, Australia, Dr. A. Chang : Scientific consultant in the program of the standardization of the determination of CD34⁺ cells in Australia,

- « Société Française de Greffe de Moelle », Dr. C. Boccaccio. Scientific consultant for the determination of CD34⁺ hematopoietic cells

- Hoffmann-La Roche : Scientific consultant in the program « CD34⁺ stem cells, quantification », Dr. M. Chanéac,

EFS Besançon, Laboratory of Immunology, Dr. E. Racadot : stem cell phenotype.

University Teaching: UHA Mulhouse

2000, 2004 - 2005

DIU Cell Therapy of adulte and pediatric UHA de Mulhouse et Université d'Auvergne de Clermont Ferrand

CHOSEN PAPERS

1. Identification and isolation from either adult human bone marrow or G-CSF mobilized peripheral blood of CD34⁺/CD133⁺/CXCR4⁺Lin-CD45-cells, featuring morphological, molecular and phenotypic characteristic of very small embryonic-like (VSEL) stem cells.
H. Sovalat, M. Scrofani, A. Eidenschenk, S. Pasquet, V. Rimelen, Ph. Hénon. *Exp Hematol.* 2011;39:495–505..
2. Taxonomical classification of hematopoietic CD34⁺ cell subsets from diverse origin.
R. Matuszewski and **H. Sovalat**. *Studies in Logic, Grammar and Rhetoric (Logical, Statistical and Computer Methods)*. 2010;21 (34):25-33.
3. Long-term benefit of intracellular delivery of autologous granulocyte-colony-stimulating factor-mobilized blood CD34⁺ cells containing cardiac progenitors on regional heart structure and function after myocardial infarct.
S. Pasquet, **H. Sovalat**, Ph. Hénon, N. Bischoff, Y. Arkam, M. Ojeda-Urbibe, R. le Bouar, V. Rimelen, I. Brink, R. Dallemand, J.P. Monassier. *Cytotherapy*. 2009;11:1002-1015
4. Peripheral blood and BM CD34⁺CD38⁻ cells show better resistance to cryopreservation than CD34⁺ CD38⁺ cells in autologous stem cell transplantation.
5. M. Ojeda-Urbibe, **H. Sovalat**, D. Bourderont, A. Brunot, A. Marr, H. Lewandowski, V. Chabouté, P. Peter and Ph. Hénon. *Cytotherapy*. 2004;6:571-583.
6. CD34⁺ cells and CD34⁺CD38⁻ subset from mobilized blood show different patterns of adhesion molecules compared to those from steady-state blood, bone marrow and cord blood.
H. Sovalat, E. Racadot, M. Ojeda, H. Lewandowski, V. Chabouté, Ph. Hénon. *J Hematother Stem Cell Res.* 2003;12:473-489.
7. Role of the CD34⁺38⁻ cells in post-transplant hematopoietic recovery.
Ph. Hénon, **H. Sovalat**, D. Bourderont, M. Ojeda-Urbibe, Y. Arkam, E. Wunder, J.P. Raidot, F. Husseini, B. Audhuy. *Stem Cells*. 1998;16 (1):113-122.
8. Comparative analysis of Class I, II and III epitope-detecting CD34 monoclonal antibodies by quantitative flow cytometry.
H. Sovalat, E. Racadot, Ph. Hénon, P. Fuchs, H. Lewandowski, M. Billot. *Hematol Cell Ther.* 1998;40:259-268.
9. Commentary: Prospects for Standardization of Stem Cell Determination within Europe.
H. Sovalat, E. Wunder, A. Tienhaara, T. Olofsson, G. Fritsch, F. Silvestri and S. Serke. *J Hematother.* 1993;3:293-296.