

## Bruno Péault, PhD

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## EDUCATION

- **1987:** PhD (These d'Etat). Institut d'Embryologie du CNRS (Centre National de la Recherche Scientifique) et du College de France. University of Paris (advisor: Prof. Nicole Le Douarin)
- **1987-1992:** Post-doctoral fellowship. Stanford University Medical Center, Department of Pathology, Stanford, CA (advisor: Prof. Irving Weissman), and Systemix Inc., Palo Alto, CA

## PROFESSIONAL ACTIVITIES, EMPLOYMENT

### ACADEMIC APPOINTMENTS

- **1992-1999:** Research Director, 2nd grade (CNRS, France)
- **1992-1999:** Institut d'Embryologie du CNRS et du College de France. Group leader

- **January 1999-present:** Research Director, 1st grade (CNRS, France)
- **January 1999-Dec. 2005:** INSERM (Institut National de la Sante et de la Recherche Medicale), Head, Department U506, Paul Brousse Hospital, Villejuif, France
- **January 2003-Dec. 2008:** University of Pittsburgh School of Medicine, Pittsburgh, PA, USA. Professor of Cell Biology & Physiology
- **January 2003-Dec. 2008:** University of Pittsburgh School of Medicine, PA. Professor of Paediatrics.
- **January 2006 -December 2008:** Children’s Hospital of Pittsburgh, Stem Cell Research Center, PA. Deputy Director
- **January 2007-December 2008:** University of Pittsburgh School of Medicine, PA. Professor of Orthopaedic Surgery
- **January 2003-December 2008:** University of Pittsburgh Cancer Institute, PA. Faculty
- **January 2003-December 2008:** McGowan Institute for Regenerative Medicine, Pittsburgh, PA. Faculty
- **2008:** Fondazione Ospedale Maggiore Policlinico. Department of Regenerative Medicine. Milan, Italy. Visiting Professor
- **January 2009 - present:** UCLA Orthopaedic Hospital Research Center, CA. Professor of Orthopaedic Surgery
- **March 2010 - May 2024:** University of Edinburgh, UK. Professor and Chair, Vascular Regeneration
- **January 2014 - December 2020:** University of Edinburgh, UK. BHF Regenerative Medicine Laboratory, Center for Regenerative Medicine. Scientific Director

## **NON-ACADEMIC APPOINTMENT**

- **June 1989 - December 1991:** Systemix Inc. Palo Alto, CA. Research Scientist
- **HONORS, AWARDS**
  - **1988:** NATO fellowship
  - **1988:** Prize of the French Academy of Sciences
  - **1997:** Prize “Rayonnement Français dans les Sciences Biologiques et Médicales” (French Radiance in Biologic and Medical Sciences) of the French Academy of Sciences
  - **2018:** Neer Award of the American Shoulder and Elbow Surgeons Society
  - **2023:** Sigma Xi Scientific Research Honor Society

## **MEMBERSHIPS**

- Faculty of 1000 Biology 2005-2007
- American Society of Hematology 2003-present
- International Society for Stem Cell Research 2007-present
- The Leukemia & Lymphoma Society 2003-2006
- European Hematology Association 1990's
- European Society for Human Gene Transfer and Therapy (past President of Stem Cell Committee) 1995-2000
- Société Française d'Hématologie 1990's
- European Concerted Action on Human Haematopoietic Stem Cells 1995-2000
- Embryonic Stem Cell Research Oversight Committee, University of Pittsburgh 2006-2009
- International Tissue Engineering Research Association 2007
- Italian Society for Mesenchymal Stem Cell Research 2010-present
- Current Biotechnology 2010
- Orthopaedic Research Society 2017-present
- North American Vascular Biology Organization 2024 -

## **EDITORIAL SERVICES**

### *Editorial Boards:*

- Stem Cells 2006- present
- Stem Cells and Cloning 2009-2013
- Stem Cells International 2010- present
- Stem Cell Research & Therapy 2011- present
- CellR4 2017- present
- JXYM (Journal of Xiangya Medicine) 2022 - present
- Stem Cells Translational Medicine 2024

### *Associate Editor*

- Frontiers in Tissue Engineering and Biotechnology 2015-present

### *Guest associate Editor*

- Frontiers in Stem Cell Research

### *Section Editor*

- Current Tissue Microenvironment Reports 2019- present

### *Guest Editor*

- Pharmacology & Therapy, Special Issue on Pericytes. 2017
- Frontiers in Cell and Developmental Biology. Research topic “Chondrogenic Potentials, Protocols and Mechanisms of Mesenchymal Progenitor Cells”. 2024
- Frontiers in Biotechnology and Bioengineering. Research topic “Translation of Mesenchymal Stem Cells in vivo: Evidence from preclinical and clinical testing”. 2024

### *Book Editor*

- "Human Hematopoiesis in SCID Mice" (1995). R. Namikawa, M.G. Roncarolo and B. Péault Eds, (R.G. Landes Company)
- “Pericytes” (2021) B. Peault Ed. Methods in Molecular Biology (Springer)

### *Ad hoc Reviewer*

Advanced Science

Aging Cell

American Journal of Sports Medicine

Arteriosclerosis, Thrombosis, and Vascular Biology

Biochemical and Biophysical Research Communications

Biochemistry

Biomaterials

Biomedicines

Biomolecules

Blood

Cell Reports

Cell Stem Cell

Cell Metabolism

Cell Press Multi-Journal Submission

Circulation

Clinical and Translational Medicine

Development

Developmental Cell

Disruptive Science and Technology

Experimental Hematology  
FASEB Journal  
Frontiers in Reproductive Health  
Frontiers in Bioengineering and Biotechnology  
Heliyon  
Immunity  
International Journal of Pharmaceutics  
iScience  
Journal of Cellular and Molecular Medicine  
Journal of Clinical Investigation  
Journal of Experimental Medicine  
Journal of Histochemistry and Cytochemistry  
Journal of the National Cancer Institute  
Life Sciences  
Molecular Biology Reports  
Molecular Therapy  
Nature  
Nature Communications  
Nature Nanotechnology  
Nature Protocols  
Npj Regenerative Medicine  
Plos One  
Respiratory Research  
Science  
Science Translational Medicine  
Scientific Reports  
Stem Cells  
Stem Cells and Development  
Stem Cells International  
The Lancet Regional Health - Europe  
Theranostics

## **COMMITTEES**

### *Boards/Scientific Advisory Boards*

- International Stem Cell Forum (ISCF) 2003
- International Tissue Engineering Research Assoc. (ITERA) 2004
- Scientific Council, AFM/Telethon (Paris, France) 2008 - present
- Cryogenomics Inc. (Thessaloniki, Greece) 2008
- Histogenics Inc. (Boston, USA) 2011

- Karolinska Institute (Stockholm, Sweden)  
Site visit committee member 2011
- Lipogems, Inc. (Milan, Italy/Norcross, GA, USA) 2016 – present
- INSERM Institute: Stem cells for Treatment of Monogenic  
Diseases (I-Stem) (Evry, France). President of the  
Review/Site Visit Committee 2018

*Grant study sections:*

- Association pour la Recherche sur le Cancer  
(ARC, French Cancer Fund) 1990's
- Agence Française de Sécurité Sanitaire des Produits  
de Santé (AFSSAPS, the French FDA) 1990's
- CNRS (French National Center for Scientific Research)  
as Research Director 1992-2003
- INSERM (National Institute of Health and Medical  
Research, France) as head of U506 Dept. 2000-2005
- NIH. Ad hoc study section member (Development) 2007
- NIH. Ad hoc study section member (ZRG1 BDA-A 40 P,  
Adiposity, Aging and Stem Cells) 2008
- NIH. Ad hoc study section member, Special Emphasis  
Panel, Challenge Grants 2009-2010
- • Maryland Stem Cell Fund (TEDCO) 2010
- • European Union. FP7 and FP8 2010-2011
- • NYSTEM (New York Stem Cell Fund) 2010-2013
- • AFM/Telethon. President of the Study Section "Stem Cells" 2012-2020
- • European Research Council (ERC Advanced Grant, 6th Call) 2013
- Agence Nationale pour la Recherche (ANR, French  
National Research Agency, PRTS Programme) 2013-2014
- • ERA-Net on Cardiovascular Diseases (ERA-CVD) 2016-present
- RHU (Recherche Hospitalo-Universitaire: annual call  
of the French Ministry of Science on Innovative Therapies) 2017-present
- • MRC, DPFS (Developmental Pathway Funding Scheme) 2019
- • AFM/Telethon. Member of the Study Section "Stem Cells" 2020-present
- • Lipedema Foundation 2022-

*Ad Hoc Grant Reviewer:*

- Leukemia Research Fund (LRF, UK)
- Italian Telethon
- Austrian Science Fund (FWF: der Wissenschaftsfund)
- Quebec Research Fund
- Irish Blood Transfusion Service (IBTS)
- Swiss National Science Foundation (SNSF)
- Israel Science Foundation (ISF)
- Knut and Alice Wallenberg Foundation, Karolinska Inst.(Sweden)
- Medical Research Council (MRC, UK)
- British Heart Foundation (BHF)
- Heart Research UK
- National Science Center, Poland
- Dutch Research Council (NWO: Nederlandse Organisatie voor Wetenschappelijk Onderzoek )

**CONTRIBUTION TO SCIENCE: RESEARCH HIGHLIGHTS**

**Embryonic emergence of the angio-hematopoietic system (PhD thesis)**

*We took advantage of the accessibility of the avian embryo and availability of the quail/chicken chimera system to describe the ontogeny of the vascular and lympho-hematopoietic systems (yolk sac, thymus, bursa of Fabricius). To this end, we raised a series of monoclonal antibodies to mark multiple angio-hematopoietic cell lineages. We notably identified the MB1 hemangioblast marker, which came as the first molecular support to the existence of a common progenitor for endothelial and hematopoietic cells. This marker, aka QH1, has been later used in multiple studies pertaining to the embryonic development of the blood and vascular systems.*

- Péault B, Thiery J.-P, and Le Douarin NM (1983). Surface marker for hemopoietic and endothelial cell lineages in quail that is defined by a monoclonal antibody. Proc. Natl. Acad. Sci. USA 80:2976-2980
- Guillemot, F.P., Oliver, P.D., Péault, B.M. and Le Douarin, N.M. (1984). Cells expressing I-a antigens in the avian thymus. J. Exp. Med. 160:1803-1819
- Péault, B., Chen, C.H., Cooper, M.D., Barbu, M., Lipinski, M. and Le Douarin, N.M. (1987). Phylogenetically conserved antigen on nerve cells and lymphocytes resembles myelin-associated glycoprotein. Proc. Natl. Acad. Sci. USA 84:814-818

- Labastie MC, Poole TJ, Péault BM, Le Douarin NM. (1987) MB1, a quail leukocyte-endothelium antigen: partial characterization of the cell surface and secreted forms in cultured endothelial cells. Proc. Natl. Acad. Sci. USA. 83:9016-9020

### **Mouse and human hematopoietic stem cells: identification and characterization**

*As a part of our post-doctoral work, we have prospectively identified and purified human hematopoietic stem cells. To this end, we have first developed several models of “humanized” SCID mice, in which human fetal hematopoietic tissues (thymus, liver, bone marrow...) are surgically implanted in immunodeficient mice, then used to assay sorted candidate stem cell populations functionally. Human HSC composition was patented by Systemix Inc. (Palo Alto), where this work was performed. Human HSCs, which we identified as CD34+CD90+Lin- cells, were then transplanted in large cohorts of cancer patients (metastatic breast cancer and lymphoma). Besides, we have explored the lymphoid potential of mouse HSCs.*

- Ikuta, K., Kina, T., MacNeil, I., Uchida, N., Péault, B., Chien, Y. and Weissman, I.L. (1990). A developmental switch in thymic lymphocyte maturation potential occurs at the level of hematopoietic stem cells. Cell 62:863-874
- Péault, B., Weissman, I.L., Baum, C., McCune, J.M. and Tsukamoto, A. (1991). Lymphoid reconstitution of the human fetal thymus in SCID mice with CD34+ precursor cells. J. Exp. Med. 174:1283-1286
- McCune, J.M., Péault, B., Streeter, P.R. and Rabin, L. (1991). Preclinical evaluation of humanhematolymphoid function in the SCID-Hu mouse. Immunol. Rev. 124:45-62
- Baum, C.M., Weissman, I.L., Tsukamoto, A.S., Buckle, A.M. and Péault, B. (1992). Isolation of a candidate human hematopoietic stem cell population. Proc. Natl. Acad. Sci. USA 89:2804-2808
- Péault, B., Khazaal, I. and Weissman, I.L. (1994). In vitro development of B cells and macrophages from early mouse fetal thymocytes. Eur. J. Immunol. 24:781-784
- Uchida, N., Yang, Z., Combs, J., Pourquié, O., Nguyen, M., Fu, J., Welply, A., Chen, S., Weddell, G., Sharma, A.K., Leiby, K.R., Karagogeos, D., Humeau, L., Ramanathan, R., Stallcup, W.B., Hoffman, R., Tsukamoto, A., Gearing, D.P. and Péault, B. (1997). The characterization, molecular cloning and expression of a novel hematopoietic cell antigen (HCA) from CD34+ human bone marrow cells. Blood 89:2706-2716

### **SCID-hu xenochimeric models of human normal, pathologic, and transgenic tissue development**

*We have pioneered several models in which human cells and tissues are made available for in vivo experimentation upon transplantation into immunodeficient mice. We have*



*notably replicated the development of human lung, airway, bone, and skin. Such models have been widely used to mimic both normal and pathologic human development, and used to test the transplantation of gene-modified (stem) cells.*

- Péault, B., Tirouvanziam, R., Sombardier, M.-N., Chen, S., Perricaudet, M. and Gaillard, D.
- (1994). Gene transfer to human fetal pulmonary tissue developed in immunodeficient SCID mice. *Hum. Gene Ther.* 5:1131-1137
- Champseix, C., Maréchal, V., Khazaal, I., Schwartz, O., Fournier, S., Schlegel, N., Dranoff, G., Danos, O., Blot, P., Vilmer, E., Heard, J.-M., Péault, B. and Lehn, P. (1996). A cell surface marker gene transferred with a retroviral vector into CD34+ cord blood cells is expressed by their T- cell progeny in the SCID-hu thymus. *Blood* 88:107-113
- Legrand, F., Khazaal, I., Peuchmaur, M., Fenneteau, O., Cavé, H., Rohrllich, P., Vilmer, E. and Péault, B. (1997). Long-term malignant hematopoiesis in human acute leukemia bone marrow biopsies implanted in SCID mice. *Blood* 90:2001-2009
- Tirouvanziam, R., Khazaal, I., N'Sondé, V., Peyrat, M.-A., Lim, A., de Bentzmann, S., Fournié, J.-J., Bonneville, M. and Péault, B. (2002). Ex vivo development of functional human lymphnode and bronchus-associated lymphoid tissue. *Blood* 99:2483-2489
- Cohen-Haguenauer, O., Péault, B., Bauche, C., Daniel, M. T., Casal, I., Levy, V., Dausset, J., Boiron, M., Auclair, C., Gluckman, E., Marty, M. (2006). In vivo repopulation ability of genetically corrected bone marrow cells from Fanconi anemia patients. *Proc. Natl. Acad. Sci. USA* 103:2340-2345

### **Embryonic and fetal emergence of the human hematopoietic system**

*We have described in depth the early ontogeny of the human hematopoietic system in the yolk sac, liver, AGM (aorta-gonads-mesonephros), and bone marrow. We have demonstrated for the first time that definitive human lympho-myeloid multipotent stem cells emerge within the dorsal aorta from a subset of blood-forming endothelial cells, and not in the yolk sac as previously believed. We have also modelled hematopoiesis incipience using human embryonic stem cells. We have shown, finally, that ACE (angiotensin converting enzyme) is a marker of human hemangioblasts.*

- Tavian, M., Coulombel, L., Luton, D., San-Clemente, H., Dieterlen-Lièvre, F., and Péault, B. (1996). Aorta-associated CD34+ hematopoietic cells in the early human embryo. *Blood* 87: 67-72
- Charbord, P., Tavian, M., Humeau, L. and Péault, B. (1996). Early ontogeny of the human marrow from long bones: an immunohistochemical study of hematopoiesis and its microenvironment. *Blood* 87: 4109-4119

- Tavian, M., Robin, C., Coulombel, L. and Péault, B. (2001). The human embryo, but not its yolk sac, generates lympho-myeloid stem cells: mapping multipotent hematopoietic cell fate in intraembryonic mesoderm. *Immunity* 15:487-495
- Oberlin, E., Tavian, M., Blazsek, I. and Péault, B. (2002). Blood-forming potential of vascular endothelium in the human embryo. *Development* 129:4147-4157
- Zambidis, E., Park, T.S, Yu, W., Tam, A., Levine, M., Yuan, X., Péault, B. (2008). Expression of ACE identifies and regulates primitive hemangioblasts derived from human pluripotent stem cells. *Blood* 112:3601-3614

### **Tissue resident mesenchymal progenitor cells in adult life: roles in musculo-skeletal regeneration and multi-organ fibrosis**

*Elusive multi-lineage stem cells – the prototype of which is the mesenchymal stem cell (MSC) – have been identified for decades in developed organs. These cells were always isolated indirectly in vitro on their adherence to culture plastic, and have therefore remained uncharacterized in terms of native identity, anatomic distribution, frequency and natural role. In the past 10 years, we have shown that these cells are natively associated with blood vessels as pericytes and adventitial cells. We have identified, purified, cultured and characterized these perivascular stem cells (PSCs), and documented their ability to heal (fibrosis) and regenerate multiple tissues including skeletal muscle, myocardium, bone, cartilage, peripheral nerves, and blood vessels. We have showed that PSCs repair tissues via multiple potentials as cell progenitors, angiogenesis stimulators, immunomodulators, fibrogenic cells, but also through support of local specialized stem cells. We have obtained a large grant from the California Institute for Regenerative Medicine to validate PSCs preclinically for bone regeneration in compromised and older patients. In the latest developments of these projects, we have identified perivascular cells committed to either adipo-, osteo-, or fibrogenesis, which suggests the existence of a whole hierarchy of blood vessel associated mesenchymal progenitors. Indeed, most recent data using integrated spatial and single-cell transcriptomics define a perivascular, spatially regulated niche for early mesenchymal progenitors (submitted).*

- Zheng, B., Cao, B., Crisan, M., Sun, B., Li, G.H., Logar, A., Yap, S., Pollett, J.B., Drowley, L., Cassino, T., Gharaibeh, B., Deasy, B., Huard, J., Péault, B. (2007). Prospective identification of myogenic endothelial cells in human skeletal muscle. *Nat. Biotech.* 25:1025-1034
- Crisan, M., Yap, S., Casteilla, L., Chen, W.C., Corselli, M., Park, T.S., Andriolo, G., Sun, B., Zheng, B., Zhang, L., Yap, S., Norotte, C., Teng, P.N., Traas, J., Schugar, R., Deasy, B., Badylak, S., Bühring, H.J., Giacobino, J.P., Lazzari, L., Huard, J., Péault, B. (2008). A

perivascular origin for mesenchymal stem cells in multiple human organs. *Cell Stem Cell* 3:301-313

- Corselli M, Chin C, Parekh C, Sahaghian A, Wang W, Ge S, Evseenko D, Wang X, Montelatici E, Lazzari L, Crooks G, Péault B. (2013) Perivascular support of human hematopoietic stem/progenitor cells. *Blood* 121:2891-2901
- Lavasani M, Thompson S, Pollett J, Usas A, Lu A, Stolz D, Clark K, Sun B, Péault B, Huard J (2014) Human muscle-derived stem/progenitor cells promote functional murine peripheral nerve regeneration. *J. Clin. Invest.* 12:1-13
- Murray IR, Gonzalez ZN, Baily J, Dobie R, Wallace RJ, Mackinnon AC, Smith JR, Greenhalgh SN, Thompson AI, Conroy KP, Griggs DW, Ruminski PG, Gray GA, Singh M, Campbell MA, Kendall TJ, Dai J, Li Y, Iredale JP, Simpson H, Huard J, Péault B\*, Henderson NC\* (\*corresponding authors) (2017)  $\alpha$ v integrins on mesenchymal cells critically regulate skeletal and cardiac muscle fibrosis. *Nat. Comm.* doi: 10.1038/s41467-017-01097-z
- Shaw I, Rider S, Mullins J, Hugues J, Peault B (2018) Pericytes in the renal vasculature: roles in health and disease. *Nat. Rev. Nephrol.* <https://doi.org/10.1038/s41581-018-0032-4>
- Mosich GM, Husman R, Shah P, Sharma A, Ressadeh K, Xi H, Pyle A, Péault B\*, Petrigliano F\*, Dar A\* (\*senior authors). (2019) Non-fibroadipogenic pericytes from human embryonic stem cells attenuate degeneration of the chronically injured mouse rotator cuff. *JCI Insight* doi: 10.1172/jci.insight.125334
- Xu J, Wang Y, Hsu CY, Negri S, Gao Y, Tian Y, Tower R, Sono T, Meyers CA, Hardy WA, Chang L, Hu S, Kahn N, Gimble F, Broderick K, Peault B\*, James, AW\* (\*corresponding authors) (2020) Lysosomal protein surface expression discriminates fat- from bone-forming human mesenchymal precursor cells. *eLife* 9:e58990 DOI: 10.7554/eLife.58990
- Ding L, Vezzani B, Khan N, Su J, Xu L, Yan G, Liu Y, Li R, Gaur A, Diao Z, Hu Y, Yang Z, Hardy WR, James AW, Sun H, Péault B. (2020) CD10 expression identifies a subset of human perivascular adventitial progenitors with high proliferation and calcification potentials. *Stem Cells* 38:261-275
- Shaw I, O'Sullivan ED, Pisco AO, Borthwick G, Gallagher KM, Péault B\*†, Hughes J\*, Ferenbach DA\*† (\*senior authors) († corresponding authors). (2021) Ageing modulates the effects of ischaemic injury upon mesenchymal cells within the renal interstitium and microvasculature. *Stem Cells Transl. Med.* <https://doi.org/10.1002/sctm.20-0392>
- Wang Y, Thottappillil N, Gomez-Salazar M, Tower R, Qin Q, Cherief M, Cheng R, Broderick K, Peault B, James, A. (2024) Integrated transcriptomics of human blood

vessels defines a spatially regulated niche for early mesenchymal progenitors. *Dev. Cell* <https://doi.org/10.1016/j.devcel.2024.06.015>

## RECENT GRANTS AND FUNDING

- **MRC** (Medical Research Council) (PI, 40%) 2010-2013. £ 500,090. “Perivascular stem cells for tissue regeneration”. *Characterization of pericytes and adventitial stromal cells as presumptive mesenchymal stem cells in human organs*.
- **CSO** (Chief Scientist Office) (co-I, 5%). 2011-2013. £ 213,470. “Vascular Injury and Repair in Premature Coronary Artery Disease: Understanding the Role of Endothelial Progenitor Cells”. *Assessing the role of human circulating endothelial progenitor cells in mouse arterial injury repair*.
- **California Institute for Regenerative Medicine** (CIRM) (PI, 30%) 2011-2014. \$5,391,560. “Harnessing native fat-residing stem cells for bone regeneration”. Phenotypic and functional characterization and preclinical validation of pericytes purified from human adipose tissue for bone repair.
- **British Heart Foundation** (BHF). Cardiovascular Regenerative Medicine Centre Award.(co-I, 10%). 2013-2017. £ 2,500,000. “Exploring the use of perivascular stem cells (pericytes and adventitial stromal cells) for the regeneration of the ischemic myocardium and distal limb”. Identification and purification of human perivascular stem cells; use of these cells for tissue repair in human/mouse xenochimeric chimeras.
- **California Institute of Regenerative Medicine** (CIRM) (co-I, 5%) 2014-2017. \$1,100,000. “Perivascular support of human chondrogenic progenitors”. Direct and indirect role of joint tissue pericytes in reparative chondrogenesis.
- **Horserace Betting Levy Board**.(co-I, 5%) 2014-2017. £ 250,000. “Characterization of equine perivascular stem cells”. Identification, purification, characterization and culture of perivascular stem cells from horse adipose tissue for musculo-skeletal regeneration.
- **BIRAX** (Britain Israel Research and Academic Exchange Partnership) Regenerative Medicine Initiative (PI, 30%) 2015-2018. £397,000. “Pericytes from human pluripotent stem cells for cardiac regeneration”. Phenotypic and functional characterization of human tissue- and human pluripotent stem cell derived pericytes.
- **BHF** Strategic Grant (PI, 10%) 2014-2016. £145,000. “Cardiac progenitor cells, pericytes and the stem cell niche: a novel therapeutic approach to cardiovascular regeneration”. Therapy of cardiac injury in mice using cardiac and non-cardiac pericytes.

- **Lipogems Inc.** (PI, 20%) 2014-2015. € 50.000. “Tissue regenerative cells in fat-derived Lipogems”. Perivascular stem cell content and secretory activity of Lipogems, a therapeutic product obtained by mechanical disruption of human subcutaneous fat.
- **Lipogems Inc.** (PI, 20%) 2016-2017. € 120.000. “Tissue regenerative cells in fat-derived Lipogems”. Perivascular stem cell content and secretory activity of Lipogems, obtained by mechanical disruption of human subcutaneous fat.
- **CTSI** (Clinical and Translational Science Institute, UCLA). (co-I) 2016-2018. No direct costs. “Novel strategies for cardiac fibrosis”
- **OREF** (Orthopaedic Research and Education Foundation) (co-PI, 15%) 2016-2019. \$75.000/year. “Combinatorial Regenerative Therapy for Muscle Injury in Rotator Cuff Tears”. Perivascular stem cell therapy of rotator cuff chronic injuries in mice.
- **NIH 1R01 AR70773-01A1** (co-PI at UCLA, 12%) 2017-2021. \$1,437,442. “Direct and indirect contributions of perivascular stem cells to bone healing”. Determination of the direct and indirect roles of human perivascular cells in appendicular bone healing.
- **CSO** (Chief Scientific Office) (PI, 10%); 2019-2022. £33,105. “Autologous Osteogenic Stem Cells to Prevent and Heal Non-union Fractures”. Therapy of delayed-/non-union fractures in rats using native and cultured perivascular stem cells.

### Active

- **The Lipidema Foundation** (PI, 15%); 2022-2025. “Mesenchymal progenitor cells in lipedema: distribution, frequency, and potentials”. Assessing the role of dysfunctional mesenchymal progenitor cells in the etiology of lipedema.
- **European Research and Project Office GMBH (European Commission, Horizon Programme)** (co-PI, multi-center grant. UCLA only non-European participant); 2022-2027. “A game changer: a cost effective combined advanced therapy for the treatment of knee osteoarthritis”. *Use of siRNAs to modulate inflammation and stimulate chondrogenesis via resident perivascular progenitor cells in knee osteoarthritis.*
- **NIH 1R21AR078919-01A1** (co-PI, 20%). 2023-2025. “Defining the human adventitial stem cell niche”. Documenting a hierarchy of mesenchymal progenitor cells in blood vessel walls.

### Pending

- BHF (PI) “Perivascular Mesenchymal Progenitor Cells: Distribution, Diversity and Potentials; Transition to Mesenchymal Stem Cells in Culture”. Programme grant.
- NIH U54 (co-I). “Mapping dynamic changes in systemic senescence indices with chronological age”.

- NIH RO1 (co-I). “Molecular dysregulation of progenitor cell activity by gp130-SRCsignaling as a mechanism of post-surgical arthrofibrosis and joint stiffness”. Resubmitted after revision
- Regenerative Musculoskeletal Medicine Program (Renewal NIAMS T32) (co-I)
- NIH 2R01AR070773-06 (co-I) “Human perivascular progenitor cell diversity and use in tissue engineering” Resubmitted after revision

## **FELLOWS TRAINED**

### *Undergraduate Student Supervision and Co-mentoring*

- HUMEAU Laurent 1993
- TIROUVANZIAM Rabindra 1994
- LEGRAND Faezeh 1995
- DELPLANQUE Aurélie 1996
- REGNAT-DRUNAT Séverine 1997
- N’SONDÉ Victoire 1998
- MIALARET Kala 1999
- HUSSEINI Khaled 2001
- SALIGNAC Sylvain 2002
- CRISAN Mihaela 2003
- CASTRILLO Katia 2004
- AJIDE Oluwakemi 2004
- NOROTTE Cyrille 2005
- HAMARD Marie 2005
- BEHMANESH Eiman 2009
- TRAN Benjamin 2011 - 2013
- GALLOGLY Susan 2011
- RICHARDSON Rachel 2011
- GRUSZKA Karolina 2012
- MRAVIC Marco 2013 - 2014
- RYAN Rogero 2013 - 2014
- YEN Yu-Hsin 2013 - 2014
- PEREZ Lara 2014
- GOUR Anushri 2012 - 2019
- SHAW Isaac 2014 - 2015

- YU Oliver 2014 - 2015
- CASAMITJANA Joan 2015
- VASSILEVA Kristina 2015
- PAIN Emilie 2016
- KAPPELLA Natasha 2016
- MARTIN Niall 2018
- HOELLER Fabian 2018
- YOGENDRAN Nirojan 2019

*PhD Student Supervision*

- TIROUVANZIAM Rabindra 1993 -1998
- BOULÉ Jean-Baptiste 1994
- CHAMPSEIX Catherine 1994 - 1998
- TAVIAN Manuela 1994 - 2002
- CORTÉS Fernando 1995 - 1998
- BROUARD Nathalie 1995 - 1998
- DELPLANQUE Aurélie 1996 - 2000
- CRISAN Mihaela 2003 - 2008
- YAP Solomon 2003 - 2007
- PARK Tea Soon 2003 - 2008
- ZHENG Bo 2003 - 2008 (co-mentored by J. Huard)
- TENG Pang-Nin 2004 - 2007
- SHEAN Aujla 2004 - 2006
- ZIMMERLIN Ludovic 2004 - 2008
- CHEN William 2006 - 2012
- CORSELLI Mirko 2007 - 2009
- BLACK Cameron 2010 - 2011
- WEST Christopher 2010 - 2015
- MURRAY Iain 2011 - 2014
- STEFANSKA Anna 2011 - 2014
- BAILY James 2011 - 2015
- ARKOULIS Nikolaos 2011 - 2014
- HINDLE Paul 2012 - 2015
- TAWONSAWATRUK Tae 2011 - 2015
- NASHIRA GONZALEZ GALOFRE Zaniah 2011 - 2016

- LERMAN Daniel 2013 - 2018
- HU Shuaishuai -2014 - 2015
- SHAW Isaac 2015 - 2019
- YONG Li 2016 - 2018 (co-mentored by Christopher West)
- WU Genbin 2017 - 2019
- GOMEZ SALAZAR Mario 2016 - 2020
- CASAMITJANA Joan 2015 - 2020
- KURDI JALAL Murtadhah Mohamed 2017 - 2021 (co-mentored by Prof. Hamish Simpson)
- ROBIATI Louise 2017 - present (co-mentored by Prof. Hamish Simpson)
- BESI Eleni 2016 - 2021
- GIACOVAZZI Stefania 2025 –

*Other PhD Thesis Co-Supervision/Committee Participation*

- CHALLIER Cécile, 2000
- ALBANESE Patricia, 2001
- CHAGRAOUI Jalila, 2002
- PAYNE Thomas, 2005
- BERTRAND Julien, 2005
- YE Mao, 2007
- CORSI Karin, 2006
- URISH Kenneth, 2006
- SHEN Wei, 2006
- ZHU Jenny, 2008
- LAVASANI Mitra, 2008
- BILOTKACH Kateryna, 2018
- WANG Yu, 2018
- SA DA BANDEIRA Diana, 2016 - 2020
- ALDEA Teodora, 2017 - 2021
- THOTTAPPILLIL Neelima, 2017 - 2019
- GOSS Georgina 2021 - 2022
- ALHUSSINI Abdulaziz 2022 -
- KISHTA Franceska 2022 –
- IRAWAN Tabitha 2024 –



### *Post-Doc Supervision*

- CASAL Ibrahim 1992 - 2000
- DANDO Jonathan 2000 - 2002
- TAVIAN Manuela 2001 - 2002
- OBERLIN Estelle 2001 - 2004
- KUVBATSCHIEVA Anelia 2002 - 2004
- SUN Bin 2004 - 2008
- GAVINA Manuela 2005 - 2007
- ZHENG Bo (co-mentored by Johnny Huard) 2004 - 2007
- MASOUMI Ava 2009 - 2012
- CORSELLI Mirko 2009 - 2013
- LOBO Sonja 2012 - 2013
- AZZONI Emmanuele 2012 - 2013
- WANG Weibing 2012 - 2013
- LIANG Pei 2012 - 2013
- HARDY Reef 2012 - 2015
- MINSKAIA Katerina 2013 - 2015
- LAGISHETTY Venu 2013 - 2015
- DING Lijun 2013 - 2018
- KAHN Nusrat 2010 - 2018
- MURRAY Iain 2014 - 2016
- DAR Ayelet 2015 - 2017
- VEZZANI Bianca 2017 - 2019
- FRACARO Letitia 2017 - 2019
- KURDI JALAL Murtadhah Mohamed 2020 –
- GUO Peter 2024 –
- DENEKA Alexander 2024 –

*Co-training (with Drs Ayelet Dar and Frank Petrigliano) of UCLA medical students/residents in Orthopaedic Surgery:*

#### Residents:

- Gina Mosich MD (UCLA, Class of 2020)
- Andrew Jensen MD (UCLA, Class of 2019)

### Medical Students:

- Benjamin Kelley (UCLA, Class of 2017)
- Brandon Vu (UCLA, Class of 2019)
- Allison Ariniello (UCLA, Class of 2019)
- Regina Husman (UCLA, Class of 2020)
- Abhinav Sharma (UCLA, Class of 2020)

### Undergraduate Students:

- Paras Shah (UCLA, Class of 2017)
- Kevin Rezzazadeh (NYU Langone SOM, Class of 2020)

### Other Scientist Supervision

- SOMBARDIER Marie-Noëlle (Research Associate) 1992 - 1994
- DINIZ PEREIRA Carmen (Visiting Scientist from the University of Porto) 1996
- PRINCIPE DOS SANTOS Sofia Doria (Visiting Scientist from the University of Porto) 1996
- SINHA Neeraj (Visiting Professor from the University of Lücknow, India) 1995
- PIAGGIO Giovanna (sabbatical) 2001 - 2002
- MONTEMURRO Tiziana (visiting scientist) 2002
- RICCIO Anna-Maria (sabbatical) 2002 - 2003
- HAOUAS Houda (visiting scientist) 2002 - 2003
- GIACOBINO Jean-Paul (sabbatical) 2004 - 2006
- CASTEILLA Louis (sabbatical) 2005 - 2006
- PIECHACZYK Laure (internship) 2013 - 2014
- ALTOMARE Roberta (internship) 2013
- ROMERO Cynthia (internship) 2013 - 2014
- GALARIS Georges (Erasmus internship) 2014
- CARVALHO Daniel (Erasmus Internship) 2015
- VASSILEVA Kristina (Internship) 2015
- LESME Hanna (Internship) 2015
- GUILLAUMIN Salome (Internship) 2015
- GROSS Karen (Erasmus internship) 2016
- SOMUNCU Ozge (summer internship) 2016
- ALSHIBLI Amany (Internship) 2017
- VOZNIUK Dmitrii (Internship) 2017
- ALEXANDRE Manon (Internship) 2019
- STEFANCOVA Dorota (Internship) 2019

- MEDICI Daniele (Erasmus internship) 2019
- GILL Steve (Internship) 2024 –

**Note:** None of my academic positions have ever involved regular, formal, imposed teaching, but I have frequently taught special classes and courses for undergraduate and graduate students in France, the US, and the UK, such as the 4th year elective course "Regenerative Medicine" at the University of Edinburgh. I have also given lectures to recipients of the prestigious American- British Canadian (ABC) Travelling Fellowship, as organized in Edinburgh by Prof. Hamish Simpson and the British Orthopaedic Association. <https://www.aoassn.org/american-british-canadian-traveling-fellowships/>

## **PUBLICATIONS**

### ***Peer Reviewed Research Articles***

1. Pink, J.R.L., Fedecká-Bruner, B., Coltey, M., Péault, B.M. and Le Douarin, N.M. (1981). Biochemical characterization of avian T lymphocyte-specific antigens. *Eur. J. Immunol.* 11, 517-520
2. Péault B, Pink R, Coltey M, Bruner B, Le Douarin NM. Surface markers of avian T lymphocytes as defined by a monoclonal antibody and antisera. *Prog Clin Biol Res.* 1982;85 Pt A:435-442
3. Péault, B., Coltey, M. and Le Douarin, N.M. (1982). Tissue distribution and ontogenetic emergence of differentiation antigens on avian T cells. *Eur. J. Immunol.* 12, 1047-1050
4. Péault, B., Thiery, J.-P., and Le Douarin, N.M. (1983). Surface marker for hemopoietic and endothelial cell lineages in quail that is defined by a monoclonal antibody. *Proc. Natl. Acad. Sci. USA* 80, 2976-2980
5. Guillemot, F.P., Oliver, P.D., Péault, B.M. and Le Douarin, N.M. (1984). Cells expressing Ia antigens in the avian thymus. *J. Exp. Med.* 160, 1803-1819
6. Sariola, H., Péault, B., Le Douarin, N., Buck, C., Dieterlen-Lièvre, F. and Saxen, L. (1984). Extracellular matrix and capillary ingrowth in interspecies chimeric kidneys. *Cell Diff.* 15, 43-51
7. Labastie, M.C., Poole, T.J., Péault, B.M. and Le Douarin, N.M. (1986). MB1, a quail leukocyte-endothelium antigen: partial characterization of the cell surface and secreted forms in cultured endothelial cells. *Proc. Natl. Acad. Sci. USA.* 83, 9016-9020
8. Péault, B., Chen, C.H., Cooper, M.D., Barbu, M., Lipinski, M. and Le Douarin, N.M. (1987). Phylogenetically conserved antigen on nerve cells and lymphocytes resembles myelin-associated glycoprotein. *Proc. Natl. Acad. Sci. USA,* 84, 814-818.

9. Péault, B. (1987). MB1, a quail leukocyte-vascular endothelium antigen: characterization of the lymphocyte-surface form and identification of its secreted counterpart as  $\alpha$ 2-macroglobulin. *Cell. Diff.* 21, 175-187
10. Péault, B., Coltey, M. and Le Douarin, N.M. (1988). Ontogenic emergence of a quail leukocyte/endothelium cell surface antigen. *Cell. Diff.* 23, 165-174
11. Bogers, A.J.J.C., Gittenberg-De Groot, A.C., Poelman, R.E., Peault, B.M. and Huysmans, H.A. (1989). Development of the coronary arteries, a matter of ingrowth or outgrowth? *Anat. Embryol.* 180, 437-441
12. Ikuta, K., Kina, T., MacNeil, I., Uchida, N., Péault, B., Chien, Y. and Weissman, I.L. (1990). A developmental switch in thymic lymphocyte maturation potential occurs at the level of hematopoietic stem cells. *Cell* 62, 863-874
13. McCune, J.M., Kaneshima, H., Krowka, J., Namikawa, R., Outzen, H., Péault, B., Rabin, L., Shih, C.C., Yee, E., Lieberman, M., Weissman, I. and Schultz, L. (1991). The SCID-Hu mouse: a small animal model for HIV infection and pathogenesis. *Annual Rev. in Immunol.* 9, 399-430
14. Péault, B., Weissman, I.L., Baum, C., McCune, J.M. and Tsukamoto, A. (1991). Lymphoid reconstitution of the human fetal thymus in SCID mice with CD34+ precursor cells. *J. Exp. Med.* 174, 1283-1286
15. McCune, J.M., Péault, B., Streeter, P.R. and Rabin, L. (1991). Preclinical evaluation of human hematomphoid function in the SCID-Hu mouse. *Immunol. Rev.* 124, 45-62
16. Ikuta, K., Kina, T., McNeil, I., Uchida, N., Péault, B. Chien, Y. and Weissman, I.L. (1992). Development of T cell subsets from fetal hematopoietic stem cells. *Ann. N.Y. Acad. Sci.* 651, 21-32
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18. Péault B, Weissman IL, Buckle AM, Tsukamoto A, Baum C. (1993) Thy-1-expressing CD34+ human cells express multiple hematopoietic potentialities in vitro and in SCID-hu mice. *Nouv Rev Fr Hematol.* 35, 91-93
19. Péault B, Weissman I, Baum C. Analysis of candidate human blood stem cells in "humanized" immune-deficiency SCID mice. (1993) *Leukemia. Suppl* 2:S98-101
20. Péault B. Analysis of human blood cell development in the SCID-hu mouse, an in vivo replica of the human fetal hematopoietic system. (1993) *C R Acad Sci III.* 316, 902-908
21. Tsukamoto, A., Baum, C., Péault, B., Weissman, I., Chen, S., Chen, B. and Buckle, A.M. (1993). Characterization and enrichment of candidate human hematopoietic stem cells. *J. Hematol. Ther.* 2, 117-119
22. Péault, B., Khazaal, I. and Weissman, I.L. (1994). In vitro development of B cells and macrophages from early mouse fetal thymocytes. *Eur. J. Immunol.* 24, 781- 784

23. Péault, B. (1994). Human T cell lineage development in fetal thymus-engrafted SCID mice. *Res. Immunol.* 145, 124-128
24. Péault, B., Tirouvanziam, R., Sombardier, M.-N., Chen, S., Perricaudet, M. and Gaillard, D. (1994). Gene transfer to human fetal pulmonary tissue developed in immunodeficient SCID mice. *Hum. Gene Ther.* 5, 1131-1137
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26. Tirouvanziam, R. and Péault, B. (1995). Gene transfer to human respiratory airways developed in SCID mice. *Biologicals* 23, 17-19
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30. Charbord, P., Tavian, M., Humeau, L. and Péault, B. (1996). Early ontogeny of the human marrow from long bones: an immunohistochemical study of hematopoiesis and its microenvironment. *Blood* 87, 4109-4119 1831.
31. Péault B. (1996) Hematopoietic stem cell emergence in embryonic life: developmental hematology revisited. *J Hematother.* 5(4), 369-378
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### Under review

1. Dar A, Jensen AR, Ariniello A, Kelley BV, Hicks MR, Jan M, Vu B, Murray IR, Pyle A, Petrigliano FA\*, Péault B\*. (\*senior authors) Distinct subsets of PDGFR+ stromal precursors promote sequential myogenic and degenerative remodeling after rotator cuff injury. In revision
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3. Jovic TH, Davidson D, Péault B, West CC. Regenerative approaches in the management of Kienbock disease: a systematic review of clinical and preclinical studies. Submitted
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15. Péault, B. (2005). Stem cells in human blood vessel walls involved in haematopoiesis and muscle regeneration. Deciphering the Vascular Tree. Ipsen Foundation Publications, 1, p 8,9
16. Péault, B. (2007). Stem cells: Current and potential biomedical use. From cells to organs: integration and differentiation. APBG publication (in French)

## **PRESENTATIONS**

### **INVITED COMMUNICATIONS AT CONFERENCES (1993-PRESENT)**

#### **1993**

- European Concerted Action "Human Bone Marrow Stem Cells". ENS Paris, France. March 30-31.
- Symposium "Developmental Mechanisms". Academy of Sciences. Paris, France. July 7-9.
- International Symposium "Lympho-hemopoiesis". University of Ulm, Germany. September 4-7.
- Philippe Laudat Conference "Hemopoiesis and early T-cell differentiation". Strasbourg, France. September 5-9.
- EC Workshop "Human Somatic Gene Therapy". NIBSC London, England. September 22-24.
- Congress of the European School of Haematology. "Hemopoietic Stem Cells". Villejuif, France. October 25-27.
- First Meeting of the European Working Group on Human Gene Transfer and Therapy. Baveno-Stresa, Italy. November 19-22.

#### **1994**

- Annual meeting "Concerted Action on Gene Therapy". Agence Nationale pour la Recherche sur le Sida (ANRS) Paris, France. May 24.
- 19th European Cystic Fibrosis Conference. Paris, France. May 29-June 3.
- First meeting of the European Haematology Association. Brussels, Belgium. June 3-5.
- Joint meeting AMGEN Laboratories /French hematologists. Thousands Oaks, CA, USA. June 13-14.
- ANRS Conference « Physiopathology of HIV Infection». Château de Montvillargenne, France. October 10-11.
- 2nd Meeting of the European Working Group on Human Gene Transfer and Therapy.

London, England. November 18-21.

- Annual Meeting of the American Society of Hematology. Nashville, TN, USA. December 2-6.
- Cell Therapy Workshop « Expansion of Hematopoietic Progenitors ». Bordeaux, France. December 15.

## **1995**

- Annual Meeting of the French Society of Hematology. Paris, France. February 3-4.
- International Conference "Human Hemopoietic Stem Cells". Vienna, Austria. March 31-April 2.
- Joint International Workshop "Fetal and Neonatal Hematopoiesis & Mechanisms of Bone Marrow Failure". Paris, France. April 3-6.
- Conference of the Biological Society. « Emergence and caractérisation of hematopoietic stem cells during développement: fondamental and clinical aspects ». Paris, France. June 14.
- International Conference "Neurolin, DM-GRASP, BEN". Constanz, Germany. August 2-8.
- European Concerted Action. "Human Haematopoietic Stem Cells". Düsseldorf, Germany. August 27.
- 24th Annual Meeting of the International Society for Experimental Haematology. (ISEH'95). Düsseldorf, Germany. August 27-31.
- Franco-chinese Conference "Cell Differentiation into Blood, Blood Vessels and Liver". Shanghai, China. September 9-11.
- 11th Meeting of the European Working Group on Human Gene Transfer and Therapy. Barcelona, Spain. November 17-20.

## **1996**

- European School of Hematology. "Stem cells and gene transfer into stem cells". Palermo, Italy. April 27-30.
- Workshop "Stem cell therapy of inherited haematopoietic disorders: state of the art and future perspectives". ESSCA-ISS Rome, Italy. May 14.
- Second meeting of the European Haematology Association. Paris, France. May 29-June 1.
- European Community Meeting. "Somatic Gene Therapy". Aarhus, Denmark. June 2-4.
- Symposium "Differentiation of human hematopoietic stem cells (hu-HSC) to T cells". Giessen, Germany. September 28.
- 40• Seminar of the National Institute for Blood Transfusion "Gene Therapy" Paris, France. October 24.
- Symposium "Stem cells to T cells: implications for gene transfer". Ghent, Belgium. October 25.

## **1997**

- Annual Congress of the French Society of Hematology. Paris, France. February 6-7.
- Conference "Targets and antiviral therapeutic approaches for the future" ANRS, Dourdan, France. March 6-7.
- Euroconference "Stem Cells for Gene Therapy: Vectors". Sitges, Spain. April 27-30.
- EC-Biotechnology Sectorial Meeting on Somatic Gene Therapy. Camogli, Italy. May 15-17.
- Workshop « Endothelial Cells and Hematopoiesis » AMGEN Laboratories. Bordeaux, France. May 31.
- 13th European Immunology Meeting. Amsterdam, the Netherlands. June 22-25. Chairman of the session "Hemopoiesis".
- 26th Annual Meeting of the International Society for Experimental Hematology. Cannes, France. August 24-28. Chairman of the session "Stem Cell Biology".
- 4th European Workshop "Stem Cell Methodology". Vienna, Austria. August 31-September 4.
- Workshop "Advances in Gene Therapy". Unidad Asociada CIEMAT-CNB (CSIC). Madrid, Spain. October 24.

## **1998**

- Conference "Embryonic and Trophoblastic Cells: Adh sion et Migration". French Society of Gyneco-Pathology, Paris, France. January 30.
- Conference "Animal Models of Cystic Fibrosis". AFLM Paris, France. May 13.
- European Community Conference "Somatic Gene Therapy". Camogli, Italy. May 15-17.
- 3rd Eurocord Workshop "Transplant Concerted Action". Annecy, France. May 18-20.
- International Immunology and Hematology Conference. Rocky Mountains Laboratories. Hamilton, Montana, USA. September 8-11.
- Workshop « Cell Therapy ». La Sorbonne. Paris, France, October 7.
- 10th Conference « Club de la Transplantation ».. Abbaye des Vaux de Cernay, France, October 8-9.
- Annual Meeting of the German and Austrian Societies for Hematology and Oncology (DGHO). Frankfurt, Germany. October 25-28

## **1999**

- ESH Conference on Hematopoiesis "Ontogeny of Hematopoietic Development". Sesimbra (Portugal). February 12-14.
- Annual meeting of the « Club H matopoi se et Oncog n se » of the Soci t  Fran aise d'H matologie. Paris, France. March 14-16.
- 25th annual meeting of the EBMT (European Bone Marrow Transplantation Society),

Hamburg, Germany. March 21-24.

- ERS (European Respiratory Society) Symposium. Reims, France. April 8.
- Annual Conference of the IVS (Institut des Vaisseaux et du Sang). Paris, France. June 2-3.
- Fourth Congress of the European Hematology Association. Barcelona, Spain. June 9-12.
- IBC's 4th International Conference on Hematopoietic Stem Cells. Harvey's Resort, Lake Tahoe, NV, USA. June 28-29.
- 28th Annual Meeting of the International Society for Experimental Hematology (ISEH'99). Monte Carlo, Principality of Monaco. July 10-14.
- Symposium in Honor of I. Weissman, Stanford University School of Medicine. Stanford, CA, USA. October 21-22.
- International Colloquium "Developmental Biology of Vertebrates". Nice, France. November 9-14.
- Telethon Convention 1999. Rimini, Italy. November 14-16.

## **2000**

- Conference "The induction, expansion and genetic programming of hematopoietic stem cells in the developing mammalian embryo". Human Frontier Science Programm (HFSP) Rotterdam, Netherlands. March 25-26.
- Conference "Différentiation and Development of Epithelia" Institut Paris-Sud sur les Cytokines. Clamart, France. March 28.
- International Conference "Hematopoietic Stem Cell Biology and Transplantation". ESH-Eurocord-ATGC. Paris, France. April 26-29.
- International Symposium "Developmental Biology", Collège de France. Paris, France. May 25-26.
- Conference "Stem Cell-Based Therapies", INSERM. Paris, France. June 13.
- Symposium "Life Sciences, Ethics and Society". Bordeaux, France. June 22-23.
- XXe Congress of the French Society for Blood Transfusion. La Villette, Cité des Sciences. Paris, France. June 27-29.
- International Conference of the British Cancer Research Society 2000, University of Sussex. Brighton, UK, July 9-12.
- Conference "Stem Cell-Based Therapies". INSERM Paris, France. October 5.
- 12ème meeting of the INSERM-Jeunes Network. Angers, France. October 30-31.
- Annual meeting of the French Immunology Society. Paris, France. November 29-December 1.

## **2001**

- 1st Hématology Forum, University Paris XI. Paris, France. January 12.

- Human Frontier Science Program (HFSP) “Progress and Perspectives”. Villejuif, France. May 5-6.
- National Symposium “Stem Cells”. Genopole, Evry, France. May 9.
- International Symposium “Immunodeficient Mouse Models”, Royal Academy of Medicine. Brussels, Belgium. May 11.
- Conference “Immunobiology Working Party”. EBMT / Eurocord. Saint-Paul-de-Vence, France. May 22-24.
- 42• International Symposium “New Frontiers on Human Stem Cells”. Rome, Italy. June 4-5.
- « Cell Therapies: Scientific, Ethical and Legal Issues », Etablissement Français du Sang (EFS). Belle-Ile-en-Mer, France. June 8-9.
- Pharmaceutic Actualities (ACOPHRA). Grenoble, France. June 14.
- Annual Research Conference of the André Lwoff Institute (IFR). Villejuif, France. June 14- 15.
- 6th International Meeting of the European Hematology Association (EHA). Frankfurt, Germany. June 21-24.
- Conference « Journée Francophone de Thérapie Cellulaire » (launching of the French Society of Cell Therapy) Hôpital de la Pitié-Salpêtrière. Paris, France. June 26.
- 4th International Congress of the International Council for Global Health Progress (CIPGS). Paris, France. June 25-27.
- EuroConference “Chronic Pulmonary Diseases”, Pasteur Institute. Paris, France. June 27- 29.
- International Conference “Stem Cell Research”. Hannover, Germany. September 1.
- Annual Meeting of the British Blood Transfusion Society (BBTS), University of Leeds. Leeds, UK. September 6-9.
- Conference “Stem Cell-Mediated Therapies”, Hôpital Tenon. Paris, France. October 6.
- AMGEN Workshop “Cell and Gene Therapy”. Montpellier, France. October 26.
- International Symposium “Pathologies and Repair of the Respiratory Epithelium”. Reims, France. November 15.
- Pan-Hellenic Hematology Conference. Athens, Greece. November 21-24.
- International Conference “Molecular Hematology in Clinical Practice”. Cracow, Poland. November 23-24.

## **2002**

- Annual Retreat of the McGowan Institute for Regenerative Medicine. Pittsburgh, PA, USA. January 8-11.



- Human Frontiers Science Program (HFSP) “Progress and Perspectives”. New York, NY, U.S.A. March 23-24.
- International Conference “Cellules Souches et Thérapie Cellulaire”. Académie des Sciences. Paris, France. March 25-27.
- 42nd Annual Scientific Meeting of the British Society for Haematology. Brighton, UK. April 15-18.
- International Conference “Cystic Fibrosis and Neuromuscular Diseases: Perspectives from Cell Therapy”. Association Française contre les Myopathies (AFM). Paris, France. April 25- 27.
- XXIème Conference of the Developmental Biology Society “. Villefranche sur Mer, France. May 16-17.
- Eighth Annual meeting of the International Society for Cellular Therapy (ISHAGE). Barcelona, Spain. May 25-28.
- 7th Congress of the European Haematology Association. Florence, Italy. June 6-9.
- 43• IXth Congress of the World Apheresis Association, WAA-SFH 2002. Paris La Villette, France. September 7-10.
- 19th Jean-Claude Dreyfus Conference, Institut Cochin. Paris, France. September 13.
- Hematopoietic Stem Cells IV. International Conference and Workshop. Tübingen, Germany. September 19-21.
- Hématologie Conference “Saint-Louis 2002”. Paris, France. September 26-27.
- 18th International Meeting on Clinical Pharmacology. Giens, France. October 6-8.
- 8e Annual Meeting of the « Association Française de Cytométrie » (AFC). Bordeaux, France. October 6-8.
- 10th Meeting of the European Society of Gene Therapy (ESGT). Antibes, France. October 12-16.
- 2ème Meeting of the « Société Francophone de Transplantation ». Montréal, Canada. October 24-27.
- European Science Foundation meeting “Stem Cells”. Paris, France. November 5.
- Carrefour Pathologie 2002. Paris, France. November 4-8.
- NIEHS/NIH meeting “Human Embryonic Stem Cells”. North Carolina, USA. November 18.
- International Conference “Stem Cell Potentials”. Rotterdam, Netherlands. November 28.
- Annual Meeting of the French Society of Immunology. Strasbourg, France. November 27- 29.

## 2003

- International Conference, European School of Haematology (ESH). Paris, France. February

13-15.

- Annual Retreat of the McGowan Institute for Regenerative Medicine Pittsburgh, PA, USA.

March 3.

- International Conference “Stem Cells”. Collège de France. Paris, France. March 18.
- Symposium « Stem Cells » Institut Louis Bugnard. Toulouse, France. April 11.
- Symposium “Frontiers in Human Embryonic Stem Cells”. Pittsburgh, PA, USA. May 15.
- Gordon Conference “Red Cells”. Barga, Italy. May 25-30.
- International Stem Cell Forum. London, UK. May 30.
- 8th Congress of the European Hematology Association (EHA). Lyon, France. June 12-15.
- 32nd Annual Meeting of the International Society for Experimental Hematology (ISEH). Paris, France. July 5.
- International Conference “Tissue Engineering and Cell Therapy”. London, UK. October 1.
- International Conference “Molecular Haemopoiesis 6”. London, UK. October 2.
- Annual Meeting of the 45th American Society of Hematology. San Diego, CA, USA. December 5-9.

## **2004**

- University of Pittsburgh- INSERM International Collaborative Research Meeting. Paris, France. January 19-21.
- Annual Retreat of the McGowan Institute for Regenerative Medicine. Pittsburgh, PA, USA. February 23.
- NIAID (NIH) meeting on Stem Cell Research. Washington, D.C., USA. May 17.
- Symposium “Frontiers in Human Embryonic Stem Cells”. Pittsburgh, PA, USA. May 15.
- 2nd Annual Meeting of the International Society for Stem Cell Research. Boston, MA, USA. June 10-13.
- International Conference “Blood and Marrow Stem Cells”. Mira, Venice, Italy. June 17-18.
- Annual Meeting of the ISEH (International Society for Experimental Hematology) 2004. New Orleans, LA, USA. July 17-20.
- VII International Conference “In Utero Stem Cell Transplantation and Gene Therapy”. Rome, Italy. September 6-9.
- “Hematopoietic Stem Cells V”. Tubingen, Germany. September 16-18.
- International Conference “Deciphering the Vascular Tree” (Ipsen Foundation). Paris, France. October 18.
- Annual Meeting of the International Stem Cell Forum. Montreal, Canada. November 5-6.

- International Conference “Stem Cells for a New Medicine”. Genoa, Italy. November 18-20.
- Pasteur Institute. EuroConference “Stem Cells”. Paris, France. December 9-11.

## **2005**

- Keystone Conference “Stem Cells”. Banff, Canada. February 10-15.
- Annual Retreat of the McGowan Institute for Regenerative Medicine. Pittsburgh, PA, USA. March 7.
- ESH-EBMT-Eurocord III, Cascais, Portugal. April 15-17.
- Annual Meeting of the International Society for Cell Therapy (ISCT) 2005. Vancouver, Canada. May 4-7.
- 2005 Trilateral Stem Cell Meeting (France/Japan/USA). Kobe, Japan. May 12-13.
- NIH-sponsored Symposium “Frontiers in Human Embryonic Stem Cells”. Pittsburgh, PA, USA. May 22-27.
- Annual meeting “Regenerate 2005”. Atlanta, GA, USA. June 1-4.
- 17th Scientific Retreat of the UPCI (University of Pittsburgh Cancer Institute). Pittsburgh, PA, USA. June 9-10.
- FASEB Summer Research Conference “Muscle Development and Repair”. Tucson, AZ, USA. June 11-16.
- International Conference “Stem Cells – Leukemia – Transplant”. Alba, Italy. September 1-3.
- Annual meeting of the IFATS. Charlottesville, VA. September 11-12.
- Weizmann Institute. International Conference on Stem Cells (launching of the Israelian Stem Cell Society). Rehovot, Israel. November 16.
- 47th Annual Meeting of the American Society of Hematology. Atlanta, GA. December 10- 13.

## **2006**

- International Stem Cell Forum. Paris, France. January 11-13.
- Keystone Conference “Stem Cells”. Whistler, British Columbia, Canada. March 27-April 1.
- Annual meeting of the FASEB - North American Vascular Biology Organization. San Francisco, CA, USA. April 1-5.
- Convegno Nazionale – “Cellule Staminali e Progenitori Emopoietici Circolanti”. Rome, Italy. May 24-26.
- Annual meeting of the International Society for Stem Cell Research. Toronto, Canada. June 29-July 1.
- NATO ASI Meeting – “Stem Cells and Their Potential for Clinical Application”. Simeiz,

Ukraine. August 22-30.

- Hematopoietic Stem Cells VI. Tübingen, Germany. September 14-16.
- European Hematology Association Conference "Biology and Therapeutic Use of Mesenchymal Stem Cells". Cannes, France. October 6-8.
- 6th Annual meeting "Stem Cells in Regenerative Medicine". Pittsburgh, PA, USA. October 16-17.
- 59th MD Anderson Annual Symposium on Cancer Research . Houston, TX, USA. October 27-29.
- 2006 Festival della Scienza. Genova, Italy. November 2.

## **2007**

- International Stem Cell Forum. Singapore. February 1-2.
- Recent Progress in Stem Cell Research and Regenerative Medicine. Genoa, Italy. March 15-16.
- FASEB Experimental Biology Conference. Washington, DC, USA. April 30.
- CTS IPITA XA 2007 Joint Conference. Minneapolis, MN, USA. September 17.
- International Symposium of Bioengineering and Regenerative Medicine. Mulhouse, France. September 24-26.
- International Stem Cell Symposium. Amsterdam, the Netherlands, October 9-11.
- ESH-Eurocord. Paris, France. October 19-21.
- 3rd ITERA Life-Sciences Forum Symposium. Maastricht, the Netherlands, October 24-26.
- XVth Annual Congress of the European Society of Gene & Cell Therapy. Rotterdam, the Netherlands. October 27-30.
- EHA: Cord Blood Stem Cells, from Biology to Clinical Applications. Paris, France. November.
- Stem Cell Lines for Cell Based Therapies. Brussels, Belgium. November 27-30.

## **2008**

- International Course on Mesenchymal Stem Cells. Cleveland, OH.
- EHA: Cord Blood Stem Cells, from Biology to Clinical Applications. Cannes, France. June.
- HSC VII. Bodensee, Germany, September.
- 4th ITERA Life-Sciences Forum Symposium. Maastricht, the Netherlands, October.
- Scottish Stem Cell Network. Aberdeen, Scotland, October
- Ice Fall Symposium, Johns Hopkins University, Baltimore, MD. October.

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## **2009**

- Annual Retreat of the McGowan Institute for Regenerative Medicine. Pittsburgh, PA, USA. March 10.
- 1st Italian Mesenchymal Stem Cell Meeting. Milan, Italy. April 21.
- 2nd Dutch Stem Cell Meeting. Rotterdam. April 23.
- 2nd Epitron Brainstorming Meeting. Apoptosis, Senescence & Stem Cells in Cancer. Montenegro. April 27-29.
- Sero International Foundation conference on: Progress in stem cell biology and medical applications. Stresa, Italy. May 14-16.
- Case Western Reserve University Cell-Based Therapies & Tissue Engineering Short Course. Cleveland, OH. May 20-21.
- The 7th Catholic International Stem Cell Symposium. Seoul, Korea. June 11.
- 3rd International Workshop Multipotent Stromal Cells for Regenerative Medicine and Immune Regulation. Frankfurt, Germany. June 12-13.
- MSC 09. Cleveland, Ohio. August 16-19.

## **2010**

- Gene/Cell Therapy of Rare Disorders. Paris, France. January 11.
- 4th UK Mesenchymal Stem Cell Meeting. Leeds. April 14.
- 2nd Italian Mesenchymal Stem Cell Meeting. Milan, Italy. May 3.
- CTTE Speakers Course. Cleveland, Ohio. May 18-20.
- Gene/Cell Therapy Meeting. Paris, France. June 3.
- ISCT-EUROPE 2nd Regional Meeting. Belgirate, Italy. September 11-14.
- 1st European Conference on Mesenchymal Stem Cells. Toulouse, November 18-20.
- Stem Cell Research & Cell Therapy (Roche). Penzberg, November 24.

## **2011**

- Networking to accelerate the outcomes of Vascular Regenerative Medicine. Bristol University, January 19.
- Gene and/or Cell Therapy of Rare Disorders. Paris, France. January 21.
- BHF Site Visit. London, UK. March 10-12.
- Regenerative Medicine & Stem Cell Research. Bologna, Italy. May 3.
- Edinburgh Stem Cell School. Edinburgh, UK. May 5-6.
- CTTE 2011. Cleveland, OH. May 16-18.
- 9th HHT Scientific Conference. Antalya. Turkey. May 20-24.
- Mechanisms of Organ Repair and Regeneration. Washington DC. September 14-16.
- American Association of Blood Banks. San Diego, CA. October 22-25.
- 44th annual meeting of ASN. Philadelphia, PA. November 9-10.
- 10th Annual Gene Therapy Symposium. Sonoma, CA. November 16-18.

## 2012

- Stem Cells 2012. McGowan Institute Scientific Retreat. Pittsburgh, CA. February 8-11.
- INSERM School 2012: "Individuality and social control of cells: a common theme in development, regeneration & cancer". Paris, France, March 8-11.
- IFR14 Conference. Paris, France, March 8-15.
- Stem Cell Network: "Progress to Therapy: Realising the Promise of Regenerative Medicine". Glasgow, UK, March 21-22.
- Keystone Symposium "Regenerative Tissue Engineering and Transplantation". Beaver Run, CO. April 1-6.
- 4th Meeting of the Forum of Italian Researchers. Pavia, Italy. May 14.
- CTTE 2012. Cleveland, OH. May 22.
- CYTO 2012 Symposium: XXVII Congress of the International Society for Advancement of Cytometry. Leipzig, Germany. June 23-27.
- New Directions in Biology and Disease of Skeletal Muscle. New Orleans, LA. June 17-21.
- Renal Pericytes 2012 Workshop, Edinburgh, UK. July 6-7 (co-organizer).
- Gordon Research Conference "Musculoskeletal Biology & Bioengineering". Andover, NH. Sept 5-10.
- G20 Meeting. Montreux, Switzerland. Sept. 3-4.

## 2013

- TRANSMED Workshop, Athens. "Understanding the Natural History of Mesenchymal Stem Cells to Impose their Medical Utilization". April 19-21.
- CTTE 2013, Cleveland, OH. May 20-22.
- eCM Conference, Davos, Switzerland. June 23-25.
- MSC Conference, Cleveland, OH. August 19-21.

## 2014

- Keystone Conference "Fibrosis: From Bench to Bedside". April 23-27.
- CTTE 2014, Cleveland, OH. "Cell-Based Therapies and Tissue Engineering", May 12-14.
- BAHH Conference, Bucharest (Romania) "Modern Biotechnological Advances for Human Health" May 20-22.
- TERMIS EU 2014 Conference, Genova (Italy), June 10-12. Keynote address: "Nature or Nurture: Do Mesenchymal Stem Cells Exist before Culture?"
- CVS Symposium, "Blood Vessels as a Source of Tissue Regenerative Cells" Edinburgh, UK. June 19.
- TCES Conference, Newcastle, UK. July 3.

- BHF Cardiovascular Regenerative Centres Joint Symposium Day, London, UK. July 31-August 1.

## **2015**

- Eighteenth Meeting of the Scottish Cardiovascular Forum, QMRI, Edinburgh, UK. February 7.
- Biologic Treatment of Sports Injuries Think Tank II, CO. February 26-March 1.
- BIRAX Workshop, Tel Aviv, Israel. March 10-15.
- EMBO Workshop, Paris, France. March 30-April 3.
- Tissue Regenerative Medicine Conference, Wien, Austria. April 28-29.
- CTTE, Cleveland, OH. May 12-14.
- BSCR Sponsored, Joint Annual Symposium, Glasgow, UK. June 11-12.
- Workshop on Scleroderma Research, Cambridge, UK. August 1-5.
- Sixth Meeting of the Asian Cellular Therapy Organization, Gwang-ju, Korea. August 20-22
- 2015 BRS-BSMB Meeting, Edinburgh, UK. September 1-3.
- 3rd South West Regional Regenerative Medicine Meeting, Bristol, UK. September 21-22.
- IFATS New Orleans, LA. November 5-8.
- British Council Meeting. London, UK. November 11.
- BIRAX Conference, London, UK. 29 November 29-December 1.

## **2016**

- Edinburgh Haematopoiesis Network Symposium. Edinburgh, UK. February 1.
- CVR London, UK. March 9-10.
- BIRAX Conference, London, UK. April 10-12.
- Ninth Pan Pacific Symposium, Taipeh, Taiwan. May 13-16.
- CTTE 2016, Cleveland, OH. May 23-27
- eCM XVII: Stem Cells and Bone, Davos, Switzerland. June 19-22.
- BHF Joint Regenerative Medicine Conference, Cambridge, UK. June 23-24.
- Gordon Research Conference on Musculoskeletal Biology and Bioengineering, Andover, NH. August 7-12.
- Second Annual Vail Scientific Summit. Vail, CO. August 18-20.
- European SMARTER Workshop. Friburg, Switzerland. November 7-9.
- IFATS Meeting, San Diego, CA. November 17-20.

## **2017**

- ORS Annual Conference. San Diego, CA. March 20-23 (Spotlight speaker).
- Nano World Conference, Boston, MA. April 3-5.

- CTTE 2017, Cleveland, OH. May 17-22.
- AFM Telethon International Cell Therapy Workshop, Paris, France. June 29.
- International Mesenchymal Stem Cell Conference, Cleveland, OH. August 13-16.
- Third Annual Vail Scientific Summit, Vail, CO. August 23-26.

## 2018

- Birax Workshop, London, UK. March 5-6.
- International Regenerative Medicine Workshop, Charleston, SC. March 21-24 (Keynote speaker).
- Annual meeting of the International Society for Cell Therapy (ISCT), Montreal, Canada. May 2-5 (Plenary speaker).
- Fourth International Meeting on Cancer and Blood Vessels. Guangzhou, China. May 11-12.
- CTTE 2018, Cleveland OH, May 21-25.
- Fourth Annual Vail Scientific Summit, Vail, CO. August 23-26.
- Nobel Forum Conference “Heart and Vascular Regenerative Therapeutics”. Stockholm, Sweden. November 29-30.

## 2019

- Third Annual Symposium on Injury Prevention. Vail, CO. May 1-3.
- CTTE 2019, Cleveland, OH. May 22-25.
- Fifth Annual Vail Scientific Summit. “Advances in Regenerative Medicine”. Vail, CO. August 24-28.
- OTCF (Osteosynthesis and Trauma Care Foundation) workshop on enhanced fracture healing. Prague, Czech Republic. November 14-16.

## 2020

**(several invited presentations at conferences in 2020-2021 were cancelled or postponed)**

- CTTE 2020, Cleveland, OH. August 10-11.

## 2021

- CTTE 2021, Cleveland, OH. May 19,20.

## 2022

- WashU MSK: Musculoskeletal Regenerative Medicine Symposium. May 5, 6. St Louis, MO
- Cell-Based Therapies and Tissue Engineering. May 25, 26. Cleveland, OH
- Symposium in memory of Francoise Dieterlen “The embryo, from blood vessels to hematopoiesis”. June 22. Sorbonne University. Paris, France



- The International Combined Orthopaedic Research Societies (ICORS) 2022. September 7-9. Edinburgh, UK (Keynote lecture)
- Myology 2022. Sept. 12-15. Nice, France (Muscle Fibrosis session chair)
- Lipedema Foundation 2022 Scientific Retreat. Dec. 5-7. Reston, VA

## **2023**

- Birax Grantees- Research Workshop. March 21, 22. London, UK
- AtIO International Conference. May 18-20. Berlin, Germany
- Second meeting of the Sinpain consortium. May 22-24. Novara, Italy

## **2024**

- 2024 Regeneration Day Gala. The National Rongxiang Xu Foundation. February 29. Los Angeles (Keynote speaker)
- French Days on Biology of Mineralized Tissues. April 24-26. Bordeaux, France
- Lipedema Research Retreat. November 19-21. Washington DC

## **SEMINARS (1992-PRESENT)**

### **1992**

- Centre Régional de Lutte contre le Cancer Léon Bérard. Lyon, France. Pr. T. Philip. January 10.
- Hôpital Necker. Paris, France. Dr. F. Lepault. January 15.
- Centre de Recherche Schering-Plough. Dardilly, France. Dr. J. Banchereau. February 20.
- CIML. Marseille-Luminy, France. Dr. M. Pierres. March 9.
- CENG, Department of Hematology. Grenoble, France. Dr. G. Marguerie. March 17.
- IRSC. Villejuif, France. Dr. M. Mezzina. March 19.
- Hôpital Saint-Antoine. Paris, France. Dr. Nicole Mulliez. March 19.
- Hôpital Edouard Herriot. Departement of Hematology. Lyon, France. Pr. J.L. Touraine. March 20.
- Ecole Normale Supérieure. Paris, France. Dr. J.P. Thiery. March 23.
- Basel Institute for Immunology. Basel, Switzerland. Dr. B. Imhof. March 26.
- Hôpital de la Pitié Salpêtrière. Paris, France. Dr. P. Debré. April 15.
- Hôpital Robert Debré. Paris, France. Pr. P. Blot. May 4.
- Institut Pasteur. Paris, France. Drs. J.M. Heard and O. Danos. May 7.
- Hôpital Henri Mondor. Créteil, France. Prof. J.P.Vernant. May 15.
- CNRS. Orsay, France. Dr. P. Hentraye. May 25.
- Institut Gustave Roussy. Villejuif, France. Dr. L. Coulombel. June 4.
- Hôpital Haut-Lévêque. Bordeaux, France. Pr. J. Reiffers. June 12.
- Hôpital Saint Antoine. Paris, France. Dr. F. Lemoine. October 12.

## 1994

- GLAXO Labs. Les Ulis, France. January 7.
- INSERM U211. Nantes, France. Prof. JP Soullou. March 18.
- INSERM. Intercommission "Thérapeutiques Substitutives". "Utilisation de cellules souches hématopoïétiques en thérapeutique humaine". Paris, France. April 7.
- Hôpital Necker. Paris, France. Pr. Wegemans. June 21.
- Bern University. Bern, Switzerland. Dr. C. Mueller. June 27.
- Hôpital de la Pitié-Salpêtrière. Paris, France. Dr. Catala. November 8.

## 1995

- Hôpital Necker. Paris, France. Prof. Wegemans. May 9.
- IRSC. Villejuif, France. Dr. M. Mezzina. June 20.
- Systemix Inc. Palo Alto, CA, USA. Dr. B. Chen. August 10.
- Faculté de Médecine Paris VI. Paris, France. Prof. F. Lemoine. November 8.

## 1996

- Établissement de Transfusion Sanguine de Bretagne Ouest. Brest, France. Dr. C. Ferec. January 12.
- Hôpital Saint Louis. Paris, France. Dr. H. de Thé. March 19.
- Université Bordeaux II. Bordeaux, France. Prof. H. de Verneuil. July 8.
- Institut Paoli-Calmettes, Centre de Thérapie Génique. Marseille, France. Dr. C. Chabannon. November 8.

## 1997

- 51 • Faculté de Médecine de Porto, Portugal. Prof. M.C. Magalhaes. January 13.
- Unité d'Hémo-Immunologie, Hôpital Robert Debré. Paris, France. Prof. E. Vilmer. June 2.
- INSERM U36, Collège de France. Paris, France. Dr. J.M. Gasc. October 14.
- Institut für Klinische und Molekular Virologie. Erlangen, Germany. Pr. Ensser. October 20.
- Centro Nacional de Biotecnologia, Université de Madrid. Madrid, Spain. Dr. A. Bernad. October 23.
- Erasmus Lectures on Genetics. Erasmus Universiteit. Rotterdam, the Netherlands. December 12.
- Oklahoma Medical Research Foundation. Oklahoma City, OK. Dr. P. Kincade. December 16-17.

## 1998

- U.F.R. Biomédicale des Saints Pères, Université René Descartes (Paris V). Paris, France. Pr

J.P. Dadoune. January 14.

- Institut de Génétique Moléculaire. Montpellier, France. February 17.
- Clinical Hematology Department. Würzburg, Germany. Pr Wilhem. April 26.
- Service de Foetopathologie, Hôpital Necker. Paris, France. Dr J. Martinovic. September 28.
- Institut Paris-Sud sur les Cytokines (IPSC). Clamart, France. Pr D. Emilie. November 18.
- Hôpital Broussais, Centre d'orthogénie. Paris, France. Dr Dagousset. November 23.
- University of Cambridge, Department of Haematology, MRC Centre. Cambridge, UK. Pr A.R. Green. November 29.
- Kimmel Cancer Center. Philadelphia, PA, USA. Dr C. Peschle. December 9.
- Hôpital Robert Debré. INSERM U457-458. Paris, France. Dr R. Scharfmann. December 12.

## **2000**

- Genethon. Evry, France. Dr O. Danos. January 22.
- Institut Transgenose, Orléans, France. Dr B. Ryffel. February 19.
- Erasmus Lecture, Erasmus University. Rotterdam, Netherlands. February 21.
- Institute for Cancer Research and Treatment (IRCC). Torino, Italy. Dr. W. Piacibello. March 6.
- Laboratoire de Physiopathologie Rétinienne. Strasbourg, France. Pr Sahel. May 19.
- IFR Burgnard, Toulouse, France. Dr L. Casteilla. June 18.
- "Club Cellules souches". IFR Nantes, France. Dr D. Escande. October 18.

## **2001**

- 12ème rencontre du réseau INSERM-jeunes. Angers, France. October 30-31.

## **2003**

- IFR Burgnard, Toulouse, France. Dr L. Casteilla. April 11.
- University of Kyoto. Kyoto, Japan. July 7.
- Riken Institute. Prof. S.I. Nishikawa. Kobe, Japan. July 8.
- Edinburgh Stem Cell Club. Edinburgh, UK. Dr. A. Smith. October 3.

## **2004**

- CORO Fellows Seminar, Pittsburgh, PA. November 9.

## **2005**

- University of Manchester. Manchester, UK. Dr. AM Buckle. September 30.

## **2006**

- Albert Einstein College. New York, NY. Dr. E. Bouhassira. March 20.

- Hollis-Eden Regenerative Medicine. San Diego, CA. Dr. J. Frincke. March 21-22.
- University of Pennsylvania School of Medicine. Philadelphia, PA. Dr. T. Brazelton. June 26.
- ISREC (Swiss Institute for Experimental Cancer Research). Lausanne, Switzerland. November 1.
- Oxford University, MRC Molecular Haematology Unit. Oxford, England. Dr. D. Higgs. November 3.

## **2007**

- Erasmus University Medical Center. Rotterdam, Netherlands. Dr. E Dzierzak. March 28.
- University of Manchester, UK. Dr AM Buckle. July 30.

## **2008**

- Cryogenomics Inc. Thessaloniki, Greece. April 11-13.

## **2009**

- NIH Stem Cell Seminars Series. Bethesda, MD. April 6

## **2011**

- Inaugural Professorship Lecture. University of Edinburgh, UK.

## **2012**

- Hong Kong University. September 13.

## **2015**

- Roslin Institute, UK. Dr C Esteves. September 15.
- University of South California, Los Angeles. Dr D Evseenko. September 8.
- University of California, Los Angeles. Dr A Deb. September 15.

## **2017**

- UTHealth/McGovern Medical School, Houston, TX. Dr J Huard. April 17.

## **2018**

- Western University of Health Sciences, Pomona, CA. January 12.
- UCLA, Musculo-Skeletal Research Seminar Series, March 29.

## **2019**

- Mayo Clinic, Jacksonville FL. Dr T Kanekiyo. July 25.

## **2021**

- UCLA. Orthopaedic Surgery Dept. Dr F Billi. January 6.
- Houston Methodist, Orthopedics and Sports Medicine Depts. Houston, TX. Dr K Varner. March 24.

## **2022**

- Miller School of Medicine. Dept. of Orthopaedic Surgery. Miami, FL. Dr Francis Hornicek, May 6th
  - USC. Broad Stem Cell Research Center. Los Angeles, CA. Distinguished Speaker Seminar Series. Prof. Andy McMahon. Oct.18th

## **2023**

- Cedars Sinai Medical Center. Center for Regenerative Medicine. Prof. Clive Svendsen. Nov. 28th
- Queen's Medical Research Institute. University of Edinburgh. Dr Tijana Mitic. Oct. 5th
- UCLA. Dept. of Orthopaedic Surgery. Dr Fabrizio Billi. Nov. 1st