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Date of birth: 26 August 1977
Marital status: marital relationship, 2 children
Driving licence: category B since 1996

THERAPEUTIC PROJECT LEADER

SUMMARY OF SKILLS

- Cellular and molecular biology, gene therapy, vectorisation, immunotherapy, cystic fibrosis, cancer, stem cells, T cells, viral infection, endonucleases, flow cytometry, cellular microinjection, cellular imaging, animal experimentation
- Experience in Good Clinical Practice: writing of SOPs, clinical trial implementation
- International experience (2 years in London in a Research Institute and a Biotechnology Company)
- Team management and writing of successful research project grant applications and scientist reports
- International patent applications and publication of 14 research articles and 3 reviews
- Oral and poster presentations in international congresses
- Combination of interpersonal skills such as flexibility, good communication, organisation and leadership

WORK EXPERIENCE

Nov. 2009 – Today **Cellectis therapeutics**, Paris, France
Project Leader
Project: Therapeutic projects (Herpes simplex virus type 1 infection, immunotherapy) using endonucleases (meganucleases, Talens) and Vectorisation project (profection using the VectoCell/DPV technology)
Skills: Transfection, electroporation, transduction, profection, T7 assay, deep sequencing, southern blot, western blot, Ficoll, T cell expansion and purification
Competencies:
- Organization of meetings and teleconferences during the ACTIVE (Application CuraTive des Infections Virales par Endonucléases) project with several partners (Genomic Vision, Institut de la Vision, Institut Pasteur, CNRS)
- Coordination in the Vectorisation project implementation
- Training and experience in Good Clinical Practice
- Writing of Standard Operating Procedures and several scientist reports
- European collaboration for a clinical trial implementation

Results:
- Clinical product development UCAR T19 (CAR modified T-cells)
- 1 research article and 3 international patents

March – Sept. 2009 **L'Oréal**, Research & Development Department, Clichy, France
Research Scientist
Project: Characterization and isolation of human hair follicle stem cells in order to test some chemical products preserving these cells
Skills: Cryostat sections, immunofluorescence, image analysis, cell culture
Competencies:
- Rapid care of a new project in the respect of assigned time
- Writing of scientist reports

Results:
- Development of a method to select the stem cells characterized by their colony-forming efficiency and by the expression of specific markers
- Evaluation of antioxidant chemical products protecting the stem cells

2006 – 2007 **Genex Biosystems Ltd.**, London, UK
Researcher
Project: Non-viral vector development for efficient gene transfer *in vivo*
Competencies:
- Direct liaison and regular meetings with investors
- International collaboration

Results: 1 international patent

2005 – 2006 **Institute of Child Health**, Molecular Immunology Unit, UCL, London (Dr. S. Hart)
Research Fellow

Project: Therapeutic gene transfer using non-viral vectors for a cancer treatment by immunotherapy. *This work was conducted in collaboration with the Department of Chemistry (UCL, London, Dr. H. Hailes) and was supported by a BBSRC grant.*

Skills:
- ***Cellular biology:*** cell culture, Ficoll, gene transfer, flow cytometry, luminometer, immunohistology
- ***Molecular biology:*** therapeutic plasmid amplification and purification, RT-PCR
- ***Physico-chemical:*** particle size and zeta potential
- ***Biochemistry:*** ELISA, ELISpot and cytotoxicity assays
- ***In vivo experiment:*** development of mice with S.C. tumour, I.V., S.C., I.P. injections, analysis of organ and blood samples

Results: Writing and publication:
- 5 research articles published in international journals
- 1 article in BBC News : « Skin cells fight child cancer », 7 July 2007
- 1 oral presentation (ASGT, Baltimore, USA, June 06)

2000 – 2004 **Laboratoire de Physiologie Respiratoire**, Faculté de Médecine Cochin, Paris (Pr. I. Fajac)
Ph.D. (full time research activity)

Project: Gene transfer and intracellular trafficking of plasmid/synthetic vector complexes in cystic fibrosis airway epithelial cells in order to understand the limiting-steps of gene delivery into cells and to develop efficient vectors for cystic fibrosis treatment by gene therapy. *This work was conducted in collaboration with the Laboratoire de Glycobiologie du CNRS d'Orléans (Pr. M. Monsigny) and was supported by grants from Association Vaincre la Mucoviscidose and Fondation pour la Recherche Medicale.*

Skills:
- ***Cellular biology:*** transfection, cellular microinjection, immunofluorescence, confocal and electron microscopy, microtome sections
- ***Molecular biology:*** *in vitro* transcription assays, DNA-labeling
- ***In vivo experiment:*** nasal instillation in mice

Competencies:
- Project design and implementation / Result analysis and interpretation
- Management of scientific students, research technician and assistant
- Writing of successful research project grant applications
- Establishment of a technical service in cellular microinjection

Results: Writing and publication:
- 8 research articles and 3 reviews published in international journals
- 1 book chapter and 2 iconographies
- 1 oral presentation (ASGT, Boston, USA, June 2002)
- Prize of the best oral presentation at the 3rd Colloque des Jeunes Chercheurs de la Mucoviscidose at Paris (15 May 2002)

EDUCATION AND TRAINING

2004 **Ph.D. in Biology** with honours (University Denis Diderot, Paris 7)
2003 **Animal Experimentation degree** (Level 1) (University René Descartes, Paris 5)

Language: English (good level)
Computing: Good knowledge of Adobe Photoshop, Image J and AxioVision (image analysis), Stat View (statistical analysis), Word, Powerpoint, Excel and Web

PUBLICATIONS See **www.drgrosse.com**

REFEREES References available upon request