Dominique DETAILLE
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Born on september 17th, 1969
Belgian, single
Driving licence B
Present residence in Salamanca, Spain

PhD in Biology (cell biology and physiology)
Project: Research Associate - R&D Scientist in a Biotechnology company or in the public sector, on human healthcare topics

Professional experiences

 # 04/2007 – 12/2008: Research Associate, University of Salamanca, Spain
Scientist in charge or collaborator on various projects (Advisers: Professors Y. El-Mir and J.M. Lopez-Novoa), funded by the spanish State or by private funds:

a) Metformin and gentamicin-induced nephrotoxicity: *in vivo* studies and mitochondrial function
b) Silibinin and hepatic mitochondrial metabolism in nutritional models of insulin resistance
c) Direct effects of glitazones upon hepatic energy metabolism

- Supervision of 2 PhD students and joint management of 1 postgraduate diploma (DEA)
- Organisation and development of laboratory activities: technology transfer, support for equipment purchase
- Cowriting of scientific projects: PHC Picasso with France (U. Schlattner); Integrated Actions with Algeria

 # 08/2002 – 03/2007: Post-Doc researcher, INSERM U884 (LBFA), University of Grenoble 1, France
Project: Mitochondrial effects of metformin and derivatives on the control of oxidative stress-induced cellular death in endothelial and neural cells (Funded by the pharmaceutical industry Merck-Santé, Lyon, France)

- Self- and team working (Direction: Xavier Leverve), as well collaborations with research units from France (M. Rigoulet), Belgium (B. Guigas and L. Hue) or Spain (Y. El-Mir)
- Initiation of a research program about a new pharmacological drug in relation with diabetes treatment: *in vivo* studies and cultured cells experiments
- Set-up of new experimental protocols
- Reports and scientific articles writing, data presentation in international congresses, regular apprenticeship of technology to trainees, stock inventory in cell culture

 # 06/1995 – 07/2002: Scientist, then PhD student at the **University of Namur (FUNDP)**, inside the Research Unit in Biology of the Organisms (Laboratory of Comparative Biochemistry and Physiology)
Fellowship from Merck-Lipha: convention with this pharmaceutical group for the identification of cellular and molecular events whereby metformin enhances insulin-dependent glucose metabolism in *X. laevis* oocytes

- Contacts with academic research teams: Belgium (UMH, UCL), France (LBFA of Grenoble)
- Supervision of 1 master student; continuous training of technology (microinjection, use of liposomes)
- Order, receipt, and maintenance of animals

 # 03/1994 – 06/1994: Scientist at the University of Namur
Fixed term contract in convention with the Walloon Region and the University of Liège for the study of hormonal factors similar to crustacean prolactins and somatotropic hormone.

Education

2002 - Ph.D in Biology (University of Namur, Belgium)
Thesis: The *Xenopus laevis* oocyte as experimental tool for the study of an antidiabetic drug, metformin, controlling insulin-regulated glucose metabolism (Adviser: Professor Pierre Devos).

1993 - License (master degree) in Biochemical Sciences (University of Liège, Belgium)
Dissertation: Study of xenobiotic compounds degradation pathways by microorganisms.

1991 - License (master degree) in Zoological Sciences (University of Namur, Belgium)
Dissertation: Fructose 2,6-bisphosphate and bioamines as regulators of ion transport in isolated gills of the Chinese crab, *Eriocheir sinensis*, acclimated to fresh water.

Acquired skills

- technical

Physiology: Spectrometry, osmometry, perfusion of crustacean gills, microinjection of nucleic acids or drugs into oocytes, use of radioisotopes (^{14}C, ^{32}P, ^{3}H, ^{125}I), isolation of mitochondria from liver and kidney tissues, bioenergetic parameters (oxygraphy, calcium retention capacity, ROS production, etc…)

Biochemistry/molecular biology: HPLC, subcellular fractionation, SDS-PAGE in one dimension, RIA, ELISA, Western Blot, synthesis of transcripts from cDNA, spectrofluorimetry, protein and enzymatic assays

Cell culture: bacteria strains (*Pseudomonas, Arthrobacter, Bacillus*) in flasks or small fermentors; cell lines (KB, HMEC-1, C6, HL-1, Caco-2) and primary cells (BAEC, HUVEC, neurons); microscopy (phase contrast, classical fluorescence and confocal), immunocytochemistry and cell death determination by flow cytometry

Animal handling: use of fasted/starved Wistar rats: subcutaneous and/or intraperitoneal injection of various compounds (antidiabetic drugs, anaesthetics, etc…)

- communication and organizational skill

Scientific writing: **17** publications including **9 as first author**; 14 abstracts including 7 self-presented as a poster form in french, english, or spanish; experience in reports and projects writing; peer-reviewing of papers

Oral communication: in addition to data presentation in congresses/seminars, co-animation of a workshop: “The cell revisited using confocal imaging” (Fête de la Science 2005, Grenoble)

Organisation: students supervision, experiments planning, management

Languages and computer skills

- French (mother tongue)
- English (good level)
- Spanish (middle level)
- Dutch (school level)
- Processing Data tools: Windows (Word, Excel, PowerPoint); Imaging (Leica Confocal Software, ImageJ, IrfanView, Graphic Convertor); Internet searches: PubMed, Medline, professional networking (Viadeo)

Miscellaneous

- 2 memberships: Groupe Français de Bioénergétique since 2003; Société Belge de Biochimie et de Biologie Moléculaire since 1993
- Various trainings in geology, marine biology and fresh water ecology
- Hobbies: music, cinema, walking
- Voluntary worker in a music festival (Les Vans, France) since 2007