

Science PhD graduate applying for a commercial position

Hilary Michelle McArthur

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EDUCATION

2002-2005 University of Manchester **PhD in Medicine**

The regulation of leukocyte migration away from the subendothelial compartment.
Adapted, validated and implemented a "novel" assay to investigate leukocyte migration and survival.

As this CV is intended for a science post, it is appropriate to use the full technical PhD title

2001-2002 University of Salford **MSc in Immunology** (distinction)

Dissertation project - 'Neutrophil spontaneous apoptosis is mediated through the acid sphingomyelinase dependent generation of ceramide.'

1998-2001 University of Salford **BSc (Hons) in Biochemistry** (first class)

Dissertation project - 'Autoimmunity: A genetic perspective.'

Broad-based degree in biochemistry with the second year spent studying at Oregon State University, USA.

1996-1998 Kings College, Manchester **A-levels**

Biology (A); Chemistry (A); Mathematics (A); History (A).

RESEARCH EXPERIENCE AND TECHNICAL SKILLS

Development of static adhesion and migration assay.
Adaptation of a novel co-culture system: culture stromal cells on the apical and basal surface of Transwell inserts.
Image-based analysis of leukocyte behaviour in static and flow adhesion and migration assays.

Microscopy: phase contrast and fluorescence.
Cell culture (primary and immortalised cell lines).
Isolation of leukocytes subsets and endothelial cells.
Immunofluorescence and immunocytochemistry.
Flow cytometry.
Subcellular fractionation.
Western blotting.

Extensive experience of Microsoft Word, Excel, PowerPoint and Prism.
Working knowledge of WinMDI and Image Pro.

As this CV is for a research post it is important to detail laboratory experience and knowledge of practical techniques. Recruiters view practical experience positively

RESEARCH-RELATED EXPERIENCE

Research Council Graduate School, Summer 2004

- Highly organised and methodical member of a productive team.
- Managed time and team members, allocating tasks and ensuring their completion.
- Developed problem solving, communication, negotiating and team skills.

Postgraduate Demonstrator/Student Mentor, MMU 2003 - present

- Responsible for communicating and demonstrating technical practical work to final year BSc undergraduates, as well as showing visiting work experience students laboratory protocols.

Laboratory Assistant, Scientific Laboratories, Salford, August 1996

- Worked independently on an assigned project. Developed technical writing skills for industry purposes, along with presentation and communication skills.

Foreign Exchange Cashier, Travel Easy Ltd, Salford, Summer 2001 and 2000.

- Responsible for handling, auditing, verifying and promoting sales of foreign currency. Introduced and implemented problem-solving strategies.

Student posts demonstrate strong laboratory, team and communication skills

SKILLS AND ACHIEVEMENTS

Project management

- Worked as a part of a highly motivated team, organising the relocation of the laboratory twice during the course of my PhD.

Flexible approach

- Studying in the US demonstrated my ability to adapt well to new environments.

Academic

- Received awards for best overall academic achievement and best dissertation project at the end of my MSc (2002).
- Received award for best overall academic achievement at the end of my BSc (2001).

INTERESTS

- I enjoy sports, especially football, and have been a member of a women's intramural football team (2002-2004).
- I am a keen swimmer and a certified PADI Open Water Diver (1996). I have been a member of several local dive clubs allowing me to develop my diving skills and take part in club dive trips.
- I find playing and listening to music a relaxing pastime. Learning to play the electronic organ required high levels of self-motivation and commitment, which has been reflected in being awarded Grade Five in 1996 and Grade Three in music theory in 1995.
- I also enjoy reading, particularly science fiction and criminology.

REFERENCES - Available on request