James Banks

Address:	Plant Sciences Department University of York York YO1 5DD Tel: 01904 344560 Email: j.Phillips@plant.york.ac.uk	Date of birth: 29/04/1982
EDUCATION		
2005 – present	PhD Plant Biochemistry, University o Molecular determination of sodium/calcivacuolar membrane of <i>beta vulgaris</i> Using a range of molecular and biochemit transporter gene has been isolated and id See appendix on pg 3 for a list of publica	ium transporters across the ical techniques the entified.
2004 – 2005	MRes Environmental Management, U Main subjects studies: Global Warmin environmental education, transport policy habitat protection. Final dissertation: Bioremediation trial Nuclear Power Plant	ng, nuclear waste, y, flood prevention and
2000 - 2003	BSc (hons) Zoology, University of Ma Main subjects studied: animal physiology, microorganisms Project: Investigating an alternative <i>in vitr</i> ecotoxicological testing around the river	, molecular biology, v method methods for
1994 - 2000	Highgrave School, York	
	A-levels: Biology (C), Chemistry (C), Ma AS level: Further Maths (C) 10 GCSE passes grades A* - C, including	
SKILLS		

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Research

During the course of my research I have built up a wealth of techniques including:

- Molecular/Cellular Biology : Familiar with a wide range of techniques including PCR, microarrays, bioinformatics, ELISA.
- Biochemistry: Protein chemistry, isolation and purification techniques, formulation of novel methodologies.
- Environmental surveying and sampling techniques
- Highly computer literate, able to analyse large datasets, modelling, extensive genomic and metabolomic analyses.

Supervision and teaching

- Supervised a summer student during my 3rd year. Organised and planned their work; managed them on a day-to-day basis and explained scientific facts to them.
- Taught a small tutorial group of 6 second year students for three sessions during my 3rd year as part of a Plant Molecular Biology Module. Prepared problem-based lectures to assist them with their understanding of the lectures and practicals.
- Acted as a supervisor in practicals throughout my PhD and also during my masters course.

Communication

- Excellent written ability developed through writing my thesis and co-writing papers and posters for presentation.
- Good oral presentation skills: see appendix I have presented my work as a poster three times at scientific conferences as well as delivering a talk in the UK. I have also made presentation within my department.
- Work well in the lab organised, efficient and accurate.
- Assisted the department in Open Days disseminated basic science information to school parties and parents.
- Involved in National Science Week to promote science to the local public.

WORK EXPERIENCE

Voluntary Work (Jan 2004 – June 2004)

Worked on two projects with i2i:

- 1. Conservation work in Equador.
- 2. Teaching English to children (age 9 11). This required excellent organisational skills as well as being creative and flexible.

Casual Work (Summer 2002/2003/2004)

Mixture of retail and bar work to subsidise my study costs.

INTERESTS AND ACTIVITIES

Tennis, rugby and football: 2nd team captain (rugby) and 1st team member. Represented my hall of residence in pool and table-tennis competitions. Travelling in Europe and in Equador

REFEREES

Professor P. Richardson Dept of Plant Sciences University of York York YO1 5DD 01904 436725 Email: p.richardson@plant.york.ac.uk Dr Harry McDowell Course Tutor Environmental Sciences University of Birmingham Birmingham B1 2TT 0121 456 2158; Email: h.mcdowell@bham.ac.uk