

Name

MSc Bioscience (Biotechnology)

PROFILE

First-class and motivated Biotechnology post-graduate with proven team working and problem solving competencies as well as developed interpersonal and leadership skills.

Dependable, creative and goals-oriented researcher with excellent written, oral and presentation skills, as well as track record of producing results in research environments. Highly organised and professional worker with experience working to tight deadlines.

Strong theoretical and good practical grounding in wide range of core research areas, including Molecular Biology, Genetics, Microbiology, Bioinformatics, Biochemistry, Pharmacology, rDNA technology, and Tissue Culture.

Seeking Biological Sciences research position in high-calibre university departments, affiliated bodies or independent research institutions to broaden experience base and contribute to cutting edge research.

LABORATORY TECHNIQUES

- mammalian cell culture
 - cryopreservation
 - immune assays, e.g. ELISA and immunofluorescence microscopy
 - cell based assays to determine cell viability and free radical production

 - plasmid DNA preparation and quantification
 - bacterial transformation
 - restriction enzyme digestion
 - site-directed mutagenesis
 - recombinant protein expression
 - PCR
 - DNA sequencing
 - agarose gel electrophoresis
 - SDS-PAGE
 - western blotting
 - protein purification by affinity chromatography

 - extraction, amplification and quantification of genomic DNA / total cellular RNA from human blood
 - genomic/plasmid DNA from *S. typhi* and *E. coli*

 - pharmacological investigations, e.g. onset and duration of action of pentobarbital sodium and diazepam in mice under different routes of administration (intraperitoneal, intravenous & oral)

 - aseptic isolation of pure bacterial cultures by spread / pour / streak plate technique
 - estimation of colony-forming units
 - gram staining
 - media preparation
 - micropropagation
 - cell quantitation
 - light microscopy
 - mass spectrometry
 - antibiotic susceptibility tests
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RESEARCH EXPERIENCE

2011	INSTITUTE OF MEDICAL AND BIOLOGICAL ENGINEERING, UK	Biological effects of prosthetic cobalt-chromium nanoparticles on cells of the dural membrane <i>Independent research project</i>
2010	FACULTY OF BIOLOGICAL SCIENCES, UNIVERSITY OF LEEDS, UK	Sub-cloning, mutating, expressing and purifying Green Fluorescent Protein <i>Laboratory based research project</i>

EDUCATION

2010–2011	UNIVERSITY OF LEEDS, UK	MSc Bioscience (Biotechnology): Distinction <i>Modules:</i> ▪ Core Skills ▪ Tissue Engineering ▪ Molecular Biology ▪ Biochemistry ▪ Pharmacology
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- 2007–2010 MANIPAL UNIVERSITY DUBAI, UAE
BSc Biotechnology: 3.83/4 CGPA
- 2009 MANIPAL UNIVERSITY DUBAI, UAE
Department of Biotechnology
Training programme: DNA Fingerprinting by Restriction Fragment Length Polymorphism (RFLP) and Short Tandem Repeats (STR)

ACHIEVEMENTS & SCHOLARSHIPS

- 2012 **Biomaterials** (leading journal)
 - Research paper under review as first author
- 2011–2012 Research posters:
 - 2012 Orthopaedic Research Society Annual Meeting, USA
 - 2011 13th Annual White Rose Biomaterials and Tissue Engineering Work in Progress Meeting, UK
- 2010 UNIVERSITY OF LEEDS, UK
Faculty of Biological Sciences International Scholarship 2010: £2,000
- 2010 MANIPAL UNIVERSITY, DUBAI
Biotechnology Health Festival 2010
 - Persuaded major healthcare companies to become sponsors
- 2010 MANIPAL UNIVERSITY, DUBAI
Department of Biotechnology
 - Best Student Award for Outstanding Contribution**
- 2010 MANIPAL UNIVERSITY, DUBAI
Department of Biotechnology
International Symposium on Biotechnology 2010
 - Provided presentation, scientific posters and full technical support

LANGUAGES

- English (fluent)
- Hindi (fluent)
- Punjabi (speaking)

IT

- Word, Excel & PPT
- Endnote (bibliographies)
- cell^B (microscopy imaging)
- C++ and HTML (programming languages)
- Chemdraw (chemical mapping)
- Image Pro-Plus (scientific image analysis)
- BLAST, ClustalW, DotPlot, ExPASy, Primer3, etc. (online bioinformatics tools)

PERSONAL INFORMATION

Address: _____ Email: _____
 Mobile: _____
 DOB: _____ Driving Licence: _____
 UK Immigration Status: Highly Skilled Post-Study Work Visa – Valid:

REFERENCES

NAME	NAME
ADDRESS	ADDRESS
Tel:	Tel:
E-:	E-: