**Priyanshu**

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**Education**

2012-2016 **The University of Manchester**

**MEng (Hons)** Biomaterials Science and Tissue Engineering (Integrated)

* **Graduated with an overall 2.1**. The Modules include concepts about Material Science and Engineering as well as about the concepts of Biomedical Science. Achieved an overall 2.1 in **business plan essay** that highlights all aspects to setup and run a new company with a novel therapeutic concept.
* **Achieved a 2:1** in the “Dissertation Project” module in which I was able to investigate key characteristics that enable formation of **Tumor Microspheroids within collagen hydrogel in 3D**. This also involves reviewing previous research and presenting my work to my fellow peers.

2010-2012 **The Winchester School, Dubai**

**Advanced-Level**: Physics (B) Chemistry (A) Biology (B) Mathematics (A), UCAS Points – 440

**International General Curriculum of Secondary Education (IGCSE) Grades:** 4A\* 1A 2B including English (B), Sciences (Physics, Chemistry and Biology) (A\*), Mathematics (A\*), Business Studies (A)

**Experience**

July 2016  **Volunteer** in International Festival of Public Health 2016 Conference Organized by Manchester Urban Collaboration and Health (MUCH)

* Assisted in the administration that involves registration of conference presenters, distribution of conference goods and providing specific assistance requested by attendees (such as direction in the venue and city).
* Ensured that all the equipments in the conference room are in proper working order to the satisfaction of people.

December 2015- March 2016 Final Year Extended Project (Thesis): **Metal ions nanoparticles for cell labeling for imaging and therapeutic applications**

* An investigation conducted to determine cellular uptake of nanoparticles within the cell in culture.
* Cell culture with media containing the nanoparticles
* Investigated cultured outcome with Live/Dead Assay, Alamar Blue assay and Actin Staining
* Experience in using Fluorescence and Scanning Electron Microscopy

December 2014 - September 2015 **iGEM Team Manchester-Graz 2015**

* Lab team member that plans and carry out scientific investigations that includes performing standard lab techniques for **preparation, transformation and characterization of engineered bacterial plasmids**.
* Developed HPLC methods to separate compounds involved in metabolic pathway of Dopamine in engineered bacteria.
* Administrative activities include: Communicating to academics and companies for funding, maintaining file for finances, lab consumables, conference registration.
* Modeling Team member where the objective was to quantitatively determine effects of diet sources on the synthesis of Dopamine and its derivative by genetically engineered bacteria via computational method.
* spread awareness about our project and numerous neurological conditions in community fairs.
* Successfully attended **iGEM Giant Jamboree conference 2015**, Boston USA

April 2014 – Welcome Trust Centre for Cell-matrix Research : **Laboratory Internship**

* Assisted in most advanced protein characterization technique such as ultracentrifugation and column chromatography, western blots, Histology and advanced immunodetection techniques.
* Learnt about the Good Lab practice which emphasizes on the importance of maintaining a safe laboratory environment by all lab users. Further observed the critical administrative procedures required for the smooth-running of the lab.

December 2011- March 2012 The Winchester School - **Science President**

* Organized the Science week which comprises of the students running science experiments. This involved guiding the students with their experiment and ensuring all the safety procedures while conducting the experiment was followed.
* Organized the science quiz which was part of the science week.
* Assisted the teachers in recruiting other members of the science club.

July 2011 **Global Young leader Conference, USA**

* Nominated by my school to attend the conference that builds critical leadership skills and diplomacy on global context by a series of educational simulation activities
* Presented a speech as a foreign minister to the fellow delegates as part of a stimulation activity on a virtual scale.
* Actively participated in team discussions and presentation and contributed in making resolutions. This involved negotiation with other fellow delegates to ensure that the interest of the country I represent was considered in the resolution.

March 2010  **Young Entrepreneur competition**

* Successfully created and executed a business plan in the competition. My roles involved conducting market research, and interact with customer for the sale of products.

**Additional Skills**

**Information Technology**

* Proficient in the use of **Microsoft office**, that includes **word, excel** and **PowerPoint**.
* Sound Knowledge of **Image J, SPSS, Mathematica** and **MATLAB** for Image and Data analysis.

**Vital Skills**

* Language Known: **English** (Fluent), **Hindi** (Native)
* Problem Solving; Critical Thinking and Analysis; Leadership; Administration; Planning and Organization.
* Hold a Valid Driving License(Automatic Transmission) from UAE

**Achievements**

* Academic Excellence Award in Year 10 in Mathematics and Chemistry.
* Academic Excellence Award for consistent performance during Year 13.
* iGEM Manchester-Graz 2015 that achieved a gold (top) medal at **iGEM Giant Jamboree 2015 conference**

**References** - Available on Request