**Name: Parth Shah**

**A graduate student from MSLS, MAH**E

Gachibowli, My home Bhooja

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I have always been interested in cancer research, especially Brain tumors. The brain is a marvelous organ whose functioning cannot be matched by any instrument that has been created or might be created in the future. The dynamic ability to control every aspect of an individual also comes with higher susceptibility to diseases and also cancers. Overgrowth of any part of brain tissue (tumorous or hypertrophic growth) causes a mass effect on the organism’s entire system and negatively impacts one’s well-being. Effective treatment of such aggressive tumors is the only hope to restore the brain’s normal functioning and improve the life expectancy and quality of life for the person.

**Research Skills**

Worked with various instruments and machines for experimental purposes

* Manipal University: UV spectroscopy, Raman spectroscopy, colorimetry, PCR, western-blotting, DNA extraction, RNA extraction by TRIAZOL method, plasmid extraction, gel electrophoresis, pharmacological experiments (such as drug absorbance, solubility, MITT assay), glucose, protein, and lipid detection test, apoptosis detection kits(observation at KMC neurophysiology labs), toluidine staining, Ethidium bromide staining, hematoxylin, and eosin staining, gel electrophoresis, Nanomaterial preparation (nanoparticles, nanorods, and nanoplates), pharmacological experiments, etc

Staining techniques:

* NIMHANS: rat vascular perfusion surgery, sectioning of specimens using vibratome, stereotaxic surgery of rat (observation), stereo-investigator, Neurolucida, Cresyl-violet staining, Golgi staining, Haematoxylin, and eosin staining, Luxel fast blue staining
* A member of the Society of Neuro-oncology 2022 (SNO: Student membership)

**Research Experience and other relevant seminars and courses attended**

* Worked at Agrobium technologies as a Scientific research writing internship-Date: July 2020
* Completed observership in KMC cellular & molecular Neuroscience lab and learned about various epileptic models (kainic acid models), apoptosis detection kits, and developmental biology (lipid profiles: introduction) for one month (October-November 2021)
* Worked for Indian Academy of Sciences with the collaboration of Inter-University for Research and super specialty hospital under Professor K.P Mohan Kumar sir for “effects of COVID-19 on brain anatomy and symptoms related to it” -a statistics-based research
* Attempted an experimental histological procedure (self-designed) involving Golgi and CV staining procedures at NIMHANS, Neurophysiology labs
* Worked currently at NIMHANS for bachelor’s dissertation: developmental biology of the prefrontal cortex in rats, under Dr Laxmi T Rao
* Have completed tissue hypertrophic breast tissue analysis under Dr. Vani Santosh Neuro-Oncology labs, NIMHANS
* Participated in bio quiz 2019 at Bengaluru tech summit 2019
* Attended International symposium conference on Genomic instability from bench to bedside (MAHE-Erasmus MC center on Genomic instability)
* Observed and conducted anatomical studies on human Brain specimens preserved in formalin solution at MMMC under Dr. Bincy M George
* Completed an Educational course from John Hopkins University Understanding Cancer Metastasis provided by Coursera
* Completed an Educational course from John Hopkins University on prostate cancer provided by Coursera.
* Completed an Educational course from Rice university on fundamentals of immunology B cell immunity provided by Coursera.

**Education**

1. **BSc Biotechnology, Manipal school of life sciences, MAHE (Manipal academy of higher education)**

Graduation: June 2022

Current GPA(semester 6): **8.17/10**, CGPA:**8.2/10**

1. **Grade 12th (high school), DPS Hyderabad, India): Central Board of Secondary Education (CBSE), India (central board)**

**Subjects**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.no** | **Subject** | **Theory** | **Practical** | **Total** |
|  | **Biology** | **65/70** | **30/30** | **95/100** |
|  | **Chemistry** | **60/70** | **30/30** | **90/100** |
|  | **Physics** | **65/70** | **30/30** | **95/100** |

**3 ) Grade 10th (high school) from Delhi Public school with an aggregate GPA of 10.0/10.0**