

ROBERT SMITH

Post Doctoral Fellow II

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SUMMARY

Responses amongst the defined mutations of cancer patients. Using PDX as well as cell based models for this study.

CORE COMPETENCIES

Behavioral Oncology Research, Data Analysis.

PROFESSIONAL EXPERIENCE

Post Doctoral Fellow II

ABC Corporation - June 2011 – August 2014

Key Deliverables:

- Worked on the project to investigate the epigenetic regulation of neuronal functions influenced by metabolic programming.
- Explored the interaction of maternal dietary factors with post-pubertal diet transition and further its influence on brain functions.
- Investigated the epigenetic mechanism through which this interaction influences neuronal functions and sustainability for adult life challenges.
- Explored the metabolic aspect of dietary manipulations that influences the methylation pattern of specific genes and ultimately derives.
- Helped to determine, how dietary interaction across generations can influence the resistance of neurons to insults.
- Finished synthesis of 1-deoxy-1-fluorosucrose.
- Promoted mental fitness in offspring. Study on synthesis of FIAU.

Post Doctoral Fellow

ABC Corporation - 2008 – 2011

Key Deliverables:

- Worked as an independent researcher on a Project; the proposal conceptualized and formulated by self, funded by University Grants Commission (UGC), for carrying out post doctoral research.
- Performed PCR, Genomic DNA and RNA extraction and purification, sequencing, detection by Gel Documentation.
- Established MLSA scheme for a set of six housekeeping and functional genes by Touchdown PCR protocol for taxonomic resolution of ecotypes of numerous bacterial genera.
- Experience with radioisotope handling, conducted DNA-DNA hybridizations and studied metabolic fingerprinting patterns by FT-IR spectroscopy of several marine bacteria.
- Predicted the phylogenies and performed comparative studies of genomic DNA sequence alignments and networks of bacteria for elucidating their genetic diversity.

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- Assisted colleagues, trained new laboratory personnel on experiments and help in troubleshooting PCR problems and managed M.Sc. biology and graduate labs..

EDUCATION

- Doctoral in Life Sciences - (Chhatrapati Shahu Ji Maharaj University - Kanpur, Uttar Pradesh)