

Midhun K Madhu

Computational Biology Researcher

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EXPERIENCE

IISER, Bhopal — Graduate Research

December 2016 - PRESENT

On the topic “Allosteric Regulation in G protein-Coupled Receptors” under the mentorship of Dr. Rajesh K Murarka, Associate Professor, Computational biophysics and soft matter group, Indian Institute of Science Education and Research Bhopal, India.

IISER, Bhopal — MS Thesis

July 2015 - March 2016

Under the guidance of Dr. Vineet K Sharma, Associate Professor, Metabiosys Lab, Indian Institute of Science Education and Research Bhopal, India.

IIRBS, Kerala — Summer Project

May 2012 - June 2012

Under the guidance of Dr. I Ibnusaud, Director, Institute for Integrated programmes and Research in Basic Sciences (IIRBS), MG University, Kerala

EDUCATION

IISER, Bhopal — Five year BS-MS Dual Degree

August 2011 - May 2016

Major Subject: Biology

Minor Subject: Mathematics

Percentage Mark: 86.10

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Holy Cross HSS, Cherpunkal — Kerala

June 2009- March 2011

Major Subject: Science and Computer Science

Percentage Mark: 95

SKILLS

Programming:

Python (intermediate)

Perl, R, Matlab (basics)

Computer Software:

Microsoft Office, Amber, Pymol, Visual Molecular Dynamics

Techniques:

Machine learning, Molecular Dynamics Simulation, Graph and information theoretical analysis techniques

AWARDS

Qualified for UGC-CSIR NET
Junior Research Fellowship

3rd Prize In National Level
Essay Writing Competition, on
the topic ‘Healthcare’ held by
IMPRINT INDIA, MHRD

LANGUAGES

English (fluent),
Malayalam (native),
Hindi (basic)

RESEARCH PUBLICATIONS

1. Gupta, Ankit, Ahmad Ahmad, Dipesh Chothwe, Midhun K. Madhu , Shireesh Srivastava, and Vineet K. Sharma. "Genome-scale metabolic reconstruction and metabolic versatility of an obligate methanotroph. *Methylococcus capsulatus* str. Bath." *PeerJ* 7 (2019): e6685.
2. Gupta, Sudheer, Midhun K. Madhu , Ashok K. Sharma, and Vineet K. Sharma. "ProInflam: a webserver for the prediction of proinflammatory antigenicity of peptides and proteins." *Journal of translational medicine* 14, no. 1 (2016): 178.
3. Gupta, Sudheer, Ashok K. Sharma, Vibhuti Shastri, Midhun K. Madhu , and Vineet K. Sharma. "Prediction of anti-inflammatory proteins/peptides: an *in silico* approach." *Journal of translational medicine* 15, no. 1 (2017): 7.
4. Gupta, Sudheer, Parul Mittal, Midhun K. Madhu , and Vineet K. Sharma. "IL17eScan: a tool for the identification of peptides inducing IL-17 response." *Frontiers in immunology* 8 (2017): 1430.

CONFERENCES

REFEREES

Dr. Rajesh K. Murarka
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Dr. Vineet K Sharma
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Department of Biology
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