



MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH AND STUDIES, FARIDABAD

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Dr. JAYANT MAINI

Designation: Assistant Professor

Qualifications: B.Sc.(H) Botany, University of Delhi,
M.Sc. Microbiology,

PhD (Biomedical Sciences), University of Delhi

Email ID: Jayant.fet@mriu.edu.in

Teaching Experience: 10 Years

Research Experience: 4 Years



Google Scholar Profile:

<https://scholar.google.co.in/citations?hl=en&user=Bzi4XLkAAAAJ>

Research Interest : Genetics, Epigenetics and Genomics (Developmental Epigenetics, Environment-Epigenome Interactions, 3-D Chromatin Architecture in health and disease).

+ Journal Publication Details:

Epigenetics

Jain S, **Maini J**, Narang A, Maiti S, Brahmachari V. The regulatory function of dIno80 correlates with its DNA binding activity. (2020) *Gene*; Vol 732, 30 March 2020, 144368

Maini J, Ghasemi M, Yandhuri D, Thakur SS, Brahmachari V. (2017), Human PREPIK3C2B, an intronic cis-element with dual function of activation and repression, *Biochem Biophys Acta. Gene Regulatory Mechanisms*; 1860(2):196-204

Fedeli D, Montani M, Bordoni L, Galeazzi R, Nasuti C, Correia-Sá L, Domingues VF, **Maini J**, Brahmachari V, Massaccesi L, Laudadio E, Gabbianelli R. (2017), In vivo and in silico studies to identify mechanisms associated with Nurr1 modulation following early life exposure to permethrin in rats, *Neuroscience.*; 340: 411-423

Bengani H, Mendiratta S, **Maini J**, Vasanthi D, Sultana H, Ghasemi M, Ahluwalia J, Ramachandran S, Mishra RK, Brahmachari V. (2013), Identification and Validation of a Putative Polycomb Responsive Element in the Human Genome. *PLoS One.* 21; 8(6)

Genomics/NGS

Kohli S*, Gulati P*, Narang A*, **Maini J**, Shamsudheen KV, Pandey R, Scaria V, Sivasubbu S, Brahmachari V. (2021) Genome and transcriptome analysis of the mealybug *Maconellicoccus hirsutus*: Correlation with its unique phenotypes. *Genomics.* 113: 2483-2494

*Equal Contribution
Databases/Others
Singh M, Bhartiya D, Maini J , Sharma M, Singh AR, et al. (2014), The Zebrafish GenomeWiki: a crowdsourcing approach to connect the long tail for zebrafish gene annotation. Database (Oxford).
Bhartiya D, Maini J , Sharma M, Joshi P, Laddha SV, Jalali S, Patowary A, Purkanti R, Lalwani M, Singh AR, Chauhan R, Singh N, Bhardwaj A, Scaria V, Sivasubbu S. (2010); FishMap Zv8 update--a genomic regulatory map of zebrafish. Zebrafish. 7(2): 179-80
Meli R, Prasad A, Patowary A, Lalwani MK, Maini J , Sharma M, Singh AR, Kumar G, Jadhav V, Scaria V, Sivasubbu S. (2008); FishMap: a community resource for zebrafish genomics. Zebrafish. 5(2):125-30
Review Articles
Verma A*, Maini J* , Jain S, Ghasemi M, Kohli S, Brahmachari V. (2020) Epigenetic regulation and transcriptional memory in development; an example of selection facilitating prudence. Int. J. Dev. Biol. 64: 181 - 201
*Equal Contribution
Gupta S, Kumar P, Maini J , Bharadwaj M. (2019) Long Non-Coding RNAs Emerging as Potential Epigenetic Biomarkers for Tobacco and/or Alcohol-Induced Head and Neck Cancer. Journal of Cancer Genetics and Biomarkers; Vol-1 Issue 3 Pg. no.- 25
Gupta S, Kumar P, Maini J , Das BC, Bhardwaj M. (2019), PIWI-Interacting RNAs in Oral Cancer: Paradigm Shift in Prognosis and Diagnosis, J Cancer Sci Ther/Vol.11.3 086, Vol 11(3)
Gupta S, Kumar P, Maini J , Kaur H, Das BC. (2018), Epigenetic Biomarkers in Head and Neck Cancer, Journal of Cancer Genetics and Biomarkers; 1(2)
Maini J , Brahmachari V. (2015); Epigenetics of Childhood Leukemia. Cancer News. 9(1):13-16 [published by Rajiv Gandhi Cancer Institute & Research center, India]
Mendiratta S#, Jain S#, Maini J# , Brahmachari V. 2014, Pharmacoepigenomics: an interplay of epigenetic modulation of drug response and modulation of the epigenome by drugs. Curr Pharm Des.; 20(11): 1819-30.
Equal Contribution

+ Awards:

1. Invited talk at Indian National Science Academy (INSA) for **Young Scientist Award Nomination, 2019**
2. Awarded the **First prize** in the poster presentation at **Frontiers in Biomedical Research, 2014**
3. Granted **Travel Award** for SBJ & Physiome.jp & OIST Joint Winter School on Computational Modeling in Biology – Data and model sharing by SBML and *in-silico* ML, 2009, Osaka University, Japan
4. Awarded **CSIR-UGC NET JRF fellowship**, December 2008
5. Awarded **CSIR-UGC NET Lectureship**, June 2008
6. **Gold Medal** for securing highest marks in **Sc. Microbiology and Herbal medicine**. Amity University, 2008
7. **Shri Baljit Shastri Award** for the **Best Student in Human & Traditional Values**. Amity University, 2007
8. **Balaji Silver Medal** for securing the highest marks in **BSc. (Hons) Botany** in the 2nd year of graduation in South campus, University of Delhi, 2005