



**NATIONAL INSTITUTE OF MENTAL HEALTH & NEURO SCIENCES  
INSTITUTE OF NATIONAL IMPORTANCE  
BENGALURU-560029**

**APPLICATION FOR SUBMISSION OF THESIS**

**Ph.D Degree Examination of 2023**

(To be submitted along with 2 copies of printed thesis)

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Qualifying Examination (Pre-Ph.D):	Pre-Ph.D examination
Year and Month of Passing:	November, 2020.
Reg. No.	PhPsy201803
Correlated subject in the Qualifying Examination:	Constraint-based modeling, neuroscience, astrocytes, psychiatric genomics.
Date of Registration for the Ph.D Degree:	01-December-2018.
Title of Ph.D Thesis: (should be clearly written)	Constraint-based modeling of astrocyte metabolism in neuropsychiatric disorders.

<p>Name and Designation of the person Under whose Guidance the thesis has been prepared and Joint-Guide(s), if any:</p>	<p>Guide: Biju Viswanath, Additional Professor (Psychiatry), NIMHANS.</p> <p>Joint-Guide: Sanjeev Jain, Emeritus Professor (Psychiatry), NIMHANS.</p> <p>Joint-Guide: Swagatika Sahoo, INSPIRE Faculty (Chemical Engineering), IIT-Madras.</p>
<p>Whether a certificate from the Guide, under whom the Candidate is taking guidance, to the effect that the thesis is a record of research work done by the candidate during the period of study and that the thesis prepared has not formed previously the basis for the award to the candidate of any degree or diploma is enclosed:</p>	<p>Yes.</p>
<p>Enclose details of research paper published in an indexed journal</p>	<p><b>Chellappa, A.S.</b>, Sahoo, M. &amp; Sahoo, S. Gender inequality infiltrates the in silico modeling world. Nat Comput Sci 2, 346–347 (2022). <a href="https://doi.org/10.1038/s43588-022-00268-3">https://doi.org/10.1038/s43588-022-00268-3</a></p> <p>Paul, P., Iyer, S., Nadella, R.K., Nayak, R., <b>Chellappa, A.S.</b> et al. Lithium response in bipolar disorder correlates with improved cell viability of patient derived cell lines. Sci Rep 10, 7428 (2020). <a href="https://doi.org/10.1038/s41598-020-64202-1">https://doi.org/10.1038/s41598-020-64202-1</a></p> <p>Nadella, R.K., <b>Chellappa, A.</b>, Subramaniam, A.G. et al. Identification and functional characterization of two novel mutations in KCNJ10 and PI4KB in SeSAME syndrome without electrolyte imbalance. Hum Genomics 13, 53 (2019). <a href="https://doi.org/10.1186/s40246-019-0236-0">https://doi.org/10.1186/s40246-019-0236-0</a></p> <p><b>Chellappa, S.A.</b>, Pathak, A.K., Sinha, P. et al. Meta-analysis of genomic variants and gene expression data in schizophrenia suggests the potential need for adjunctive therapeutic interventions for neuropsychiatric disorders. J Genet 98, 60 (2019). <a href="https://doi.org/10.1007/s12041-019-1101-6">https://doi.org/10.1007/s12041-019-1101-6</a></p>

Fees paid/Receipt No. & Date:	Rs.10000/- DUL5472732 02-September-2023
<p>I declare that the thesis I am presenting entitled <b><i>Constraint-based modeling of astrocyte metabolism in neuropsychiatric disorders</i></b> is prepared by me under guidance of <b>Dr. Biju Viswanath</b>, and has not formed the basis for the award of any Degree or Diploma to me previously.</p> <p>Date: ..... Signature of Applicant</p>	
Signature of the Guide	
Signature of the Head of Department, with attendance and progress of the candidate ( <b><i>with seal</i></b> )	