



National Institute of Mental Health and Neuro Sciences (NIMHANS)

(An Institute of National Importance)

BANGALORE 560029

Department of Psychiatry

CERTIFICATE

This is to certify that the thesis titled “**Constraint-based modeling of astrocyte metabolism in neuropsychiatric disorders**” submitted in fulfillment of the requirement for the award of the degree of Doctor of Philosophy (Ph.D.) in Psychiatry submitted to National Institute of Mental Health and Neuro Sciences (NIMHANS), Bangalore, is a record of bonafide original research work carried out by **Anirudh S. Chellappa**, under our guidance and supervision and that, no part of this has been submitted for award of any other degree or diploma or fellowships or other similar titles to any institute or university.

Guide	Biju Viswanath, Additional Professor (Psychiatry), NIMHANS	
Joint guide	Sanjeev Jain, Emeritus Professor (Psychiatry), NIMHANS	
Joint guide	Swagatika Sahoo, INSPIRE Faculty (Chemical Engineering), IIT-Madras	
Head of Department	Y.C. Janardhan Reddy, Professor (Psychiatry), NIMHANS	