PROFILE

Dr.Anbupalam Thalamuthu

Career Summary: Anbupalam Thalamuthu, MSc., MPhil., PhD is a statistician with several years of experience in statistical genetics and epidemiology. He has undertaken several large scale genetic, epigenetic, transcriptomic and genomic data association analyses with various phenotypes. He provides analytical and statistical support for most of the data generated from the Older Australian Twins Study (OATS), as it involves complex genetic modelling for twins using structural equation modelling. Also, he contributes to the statistical analysis of several genetic epidemiology projects based on two other longitudinal community studies investigating the genetics of ageing: the Sydney Memory and Ageing Study (MAS) and the Sydney Centenarian Study (SCS). In addition, he closely collaborates with the Neuroimaging, Proteomics and Epidemiology research groups within our Centre on analytical strategies and analyses. The genetics group in CHeBA is part of is part of many international genetic and epidemiological consortia such as CHARGE (Cohorts for Heart and Aging Research in Genomic Epidemiology), ENIGMA (Enhancing Neuro Imaging Genetics through Meta-Analysis), BRIDGET (Brain Imaging, cognition, Dementia and next generation Genomics: a Transdisciplinary approach to search for risk and protective factors of neurodegenerative disease) and COSMIC (Cohort Studies of Memory in an International Consortium). He provides the statistical support for most of these consortia projects.

Current Appointment: Senior Research Fellow and Statistical geneticist at the Centre for Healthy Brain Ageing (CHeBA), School of Psychiatry, UNSW Medicine, University of New South Wales.

Research Metrics

Thalamuthu has co-authored 113 peer reviewed journal articles with a h-index of 37 and i10 index of 69 and over 7014 citations (Google Scholar, 13th Feb 2021). He has published over 65 articles in last 5 years. His ORCID ID is: ORCiD: 0000-0002-7114-1260. Email id: <anbupalam@gmail.com>

Research Support: Thalamuthu involved in the following grants:

1. Sachdev, PS; Mather, K; Thalamuthu, A; Armstrong, N; Brodaty, H**.** A European DNA bank for deciphering the missing heritability of Alzheimer's disease (EADB). NHMRC (Role: co-investigator)
2. Sachdev, PS; Mather, K; Thalamuthu, A; Wen, W; Armstrong, N. BRIDGET: BRain imaging, cognition, Dementia and next generation GEomics: a Transdisciplinary approach to search for risk and protective factors of neurodegenerative disease. NHMRC/NIH. (Role: co-investigator).
3. Sachdev, P., Brodaty, H., Andrews G. Risk factors, early diagnosis, and effective interventions for neurocognitive disorders. NHMRC (Role: Senior Biostatistician).
4. Sachdev P, Ganguli M, Richie K et al. COSMIC: An international consortium to identify risk and protective factors and biomarkers of cognitive ageing and dementia in diverse ethno-racial groups. NIA/NIH (USA).(Role: Senior Biostatistician).
5. Sachdev P, et al. Understanding cognitive disorders in relation to cerebrovascular disease in the international STROKOG Consortium. NHMRC Project grant. (Role: Associate Investigator).

Contribution to medical research

Dr.Thalamuthu's current primary interest is genetic epidemiology. He has written several methodological articles on genetic association studies. He has written methods for joint association of rare and common variants for next generation sequencing data. Some of his works include statistical

method for genes and pathways, genetic interaction, joint test for genotypes and haplotypes. He has contributed to number of high impact genetic association studies which were published in New England Journal of Medicine, Science, Nature, PLOS Genetics and Human Molecular Genetics.

Supervision and Mentoring

Thalamuthu is a joint and secondary supervisor to five current PhD students and one completed PhD student. In his previous appointment, Thalamuthu has trained several students from the National University of Singapore and Nanyang Technological University on genetic data analysis projects. He has also trained four postdoctoral fellows at the Genome Institute of Singapore.

Employment History

	Employer	Position	Start and Finish Dates
1.	University New South Wales, Sydney	Senior Research Fellow	18/10/2012 – Current
2.	Genome Institute of Singapore, Singapore	Senior Research Scientist	25/01/2007 – 17/10/2012
3.	University of Pittsburgh, Pittsburgh, USA	Postdoctoral Fellow	01/10/2003 – 30/06/2006
4.	University of Madras, Chennai, India	Lecturer	07/12/2000 – 18/01/2007
5.	Presidency College, Chennai, India	Lecturer	14/10/1998 – 07/12/2000
6.	University of Madras, Chennai, India	Technical Officer	11/07/1996 – 13/10/1998
7.	Sindhi College, Chennai, India	Lecturer	01/07/1994 – 29/02/1996

Academic Qualifications:

	Institution	Qualification	Date Awarded:
1.	Department of Statistics, University of Madras, Chennai, India.	PhD	18/04/1996
2.	Department of Statistics, University of Madras, Chennai, India.	M.Phil	12/10/1988
3.	Department of Statistics, University of Madras, Chennai, India.	M.Sc.	30/04/1987
4.	PSG college of arts and science, Bharathiar University, Coimbatore, India	B.Sc.	31/05/1985

Awards, Fellowships and Memberships:

	Title/Name:	Date awarded:
1.	Research Fellowship awarded by the University Grants Commission (UGC), Government of India for research in Statistics (October 1989 – October 1994)	16/10/1991
2.	NIH sponsored India-US Research Training program in Genetics, University of Pittsburgh, USA (October 2003 to June 2006) – Postdoctoral Fellowship	01/10/2003
3.	Advanced in-country Research Training Project support, which is a continuation of India-US training research fellowship, University of Pittsburgh, USA (June 2006 – June 2008)	30/06/2006