

CURRICULUM VITAE

Name:

Madhav Thambisetty

Business Contact Information:

Senior Investigator and Chief
Clinical and Translational Neuroscience Section
Laboratory of Behavioral Neuroscience, National Institute on Aging (NIA)
National Institutes of Health (NIH)

Web of Science Researcher ID:

P-5720-2018

Education:

- Fellow and Clinical Associate in Cognitive Neurology and Sleep Disorders, Emory University School of Medicine, Atlanta: 2002-2004
- Resident in Neurology: Emory University School of Medicine, Atlanta: 1999- 2002
- Resident in Internal Medicine: Emory University School of Medicine, Atlanta: 1998-1999
- DPhil (Doctor of Philosophy) in Clinical Pharmacology ('Studies on the neurotrophic effects of chronic electroconvulsive shock and 5-HT in the adult rat brain') (thesis supervisor: Prof. David Grahame-Smith) University of Oxford, Green College: 1995-1999
- Bachelor of Medicine and Surgery (MBBS) Government Medical College, University of Calicut, India: 1988-1994

Board Certification:

- Board certification in Neurology: Diplomate of the American Board of Psychiatry and Neurology (ABPN), July 2004, Re-certified in 2015
- Maryland Board of Physicians, D68423; 2009-current
- Specialist registration in Neurology, General Medical Council, UK; 2008
- Board certification in Neurology: American Board of Psychiatry and Neurology (ABPN); 2004; re-certified 2015
- Certified, Educational Commission for Foreign Medical Graduates (ECFMG), USA; 1998

Brief Chronology of Employment:

- Investigator and Chief, Unit of Clinical and Translational Neuroscience, Laboratory of Behavioral Neuroscience, National Institute on Aging (NIA), National Institutes of Health (NIH): (August 2012-May 2019)
- Adjunct Professor of Neurology, Department of Neurology, Johns Hopkins University School of Medicine, Baltimore: (since July 2018)

- Staff Clinician, Clinical Research Branch, National Institute on Aging (NIA), National Institutes of Health (NIH): (November 2007-August 2012)
- Alzheimer's Society Clinical Research Fellow, Kings College London (KCL), Institute of Psychiatry, London, United Kingdom (2004-2007)

Societies and Professional Memberships:

- American Neurological Association (ANA); 2011: Elected member
- American Academy of Neurology; 1999-2004

Honors and Other Special Scientific Recognition:

- NIH Director's seminar series speaker; 2020
- TS Srinivasan Visiting Chair in Clinical Neuroscience, National Institute of Mental Health and Neurosciences (NIMHANS), India
- MV Arunachalam Endowment Oration award for contributions to clinical neurosciences, 2017
- Norman Geschwind Prize for outstanding achievements in Behavioral Neurology Research, American Academy of Neurology; 2016
- National Institute on Aging, Director's Merit Award for outstanding contribution to translational research in aging, public outreach and scientific leadership; 2014
- National Institute on Aging, Director's Merit Award for outstanding contribution to translational clinical research in aging; 2011
- National Institute on Aging (Office of the Scientific Director) On-the-Spot award for outstanding accomplishment in scientific research; 2010
- Emanuel Lee Medical Research Fellowship, St. Cross College, University of Oxford, United Kingdom; 2004-2007
- Felix Scholarship to the University of Oxford to read for the DPhil (Doctor of Philosophy) in Clinical Pharmacology; 1995-1999
- Rajiv Gandhi Summer Research Fellowship; Molecular Biophysics Unit, Indian Institute of Science; 1995

Grants/Funded Research:

- Studying blood chaperone proteins as tools for early diagnosis of Alzheimer's disease Posey Family Foundation \$18,000 PI: Thambisetty M; 2016-2018
- Studying blood chaperone proteins as tools for early diagnosis of Alzheimer's disease Posey Family Foundation \$15,000 PI: Thambisetty M; 2018-2020
- Studying blood chaperone proteins as tools for early diagnosis of Alzheimer's disease Posey Family Foundation \$18,000 PI: Thambisetty M; 2020-2022

Projects supported by NIA-IRP Special AD funds.

These are projects competitively reviewed by the NIA SD. They are subsequently presented to the Board of Scientific Counselors (BSC) and the NIA Planning group (PG). The funding stream is from congressional monies dedicated to support Alzheimer's disease research.

- September 2015: Predictive Blood and Cerebrospinal Fluid Metabolomic Markers in AD; \$358,440.00 Role: PI

- September 2017: Aptamer-based proteomic profiling of blood and brain tissue in Alzheimer's disease; \$ 783,000.00 Role: Co-PI with Dr. Luigi Ferrucci
- September 2019: New cures from old medicines: targeting abnormal metabolism in Alzheimer's disease through drug repurposing; \$1490918.00 Role: PI
- September 2021: Preclinical Validation of Emerging Novel Treatments for Alzheimer's Disease (PREVENT-AD) study; \$2,25,0000.00 Role: PI

Mentoring Activities:

Pre-doctoral Advisees/Mentees

- Primary Mentor: Mr. Andrew Williamson; post-baccalaureate research fellow in the intramural research program, NIA, NIH; 2020-current
- Primary Mentor: Mr. Jackson Roberts; post-baccalaureate research fellow in the intramural research program, NIA, NIH; 2019-2020
- Primary Mentor: Ms. Uma Mahajan; post-baccalaureate research fellow in the intramural research program, NIA, NIH; 2018-2019; current Position: medical student at Case Western Reserve University
- Primary Mentor: Ms. Sahba Seddighi; post-baccalaureate research fellow in the intramural research program, NIA, NIH; 2016-2017; Gates Cambridge Scholar and MPhil student in Epidemiology, University of Cambridge, United Kingdom. Current Position: MSTP MD/PhD program, Johns Hopkins University School of Medicine, class of 2018
- Primary Mentor: Ms. Brittany Simpson; pre-doctoral research fellow in the intramural research program, NIA, NIH; 2014-2015 current Position: Resident in Pediatrics and Human Genetics, Cincinnati Children's Hospital Medical Center, Cincinnati
- Co-Mentor: Ms. Sarah Westwood, PhD Student, Institute of Psychiatry, King's College, London (Co-Supervisor) Thesis: Blood-based biomarkers of disease pathology in Alzheimer's disease; 2010-2013 Current Position: Postdoctoral researcher, Translational Neuroscience and Dementia Research Group, University of Oxford

Post-doctoral Advisees/Mentees

- Primary Mentor: Anjali Lathwal, PhD; post-doctoral research fellow in the intramural research program, NIA, NIH; 2021-current
- Primary Mentor: Vijay Varma, PhD; post-doctoral research fellow in the intramural research program, NIA, NIH; 2015-2019
- Primary Mentor: Alexandra Kueider, PhD; post-doctoral research fellow in the intramural research program, NIA, NIH; 2014-2017 Current Position: Research Associate, Department of Psychiatry, Duke University
- Primary Mentor: Yi-Fang Chuang, MD, PhD; post-doctoral research fellow in the intramural research program, NIA, NIH; 2013-2014 Current Position: Assistant Professor, Institute of Public Health, National Yang-Ming University, Taipei, Taiwan
- Primary Mentor: Donald Lyall, PhD; post-doctoral research fellow in the intramural research program, NIA, NIH; 2013-2014 Current Position: Lecturer in Public Health, University of Glasgow, United Kingdom

Plenary or Named Lectures:

- From mechanisms to medicines: realizing the DREAM of an Alzheimer's cure, NIH Director's seminar series, September 2020

- From metabolomics to medicines: realizing the DREAM of an Alzheimer's cure, 9th Nantz National Alzheimer's Conference, Houston, February 2020
- The New Neurobiology of Dementia. XXIV World Congress of Neurology, Dubai, United Arab Emirates, October 2019
- Cerebrospinal fluid, Blood and Imaging Biomarkers of Alzheimer's Disease: Applications in Research and Clinical Practice. International Neurology Update, Kerala Association of Neurologists, Kochi, India, July 2019
- Understanding Alzheimer's Disease Pathogenesis: from Mechanisms to Medicines. Second International Conference, Promoting Healthy Brain Aging and Preventing Dementia: Research and Translation, Banff, Alberta, Canada, June 2018
- 15th MV Arunachalam Endowment Lecture, Chennai. Alzheimer's disease: from Mechanisms to Medicines; 2017
- Plenary speaker, 8th International workshop on HIV and Aging, New York, OMICS in the context of aging and Alzheimer's disease; 2017
- Brain and blood metabolite signatures of pathology and progression in Alzheimer's disease. Experimental Biology, Chicago, April 2017
- Plenary speaker, 10th International Congress of Asian Society Against Dementia (ASAD), Hangzhou, China. Risks, mechanisms and biomarkers: building an integrated approach to Alzheimer's disease; 2016
- Norman Geschwind Prize lecture in Behavioral Neurology, American Academy of Neurology, Vancouver. Obesity and obesity related behaviors: seeking a common neurobiology; 2016
- Plenary speaker, 3rd International Conference on Computational Biomedicine, University of Florida, Gainesville. Seeking biomarkers and understanding mechanisms: building an integrated approach to Alzheimer's disease; 2016
- Blood and Brain Metabolomics- Seeking Biomarkers and Understanding Mechanisms in Alzheimer's disease. Grand Rounds, Division of Geriatrics and Gerontology, University of Wisconsin School of Medicine, April 2016.
- Blood and Brain Metabolomics in Alzheimer's disease: Seeking Biomarkers and Understanding Mechanisms. Keio University symposium on Successful Brain Aging, Keio University, Tokyo, March 2016.
- The Acute Phase Response Protein Alpha2 Macroglobulin Predicts Incident Alzheimer's disease and Responds to Neuronal Injury through RCAN1. Campus Alberta Neuroscience International Conference on Promoting Healthy Brain Aging and Preventing Dementia: Research and Translation, May 2016
- Plenary speaker, 6th International meeting on HIV and aging. Washington, DC, October 2015. Insulin resistance, adiposity and risk for Alzheimer's disease; 2015
- Seeking Biomarkers and Understanding Mechanisms: Building an Integrated Approach to Risk in Alzheimer's Disease. 39th Annual Winter Meeting of The Toxicology Forum, Washington, DC, February 2015
- Brain imaging, risk variants and plasma proteomics: seeking biomarkers and understanding mechanisms in Alzheimer's disease. 8th Annual Meeting of the Asian Society Against Dementia, Colombo, Sri Lanka, November 2014
- Adiposity and Insulin Resistance in Alzheimer's Disease: When State Meets Trait. 8th Annual Meeting of the Asian Society Against Dementia, Colombo, Sri Lanka, November 2014
- The entorhinal cortex-hippocampal system is an early target of clusterin-related neurodegeneration in Alzheimer's disease. Co-chair; Featured Research Session on Clusterin: from Molecule to Man, International Conference on Alzheimer's Disease and Related

Disorders, Copenhagen, 2014

- Insulin resistance and adiposity in Alzheimer's disease: when state meets trait. Johns Hopkins Department of Neurology, Grand Rounds, May 2014
- Insulin Resistance, Adiposity and Risk for Alzheimer's disease. The Johns Hopkins ADRC Annual Conference on Aging and Dementia, June 2014
- APOE and partners in the post GWAS era: discovering biomarkers and understanding mechanisms in Alzheimer's Disease. Fourth annual symposium on ApoE, ApoE Receptors and Neurodegeneration. Georgetown University, June 2013
- Brain imaging, risk variants and plasma proteomics: seeking biomarkers and understanding mechanisms in Alzheimer's disease. Douglas Mental Health University Institute – Research Centre. McGill University, Montreal, March 2013
- Alzheimer's disease: seeking biomarkers and understanding mechanisms. NIH Clinical Center Grand Rounds, Bethesda 2013
- Is it memory loss or Alzheimer's disease? Learn the facts. Medicine for the Public lecture series. Suburban Hospital, Washington, DC 2012
- Brain imaging, risk variants and plasma proteomics: seeking biomarkers and understanding mechanisms in Alzheimer's disease. New York University Center for Brain Health, New York, December 2012
- Keynote speaker, Advisory Committee on Radioligands for Amyloid Imaging in Alzheimer's disease; Food and Drug Administration (FDA), Clinical features, Diagnosis and Management of Alzheimer's disease; 2011
- President's Plenary session; International College of Geriatric Psych neuropharmacology, University of California, Irvine, Neuroimaging and Genetic Findings in Alzheimer's Disease from the Baltimore Longitudinal Study of Aging; 2011
- Neuroimaging guided proteomic discovery of blood biomarkers for Alzheimer's disease. Institute of Psychiatry, Kings College, London, May 2011
- Plenary speaker, 6th Annual Update on the Treatment of Alzheimer's and Related Disorders. The Johns Hopkins Alzheimer's Disease Research Center, The Role of Emerging Biotechnologies in Dementia Care; 2010
- Plenary speaker and faculty; The Role of Emerging Biotechnologies in Dementia Care. 16th Annual CME Update on the Treatment of Alzheimer's and Related Disorders. The Johns Hopkins Alzheimer's Disease Research Center; 2010
- Plenary speaker; International College of Geriatric Psych neuropharmacology, Johns Hopkins University School of Medicine Alzheimer's disease: New Frontiers in Biomarkers and Therapeutics; 2009
- Novel Approaches to Peripheral Biomarker Discovery in Alzheimer's disease. Interdisciplinary Program in Neuroscience, Georgetown University, November 2009
- Clinical features, Diagnosis and Management of Alzheimer's disease. External expert speaker; Advisory Committee on Radioligands for Amyloid Imaging in Alzheimer's disease; Food and Drug Administration (FDA), October 2008
- Proteome and Neuroimaging-based Plasma Biomarkers for Alzheimer's disease: Insights into Vascular Mechanisms of Pathogenesis. Johns Hopkins Alzheimer's Disease Research Center, Annual Dementia Retreat, Baltimore, May 2008
- Proteomic and Neuroimaging Approaches to Peripheral Biomarkers in Alzheimer's disease. American College of Neuropsychopharmacology, Florida, 2007
- Novel Approaches to Peripheral Biomarkers in Alzheimer's Disease. National Institute on Aging (NIA), National Institutes of Health (NIH, Baltimore, August 2006
- The Proteomics of Alzheimer's Disease. National Neuroscience Institute, Singapore General Hospital, 8th March 2006

- A Novel Approach to Peripheral Biomarkers in Alzheimer's Disease. Department of Biochemistry, National University of Singapore, March 2006
- Proteomic Approaches to Early Diagnosis of Alzheimer's Disease. Neurocal-2005-Neuroscience Society of Calicut Medical College, India, May 2005
- Genetic Testing and Counselling in Dementia. Luigi Amaducci Teaching Course in Dementia-European Federation of Neurological Societies (EFNS), Athens, Greece, September 2005
- Lecturer, MSc course in Neuroscience, Kings College, London, U.K.; 2004-2007

Professional Activities:

- Peripheral and Central Nervous System (PCNS) advisory committee evaluating Biologics License Application (BLA) 761178 for aducanumab solution for intravenous infusion, submitted by Biogen Inc., for the treatment of Alzheimer's disease; 2020
- Vice Chair, Board of Trustees, McKnight Brain Research Foundation, 2019-current
- NIA IRP Search Committee, tenure-track investigators and staff scientist recruitment, 2020
- NIDA IRP Search Committee, tenure-track investigator recruitment, 2020
- Reviewer, NIA-NIEHS Joint fellowship program; 2018
- NIH Study section on 'Interdisciplinary research to understand the complex biology of resilience to Alzheimer's disease risk (RO1); 2017
- NIA IRP Search Committee, Staff Clinician, Clinical Research Core; 2017
- NIA IRP Search Committee, Staff Scientist Facility Head, LGG Computational Biology Core; 2017
- National Cancer Institute, Neuro-oncology Branch, Search Committee, Tenure-Eligible Principal Investigator; 2016
- NIA IRP Laboratory specialist promotion committee; 2014-2016
- NIH Earl Stadtman Investigator search committee (Systems Biology); 2013-current
- NIA IRP Search Committee, Staff Scientist, Translational Gerontology Branch; 2013
- PhD Thesis Examiner; University of New South Wales, Australia. The roles of sirtuins and polyphenols in brain ageing and neurodegeneration, Tharushi Jayasena, 2016
- Member's chair, American Neurological Association (ANA); Interactive Lunch Workshop Taskforce. Develop and organize workshops on topics of their expertise at the annual ANA meeting; 2012-2015
- Peripheral and Central Nervous System (PCNS) advisory committee evaluating new drug application (NDA) 202-008, florbetapir F-18 injection, sponsored by Avid Radiopharmaceuticals, Inc., proposed for use in positron emission tomography (PET) imaging of β -amyloid (beta-amyloid) aggregates in the brain to help rule out Alzheimer's disease; 2011
- OMICS in the context of aging and Alzheimer's disease, 8th International workshop on HIV and Aging, New York, NY; October 2017
- Co-chair; Featured Research Session on Clusterin: from Molecule to Man, International Conference on Alzheimer's Disease and Related Disorders, Copenhagen, Denmark; July 2014

Adhoc Reviewer:

JAMA

NEJM

Neurobiology of Aging

Biological Psychiatry
 Journal of Alzheimer's Disease
 PLOS ONE
 PLOS Medicine
 Alzheimer's and Dementia
 Neurology
 Neuroimage
 CNS Drugs

Professional experience:

- One weekly outpatient clinic dedicated to care of patients referred to the Johns Hopkins Bayview Memory and Alzheimer's Treatment Center: 2009-current. This is an approved NIH official duty activity.
- Responsible clinician for non-autopsy research participants followed in the Baltimore Longitudinal Study of Aging (BLSA); 2012-current
- Principal Investigator; Resveratrol and Cardiovascular Health in the Elderly: REACHE Trial ([13-AG-0078](#)), NIA intramural research program; 2018-2021
- Teaching faculty to residents in Medicine/Geriatric Medicine rotating through the Memory and Alzheimer's Treatment Center, Johns Hopkins Bayview Medical Center, Johns Hopkins University School of Medicine; 2009-current
- Co-supervisor: Longitudinal Blood Based Biomarkers of Alzheimer's disease Pathology in Health Elderly Individuals; PhD studentship, Institute of Psychiatry, King's College London; 2010-2013
- Faculty: Aging and Age-related Cognitive Disorders training course, Johns Hopkins University School of Medicine; 2011-current
- Lecturer, MSc course in Neuroscience, Kings College, London, U.K.; 2004-2007
- Faculty, training program in cognitive screening for dementia in India; sponsored by the British Academy and in collaboration with the Oxford Project to Investigate Memory and Aging (OPTIMA); 2006
- Faculty, Luigi Amaducci Teaching Course in Dementia-European Federation of Neurological Societies (EFNS), Athens, Greece; 2005

Conference organization

- Co-convener, NIA workshop; 'Towards interventions for healthy aging: closing the translational gap; October 2021
- Organizing committee, 11th International workshop on HIV and Aging, New York, NY; October 2020
- Organizing committee, 10th International workshop on HIV and Aging, New York, NY; October 2019
- Organizing committee, 9th International workshop on HIV and Aging, New York, NY; October 2018
- Organizing committee, 8th International workshop on HIV and Aging, New York, NY; October 2017

Service on Advisory Boards:

Associate Editor; Journal of Alzheimer's Disease; 2011-2012
 Associate Editor; Journal of Alzheimer's Disease; 2018-2020
 Associate Editor; Journal of Alzheimer's Disease; 2020-2022

BIBLIOGRAPHY

Madhav TR and Madhav Thambisetty denote the same author

1. **Madhav TR**, Vatsala S, Ramakrishna T Ramesh J, Easwaran KR. Preservation of native conformation during aluminium-induced aggregation of tau protein. NeuroReport. 7(5): 1072-6, (1996) PMID: pending
2. Ramakrishna T, Vatsala S, **Madhav TR**, Sreekumaran E, Ramesh, J, Easwaran, KRK. Conformational Change in β - amyloid Peptide (1-40) with Aluminium: Reversal by Borate. Alzheimer's Research. 3: 223-226, (1997) PMID: pending
3. Ramakrishna T, Vatsala S, Shobi V, Sreekumaran E, **Madhav TR**, Ramesh, J, Easwaran, KRK. Betaine reverses toxic effects of aluminium: Implications in Alzheimer's disease (AD) and AD-like pathology. Current Science. 75 (11): 1153-1156, (1998) PMID: pending
4. Ramesh J, **Madhav TR**, Vatsala S Ramakrishna T, Easwaran KRK, Guillard O, Deloncle R. Interaction of A beta peptide (1-40) with amino acid aluminium complexes: relevance to Alzheimer's disease. Alzheimer's Reports. 2 (1): 31-35, (1999) PMID: pending
5. Zetterström TS, Pei Q, **Madhav TR**, Coppel AL, Lewis L, Grahame-Smith DG. Manipulations of brain 5-HT levels affect gene expression for BDNF in rat brain. Neuropharmacology. 38 (7): 1063-1073, (1999) PMID: pending
6. **Madhav TR**, Pei Q, Grahame-Smith DG, Zetterström TS. Repeated electroconvulsive shock promotes the sprouting of serotonergic axons in the lesioned rat hippocampus. Neuroscience. 97 (4): 677-683, (2000) PMID: pending
7. **Madhav TR**, Pei Q, Zetterström TS. Serotonergic cells of the rat raphe nuclei express mRNA of tyrosine kinase B (trkB), the high-affinity receptor for brain derived neurotrophic factor (BDNF). Brain Research. Molecular Brain Research. 93 (1): 56-63, (2001) PMID: pending
8. **Thambisetty M**, Scherzer CR, Yu Z Lennon VA, Newman NJ. Paraneoplastic optic neuropathy and cerebellar ataxia with small cell carcinoma of the lung. Journal of Neuro-Ophthalmology. 21(3): 164-167, (2001) PMID:11725180
9. **Thambisetty M**, Newman NJ, Glass JD, Frankel MR. A Practical approach to the diagnosis and management of MELAS: case report and review. The Neurologist. 8(5): 302-312, (2002) PMID:12803677

10. **Thambisetty M**, Biousse V, Newman NJ. Hypertensive brainstem encephalopathy: clinical and radiographic features. Journal of the Neurological Sciences. 208 (1-2): 93-99, (2003) PMID: pending
11. Sreekumaran E, Ramakrishna T, **Madhav TR**, Anandh D, Prabhu BM, Sulekha S, Bindu PN, Raju TR. Loss of dendritic connectivity in CA1, CA2 and CA3 neurons in hippocampus in rat under aluminum toxicity: antidotal effect of pyridoxine. Brain Research Bulletin. 59(6): 421-427, (2003) PMID: pending
12. Hye A, Lynham S, **Thambisetty M**, Causevic M, Campbell J, Byers HL, Hooper C, Rijdsdijk F, Tabrizi SJ, Banner S, Shaw CE, Foy C, Poppe M, Archer N, Hamilton G, Powell J, Brown RG, Sham P, Ward M, Lovestone S. Proteome-based plasma biomarkers for Alzheimer's disease. Brain. 68:229-232, (2006) PMID: pending
13. **Thambisetty M**, Biousse V, Lavine PJ, Newman NJ, Biousse V. Fulminant idiopathic intracranial hypertension. Neurology. 68:229-232, (2007) PMID:17224579
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16. **Thambisetty M**, A Hye, C Foy, E Daly, Glover A, Cooper A, Simmons A, Murphy D, Lovestone S. Proteome-based identification of plasma proteins associated with hippocampal metabolism in early Alzheimer's disease. Journal of Neurology. 255(11):1712-20, (2008) PMID: pending
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18. **Thambisetty M**, Beason-Held L, An, Y, Kraut MA, Resnick SM. APOE ε4 genotype and longitudinal changes in regional cerebral blood flow during normal aging. Archives of Neurology. 67(1): 93-98, (2010) PMID: PMC2856443

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21. **Thambisetty M**, Tripaldi R, Riddoch-Contreras J, Hye A, An Y, Campbell J, Sojkova J, Kinsey A, Lynham S, Zhou Y, Ferrucci L, Wong DF, Lovestone S, Resnick SM. Proteome-based plasma markers of brain amyloid beta deposition in non-demented older individuals. Journal of Alzheimer's Disease. 22(4):1099-109, (2010) PMID: PMC3125970
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23. **Thambisetty M**, An Y, Kinsey A, Koka D, Saleem M, Güntert A, Kraut M, Ferrucci L, Davatzikos C, Lovestone S, Resnick SM. Plasma clusterin concentration is associated with longitudinal brain atrophy in mild cognitive impairment. Neuroimage. 59(1):212-7, (2012) PMID: PMC3425349
24. **Thambisetty M**, Gallardo KA, Liow JS, Beason-Held LL, Umhau JC, Bhattacharjee AK, Der M, Herscovitch P, Rapoport JL, Rapoport SI. The utility of ¹¹C-arachidonate PET to study in vivo dopaminergic neurotransmission in humans. Journal of Cerebral Blood Flow and Metabolism. 32(4):676-84, (2012) PMID: PMC3318145
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immunoreactivity associated with Alzheimer disease pathologic changes. J Neuropathol Exp Neurol. 72(11):1009-15 (2013) PMID: PMC4037931

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