

CURRICULUM VITAE

Ian James Martins

Dr. Ian James Martins is an Editor/Reviewer for Open Access Pub/MDPI journals, Scientific Reports (Nature) and various other international journals. Advisory Board Member for Photon Journal. Fellow of International Agency for Standards and Ratings (IASR)

<https://sites.google.com/site/internationalindexing/advisory-board>

Conferred with the RICHARD KUHN RESEARCH AWARD-2015 ENDOCRINOLOGY AND METABOLISM.

International Press Release July 2020

[Dr. Ian James Martins DSc \(Honoris Causa\) Doctrin De Science Award Honoris Causa](#)

International Press Release September 2019

[World's Famous Scientist Dr. Ian James Martins from Australia conferred with Honorary Degree of Doctor of Science for Outstanding Scientific Contribution in Nutrition. Dr. Ian Martins from Australia conferred with Honorary Degree of Doctor of Medicine for Outstanding Scientific Contribution in Diabetes\]. \(Honoris causa\)](#)

Top Peer Reviewer 2019, Global Peer Review Awards, PUBLONS, RANKING TOP 1% in the field 22 Essential Science Indicators research fields. Chief Editor for International Journal of Diabetes Research (2014-2020), [Research and Reviews: Neuroscience](#) (2016-2020), Journal of Diabetes and Clinical Studies (2017-2020), Advancement in Case Studies (2020-2023), Novel Techniques in Nutrition and Food Sciences (2020-2023), Global Journal of Endocrinology and Metabolism ((2020-2023), Interventions in Obesity and Metabolism (2020-2023), Journal of Spine and Neuroscience, Journal of Metabolic Syndrome and Journal of Diabetes, Obesity and Metabolism (2020-2022). BIT Member (BIT Congress. Inc) with an *h-index* of 132, Google Scholar (32), ResearchGate STATs (33), Scopus Author ID: 7103152779/Mendeley STATS (22), UWA Research Repository (18), Semantic Scholar (26), Publons (1). Scientist for The Science Advisory Board (USA) and an Academic with Academia.edu (543 Public Mentions). Frontiers in Genetics (5251 views, 4871 downloads, 1403 citations) places Ian James Martins outputs to be > 99% of all Loop authors. Dimensions (1533 citations) The citations past 27 years have accumulated to >15,474. [Ian James Martins - Semantic Scholar Profile](#) <https://www.semanticscholar.org/author/Ian-James-Martins/5258067>.

RESEARCHGATE ANALYSIS: [Ian J Martins | Ph D | Centre of Excellence for Alzheimer's Disease](#) https://www.researchgate.net/profile/Ian_Martins2 under Ian James Martins' name places publication Research Interest (2008) with an RG score (> 97.5%) of international SCIENTISTS. **ORCID CONNECTING**

RESEARCHER:

[Editorial](#)

[Team](#)

www.macrothink.org/journal/index.php/jfs/about/editorialTeamBio/13511 Editorial Team. **Ian James Martins**. Mail · <http://orcid.org/0000-0002-2390-1501>. Edith Cowan University, Australia. **Research Online** lists 43 ECU publications that are under Global analysis from Ian James Martins. Prestigious Recognition of Lifetime Membership by International Agency for Standards and Ratings as Fellow for Diabetes, Medical Science (Nutrition). Winner (World Academic Championship -2017) in Diabetes and Medical Science (Nutrition). 135 International Certificates from various international conferences, journals and congresses have been received in relation to anti-aging, health and cardiovascular disease. Keynote addresses at, Biomedicine 2018 (Osaka, Japan), Global Experts Meeting on Diabetes, Hypertension, Metabolic Syndrome 2018 (Melbourne, Australia), Immunology World 2018 (Amsterdam, Netherlands), Laboratory Medicine 2018 (Berlin, Germany), Innovate Pharma 2017 (Sydney, Australia), Innovate Neurology 2017(Sydney, Australia) World Diabetes and Endocrinology Summit-2017 (Dubai), Pharmacology and Ethnopharmacology 2016 (Chicago, USA) and AGHC 2016 (1st Plenary Speaker, Kaohsiung, Taiwan). Chair/Co-chair Sessions on Laboratory management, Cytogenetics, Clinical Microbiology, Diagnostic Laboratory Medicine etc, 13th Interantional Conference on Laboratory Medicine

and Pathology, Berlin, Germany, June 25-26, 2018, Chairing Sessions on Vaccinology, Immunopathology, Immunotherapy, Immune Proteomics, Cancer and Tumour Oncology, 7th World Congress on Immunology, Amsterdam, Netherlands, April 19-20, 2018, Chair, Pipeline 1: Biotherapeutics for Diseases, Bit's 2nd International Congress of Biotherapy-2018 (Programme Committee Member), Chair, Innovate Conferences 2017, Chair/Co-Chair at congress World Gene Convention-2016 (Shanghai, China, Pharmacology and Ethanopharmacology 2016 (Chicago, USA), Annual World Congress of Diabetes-2014 (Haikou, China), World Gene Convention-2014 (Haikou, China). Research Activity Statistics provided by **Publons** with comparison to other researchers indicates Ian James Martins to be a VERIFIED REVIEWER. Ian James Martins is now in the 98th percentile as assessed for **Publons** users by merit. Dr Ian Martins is a reviewer for approx. 50 journals over the past 30 years.

Organizing Committee and Advisory Board Member [*h-index=132*] (approx. 60 conferences): Organizing Committee Member, 3rd International conference on Neurology and Brain Disorders Milan Italy.during 25-26,2019, Organizing Committee Member Future Trends in Neurosciences 2019 Brussels, Belgium, Organizing Committee Member, 14th International Conference on Laboratory Medicine & Pathology in London, UK, Organizing Committee Member, 7th International Conference on Neurology and Neuromuscular Diseases that is slated on October 22-23, 2018 at Madrid, Spain, Organizing Committee Member 3rd Edition of International Conference on Neurology and Brain Disorders (INBC 2019), Organizing Committee Member, Euro Diabetes 2019 Congress, Edinburgh, Scotland Advisory Committee Member, 2nd International Conference on Medicinal Chemistry & Drug Design” (Medicinal Chemistry-2019) during August 19-20, 2019 in Barcelona, Spain, Advisory Board Member, Global Experts Meeting on Frontiers in Nanomedicine and Drug Delivery” (Nanodelivery 2019) scheduled during March 18-20, 2019 at London, UK, Organizing Committee Member, Conference on Food Science and Nutrition, 25 -26 February 2019,Rome, Italy, International Conference on PharmScience Research & Development” scheduled in Paris, France during March 04-06, 2019, Advisory Board Member [World conference on Microbiology and Immunology](#)2019, May 13-15th, 2019 Cape town, South Africa, Advisory Board Member 5th Neurological Disorders summit (NDS-2019) in Los Angeles, Organizing Committee Member, International Conference on Traditional Medicine and Ethno botany held at the Valencia, Spain on April 10-12, 2019, Organizing Committee Member, International Conference on Stem Cells, Biobanking and Tissue Preservation scheduled during 12-13th December 2018 at Abu Dhabi, UAE, Organizing Committee Member, International Conference on Heart & Diabetes" (ICHD 2019) along with external scientific association with the researches, academicians, and Pharmaceutical market leaders around the globe, scheduled on August 19-20, 2019 at Osaka, Japan, Organizing Committee Member, 2nd International Pharmaceutical Conference and Expo to take place on June 05-07, 2019 in Baltimore, USA, Advisory board member, International Summit on Vaccines and Immunology” (AEM VACCINES-2018) which is scheduled to be held on the 05th - 06th December 2018, etc.

RESEARCH INTERESTS **Anti-Aging, Global Health and Chronic Disease**

Key words: Anti-Aging Genes, Appetite, Environment, Nutrition, Senescence

IMPACT OF PREVIOUS RESEARCH TO THE FIELD OF MEDICINE AND LABORATORY TECHNOLOGY THAT MAY **AVOID INADVERTENT ERRORS** AND MAY TRANSLATE TO COMMERCIALISATION OF MEDICAL RESEARCH THAT DETERMINE **CRITICAL** HEALTH OUTCOMES.

Development of a **BLOOD TEST** has been of critical interest to metabolic disease with relevance to diabetes and neurodegenerative diseases.

Interests in Biomarker Research has escalated with relevance to mitochondrial survival and organ disease in diabetes and Alzheimer's disease. The global chronic disease epidemic is expected to cost Biomarker Research between **15 to 20 billion dollars** in the next 20 years.

Biomarkers such as Sirtuin 1 are now relevant to mitochondrial apoptosis versus mitochondrial biogenesis and may supersede the various biomarkers for mitochondrial survival relevant to diabetes, Alzheimer's disease and neurodegenerative disease research.

RELEVANT PUBLICATIONS:

Sirtuin 1, a Diagnostic Protein Marker and its Relevance to Chronic Disease and Therapeutic Drug Interventions. *EC Pharmacology and Toxicology* 6.4 (2018): 209-215. CERTIFICATE OF PUBLICATION. **2.** Evaluation of diagnostic tests in human health and disease. *J Clin Path Lab Med.* 2018;2(1):13-15. **3.** Advances in Biomarkers and Insulin Therapy with Relevance to Reversal of Diabetes. *Journal of Studies on Diabetes* 2018; 1(1): 9-14. **4.** Martins RN, *et al.* Alzheimer's Disease: A Journey from Amyloid Peptides and Oxidative Stress, to Biomarker Technologies and Disease Prevention Strategies-Gains from AIBL and DIAN Cohort Studies. *J Alzheimers Dis.* 2018;62(3):965-992. **5.** The Future of Biomarkers Tests and Genomic Medicine in Global Organ Disease. *Microbiology and Infectious Diseases.* 2017; 1(1): 1-6. **6.** The Limitations of Food Intake and Biomarkers in the Prevention of Chronic Diseases. *Nov Tech Nutri Food Sci.* 1(1).NTNF.000502. 2017. **7.** Biomarker Tests and Ageing Science. *Ageing Sci Ment Health Stud.* 2017; 1(1): 1-2. **8.** Early diagnosis of neuron mitochondrial dysfunction may reverse global metabolic and neurodegenerative disease. *Global Journal of Medical Research.* 2016;2: 1-8. **9.** The Role of Clinical Proteomics, Lipidomics, and Genomics in the Diagnosis of Alzheimer's Disease. *Proteomes,* 2016. 4(2) 1-19. **10.** Early Diagnosis and Nutritional Treatment stabilizes Neuropsychiatric Disorders. *Global Journal of Medical Research.* 2018;1(1):1-7.

QUALITY CONTROL (plasma/sera samples)

SIRTUIN 1 ANALYSIS ON BLOOD/PLASMA SAMPLES SHOULD BE CONDUCTED IN APPROPRIATE PRESERVATIVE, UNDER FREEZE/THAW CONDITIONS, STORAGE CONDITIONS. Bacterial LPS should be conducted (Sirtuin 1 repression) to avoid bacterial contamination with long term storage.

Dr Martins research with relevance to diet, diabetes and neurodegenerative diseases builds upon his past > 150 publications that generates outputs that will have relevant and significant impact to the global community. The incidence of diabetes and non alcoholic fatty liver disease (NAFLD) has been predicted to increase to 21% by 2050. Novel and critical elements of scholarly peer review provides information that the heat shock gene Sirtuin 1 is repressed with relevance to diabetes, neurological diseases and Alzheimer's disease. Major unsolved challenges to advances in biology may now provide evidence to reverse Sirtuin 1 dysfunction that is connected to primarily to heat shock protein metabolism and secondly to toxic amyloid beta metabolism with mitochondrial apoptosis in liver and brain cells. In the developing world increased levels of bacterial lipopolysaccharides repress the anti-aging gene Sirtuin 1 with the development of diabetes, neurodegenerative diseases and Alzheimer's disease. Unhealthy diets accelerate Type 3 diabetes with the induction of NAFLD in Global Populations. [Food and Nutrition cause liver and brain diseases with diabetes in the ...](https://atlasofscience.org/food-and-nutrition-cause-liver-and-brain-diseases-with-diabetes-in-the-...) <https://atlasofscience.org/food-and-nutrition-cause-liver-and-brain-diseases-with-diabetes-in-the-...> Mar11,2016 [Regulation of Body Temperature and NAFLD in Global Population.](#) Feb 2018. Asian Hospital and Healthcare Management e-Newsletter.

1. Review Confirmation Certificate, Out of Blue Acute May-Thurner Syndrome, Journal of Clinical Cardiology and Cardiovascular Interventions, November, 2020.
2. Review Confirmation Certificate, Temporal trends in Prognosis of Patients with Acute Coronary Syndrome Complicated by Ventricular Tachyarrhythmia, Journal of Clinical Cardiology and Cardiovascular Interventions, November, 2020.
3. Review Confirmation Certificate, Addressing Stroke Risk in a Patient with CREST Syndrome and Atrial Fibrillation with Left Atrial appendage Occluder Device (WATCHMAN), December, 2020.
4. Review Confirmation Certificate, Temporal Trends in Prognosis of Patients with Acute Coronary Syndrome Complicated by Ventricular Tachyarrhythmia, Journal of Clinical Cardiology and Cardiovascular Interventions, December, 2020.
5. Review Confirmation Certificate, Flowable dehydrated Amniotic Membrane Allograft Augments McDonald Cerclage in High Risk Women for Preterm Birth Prevention, A Case Series, Journal of Women's Health Care and Issues, December, 2020.
6. Review Confirmation Certificate, Temporal trends in Prognosis of Patients with Acute Coronary Syndrome Complicated by Ventricular Tachyarrhythmia, Journal of Clinical Cardiology and Cardiovascular Interventions, November, 2020.
7. Review Confirmation Certificate, Basil Artery Occlusion Clinical Evaluation and Contemporary Measures of Treatment. Journal of Clinical Cardiology and Cardiovascular Interventions December, 2020.
8. Review Confirmation Certificate, Anomalous right coronary originating from the left main coronary or the mid of left anterior descending coronary artery. Journal of Clinical Cardiology and Cardiovascular Interventions, November, 2020.
9. Review Confirmation Certificate, Coronary Artery Embolism and Antiphospholipid Syndrome: A case report and Review of the Literature. Journal of Clinical Cardiology and Cardiovascular Interventions, November, 2020.
10. Review Confirmation Certificate, The importance of maintaining the Momentum of Telemedicine after COVID-19. Journal of Clinical Cardiology and Cardiovascular Interventions November, 2020.
11. Review Confirmation Certificate, Lyne Carditis Presenting as Sinus Node Dysfunction and Accelerated Junctional Rhythm. Journal of Clinical Cardiology and Cardiovascular Interventions November, 2020.
12. The *Honorary Doctrin de Science Award* in Anti-aging Research (D.Sc, Honoris Causa), International Agency for Standards and Ratings, Reference No:H-447617072020IJM, 17th July, 2020.
13. Review Confirmation Certificate, Re-Print-Maintenance(r)Alpha lipoic acid Reduces sudden Cardiac death in Geriatric Diabetes Mellitus II Patients. Journal of Clinical Cardiology and Cardiovascular Interventions October, 2020.
14. Review Confirmation Certificate, Iatrogenic Coronary dissection due to cannabis induced vasospasm. Journal of Clinical Cardiology and Cardiovascular Interventions, October, 2020.
15. Review Confirmation Certificate, Can Physician Education and Support Improve Patient Management, Journal of Clinical Cardiology and Cardiovascular Interventions, October, 2020.
16. Review Confirmation Certificate, Elevated Lipoprotein (a) in Cardiac Outcomes: A Review, Journal of Clinical Cardiology and Cardiovascular Interventions, September 2020.
17. Review Confirmation Certificate, The effect of cost and reimbursement on treatment choice, Journal of Clinical Cardiology and Cardiovascular Interventions, September 2020.
18. Review Confirmation Certificate, Antioxidants, International Journal of Molecular Sciences, Materials, Molecules, Cells, Behavioural Sciences, Biomolecules, Entropy, Dentistry Journal, Diagnostics, Proteomes, Nutrients, Processes, Toxins, MDPI, Academic Open Access Publishing, September, 2020.
19. Certificate of Service, Guest Editor of Special Issue, COVID-19 and Global Chronic Disease, Diseases, MDPI, Academic Open Access Publishing, September, 2020.

20. Certificate of Service, Section Board Member, Vaccines, MDPI, Academic Open Access Publishing, September, 2020.
21. Certificate of Service, Section Board Member, Diseases, MDPI, Academic Open Access Publishing, September, 2020.
22. Review Confirmation Certificate, The Serious eye inflammation of post intraocular Avastin injection, Archives of Medical Case Reports and Case Study, September 2020.
23. Review Confirmation Certificate, The Submental Flap: Be Wary, Editorial Board Member, Journal of Clinical Case Reports and Studies, September 2020.
24. Certificate of Membership, Editorial Board Member, Journal of Endocrinology Research, August 2020.
25. Review Confirmation Certificate, Coronary Sinus Atrial Septal defect without persistent left superior vena cava single vessel coronary artery disease-Surgically Managed-A rarest case report. Journal of Clinical Cardiology and Cardiovascular Interventions, August 13, 2020.
26. Certificate of Recognition, A study on the current scenario and the nature of the Coronavirus in Bangladesh and the context of herd immunity, Journal of Clinical and Medical Research, June 2020
27. REVIEWER CONFIRMATION CERTIFICATE, Statin therapy Prescribing patterns for primary prevention of Cardiovascular disease in patients with type2 Diabetes Mellitus receiving primary care at the Tamale Teaching Hospital (TTH) in Northern Ghana, Journal of Clinical Cardiology and Cardiovascular Interventions, June 2020.
28. Editorial Board Member, Certificate of Editor, Journal of Clinical Medical Research, 2020.
29. Reviewer Confirmation Certificate, Suction curettage preceded by Single dose of Methotrexate therapy in managing Cesarean Scar Pregnancy. Journal of Women Health Care and Issues. March 2020.
30. Reviewer Confirmation Certificate, Anthroposophical Medicine for treating Carpal tunnel syndrome, Journal of Neuroscience and Neurological Surgery, February 2020.
31. Reviewer Confirmation Certificate Evaluation of International Endometrial Tumour Analysis sonographic criteria in diagnosis of Endometrial Carcinoma, Journal of Womens Health Care and Issues, February, 2020.
32. Reviewer Confirmation Certificate, Anisocoria by use of Propofol, a case report. Journal of Neuroscience and Neurological Surgery, February, 2020.
33. Reviewer Confirmation Certificate, Effectiveness and safety of antithrombotic strategies in an elderly population with acute myocardial infarction: a retrospective study, Journal of Clinical Cardiology and Cardiovascular Interventions, February 2020.
34. Reviewer Confirmation Certificate, A Commentary on new Technology: i'm glad we can add. Finally Accurate Measurement of both main components of Heart Rate Variability can be applied Routinely Clinically, Journal of Clinical Cardiology and Cardiovascular Interventions, February 2020.

35. Certificate of Membership, Appointment to the Editorial board of Journal of Geriatric Medicine. Certificate No.:JGM-EBM-031.
36. Reveiwer Confirmation Certificate, Frequency of in-Hospital Post PCI Complications within 24 Hours at Chaudhary Pervaiz Elahi Institute of Cardiology, Journal of Clinical Cardiology and Cardiovascular Interventions, AUCTORES, 2020.
37. Reveiwer Confirmation Certificate, How should we investigate Intraoperative Neurophysiological monitoring? How is it related to Neuroethics? Reveiw, Journal of Neuroscience and Neurological Surgery, AUCTORES, 2020.
38. Reveiwer Confirmation Certificate, XLIFF MISS Literature Review, Journal of Neuroscience and Neurological Surgery, AUCTORES, 2020.
39. Reveiwer Confirmation Certificate, Lumbar Spinal Haemorrhagic Intradural Meningioma Misdiagnosed as Acute Lumbar Disc Radiculopathy: Case Report, Journal of Neuroscience and Neurological Surgery, AUCTORES, 2020
40. Reveiwer Confirmation Certificate, Role of Inflammation on the Control of Arterial Hypertension among Patients with Metabolic Syndrome, Journal of Clinical Cardiology and Cardiovascular Interventions, AUCTORES, 2020
41. Reveiwer Confirmation Certificate, Ranolazine Preserves and Improves left Ventricular Ejection Fraction and Autonomic Measures when added to Guideline-driven Therapy in Chronic Heart Failure, Journal of Clinical Cardiology and Cardiovascular Interventions, AUCTORES, 2020
42. Reveiwer Confirmation Certificate, Ranolazine Improves Autonomic Balance in Heart Failure When Added to Guideline-Driven Therapy, Journal of Clinical Cardiology and Cardiovascular Interventions, AUCTORES, 2020
43. Reveiwer Confirmation Certificate, Determinants of the Health Services Limited the Supply of Care related to the Second Pillar of the Prevention of Mother-Child Transmission of HIV in the Region of Hauts Bassins, Burkina Faso, Journal of Women Health Care and Issues, AUCTORES, 2020
44. Editor-in-Chief, Global Journal of Endocrinology and Metabolism, Crimson, 2020.
45. Editor-in-Chief, Gerontology and Geriatric Studies, Crimson, 2020.
46. Reveiwer Confirmation Certificate, Teen Pregnancy and Situation of the Clinics Hospital of Montevideo Uruguay, Observational Study, Journal of Obstetrics Gerontology and Reproductive Services, AUCTORES, 2019
47. Reveiwer Confirmation Certificate, Gender Differences in Sexual Dysfunction of Patients with Schizophrenia, Journal of Archives of Medical Case Reports and Case Study, AUCTORES, 2019
48. Editor-in-Chief, Advancement in Case Studies, Crimson, 2020.
49. Editor-in-Chief, Novel Techniques in Nutrition and Food Sciences, Crimson, 2020.
50. Reveiwer Confirmation Certificate, Circadian blood pressure variability in Hypertensive Patients with Coronary Heart Disease, Journal of Clinical Cardiology and Cardiovascular Interventions, AUCTORES, 2019
51. Reveiwer Confirmation Certificate, Mesenteric Castleman's Disease: A Rare, Forgotten Cause of Mesenteric Masses: Case Report and Literature Review, Journal of Clinical Research and Reports, AUCTORES, 2019

52. Editorial Board Member Certificate for article: Impact of thrombus aspiration one year cardiac mortality during primary PCI in STEMI patients with total occlusion; from Korea Acute Myocardial Infarction Registry-National Institute of Health, Journal of Clinical Cardiology and Cardiovascular Interventions, AUCTORES Journals, 2019-2020.
53. Reveiwer Confirmation Certificate, Sheathless Guiding Catheter from a Femoral Approach for Complex PCI- an Unusual Solution for an Often-Encountered Problem, Journal of Clinical Case Reports and Reviews, AUCTORES, 2019
54. Editorial Board Member Certificate for Journal of Clinical Research and Reports, AUCTORES journals, 2019-2020.
55. Review Confirmation Certificate for Article, Role of Intracellular Ca²⁺ overload in Cardiac Dysfunction in Heart Disease, Journal of Clinical Cardiology and Cardiovascular Interventions, 2017-2019.
56. Editorial Board Member Certificate for Journal of Neuroscience and Neurological Surgery, AUCTORES journals, 2019-2020.
57. Editorial Board Member Certificate for Journal of Clinical Cardiology and Cardiovascular Interventions, AUCTORES Journals, 2019-2020.
58. Editorial Board Member Certificate for Nutrition and Food Processing, 2019-2020.
59. Advisory Board Member of *Sci*, CERTIFICATE OF SERVICE, *Sci*, Basel, November 2019
60. Guest Editor of Special Issue “Proteomics-Based Development of Biomarkers in Global Chronic Diseases” CERTIFICATE OF SERVICE, proteomes, MDPI, Basel, November 2019
61. Top Peer Reveiwer 2019, Global Peer Reveiw Awards, PUBLONS, RANKING TOP 1% in the field 22 Essential Science Indicators research fields
62. Guest Editor of Special Issue “Appetite Regulation and Mitophagy with Links to Chronic Disease and Alzheimer’s Disease” CERTIFICATE OF SERVICE, Diseases, MDPI, Basel, November 2019
63. Guest Editor of Special Issue “Genomic Medicine and advances in Vaccine technology and development in the developing and developed world” CERTIFICATE OF SERVICE, Vaccines, MDPI, Basel, November 2019
64. REVIEW CONFIRMATION CERTIFICATE, Neuroscience and Neurological Surgery, AUCTORES GLOBALIZE YOUR RESEARCH, 2019
65. Certificate of Recognition, Biotherapeutics and chronic diseases with relevance to insulin resistance and dementia, E-Poster Presentation, 2nd International Conference on Dementia and Dementia Care, April 15-16, 2019, Toronto, Canada.
66. Certiificate for Excellence in Reviewing, Journal of Advances in Medicine and Medical Research, March, 2019.
67. Reveiwer Certificate, Valued Reveiwer for Neuropsychiatry (London), Jan 2019.
68. Certificate of Appreciation, Early Diagnosis and Nutritional Treatment stabilizes Neuropsychiatric Disorders (vol 2018), Global Journal of Medical Research, December, 2018.
69. Certificate of Membership, Journal of Spine and Neuroscience, Open Access Pub, 31 December 2019.

70. Certificate of Recognition, Current Agriculture Research Journal, Enviro Research Publishers, December 2018
71. Certificate of Recognition, ACS Publication Awards for Reviewing, American Chemical Society, 2018.
72. CERTIFICATE, BEST ARTICLE, "Diet, Drug and Inhibitor Therapy prevent Toxic protein aggregation in various species" AS Nutritional Health, 2018 Volume 2 Issue 8.
73. CERTIFICATE, E-Poster participation, Insulin resistance and Cholesterol dyshomeostasis involve α -Synuclein and Amyloid beta interactions in Neurodegenerative diseases, 4th World Congress on Parkinsons and Huntington Disease, August 29-30, 2018, Zurich, Switzerland, Editors of the Journal of Neurological Disorders, Conference Series.com
74. Certificate of Recognition, Keynote Speaker, Antimicrobial drugs and bacterial amyloid beta peptide induce toxic manifestations to medical biology and pharmacotherapy, Conference Series and the Editors, Journal of Clinical and Experimental Pharmacology, Journal of Analytical and Bioanalytical Techniques and Journal of Clinical Trials, International Conference on Biomedicine and Pharmacology, Osaka, Japan, August 06-07, 2018.
75. Certificate of Recognition, Keynote presentation, Transcriptional dysregulation of Sirtuin 1 is relevant to Diabetes and Global Chronic Disease, Conference Series and the Editors of Journal of Diabetes & Metabolism, Journal of Diabetic Complications & Medicine and Journal of Hypertension, Global Experts Meeting on Diabetes, Hypertension, Metabolic Syndrome"held during July 30-31, 2018 in Melbourne, Australia
76. Biomedical and Pharmacology Journal, REVEIWER OF THE MONTH, Outstanding reviewer for his enexplicable contribution in safeguarding the academic integrity of the Journal. July, 2018.
77. Publication Certificate, Diet, Drug and Inhibitor Therapy prevent toxic protein aggregation in various species, Acta Scientific Nutritional Health, July, 2018
78. Certificate of Recognition, Keynote Speaker, "The Limitations of Laboratory Medicine with relevance to Biomarker tests and Global Organ Disease", 13th International Conference on Laboratory Medicine and Pathology, June 25-26, Berlin, Germany, Conference Series and the Editors of Diagnostic Pathology: Open Access, Journal of Clinical and Experimental Pathology and the Journal of Molecular and Genetic Medicine.
79. Certificate, Editorial Board Membership, Journal of Studies on Diabetes
80. Review Certificate, Acta Scientific Nutritional Health (ASNH), May 2018
81. Certificate of Editorial Board Membership, REFERENCE NUMBER, ESCIPUB/IJOAR/2018-0011, INTERNATIONAL JOURNAL OF AGING RESEARCH
82. Certificate of Reviewing, Awarded October 2017, Journal of Functional Foods, In cooperation with International Society for Nutraceuticals and Functional Foods
83. Certificate of Recognition, Keynote Speaker, Entitled " Appetite control is involved in Immunotherapy with relevance to cardiovascular disease, NAFLD and Diabetes, Pulsus and Editors of Journals of Immune Disorders and Therapy, Journal of Immunodiagnosics and Journal of Immunopatholgy, 7th World Congress on Immunology, Amsterdam, Netherlands, April 19-20, 2018

84. Certificate of Recognition, Charing Sessions on Vaccinology, Immunopathology, Immunotherapy, Immune Proteomics, Cancer and Tumour Oncology, 7th World Congress on Immunology, Amsterdam, Netherlands, April 19-20, 2018
85. Certificate of Recognition for Workshop Presentation, Keynote Speaker, Entitled "Diagnosis and Management of Immunological Diseases requires Sirtuin 1 as a Diagnostic protein marker, Pulsus and Editors of Journals of Immune Disorders and Therapy, Journal of Immunodiagnosics and Journal of Immunopatholgy, 7th World Congress on Immunology, Amsterdam, Netherlands, April 19-20, 2018,
86. Review Confirmation Certificate, MDPI Journals, 2017-2018.
87. Publication Certificate: "Biotherapy and the Immune System in Ageing Science". Acta Scientific Nutritional Health 2.4 (2018): 29-31.
88. Certificate: Eminent Editor-in-chief for Journal of Diabetes and Clinical Studies
89. Publication Certificate, Sirtuin 1, a Diagnostic Protein Marker and its Relevance to Chronic Disease and Therapeutic Drug Interventions MINIREVEIW. 6.4 (2018): 209-215.
90. Publication Certificate Article ENTITLED "Antimicrobial Drugs and Bacterial Amyloid Peptide Induce Toxic Manifestations in Chronic Diseases. EC Pharmacology and Toxicology 6.1 (2018): 01-04.
91. Publication Certificate ENTITLED "Appetite control and nutrigenomic diets are connected to immune regulation and diabetes prevention" EC Nutrition 12.3 (2017): 120-123.
92. Certificate for Exceptional Effort for Presentation entitled"Caffeine with Links to NAFLD and Accelerated Brain Aging", November 13-15, Macau, China
93. Certificate for Exceptional Effort for Presentation entitled"Drug-Drug Interactions with Relevance to Drug Induced Mitochondrial Toxicity and Accelerated Global Chronic Diseases", November 13-15, Macau, China
94. Certificate of Recognition, Editors of Journal of Clinical Epigenetics, Journal of Cancer Science and Therapy and Journal of Carcinogenesis and Mutagenesis thank Ian James Martins for Oral Presentation, Entitled "Single gene Inactivation with implications to Diabetes and Multiple Organ Dysfunction Syndrome" 2nd International Congress on Epigenetics and Chromatin, Nov 6-8, Frankfurt, Germany.
95. Certificate, Fellow, Directorate of Endocrinology and Metabolism, International Agency for Standards and Ratings (Lifetime Membership)
96. Certificate,Fellow, Directorate of Medical Science, International Agency for Standards and Ratings, Article entitled: Caffeine consumption with Relevance to Type 3 diabetes and accelerated brain aging, Winner at World Academic Championship-2017 in Medical Science
97. Certificate, Fellow, Directorate of Diabetes and Health, International Agency for Standards and Ratings (Lifetime Membership) Article entitled: Nutrigenomic Diets and Caffeine Determines the Intelligence Quotient and Thinking in Developing Countries, Winner at World Academic Championship-2017 in Diabetes

98. Certificate of Invitation, Dr. Martins has been invited to participate in the book project under the working title "Non-Alcoholic Fatty Liver Disease - Molecular Bases, Prevention and Treatment", ISBN 978-953-51-5579-9. InTech - Open Science Open Minds | InTechOpen
99. CERTIFICATE: Nutritional diets accelerate amyloid beta metabolism and prevent the induction of chronic diseases and Alzheimer's disease. Photon ebooks. UBN: 015-A94510112017Edition: I Impact Index: 4.1. **Dr Ian Martins is conferred with the RICHARD KUHN RESEARCH AWARD-2015 ENDOCRINOLOGY AND METABOLISM**, International Agency for Standards and Ratings
100. Certificate, Special Recognition, Pulsus WWW.PULSUS.COM, Organizing Committee Member, Microbiology and Pharmaceutical Microbiology 2017, 02-03, 2017, Atlanta, USA
101. Certificate of Recognition, Keynote Presentation, "Bacterial Lipopolysaccharides (LPS) accelerates Diabetes, Acute epilepsy and Neurodegenerative disease Pulsus and the Editors of Journal of Pharmacology and Medicinal Chemistry and Journal of Microbiology and Biotechnology Reports, 3rd International Congress on "Microbiology and Pharmaceutical Microbiology, 02-03,2017, Atlanta, USA
102. Certificate of Appreciation, Chairman, Sessions, Pulsus and the Editors of Journal of Pharmacology and Medicinal Chemistry and Journal of Microbiology and Biotechnology Reports, 3rd International Congress on "Microbiology and Pharmaceutical Microbiology, 02-03,2017, Atlanta, USA
103. Certificate of Recognition, ACS Publications Reveiwer, American Chemical Society
104. Certificate of Editorship, Open Access Pub, Editorial Board Member, Journal of Aging Research and Health Care
105. Certificate of Recognition, The Future of Biomarkers Tests and Genomic Medicine in Global organ disease, Global Summit on Clinical Research and Biomarkers, August 21-23,Dallas, Texas, USA, Scientific Federation Abode for Researchers
106. Publication Certificate, Calorie sensitive Anti-Aging gene regulates Hepatic amyloid beta clearance in Diabetes and Neurodegenerative diseases, Editor's Column Article, EC Nutrition
107. Publication Certificate, Heat shock Gene dysregulation and Inactivation of Drug Therapy, Editor's Column Article, EC Pharmacology and Toxicology
108. Certificate of Excellence in Reveiwing, Asian Journal of Medicine and Health 2017, SDI/HQ/PR/Cert/35265/Ian/
109. **BEST SPEAKER, DUBAI HEALTH CARE SUMMIT-2017, DUBAI, UNITED ARAB EMIRATES Certificate of Appreciation for PANEL MEMBER at the DUBAI HEALTH CARE SUMMIT-2017, WORLD DIABETES AND ENDOCRINOLOGY SUMMIT, DUBAI, UNITED ARAB EMIRATES**
110. Certificate of Appreciation for **KEYNOTE SPEAKER** at the **DUBAI HEALTH CARE SUMMIT-2017, WORLD DIABETES AND ENDOCRINOLOGY SUMMIT, DUBAI, UNITED ARAB EMIRATES**

111. Certificate of Appreciation for KeyNote Speaker, Session Chair and Advisory Board Member, Innovate Conferences,2017, Caffeine consumption with Relevance to Type 3 diabetes and accelerated brain aging, June 14th.
112. Certificate of Appreciation for KeyNote Speaker, Session Chair and Advisory Board Member, Innovate Conferences 2017 Links between drug metabolism and insulin resistance in Global Communities International Summit on Pharma, Vaccines, Immunology-Business and Clinical Trials, June 12-13th,2017, Sydney Australia
113. Certificate of Publication, Bacterial LPS overrides adenosine treatment of Epileptic Seizures. EC Microbiology, 7; 3: 83-86.
114. Certificate for Exceptional Effort at the 1st International Biotechnology Congress (IBC-2017), April 25-27, 2017, (Xi'an, China).
115. Certificate of Appreciation, Unhealthy Nutrigenomic Diets Accelerate NAFLD and Adiposity in Global Communities, International Conference on Genomic Medicine (Gene-Med 2017), Feb 22-24, Baltimore, MD, USA Certificate of Appreciation,
116. Certificate,Valuable Support Scientific Session Chairman, International Conference on Genomic Medicine (Gene-Med 2017), Feb 22-24, Baltimore, MD, USA
117. Elected Member of the European Centre for Research and Training and Development UK CERTIFICATE #5839
118. Certificate of Publication,"Drug-Drug interactions with relevance to drug induced mitochondrial toxicity and accelerated global chronic diseases" 2017,Vol 3;18-21.;EC Pharmacology and Toxicology
119. Certificate of Publication, "Early Diagnosis of Neuron Mitochondrial Dysfunction may Reverse Global Metabolic Neurodegenerative Disease", World Global Journal of Medical Research, 16, 2, 2016, 33-40.
120. Certificate of Publication, "Diabetes and Organ Dysfunction in the Developing and Developed" World Global Journal of Medical Research: F Diseases Volume 15 Issue 1, 2015.
121. Certificate for Invited Speaker at the World Gene Convention-2016, November 03-05, Shanghai, China, Overnutrition induced Neurotoxicity.
122. Certificate for Invited Speaker at the World Gene Convention-2016, November 03-05, Shanghai, China, Chylomicron remnant metabolism in human apo E transgenic mice.
123. Certificate of Recognition, 2nd International Conference and Expo on Lipids: Metabolism Nutrition and Health, October 03-05,2016, Orlando, USA Editorial Board Membership
124. CERTIFICATE, Research and REVIEWS: Neuroscience October, 2016
125. Certificate, 2nd Neurological Disorders Summit (NDS-2016) September 07-09, Baltimore, MD, USA
126. Certificate of Membership, Member of BIT Congress Inc
127. Certificate of Recognition, Key Note Speaker, 2nd International Conference and Exhibition on Pharmacology and Ethnopharmacology, 2016, Chicago,

128. The First Invited Notable (Principal Research Fellow) Speaker at the PLENARY FORUM at the 4th Annual Global Health Conference-2016, Kaohsiung, Taiwan. Plenary Forum Presentation Attached as Conference Presentation, Title: Nutritional diets accelerate amyloid beta metabolism and prevent the induction of chronic diseases and Alzheimer's disease. This ORAL presentation at the AGHC-2016 is related to the scholarly publication in PHOTON but differ with relevance to the International Agency for Standards recognition of the written publication that is associated with the Richard Kuhn Research Award-2015 (Endocrinology and Metabolism) presented to Ian James Martins.
129. USA Strathmore's Who's Who Certificate, Demonstrated Leadership and Achievement in their Occupation, Industry or Profession, SELECTED on the basis of the most INTELLIGENT children of the WORLD 1976-1980
130. Certificate, 6th World Gene Convention-2015, ORAL PRESENTATION Qingdao, China
131. Certificate, 6th World Gene Convention-2015, POSTER PRESENTATION Qingdao, China
132. Certificate of Recognition, 6th Global Summit and Expo on Food and Beverages 2015, Orlando, USA
133. Certificate of Publication 2015, Global Journal of Medical Research, Global Journals Inc. USA
134. Certificate, Oral Presentation, 5th World Congress on Diabetes and Metabolism 2014, Embassy Suites Las Vegas, USA
135. Certificate, Poster Presentation, 5th World Congress on Diabetes and Metabolism 2014, Embassy Suites, Las Vegas, USA

Reveiwier Acknowledgement 2019: Reviewer of manuscripts for Biomedical and Pharmacology Journal.

Reveiwier Acknowledgement 2019: Reveiwier of manuscripts for International Journal of Molecular Sciences

Reveiwier Acknowledgement 2019: Reveiwier of manuscripts for Molecules

Reveiwier Acknowledgement 2019: Reveiwier of manuscripts for Cells

RESEARCHER ACHIEVEMENTS

SEMANTIC SCHOLAR now lists **133 HIGHLY INFLUENTIAL CITATIONS** and identifies the most important papers and connections between them.

PUBLISHED ARTICLES ON RESEARCHGATE

APPROX. 400 IMPORTANT ACHIEVEMENTS HAVE BEEN TRANSMITTED AND

COLLECTED BY TWEET: [Ian James Martins \(@IanJamesMartin2\) | Twitter](#)

<https://twitter.com/IanJamesMartin2>

- A. **Top 10 contributions in Genetics:** Increased Risk for Obesity and Diabetes with Neurodegeneration in Developing Countries. Chapter 1, EBook. 2018. www.avid.science.com
- B. **Top 10 commentaries in Alzheimer's disease:** Appetite Regulation and the Peripheral Sink Amyloid beta Clearance Pathway in Diabetes and Alzheimer's Disease. EBook. 2019;2:1-11. www.avid.science.com

Research Activity Statistics have been provided by Publons with comparison to other researchers. Ian James Martins is now in the 98th percentile as assessed for Publons users by merit. Dr Ian Martins is a reviewer for approx. 47 journals over the past 5 years.

INVITED CHAIR FOR INTERNATIONAL MEETINGS

Chair: Vaccinology, Immunopathology, Immunotherapy, Immune Proteomics, Cancer and Tumour Oncology, 7th World Congress on Immunology, Amsterdam, Netherlands, April 19-20, 2018, Chair, Pipeline 1: Biotherapeutics for Diseases, Bit's 2nd International Congress of Biotherapy-2018 (Programme Committee Member), Chair and Advisory Board Member, Innovate Conferences 2017, Chair/Co-Chair at congress and conference series at the World Gene Convention-2016 (Shanghai, China, Pharmacology and Ethanopharmacology 2016 (Chicago, USA), Annual World Congress of Diabetes-2014 (Haikou, China), World Gene Convention-2014 (Haikou, China).

ORAL PRESENTATIONS AT CONFERENCES

PRESENTATION: Antimicrobial drugs and bacterial amyloid beta peptide induce toxic manifestations to medical biology and pharmacotherapy.

Conference: International Conference on Biomedicine and Pharmacotherapy, August 06-07, 2018, Osaka, Japan

DOI: [10.13140/RG.2.2.18696.52487](https://doi.org/10.13140/RG.2.2.18696.52487)

RESEARCH INTEREST 0.6

Recommendations 1

READS 10

https://www.researchgate.net/publication/326835087_Antimicrobial_drugs_and_bacterial_amyloid_beta_peptide_induce_toxic_manifestations_to_medical_biology_and_pharmacotherapy

KEYNOTE PRESENTATION: Transcriptional Dysregulation of Sirtuin 1 is Relevant to Diabetes and Global Chronic Disease,

Conference: Global Experts Meeting On Diabetes, Hypertension & Metabolic Syndrome, July 30-31, 2018.

DOI: [10.13140/RG.2.2.12722.91840](https://doi.org/10.13140/RG.2.2.12722.91840)

RESEARCH INTEREST 0.3

READS 12

https://www.researchgate.net/publication/326682514_Transcriptional_Dysregulation_of_Sirtuin_1_is_Relevant_to_Diabetes_and_Global_Chronic_Disease

KEYNOTE PRESENTATION: The Limitations of Laboratory Medicine with relevance to Biomarker tests and Global organ disease,

Conference: 13th International Conference on Laboratory Medicine and Pathology, June 25-26, Berlin, Germany, June 2018

DOI: [10.13140/RG.2.2.16030.84806](https://doi.org/10.13140/RG.2.2.16030.84806)

RESEARCH INTEREST 0.5

READS

14

<https://www.researchgate.net/publication/325990428> The Limitations of Laboratory Medicine with relevance to Biomarker tests and Global organ disease

PRESENTATION: Nutritional Biotherapy and Food Quality is essential to prevent Global Chronic diseases,

Conference: Bit's 2nd Annual International Congress of Biotherapy-2018 Theme: The Fourth Revolutionary Wave of Pharm Industry, At: Miami Marriott Dadeland, USA, Ordinal: Second, Affiliation: Bit Group Global Ltd, March 2018.

RESEARCH INTEREST 1.3

Recommendations 1

READS 44

<https://www.researchgate.net/publication/324043056> Nutritional Biotherapy and Food Quality is essential to prevent Global Chronic diseases

PRESENTATION: Caffeine with Links to NAFLD and Accelerated Brain Aging

Conference: 8th World Gene Convention-2017, Macua, China, November 2017

RESEARCH INTEREST 2.7

Citations 3

Recommendations 1

READS 17

<https://www.researchgate.net/publication/321075954> Caffeine with Links to NAFLD and Accelerated Brain Aging

PRESENTATION: Drug-Drug Interactions with Relevance to Drug Induced Mitochondrial Toxicity and Accelerated Global Chronic Diseases,

November 2017, Conference: 8th World Gene Convention -2017

DOI: [10.13140/RG.2.2.17958.22084](https://doi.org/10.13140/RG.2.2.17958.22084)

Research Interest 1.0

Citations 0

Recommendations 1

READS 14

<https://www.researchgate.net/publication/321050882> Drug-Drug Interactions with Relevance to Drug Induced Mitochondrial Toxicity and Accelerated Global Chronic Diseases

PRESENTATION: A Single gene Inactivation with implications to Diabetes and Multiple Organ Dysfunction Syndrome,

Conference: Epigenetics 2017, November 2017

Research Interest	2.2
Citations	3
Reads	25

https://www.researchgate.net/publication/320879180_A_Single_gene_Inactivation_with_implications_to_Diabetes_and_Multiple_Organ_Dysfunction_Syndrome

PRESENTATION: Bacterial lipopolysaccharides (LPS) accelerates Diabetes, Acute epilepsy and Neurodegenerative disease

Conference: 3rd International Congress on “Microbiology and Pharmaceutical Microbiology, At: Atlanta, USA, Affiliation: Pulsus WWW.PULSUS.COM, October 2017,

DOI: [10.13140/RG.2.2.24246.80965](https://doi.org/10.13140/RG.2.2.24246.80965)

Research Interest	0.2
Reads	22

https://www.researchgate.net/publication/320172881_Bacterial_lipopolysaccharides_LPS_accelerates_Diabetes_Acute_epilepsy_and_Neurodegenerative_disease/related

PRESENTATION: The Future of Biomarker Tests and Genomic Medicine in Global organ disease

Conference: Global Summit on Clinical Research and Biomarkers, At: Dallas, Texas, USA, Ordinal: Scientific Federation Abode for Researchers, Affiliation: International Conferences and Expo on HIV and AIDS, August 2017

DOI: [10.13140/RG.2.2.20499.78881](https://doi.org/10.13140/RG.2.2.20499.78881)

Research Interest	0.6
Citations	1
Reads	4

https://www.researchgate.net/publication/319235293_The_Future_of_Biomarker_Tests_and_Genomic_Medicine_in_Global_organ_disease

PRESENTATION: Type 3 diabetes and Metabolism with relevance to Genomic Medicine and the Global Diabetes Epidemic PRACTICAL APPROACH IN TREATING DIABETES AND ENDOCRINOLOGY DISORDERS,

Conference: DUBAI HEALTHCARE SUMMIT-2017, At: RADISSION BLU DUBAI DEIRA CREEK, DUBAI, UNITED ARAB EMIRATES, Ordinal: WORLD DIABETES AND ENDOCRINOLOGY SUMMIT, Affiliation: RAYTHEON HEALTHCARE, June 2017

DOI: [10.13140/RG.2.2.24257.15208](https://doi.org/10.13140/RG.2.2.24257.15208)

Research Interest	8.1
Reads	597

https://www.researchgate.net/publication/317689044_Type_3_diabetes_and_Metabolism_with_relevance_to_Genomic_Medicine_and_the_Global_Diabetes_Epidemic_PRACTICAL_APPROACH_IN_TREATING_DIABETES_AND_ENDOCRINOLOGY_DISORDERS/stats

PRESENTATION: Caffeine consumption with Relevance to Type 3 diabetes and accelerated brain aging,

Conference: International Summit on Neurology and Brain Disorders, At: Sydney, Australia, Affiliation: Innovate Conferences, June 2017

DOI: [10.13140/RG.2.2.27448.75522](https://doi.org/10.13140/RG.2.2.27448.75522)

Research Interest	1.5
Citations	2
Reads	23

https://www.researchgate.net/publication/317578196_Caffeine_consumption_with_Relevance_to_Type_3_diabetes_and_accelerated_brain_aging

PRESENTATION: Nutrition Therapy Regulates Caffeine Metabolism with Relevance to NAFLD and Induction of Type 3 Diabetes,

Conference: Ist International Biotechnology Congress-2017, At: Xian, China, April 2017.

Research Interest	3.6
Citations	5
Reads	34

https://www.researchgate.net/publication/316511755_Nutrition_Therapy_Regulates_Caffeine_Metabolism_with_Relevance_to_NAFLD_and_Induction_of_Type_3_Diabetes

PRESENTATION: Heat Shock Gene Sirtuin 1 Regulates Post-Prandial Lipid Metabolism with Relevance to Nutrition and Appetite Regulation in Diabetes.

Conference: 7th Annual World Congress of Molecular & Cell Biology (CMCB-2017), At: Xian, China, April 2017

DOI: [10.13140/RG.2.2.28793.06245](https://doi.org/10.13140/RG.2.2.28793.06245)

Research Interest	0.8
Citations	1
Reads	12

https://www.researchgate.net/publication/316511304_Heat_Shock_Gene_Sirtuin_1_Regulates_Post-Prandial_Lipid_Metabolism_with_Relevance_to_Nutrition_and_Appetite_Regulation_in_Diabetes

PRESENTATION: Unhealthy Nutrigenomic Diets Accelerate NAFLD and Adiposity in Global Communities,

Conference: International Conference on Genomic Medicine (Gene-Med-2017) Feb 22-24, At: Baltimore, USA, Affiliation: UNITED Scientific Group, February 2017,

DOI: [10.13140/RG.2.2.36802.79047](https://doi.org/10.13140/RG.2.2.36802.79047)

Research Interest	0.5
Reads	37

https://www.researchgate.net/publication/314033168_Unhealthy_Nutrigenomic_Diets_Accelerate_NAFLD_and_Adiposity_in_Global_Communities

PRESENTATION: Multiple Risk Factors Induce NAFLD and Type 3/Type 2 diabetes with Links to various Chronic Diseases,

Conference: Annual World Congress of Geriatrics and Gerontology-2016, At: Kaohsiung, Taiwan, Volume: 1, November 2016,

Research Interest 0.8

Reads 37

https://www.researchgate.net/publication/310596567_Multiple_Risk_Factors_Induce_NAFLD_and_Type_3_Type_2_diabetes_with_Links_to_various_Chronic_Diseases

PRESENTATION: Nutritional diets accelerate amyloid beta metabolism and prevent the induction of chronic diseases and Alzheimer's disease,

Conference: 4th Annual Global Health Conference-2016, At: Kaohsiung, Taiwan, Volume: 1, November 2016

Research Interest 11.3

Citations 21

Reads 75

https://www.researchgate.net/publication/310596196_Nutritional_diets_accelerate_amyloid_beta_metabolism_and_prevent_the_induction_of_chronic_diseases_and_Alzheimer's_disease

PRESENTATION: Overnutrition Determines LPS Regulation of Mycotoxin Induced Neurotoxicity in Neurodegenerative Diseases

Conference: 7th World Gene Convention, At: Shanghai, China, Volume: 1, November 2016

Research Interest 4.3

Citations 8

Reads 12

https://www.researchgate.net/publication/309726423_Overnutrition_Determines_LPS_Regulation_of_Mycotoxin_Induced_Neurotoxicity_in_Neurodegenerative_Diseases

PRESENTATION: Anti-aging genes regulate post-prandial lipid metabolism with relevance to appetite, chronic disease and neurodegeneration,

Conference: 2nd International Conference and Expo on Lipids: Metabolism Nutrition and Health, At: Orlando, USA, October 2016

DOI: [10.13140/RG.2.2.32469.83687](https://doi.org/10.13140/RG.2.2.32469.83687)

Research Interest 0.3

Reads 21

https://www.researchgate.net/publication/308796824_Anti-aging_genes_regulate_post-prandial_lipid_metabolism_with_relevance_to_appetite_chronic_disease_and_neurodegeneration

PRESENTATION: The Role of Clinical Proteomics, Lipidomics and Genomics in the diagnosis of Alzheimer's Disease, September 2016,

Conference: 2nd Neurological Disorders Summit (NDS-2016), At: Baltimore, MD, USA, Affiliation: United Scientific Group, September 2016,

Research Interest 8.8

Citations 17

Reads 28

<https://www.researchgate.net/publication/307926279> The Role of Clinical Proteomics Lipidomics and Genomics in the diagnosis of Alzheimer's Disease

PRESENTATION: Unhealthy diets determine Benign or Toxic Amyloid Beta States and Promote Brain Amyloid Beta Aggregation,

Conference: 7th Annual World Congress of Neurotalk-2016, At: Beijing, China, Ordinal: Lipopolysaccharides and Amyloid beta oligomerization, May 2016,

DOI: [10.13140/RG.2.1.2143.4481](https://doi.org/10.13140/RG.2.1.2143.4481)

Research Interest 4.2

Citations 8

Reads 57

<https://www.researchgate.net/publication/303822317> Unhealthy diets determine Benign or Toxic Amyloid Beta States and Promote Brain Amyloid Beta Aggregation

PRESENTATION: Nutritional interventions assist in drug therapy and the treatment of insulin resistance in Alzheimer's disease

Conference: 2 nd International Conference and Exhibition on Pharmacology and Ethnopharmacology, At: Chicago, USA, May 2016

DOI: [10.13140/RG.2.2.20154.80321](https://doi.org/10.13140/RG.2.2.20154.80321)

Research Interest 0.5

Reads 13

<https://www.researchgate.net/publication/307563576> Nutritional interventions assist in drug therapy and the treatment of insulin resistance in Alzheimer's disease

PRESENTATION: Chylomicron remnant metabolism in human apolipoprotein E isoform specific transgenic mice and apo E isoform related A β metabolism in cells,

Conference: 7th World Gene Convention, At: Shanghai, China, Volume: 1, May 2016

Reads 7

<https://www.researchgate.net/publication/309726329> Chylomicron remnant metabolism in human apolipoprotein E isoform specific transgenic mice and apo E isoform related A β metabolism in cells

PRESENTATION: Anti-aging genes improve NAFLD and type 3 diabetes in global populations

Conference: 2 nd International Conference and Exhibition on Pharmacology and Ethanopharmacology, Chicago, USA, At: Clinical Experimental Pharmcology, Volume: 6, May 2016

Research Interest 0.4

Reads 13

https://www.researchgate.net/publication/305778020_Anti-aging_genes_improve_NAFLD_and_type_3_diabetes_in_global_populations

PRESENTATION: **KEYNOTE PRESENTATION**

2nd International Conference and Exhibition on Pharmacology and Ethnopharmacology, Chicago, USA, Conference: 2ND INTERNATIONAL CONFERENCE AND EXHIBITION ON PHARMACOLOGY AND ETHNOPHARMACOLOGY, At: CHICAGO, usa, Ordinal: Anti-aging genes and Drug Pathway Inhibition, May 2016

DOI: [10.13140/RG.2.1.3716.3124](https://doi.org/10.13140/RG.2.1.3716.3124)

Research Interest 0.3

Reads 25

https://www.researchgate.net/publication/303822518_KEYNOTE_PRESENTATION_at_the_2nd_International_Conference_and_Exhibition_on_Pharmacology_and_Ethnopharmacology_Chicago_USA

PRESENTATION: **Appetite dysregulation and obesity in Western Communities**, Conference: Bit's 3rd Annual Global Health Conference-2015, At: Kaohsiung, Taiwan, November 2015,

Research Interest 0.6

Reads 34

https://www.researchgate.net/publication/284859124_Appetite_dysregulation_and_obesity_in_Western_Communities

PRESENTATION: **Diabetes and cholesterol dyshomeostasis involve abnormal α -synuclein and amyloid beta transport in neurodegenerative diseases**

Conference: Bit's 6th World Gene Convention-2015, At: Shangri-La Hotel, Qingdao, China, November 2015

Research Interest 4.8

Citations 8

Reads 31

https://www.researchgate.net/publication/284070792_Diabetes_and_cholesterol_dyshomeostasis_involve_abnormal_a-synuclein_and_amyloid_beta_transport_in_neurodegenerative_diseases

PRESENTATION: **Interactions between apo E and amyloid beta and their relationship to nutriproteomics and Alzheimer's disease**

Conference: The 2nd Conference on Protein and Proteomics, Reston, Virginia, USA, March 2015

DOI: [10.13140/RG.2.2.29905.58729](https://doi.org/10.13140/RG.2.2.29905.58729)

Research Interest 0.2

Reads

4

<https://www.researchgate.net/publication/333103156> Interactions between apo E and amyloid beta and their relationship to nutriproteomics and Alzheimer's disease

POSTER PRESENTATIONS AT CONFERENCES

POSTER: Insulin Therapy and Autoimmune Disease with Relevance to Nonalcoholic Fatty Liver Disease.

Conference: Pathology 2019, April 17-18, Tokyo, Japan, January 2019

RESEARCH INTEREST 1

READS 26

<https://www.researchgate.net/publication/330184680> Insulin Therapy and Autoimmune Disease with Relevance to Nonalcoholic Fatty Liver Disease

POSTER: REVERSAL OF NAFLD AND THE GLOBAL OBESITY EPIDEMIC.

Conference: 3rd International Conference & Expo on Obesity and Diet Management Theme: Improving the Scientific Rigor in Obesity Research Scientific Federation is delighted to welcome you to 3rd International Conference & Expo on Obesity and Diet Management which will be held on October 18-20, 2018 at Amsterdam, Netherlands. September 2018.

DOI: [10.13140/RG.2.2.15862.24648](https://doi.org/10.13140/RG.2.2.15862.24648)

RESEARCH INTEREST 1.1

Recommendations 1

READS 36

<https://www.researchgate.net/publication/327409726> REVERSAL OF NAFLD AND THE GLOBAL OBESITY EPIDEMIC

POSTER: Appetite Regulation and the Peripheral Sink Amyloid beta Clearance Pathway in Diabetes and Alzheimer's Disease.

Conference: Neurosciences 2019 "International Forum Of Neurosciences" on June 10-12, 2019" taking place in the city of Brussels, Belgium, January 2019, DOI: [10.13140/RG.2.2.30648.39689](https://doi.org/10.13140/RG.2.2.30648.39689)

RESEARCH INTEREST 0.1

READS 13

<https://www.researchgate.net/publication/330184603> Appetite Regulation and the Peripheral Sink Amyloid beta Clearance Pathway in Diabetes and Alzheimer's Disease

POSTER: Biotherapeutics and chronic diseases with relevance to insulin resistance and dementia.

Conference: "2nd International Conference on Dementia and Dementia Care" scheduled in Toronto, Canada during April 15-16, 2019, January 2019,

DOI: [10.13140/RG.2.2.32745.54880](https://doi.org/10.13140/RG.2.2.32745.54880)

RESEARCH INTEREST 0.2

READS

21

https://www.researchgate.net/publication/330184578_Biotherapeutics_and_chronic_diseases_with_relevance_to_insulin_resistance_and_dementia

POSTER: Increased Risk for Obesity and Diabetes with Neurodegeneration in Developing Countries.

Conference: 3rd International Conference on Alzheimers Disease and Dementia that will be held from June 24-25, 2019 at London, UK.

DOI: [10.13140/RG.2.2.34423.27047](https://doi.org/10.13140/RG.2.2.34423.27047)

Research Interest 5.6

Reads 40

https://www.researchgate.net/publication/330184501_Increased_Risk_for_Obesity_and_Diabetes_with_Neurodegeneration_in_Developing_Countries

POSTER: REVERSAL OF NAFLD AND THE GLOBAL OBESITY EPIDEMIC,

Conference: 3rd International Conference & Expo on Obesity and Diet Management Theme: Improving the Scientific Rigor in Obesity Research Scientific Federation is delighted to welcome you to 3rd International Conference & Expo on Obesity and Diet Management which will be held on October 18-20, 2018 at Amsterdam, Netherlands. September 2018

DOI: [10.13140/RG.2.2.15862.24648](https://doi.org/10.13140/RG.2.2.15862.24648)

RESEARCH INTEREST 1.1

Recommendations 1

READS 36

https://www.researchgate.net/publication/327409726_REVERSAL_OF_NAFLD_AND_THE_GLOBAL_OBESITY_EPIDEMIC

POSTER: Insulin resistance and Cholesterol dyshomeostasis involve α -Synuclein and Amyloid beta interactions in Neurodegenerative diseases,

Conference: 4th World Congress on Parkinsons & Huntington Disease, August 29-30, 2018 Zurich, Switzerland, July 2018

DOI: [10.13140/RG.2.2.22546.76482](https://doi.org/10.13140/RG.2.2.22546.76482)

RESEARCH INTEREST 1.1

Recommendations 1

READS 17

https://www.researchgate.net/publication/326550598_Insulin_resistance_and_Cholesterol_dyshomeostasis_involve_a-Synuclein_and_Amyloid_beta_interactions_in_Neurodegenerative_diseases

POSTER: Inactivation of Drug Metabolism and Therapy with connections to Mitochondrial Toxicity in Global Chronic Diseases.

Conference: 10th World Congress on Neuropharmacology, August 28-29, 2018, Paris France, July 2018

DOI: [10.13140/RG.2.2.21866.82887](https://doi.org/10.13140/RG.2.2.21866.82887)

RESEARCH INTEREST 0.8

Recommendations 1

READS 23

https://www.researchgate.net/publication/326293138_Inactivation_of_Drug_Metabolism_and_Therapy_with_connections_to_Mitochondrial_Toxicity_in_Global_Chronic_Diseases

POSTER: Accelerated Brain Aging with relevance to Type 3 Diabetes and Alzheimer's Disease.

Conference: 10th World Congress on Alzheimers Disease & Dementia May 30-31, 2018 Osaka, Japan
Theme: Novel Research and Diagnostic Approaches of Alzheimer's Disease and Dementia, May 2018

DOI: [10.13140/RG.2.2.21134.05442](https://doi.org/10.13140/RG.2.2.21134.05442)

RESEARCH INTEREST 2.0

Recommendations 2

READS 87

https://www.researchgate.net/publication/324901012_Accelerated_Brain_Aging_with_relevance_to_Type_3_Diabetes_and_Alzheimer's_Disease

POSTER: Diagnosis and Management of Immunological Diseases requires Sirtuin 1 as a Diagnostic protein marker

WORKSHOP DAY 1. Conference: 7th World Congress on Immunology, April 19-20, Amsterdam, Netherlands, 2018

DOI: [10.13140/RG.2.2.21589.52969](https://doi.org/10.13140/RG.2.2.21589.52969)

RESEARCH INTEREST 0.9

READS 26

https://www.researchgate.net/publication/324603853_Diagnosis_and_Management_of_Immunological_Diseases_requires_Sirtuin_1_as_a_Diagnostic_protein_marker_WORKSHOP_DAY_1

POSTER: Appetite control is involved in immunotherapy with relevance to cardiovascular disease, NAFLD and diabetes.

Conference: 7th World Congress on Immunology, April 19-20 Amsterdam, Netherlands, April 2018

DOI: [10.13140/RG.2.2.12362.06088](https://doi.org/10.13140/RG.2.2.12362.06088)

https://www.researchgate.net/publication/324603539_Appetite_control_is_involved_in_immunotherapy_with_relevance_to_cardiovascular_disease_NAFLD_and_diabetes

RESEARCH INTEREST 0.7

Recommendations 0

READS 26

PRESENTATION: The role of virgin coconut oil in the treatment of Diabetes and Alzheimer's Disease,

Conference: Bit's 3rd Annual Global Health Conference-2015, At: Kaohsiung, Taiwan, November 2015

Research Interest	9.5
Recommendations	1
Reads	1,530

<https://www.researchgate.net/publication/284829441> The role of virgin coconut oil in the treatment of Diabetes and Alzheimer's Disease

POSTER: SIRTUIN 1 REGULATES AMYLOID BETA OLIGOMER METABOLISM IN HEP G2 CELLS WITH RELEVANCE TO DIET AND ALZHEIMER'S DISEASE, Conference: Bit's 6th World Gene Convention-2015, At: Shangri-La Hotel, Qingdao, China. November 2015

Research Interest	0.6
Reads	15

<https://www.researchgate.net/publication/284063114> SIRTUIN 1 REGULATES AMYLOID BETA OLIGOMER METABOLISM IN HEP G2 CELLS WITH RELEVANCE TO DIET AND ALZHEIMER'S DISEASE

POSTER: The cholesterol-ceramide connection as a possible link between diabetes and Alzheimer's disease.

Conference: 5th World Congress on Diabetes and Metabolism, At: Journal of Diabetes and Metabolism, Embassy Suites, Las Vegas, USA, Volume: 5, October 2014,

Research Interest	0.8
Citations	1
Reads	15

<https://www.researchgate.net/publication/297737164> The cholesterol-ceramide connection as a possible link between diabetes and Alzheimer's disease

POSTER: Nutritional therapy is essential for the prevention of toxic amyloid beta oligomerization with relevance to diet and Alzheimer's disease, May 2014, Conference: 5th Annual World Congress of Neurotalk-2014, At: Nanjing, China

Reads	13
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<https://www.researchgate.net/publication/297518929> Nutritional therapy is essential for the prevention of toxic amyloid beta oligomerization with relevance to diet and Alzheimer's disease

POSTER: Anti oxidative acyl CoA Cholesterol acyl transferase Inhibitor Avasimibe reduces the impact of high cholesterol diet on Brain lipid peroxidation in mice,

Conference: AD/PD 2013 – The 11th International Conference on Alzheimer's and Parkinson's Disease, March 2013

DOI: [10.13140/RG.2.2.25829.24806](https://doi.org/10.13140/RG.2.2.25829.24806)

Research Interest 2.3

Reads 15

https://www.researchgate.net/publication/333160262_Anti_oxidative_acyl_CoA_Cholesterol_acyl_transferase_Inhibitor_Avasimibe_reduces_the_impact_of_high_cholesterol_diet_on_Brain_lipid_peroxidation_in_mice/stats

POSTER: Effects of a High Fat High Cholesterol diet on brain lipid profiles in APOE ε3 and ε4 knock-in mice.

Conference: The 11th International Conference on Alzheimer's & Parkinson's Diseases, At: Florence, Italy, March 2013.

Research Interest 0.5

Citations 1

Reads 10

https://www.researchgate.net/publication/270703324_Effects_of_a_High_Fat_High_Cholesterol_diet_on_brain_lipid_profiles_in_APOE_e3_and_e4_knock-in_mice

EDITORIAL BOARD MEMBER FOR APPROXIMATELY 150

INTERNATIONAL JOURNALS

1. Annals of Neurodegenerative Disorders
2. International Journal of Diabetes Research
3. Annals of Obesity and Disorders
4. Research and Reviews Neuroscience
5. SL Nutrition and Metabolism
6. EC Pharmacology and Toxicology
7. Journal of Ageing Research and Health Care
8. World Journal of Psychiatry and Mental Health Research
9. Journal of Food Studies
10. Gerontology and Geriatric Studies
11. Global Journal of Endocrinology and Metabolism
12. Research in Chronic Diseases
13. Journal of Genetic Disorders

14. Journal of Diabetes and Clinical Studies
15. Annals of Clinical Endocrinology and Metabolism
16. Journal of Complementary and Alternative Medicine
17. Academic Journal of Engineering Studies
18. Annals of Chemical Science Research
19. Journal of Gastrointestinal Disorders
20. Journal of Biochemistry Research
21. Biomedical and Pharmacology Journal
22. MDPI-Journals

International Journal of Molecular Sciences, Nutrients, Proteomes

Processes, Toxins, Diseases, Proteomes, New Multidisciplinary Journal Science

23. Annals of Review and Research
24. Novel Approaches in Drug Designing and Development
25. MOJ Immunology
26. MOJ Addictive Medicine and Therapy
27. Experimental Techniques in Urology and Nephrology
28. Clinical Journal of Diabetes Care and Control (CJDDC)
29. International Journal of Advances in Biology
30. Modern Approaches on Material Sciences
31. Advancements in Case Studies
32. CPQ Nutrition
33. Case Reports: Clinical, Medical and Surgical
34. International Journal of Aging
35. Journal of Studies on Diabetes
36. Neurology and Neurosurgery
37. Modern Clinical Medicine Research
38. Journal of Clinical Nephrology
39. Open Access Journal of Endocrinology
40. EC Nutrition
41. Novel Techniques in Nutrition and Food Science
42. Acta Scientific and Nutritional Health
43. CPQ Anaesthesia and Pain Management
44. CPQ Microbiology
45. Global Journal of Nutrition and Food Science
46. Journal of Diabetes, Obesity and Metabolism
47. Anaesthesia and Critical care

48. American Journal of Biomedical Science and Research
49. Advances in Clinical Toxicology
50. AS Medical Sciences
51. Alzheimer's Research and Therapy Open Access
52. Journal of Applied Science
53. Food Nutrition and Dietetics Open Access Journal
54. Orthopedics and Sports Medicine Open Access Journal
55. Journal of Population Therapeutics and Clinical Pharmacology
56. Journal of Biomarker and Drug Discovery

Approx. 94 other journals are not listed in this Curriculum Vitae.....

Academic

Qualifications

B.Sc. 1984 University of Western Australia
 M.Sc. 1986 University of Western Australia
 Ph.D. 1989 University of Western Australia

Jan 2003 – present

Senior Researcher

Edith Cowan University, School of Medical Sciences
 Centre of Excellence for Alzheimer's Disease Research
 Sarich Neuroscience Research Institute
 Edith Cowan University
 8 Verdun Street, Nedlands 6009.
 Western Australia, Australia

Type 3 diabetes in the global epidemic is intertwined with neurodegeneration and central to nutritional therapy at
 GOOGLE SEARCH Ian James Martins
 with relevance to diabetes, organ suicide and neurodegeneration

Jan 2001 – Present

Adjunct Senior Research Fellow,

University of Western Australia, Dept of Psychiatry
 and Neurogenetics, Perth, Western Australia,
 Australia

The NAFLD epidemic in diabetes indicates bacterial lipopolysaccharides (LPS) to induce neurodegenerative disease. Healthy diets/drug therapy reduce plasma LPS levels with reversal of NAFLD and aging in global populations.

Jan 1990-2000

Principal Scientist and Research Fellow

Department of Physiology
 University of Western Australia
 Stirling Highway, Nedlands 6009.
 Western Australia, Australia

PAST Professional History

Dr Martins completed his undergraduate Science degree at the University of Western Australia in 1984, then completing a MSc in Clinical Biochemistry in 1986. In 1987 he commenced a Ph D studying the role of high density lipoprotein (HDL) in diabetes (Hackett Scholarship). In 1993 he was awarded a Saw fellowship from the University of Western Australia to conduct studies relating to the metabolism of chylomicrons and their remnants and the influence of size and composition on their clearance from blood and its importance to atherosclerosis.

The publications between 1988-2000 have shown that Dr Martins has made a valuable and solid contribution to the field of atherosclerosis and heart disease. His work has concentrated on understanding the role of dietary cholesterol rich particles and the subsequent clearance and metabolism from the blood plasma and their potential risk for the development of heart disease. These research studies have shown that the type of dietary fat and increased consumption are important risk factors for heart disease.

Synopsis of Contribution to Research

In Western countries a major current health problem is the high incidence of obesity and Type 2 diabetes and its associated risk for cardiovascular disease. Research studies conducted from the industry and medical research grants have shown that the type of dietary fat and increased consumption are important risk factors for heart disease. In 1994 as a Fellow and Consultant (UWA) working on a commercial grant from Inovax Ltd led to the development of a stable isotope breath test for dietary fat metabolism and an assessment of the predictive value of the test for heart disease. International patents have been filed in various countries for the stable isotope breath test and oral Peptide delivery systems for the oral delivery of therapeutic peptides as treatments for various diseases. In 1998 he was awarded a Raine grant to continue with research studies in the Lipoprotein and Macromolecular research group relating to the development of the breath test for dietary fat metabolism in man which has led to many publications. Research at the Centre of Excellence for Alzheimer's Disease Research and Care (Edith Cowan University) and Psychiatry and Clinical Neurosciences (UWA) have led to a patent related to the interactions between apolipoprotein E and β -amyloid and its clearance by the liver and its role in Alzheimer's Disease. The interaction of apo E and β amyloid proteins are of considerable importance and have led to the association between coronary heart disease and Alzheimer's disease. Obese and diabetic individuals are at extreme risk for the development of atherosclerosis and studies indicate that these individuals are also at risk for the development of Alzheimer's Disease. High fat/high cholesterol diets and oxidative stress in Western countries are risk factors for age related diseases and AD with other environmental factors such as exercise and cholesterol lowering drugs involved in regulating cholesterol metabolism as potential therapies for AD. Diet and fat intake are important when considering the risk for Alzheimer's disease and diet induced hypercholesterolemia was used as a model to assess the relationship between steatosis (hepatic dysfunction) and brain oxidative damage associated with neurodegeneration (Centre of Excellence for Alzheimer's Disease Research and Care at ECU). Drugs that lower cholesterol levels by preventing oxidative stress and hepatic steatosis are currently being considered and tested as potential therapies for the treatment of AD in collaboration with the international drug company Pfizer Ltd. Drugs such as Avasimibe that have been tested in vivo and improve the expression of specific Anti aging proteins and act as activators that improve the transport of vitamin E to the brain add to the growing body of evidence indicating that the lipid soluble vitamin E in the brain is responsible for maintenance of brain cholesterol homeostasis. These cholesterol lowering drugs may treat AD by the reversal of brain aging in various Western populations.

Novel screening methods have been recently developed to identify peptides that selectively bind A β and form the basis of a new class of drugs to treat AD.

During 2018 to 2020 there has been an increase in *h-index*, Citations, Reads and Public mentions from databases of Google Scholar

Citations, Mendeley, Scopus, ResearchGate, UWA Research Repository, Dimensions, Academia.edu, Semantic Scholar (133 INFLUENTIAL CITATIONS) and 43 articles are now under Global analysis by Research Online.

PUBLICATIONS 2020-2012

INVITED: EDITORIALS, ARTICLES, REVEIWS and EBOOKS

INTERNATIONAL CO-OPERATION

1. Pratishta Chatterjee, Martins IJ et al. Presymptomatic Dutch-Type Hereditary Cerebral Amyloid Angiopathy-Related Blood Metabolite Alterations. *Journal of Alzheimer's Disease* xx (2020) x–xx, DOI 10.3233/JAD-201267.
2. Chatterjee P, Cheong YJ, Bhatnagar A, Goozee K, Wu Y, McKay M, Martins IJ, Lim WLF, Pedrini S, Tegg M, Villemagne VL, Asih PR, Dave P, Shah TM, Dias CB, Fuller SJ, Hillebrandt H, Gupta S, Hone E, Taddei K, Zetterberg H, Blennow K, Sohrabi HR, Martins RN. Plasma metabolites associated with biomarker evidence of neurodegeneration in cognitively normal older adults. *J Neurochem*. 2020 Jul 17.
3. Kevin Huynh, Wei Ling Florence Lim, Corey Giles, Kaushala S Jayawardana, Agus Salim, Natalie A Mellett, Alexander Smith, Gavriel Olshansky, Brian G Drew, Pratishta Chatterjee, Ian Martins, Simon M Laws, Ashley I Bush, Christopher C Rowe, Victor LL Villemagne, David Ames, Colin L Masters, Matthias Arnold, Kwangsik Nho, Andrew J. Saykin, Rebecca Baillie, Xianlin Han, Rima F Kaddurah-Daouk, Ralph N Martins, Peter J Meikle. Identification of concordant plasma lipid signatures in Alzheimer's disease: Validation between two independent studies of Alzheimer's disease. *Biomarkers (non-neuroimaging): Novel biomarkers*. Volume 16, Issue S5, Supplement: Biomarkers – Part 2, December 2020.
4. Huynh K, Lim WLF, Giles C, Jayawardana KS, Salim A, Mellett NA, Smith AAT, Olshansky G, Drew BG, Chatterjee P, Martins I, Laws SM, Bush AI, Rowe CC, Villemagne VL, Ames D, Masters CL, Arnold M, Nho K, Saykin AJ, Baillie R, Han X, Kaddurah-Daouk R, Martins RN, Meikle PJ. Concordant peripheral lipidome signatures in two large clinical studies of Alzheimer's disease. *Nat Commun*. 2020 Nov 10;11(1):5698
5. Pedrini, Steve, Hone, Eugene, Gupta, Veer B, James, Ian, Teimouri, Elhama, Bush, Ashley I, Rowe, Christopher C, Villemagne, Victor L, Ames, Davidf, Masters, Colin L, Rainey-Smith, Stephanie, Verdile, Giuseppe, Sohrabi, Hamid

- R, Raida, Manfred R, Wenk, Markus R, Taddei, Kevin, Chatterjee, Pratishtha, Martins, Ian, Laws, Simon M, Martins, Ralph N. Plasma High Density Lipoprotein Small Subclass Is Reduced in Alzheimer's Disease Patients and Correlates with Cognitive Performance. 1 Jan. 2020 : 1 – 12.
6. Kevin Huynh, Florence Lim, Corey Giles, Kaushala S Jayawardana, Agus Salim, Natalie A Mellett, Alexander SmithGavriel Olshansky, Brian G Drew, Pratishtha Chatterjee, Ian Martins, Simon M Laws, Ashley I Bush, Christopher C Rowe, Victor L Villemagne, David Ames, Colin L Masters, Matthias Arnold, Kwangsik Nho, Andrew J Saykin, Rebecca Baillie, Xianlin Han, Rima Kaddurah-Daouk, Ralph N Martins, Peter J Meikle. Combining two large clinical cohorts (AIBL and ADNI) to identify multiple lipid metabolic pathways in prevalent and incident Alzheimer's disease. <https://t.co/5UUH9iBHwi> #medRxiv 28 May 2020.
 7. Wei Ling Florence Lim, Kevin Huynh, Pratishtha Chatterjee, Ian Martins, Kaushala S. Jayawardana, Corey Giles, Natalie A. Mellett, Simon M. Laws, Ashley I. Bush, Christopher C. Rowe,i,j Victor L. Villemagne, David Ames,l Brian G. Drew, Colin L. Masters, Peter J. Meikle, Ralph N. Martins. Relationships Between Plasma Lipids Species, Gender, Risk Factors, and Alzheimer's Disease. *J Alzheimers Dis.* 2020; 76(1): 303–315.
 8. Ian James Martins. COVID-19 Infection and Anti-Aging Gene Inactivation. *Acta Scientific Nutritional Health* 4.5 (2020): 01-02.
 9. Fernando WMADB, Martins IJ, Morici M, Bharadwaj P, Rainey-Smith SR, Lim WLF, Martins RN. Sodium Butyrate Reduces Brain Amyloid- β Levels and Improves Cognitive Memory Performance in an Alzheimer's Disease Transgenic Mouse Model at an Early Disease Stage. *J Alzheimers Dis.* 2020;74(1):91-99.
 10. Martins IJ. Appetite dysregulation and the apelinergic system are connected to global chronic disease epidemic. *Series of Endocrinology, Diabetes and Metabolism.* 2020;1:67-69.
 11. Martins IJ. Appetite Control and Core Body Temperature are Linked to Autoimmune Disease and the Global Chronic Disease Epidemic. *Enliven: Immunol Immunotechnol.* 2019;3(e1):001-009.
 12. Martins IJ. BODY TEMPERATURE REGULATION DETERMINES IMMUNE REACTIONS AND SPECIES LONGEVITY. *Heat Shock Proteins in Neuroscience*, 2019, Vol. 20, (Eds) Alexzander A. A. Asea and Punit Kaur. 2019.

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13. Martins IJ. Heat, diet and lifestyles control longevity in animals and man. Atlas of Science. Another view on Science. <https://atlasofscience.org/heat-diet-and-lifestyles-control-longevity-in-animals-and-man>
14. E. Hone, F. Lim, Ian J Martins. Fat and Lipid Metabolism and the Involvement of Apolipoprotein E in Alzheimer's Disease. In book: Neurodegeneration and Alzheimer's Disease. May 2019
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16. Martins IJ. Human survival and immune mediated mitophagy in neuroplasticity disorders. Neural Regeneration Research. 2019;14:4, 735
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23. Martins IJ. Advances in Aging and Health Research. Scientific Research Publishing, Inc. ISBN: 978-1-61896-569-1
24. Martins IJ. Scientific Nutritional Health and Global Chronic Disease. Scientific Media. New Distribution Report.

2018;443:1-3

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26. Martins IJ. Increased Risk for Obesity and Diabetes with Neurodegeneration in Developing Countries. Top 10 Contribution on Genetics. Chapter 1, EBook. 2018. www.avid.science.com
27. Martins IJ. Bacterial Lipopolysaccharides and Neuron Toxicity in Neurodegenerative Diseases. Neurology Research and Surgery. 2018; 1(1): 1-3.
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29. Martins IJ. Diet, Drug and Inhibitor Therapy Prevent Toxic Protein Aggregation in Various Species. Acta Scientific Nutritional Health. 2(8);2018:01-03.
30. Martins IJ. Genomic Medicine and Endocrine Autoimmunity as Key to Mitochondrial Disease. Glob J Endocrinol Metab .2(2). GJEM.000534.2018.
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32. Martins IJ. Heat Shock Gene Inactivation and Protein Aggregation with Links to Chronic Diseases. Diseases. 2018, 6;39:1-5.
33. Martins IJ. Electroconvulsive Therapy and Heat Shock Gene Inactivation in Neurodegenerative Diseases. Ann Neurodegener Dis. 2018, 3(1): 1028.
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36. Martins IJ. Genomic Medicine and Acute Cardiovascular Disease Progression in Diabetes. International Journal of Medical Studies. 2018;3(1): 124-130.
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38. Non-Alcoholic Fatty Liver Disease - Molecular Bases, Prevention

and Treatment, InTech - open science | open minds ISBN 978-953-51-3924-9.

39. Martins IJ. Sirtuin 1, a Diagnostic Protein Marker and its Relevance to Chronic Disease and Therapeutic Drug Interventions”. *EC Pharmacology and Toxicology* 6.4 (2018): 209-215.
40. Martins IJ. Advances in Biomarkers and Insulin Therapy with Relevance to Reversal of Diabetes. *Journal of Studies on Diabetes* 2018; 1(1): 9-14.
41. Martins RN, Villemagne V, Sohrabi HR, Chatterjee P, Shah TM, Verdile G, Fraser P, Taddei K, Gupta VB, Rainey-Smith SR, Hone E, Pedrini S, Lim WL, Martins I, Frost S, Gupta S, O'Bryant S, Rembach A, Ames D, Ellis K, Fuller SJ, Brown B, Gardener SL, Fernando B, Bharadwaj P, Burnham S, Laws SM, Barron AM, Goozee K, Wahjoepramono EJ, Asih PR, Doecke JD, Salvado O, Bush AI, Rowe CC, Gandy SE, Masters CL. Alzheimer's Disease: A Journey from Amyloid Peptides and Oxidative Stress, to Biomarker Technologies and Disease Prevention Strategies-Gains from AIBL and DIAN Cohort Studies. *J Alzheimers Dis.* 2018;62(3):965-992
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<https://www.asianhnm.com/.../regulation-of-body-temperature-and-nafld-in-global-po...>
44. Martins IJ. Evaluation of diagnostic tests in human health and disease. *J Clin Path Lab Med.* 2018;2(1):13-15.
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46. Martins IJ. Food Quality and Advances in Pharmacological Management Prevent Mitochondrial Apoptosis and Epilepsy Induced Stroke. *Research and Reveiws: Neuroscience.* 2018;2:7-9.
47. Martins IJ. Genomic medicine and acute cardiovascular disease progression in diabetes. *Res Chron Dis* (2018) 2(1), 001–003.
48. Martins IJ. Indian Spices and Unhealthy Diets interfere with Drug

- Therapy in Diabetes and Neurodegenerative Diseases. NAPDD 002 2018; 3(4):555616.
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 50. Martins IJ. Appetite Control and Nutrigenomic Diets are Connected to Immune Regulation and Diabetes Prevention. EC Nutrition 12.3 (2017): 120-123.
 51. Martins IJ. The Future of Biomarkers Tests and Genomic Medicine in Global Organ Disease. Microbiology and Infectious Diseases. 2017; 1(1): 1-6.
 52. Martins IJ. Antibiotic Resistance Involves Antimicrobial Inactivation in Global Communities. SAJ Pharma Pharmacol 2017;2: 102.
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 61. Martins IJ. Antimicrobial activity inactivation and toxic immune reactions induce Epilepsy in human. J Med Discov (2017);2(4):jmd17040.
 62. Martins IJ (2017) Single Gene Inactivation with Implications to

- Diabetes and Multiple Organ Dysfunction Syndrome. *J Clin Epigenet.* Vol. 3 No. 3:24.
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 64. Martins IJ. Heat Therapy With Relevance to the Reversal of NAFLD and Diabetes. *J Diabetes Metab Disord.* 2017; 4: 018.
 65. Martins IJ. Inactivation of Anti-Aging Genes is Related to Defective Drug Metabolism in Diabetes. *Int J Drug Disc.* 2017; 1:003.
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 70. Martins IJ. Bacterial LPS Overrides Adenosine Treatment of Epileptic Seizures. *EC Microbiology* 7.3 (2017): 83-86.
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 73. Martins IJ. Nutrigenomic Diets and Caffeine Determines the Intelligence Quotient and Thinking in Developing Countries. *Research and Reveiws: Neuroscience.* 2017.1:2.
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 76. Martins IJ. Apelinergic System Defects with Relevance to Mental Disorders in Diabetes. *World J Psychiatry Ment Health Res.* 2017; 1(1): 1001.

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79. Martins IJ. Heat Shock Gene Dysregulation and Inactivation of Drug Therapy. *EC Pharmacology and Toxicology. ECO.01* (2017): 13-15.
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CERTIFICATE OF PUBLICATION

83. Martins IJ. FOOD INTAKE AND CAFFEINE DETERMINE AMYLOID BETA METABOLISM WITH RELEVANCE TO MITOPHAGY IN BRAIN AGING AND CHRONIC DISEASE. *European Journal of Food Science and Technology.* 2016;4:11-17.
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relevance to Alzheimer's disease and Neurological diseases, J Food Research, vol. 5, pp.45-52, 2016

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 105. Martins IJ. Diabetes and Organ Dysfunction in the Developing and Developed. *World Global Journal of Medical Research: F Diseases Volume 15 Issue 1 Version 1.0 Year 2015.* **CERTIFICATE OF PUBLICATION**
 106. Martins IJ. Unhealthy Nutrigenomic Diets Accelerate NAFLD and Adiposity in Global communities. *Journal of molecular and genetic medicine: an international journal of biomedical research* 03/2015; 9(1).
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 113. Martins IJ, Gupta V, Wilson AC, Fuller SJ and Martins RN (2014) Interactions Between Apo E and Amyloid Beta and their Relationship to Nutriproteomics and Neurodegeneration. *Current Proteomics*, 11, 173-183.
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119. Martins IJ, Wilson AC, Lim WLF, Laws SM, Laws SM, Fuller SJ and Martins RN (2012) Sirtuin 1 mediates the obesity induced risk of common degenerative diseases: Alzheimer's disease, coronary artery disease and type 2 diabetes. Special Issue on Obesity. Health. 4: 1448-1456.

Publications 2010- 1989

Previous Research & Research Interests

1. Lau S, Bates KA, Sohrabi HR, Rodrigues M, Martins G, Dhaliwal SS, Taddei K, Laws SM, **Martins IJ**, Mastaglia FL, Foster JK, Phillips JK, Martins RN. Functional effects of genetic polymorphism in inflammatory genes in subjective memory complainers. Neurobiol Aging. 2012 Jun;33(6):1054-6. Epub 2010 Oct 18
2. Sharman MJ, Shui G, Fernandis AZ, Lim WL, Berger T, Hone E, Taddei K, Martins IJ, Ghiso J, Buxbaum JD, Gandy S, Wenk MR and Martins RN. Profiling brain and plasma lipids in human APO E epsilon2, epsilon3 and epsilon4 knockin mice using electrospray ionization mass spectrometry. Journal of Alzheimer's disease. 20(1);105-111.2010. (Impact factor 5.0)
3. **Martins IJ**, Berger T, Sharman MJ, Verdile G, Fuller SJ and Martins RN. Cholesterol metabolism and transport in the pathogenesis of Alzheimer's disease. Journal of Neurochemistry. 111:1275-308. 2009.)(**Impact Factor = 4.5**)
4. Bates KA, Sohrabi H, Rodrigues M, Beilby J, Dhaliwal S, Taddei K, Criddle, Wraith M, Howard M, Martins G, Paton A, Mehta P, Foster J, **Martins IJ**, Lautenschlager N, Mastaglia F, Laws SM and Martins RN. Association of cardiovascular factors and Alzheimer's disease plasma amyloid beta protein in subjective memory complainers. Journal of Alzheimer's Disease. 17(2):305-18.2009.)(**Impact Factor = 5.0**)
5. Taddei K, Laws SM, Verdile G, Munns S, D'Costa K, Harvey AR, **Martins IJ**, Hill F, Levy E, Shaw JE and Martins RN. Novel phage peptides attenuate beta amyloid -42 catalysed hydrogen peroxide production and associated neurotoxicity.

Neurobiology of Aging. 2009 (E-PUB ahead of print). (**Impact Factor = 6.1**)

6. Sharman MJ, Guanghou Shui, Aaron Z. Fernandis, Wei Ling F. Lim, Tamar Berger, Eugene Hone, Kevin Taddei, **Ian J. Martins**, Jorge Ghiso, Joseph Buxbaum, Sam Gandy, Markus R. Wenk and Ralph N. Martins. APOE genotype results in only subtle changes in brain lipids in human *APOE* ϵ 2, ϵ 3 and ϵ 4 knock-in mice. *Journal of Alzheimer's Disease*. 20 (2);403-9. 2010. (**Impact Factor = 5.0**)

7. **Martins IJ**, Hone E, Foster JK, Sunram-Lea SI, Gnjec A, Fuller SJ, Nolan D, Gandy SE, Martins RN. Apolipoprotein E, cholesterol metabolism, diabetes and the convergence of risk factors for Alzheimer's disease and cardiovascular disease. *Molecular Psychiatry*. 11: 721-36; 2006. Review (**Impact Factor = 12.5**)

8. Hone E, **Martins IJ**, Jeoung M, Ji TH, Gandy SE and Martins RN. (2005). Alzheimer's disease A β peptide modulates apo E isoform specific effects on receptor binding. *Journal of Alzheimer's Disease*. 7 :303-14; 2005. (**Impact Factor =5 .0**)

9. **Martins IJ**, Redgrave TG (2004) Obesity and post-prandial lipid metabolism. Feast or Famine? *J Nutr Biochem*. 15:130-41 Review. (**Impact Factor = 4.35**)

10. Hunter M, Bernard R, Freitas E, Boyer A, Morar B, **Martins IJ**, Tournev I, Jordanova A, Guergelcheva V, Ishpekova B, Kremensky I, Nicholson G, Schlotter B, Lochmuller H, Voit T, Colomer J, Thomas PK, Levy N, Kalaydjieva L, (2003) Mutation screening of the N-myc downstream-regulated gene 1 (NDRG1) in patients with Charcot-Marie-Tooth Disease. *Human Mutation* 22:129-35. (**Impact Factor = 7.0**)

11. Dane-Stewart CA, Watts GF, Barrett PH, Stuckey BG, Mamo JC, **Martins IJ**, Redgrave TG (2003) Chylomicron remnant metabolism studied with a new breath test in postmenopausal women with and without type 2 diabetes mellitus. *Clinical Endocrinology* 58:15-20. (**Impact Factor = 3.8**)

12. Hone E, **Martins, IJ**, Fonte J, Martins RN (2002) Apolipoprotein E influences amyloid-beta clearance from the murine periphery. *Journal of Alzheimer's Disease*. 5:1-8. (**Impact Factor = 5.0**)

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- Marais AD (2001) Chylomicron remnant metabolism in familial dyslipidemias studied with a remnant-like emulsion breath test. *J. Lipid. Res.* 42:710-5 (**Impact Factor = 4.4**)
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22. **I.J. Martins** and T. G. Redgrave. 1998. A ¹³CO₂ breath test for the assessment of remnant metabolism in mice. *J Lipid. Res.* 39: 693-699. (**Impact Factor = 4.4**)
23. **I.J. Martins**, C. Vilchère, B-C. Mortimer, R. Bittman, and T. G. Redgrave. 1998. Sterol side chain length and structure affect the clearance of chylomicron-like emulsions in rats and mice. *J. Lipid Res.* 39: 302-312. (**Impact Factor =4.4**)
24. B.J. Zeng, B-C. Mortimer, **I.J. Martins**, U. Seydel and T.G. Redgrave. 1998. Chylomicron remnant uptake is regulated by the expression and function of heparan sulfate proteoglycan in hepatocytes. *J.Lipid. Res.*39: 887-905. (**Impact Factor = 4.4**)
25. B-C. Mortimer, **I.J. Martins**, B.J. Zeng and T.G. Redgrave. 1997. Use of gene-manipulated models to study the physiology of lipid transport. *J. Clin. Exp. Pharm. Physiol.* 24: 281-285. (**Impact Factor = 2.2**)
26. **I.J. Martins**, B-C. Mortimer and T. G. Redgrave. 1997. Effect of the ACAT inhibitor CL 277,082 on apolipoprotein B48 transport in mesenteric lymph and on the plasma clearance of chylomicrons and remnants. *Arteriosclerosis. Thrombosis and Vascular Biology.* 17: 211-216. (**Impact Factor = 7.6**)
27. **I.J. Martins**, B-C. Mortimer, J. Miller and T. G. Redgrave. 1996. Effects of particle size and number on the plasma clearance of chylomicrons and remnants. *J. Lipid. Res.* 1996. 37: 2696-2705. (**Impact Factor = 4.4**)
28. T.G. Redgrave, B. C. Mortimer, **I.J. Martins**. Receptor-ligand interactions in the hepatic uptake of chylomicron remnants studied with genetically manipulated mice. In: *Hepatic endocytosis of lipids and proteins.* 34 Suppl 1996.3. 105-107. *Zeitschrift fur Gastroenterologie.* (**Impact Factor =0.88**)
29. Redgrave, T.G., **IJ. Martins**, and B-C. Mortimer. 1995. Measurement of expired carbon dioxide to assess the metabolism of remnant lipoproteins. *J. Lipid Res.* 36: 2670-2675. (**Impact Factor = 4.4**)
30. Mortimer, B-C., D.J. Beveridge, **I.J. Martins** and T.G. Redgrave. 1995. Intracellular localization and metabolism of chylomicron remnants in the livers of low density lipoprotein receptor-deficient mice and apo E-deficient mice. Evidence for slow metabolism via an alternative apo E dependent pathway. *J. Biol. Chem.* 48: 28767-28776. (**Impact Factor = 5.5**)
31. **I.J.Martins**, A.J. Sainsbury, J.C.L. Mamo and T.G. Redgrave. 1994. Lipid and apolipoprotein B48 transport in mesenteric lymph and the effect of hyperphagia on chylomicron clearance in insulin-deficient rats. *Diabetologia.* 37: 238-246. (**Impact Factor = 6.42**)

32. **I.J. Martins** and T. G. Redgrave. Measurement of chylomicron remnant metabolism by a newly developed breath test for the evaluation of post-prandial atherogenesis. The 1st International workshop on Atherosclerosis Research of Australian-Japanese co-operation. Tokyo Jan 20-21. 1994. 74-77. Editors: Akira Yamamoto and P.J. Nestel.
33. B.C. Mortimer, D.J.Holthouse, **I.J.Martins**, R.V. Stick and T.G. Redgrave. 1994. Effects of triacylglycerol saturated acyl chains on the clearance of chylomicron-like emulsions from the plasma of the rat. *Biochim. Biophys. Acta.* 1211: 171-180. (**Impact Factor = 4.2**)
34. Y. Chen, M. A. Burton, **I.J. Martins**, J.P.Coode, S.Napoli and B. N. Gray. 1992. Evaluation of Ion-exchange microspheres as carriers for the anti-cancer drug Doxorubicin: In vitro studies. *J. Pharm. Pharmacol.* 44: 211-215. (**Impact Factor = 1.85**)
35. S.Napoli, **I.J. Martins**, M. A. Burton, Y. Chen, J.P.Coode, S.Napoli and B. N. Gray. 1992. Dose response and toxicity of doxorubicin microspheres in a rat tumour model. *Anti-cancer Drugs.* 3 (1): 47-53. (**Impact Factor = 2.36**)
36. **I.J.Martins** and T.G. Redgrave. 1992. The effects of Insulin-deficiency on the metabolism of High Density Lipoprotein Phospholipids in Rats. *Biochem J.* 281: 851-857. (**Impact Factor = 4.4**)
37. **I.J.Martins**, L. Hopkins, C. Joll and T.G. Redgrave. 1991. Interactions between triacylglycerol-rich Model lipoproteins and High Density lipoproteins in rat, rabbit and man. *Biochim. Biophys.Acta.* 1081: 328-338. (**Impact Factor = 4.18**)
38. N.P. Lenzo, **I.J. Martins**, B. C. Mortimer and T.G. Redgrave. 1988. Effects of phospholipid composition on the metabolism of triacylglycerol, cholesteryl ester and phosphatidylcholine from lipid emulsions injected intravenously in rats. *Biochim. Biophys. Acta.* 960: 111-18. (**Impact Factor = 4.18**)
39. **I.J. Martins**, N.P. Lenzo and T.G. Redgrave. 1989. Phosphatidylcholine metabolism after transfer from lipid emulsions injected intravenously into rats. Implications for High Density lipoprotein metabolism. *Biochim. Biophys. Acta.* 1005: 217-224. (**Impact Factor = 4.18**)

Patents

Title of Invention: Screening Methods and the use of Identified Agents for Alzheimer's disease. PCT/AU02/01754 2002 (Current) Alzhyme Pty Ltd.

Title of Invention: Use of apolipoprotein or clearing beta amyloid protein from the periphery PS3056 2002 (Not continuing) Alzhyme Pty Ltd.

Title of Invention: Diagnostic AT Breath test International Patent application No. PCT/AU94/00663

Title of Invention: Labelled diagnostic compositions and method of their use **United States** Patent application No. 08/648080

Title of Invention: Oral Delivery of Peptides International Patent application No. PCT/AU97/00344

Consultancies

Consultant to Inovax Ltd. (Scientific Advisor) Inovax (Australia) 1994-1999

**Other Academic
Contributions**

Reviewer for various International Journals (few examples)

SEVERAL JOURNALS ARE LISTED ON PUBLONS

<https://publons.com/researcher/.../ian-james-martins-fellow-for-the-international-age/>

Reviewer for National Health and Medical Research Council

Assessor for NHMRC

1999/2000

**Research Grants
Awarded**

Chief/Associate Investigators:

NHMRC 595312 & NHMRC 595300 Prof. R.Martins, **Dr I. Martins**, D K.Taddei, Dr M. Ladu, Dr M. Sharman 2010-2012 \$938,775

The effect of human apo E isoforms and apo E receptors on the clearance of oligomeric abeta42 by hepatocytes in vitro

Enhancing peripheral clearance of beta amyloid as a treatment for AD

Prof. R.Martins, **Dr I. Martins**, Dr G Verdile, Dr J.Phillips. 2007-2009 Continuing.

Alzheimer's Disease and Research Care

\$327,890

Investigating beta amyloid clearance in vivo

Chief Investigator:

NHMRC 324100 Prof. R.Martins, **Dr I. Martins**, A/Prof Nicola Lautenschlager

2005-2007

\$422,750

Molecular and Neuropsychological Predictive Markers of Cognitive Decline

ECU Small Grant Chief Investigator: **Dr I. Martins** 2006 Current Status: Completed

\$5000

Cholesterol, High fat diets, exercise and cholesterol lowering drugs on beta-amyloid Clearance and deposition in brains of Alzheimer's transgenic mice

Hollywood Pvt Hospital Res Grant **Dr I. Martins** 2006 Current Status: Completed.

\$10,000

Raine Research Foundation **Dr I. Martins** 1999-2000 Current Status: Completed

\$169,000

Metabolism of postprandial lipoproteins in mice and man

Innovax Ltd. Co-Chief investigator on Industry Grant: 1994-1998 Current Status: Completed

\$1,200,000

Development of a breath test for chylomicron remnant metabolism in mice and man

Athelstan and Saw grant Chief Investigator **Dr I Martins** 1994 Current Status: Completed

\$50,000

Effects of butterfats and oils on the clearance of chylomicron remnants

NHMRC Co-investigator: **Dr I Martins** 1993-1995 Current Status: Completed

\$150,000

Binding and endocytosis of chylomicron remnants by low density lipoprotein receptors and proteoglycans to liver cells

Technical Skills:

Microscopy:

Electron, scanning electron, confocal and light microscopy has routinely been used for experimentation relating to cell biology.

Electron microscopy has been used to examine organelles within different cell types.

Scanning electron microscopy has been used to assess changes in cells surface structures.

Lipid emulsion particle size structures have also been determined.

Confocal microscopy has been used extensively for the binding and uptake of fluorescent lipid particles into fibroblast, schwann and liver cells.

Light microscopy has been used extensively to assess the morphology and viability of cells.

Molecular biology:

Genotyping, DNA sequencing and Restriction Fragment Length Polymorphism techniques have been routinely used for screening Australian populations for mutations in Presenilin 1 and Presenilin 2 genes in individuals with Alzheimer's disease. Further studies are underway for mutation screening of samples from individuals with neuropathy (Bulgaria and Germany).

These studies are now being conducted at the Centre for Genetics (Edith Cowan University). Nuclear receptor gene expression assays.

Membrane Stability in model recombinant particles:

Preparation of lipid particles and vesicles :

Sonication and ultracentrifugation has been used to model and prepare Lipid emulsion particles and unilamellar, bilamellar vesicles.

Interactions of protein and lipid particles was assessed by surface plasmon resonance.

Various phospholipids were used to determine the importance of phospholipid in determining surface membrane stability and particle aggregation and normal metabolism of lipid particles in intact rodents.

Phospholipid vesicles were used to fuse bilamellar vesicles to label High Density lipoproteins in vivo.

Importance of cholesterol in determining membrane stability of lipoprotein particles has also been studied.

Ultracentrifugation:

Density gradient ultracentrifugation and sequential ultracentrifugation have been used.

Preparation of subcellular organelles. Eg Mitochondria

Lipoprotein particles

Lipid emulsions

Expertise with a number of different types of rotors

Assessment of the metabolism of lipid emulsions by subcellular organelles by collection of $^{13}\text{CO}_2$ in vivo

Lipid emulsions were injected into mice and intracellular metabolism of fatty acids

by mitochondria within cells was assessed by collection of $^{13}\text{CO}_2$. Inhibition of mitochondrial enzymes inhibited the intracellular metabolism of the lipid emulsions.

Cell culture:

Primary cultures of fibroblasts were grown. Hep G2 and fibroblast cell lines have been cultured for binding and uptake studies.

Chemical Analyses:

Analysis of various lipids, proteins, hormones (radioimmunoassays) and various other analytes have been conducted.

Lipidomic analysis:

Lipidomics research involves the identification and quantification of the thousands of cellular lipid molecular species and their interactions with other lipids, proteins, and other metabolites. Investigators in lipidomics examine the structures, functions, interactions, and dynamics of cellular lipids and the changes that occur during perturbation of the system.

Chromatography:

Separation of drugs, lipids, proteins and other analytes have been conducted.

Thin layer chromatography (Silica plates)

Column chromatography (sepharose, agarose and other gel media)

High Performance Liquid Chromatography

Electrophoresis:

Sodium dodecyl sulphate electrophoresis

Agarose electrophoresis

Isoelectric focusing

2-Dimensional electrophoresis

Surface plasmon resonance:

The kinetics of binding of apo E proteins to ID7 monoclonal antibody was studied.

Association and dissociation constants were determined from sensograms.

Radioisotopes:

A number of isotopes have been used such as ^3H , ^{14}C and ^{125}I .

The radiolabels have been used to trace lipid and proteins in experiments involving radioimmunoassays and other in vivo and in vitro experiments.