

SUMMARY CV: Professor David E. James

NAME	POSITION TITLE
DAVID ERNEST JAMES	Biology Domain Leader and NHMRC Senior Principal Research Fellow Charles Perkins Centre, University of Sydney Address: Building D17, John Hopkins Drive, Charles Perkins Centre, University of Sydney, NSW 2006 Email: david.james@sydney.edu.au Phone: 02 86271621

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	YEAR/s	FIELD OF STUDY
University of New South Wales, Sydney, Australia	BSc	1979	Biochemistry/Physiology
Garvan Institute/UNSW, Sydney, Australia	PhD	1985	Biochemistry/Physiology

Professional Experience

2014-present	Leonard P Ullmann Chair of Systems Biology, Charles Perkins Centre, School of Molecular Bioscience, School of Medicine, University of Sydney
2002-2014	Director and NHMRC Senior Principal Research Fellow, Diabetes and Obesity Research Program, Garvan Institute of Medical Research, Sydney, Australia.
1998-2001	NHMRC Principal Research Fellow, Institute for Molecular Bioscience, University of Queensland, Brisbane, Australia.
1995-1999	Associate Director, Centre for Molecular and Cellular Biology, University of Queensland, Brisbane, Australia.
1993-1995	Professorial Research Fellow, Centre for Molecular & Cellular Biology and Department of Physiology & Pharmacology, University of Queensland, Brisbane, Australia.
1988-1993	Assistant Professor, Washington University School of Medicine, Department of Cell Biology/Physiology, St Louis, Missouri, USA.
1985-1988	Postdoctoral Fellow with Dr Paul Pilch, Dept of Biochemistry, Boston University, School of Medicine, Boston, MA, USA.

Honours and Awards

2018	Basic Science Lecturer, Cardiac Society of Australia and New Zealand Annual Meeting
2017	Awarded Best Speaker at F1000 Winter School
2016	NSW Premier's Prize for Medical Research
2014	Presidents Medal Australia NZ Society Cell and Developmental Biology
2008	Millennium Award, Diabetes Australian Research Trust
2007	Fellow of the Australian Academy of Science
2006	Kellion Award from the Australian Diabetes Society
2000	Mary Kugel Award for services to the Juvenile Diabetes Foundation
1999	FC Donders Visiting Professor, University of Utrecht, The Netherlands.
1999	Glaxo Wellcome Australia Medal
1993-1997	Wellcome Trust Senior Research Fellowship
1990-1993	Career Development Award, Juvenile Diabetes Foundation
1987	Marios Baladimos Prize, American Diabetes Association, Massachusetts Affiliate

Professional Societies

1993-present	Australian Diabetes Society
1988-present	American Society for Cell Biology
1988-present	American Society for Biochemistry and Molecular Biology
1997-present	Australia New Zealand Society of Cell Biology
1997-present	Australian Society for Molecular Biology and Biochemistry

2002-present American Diabetes Association
2011-present American Society for Microbiology
2015-present Australian Physiological Society

Teaching Experience

2010-present Lecturer, Science students, Sydney University
2002-2013 Lecturer, 1st, 2nd & 3rd year Science students, University of New South Wales
1993-2001 Lecturer, 2nd & 3rd year Science students, University of Queensland
1988-1993 Lecturer, 1st Year Medical Students and Graduate Students, Washington University School of Medicine.
1982-84 Tutor, 3rd year Physiology students, University of New South Wales
1983-85 Lecturer, 3rd year Physiology and Medical students, University of New South Wales
1979 Tutor, School of Biochemistry, University of New South Wales

Selected Funding

2013-15 NHMRC Project grant “Dissecting the role of insulin-regulated phosphorylation of Rab guanine nucleotide exchange factors in GLUT4 trafficking” \$606,767, Lead CI
2012-16 NHMRC Senior Research Fellowship, \$869,860
2014-17 NHMRC Project Grant “Understanding the link between obesity, impaired insulin action and long term health” \$941,166, Lead CI
2016-18 NHMRC Project Grant “Molecular pathways linking nutrition and age-related health” \$376,012, CI
2015-18 NHMRC Project Grant “Metabolic wiring in adipocytes - unique role in maintaining long-term health” \$1,036,221, Lead CI
2015-19 NHMRC Project Grant “Defining factors that contribute to individual diversity in the diet-health axis” \$1,598,568, Lead CI
2017-20 NHMRC Project Grant “Dissecting Rapamycin sensitive and insensitive effects of mTOR” \$1,210,300, Lead CI

Postgraduate Students and Postdoctoral Fellows

Supervised 32 PhD projects (5 current); ~90% students remain actively engaged in research. Mentored 40 postdoctoral fellows from 11 countries. A number of these individuals hold important research roles elsewhere: Nia Bryant (Prof, Univ York), Ken Rodnick (Assoc Prof, Idaho State), Roland Govers (Assist Prof, INSERM, France), Annette Shewan (Early Career Fellow, School of Chemistry and Molecular Biosciences, Univ Queensland), Samantha Hocking (Diabetes Chair, Sydney University), Robert Piper (Prof, Univ Iowa), Duncan Blair (Advisor to Clinton Foundation HIV Consortium, Asia), Shane Rea (Assoc. Prof, Univ Texas, San Antonio), Michelle Hill (Group Leader QIMR), Georg Ramm (Head EM Unit, Monash), Ping Zhao (Assist Prof, Sth Central Univ, Wuhan, China), Lindsay Wu (Senior Lecturer UNSW), Nolan Hoffman (Group Leader Aust Catholic Uni), Samantha Hocking (Assoc Prof USyd) and Kyle Hoehn (Assoc Prof, UNSW).

Editorial Work

Grant review committees - Juvenile Diabetes Foundation, NHMRC (Program Grants, Project Grants, Fellowships).

2011-13 NHMRC Academy

2016-2018 Chair Sectional Committee, Australian Academy of Science

Editorial boards current: *Journal of Clinical Investigation*, *Cell Metabolism*, *Cell Stress*, *Diabetes International* and past: *Traffic*, *JBC*, *AJP* and *Molecular Membrane Biology*. *Molecular Cell Biology*

Ad hoc reviewer for *Nature*, *Science*, *Nature Comm*, *Nature Meth*, *Nat Cell Biol*, *Sci Signal*.

Selected Presentations

2018 Keystone meeting on Diabetes Mellitus, Seoul, Korea, American Diabetes Assoc annual meeting, Florida, Cold Spring Harbour Asia Conference on Diabetes, Suzhou, China, Keystone meeting on Diabetes and Obesity, Keystone, USA
2017 FASEB Glucose Transporter Meeting, Colorado
Cell Symposia: Exercise and Metabolism, Gothenburg

- International Society of Nutrigenomics and Nutrigenomics, Los Angeles
 16th Human Proteome Organization World Congress (HUPO), Dublin
 Novo Nordisk Conference on Metabolism in Action, Copenhagen
 International Symposium for Trans-Omics, Tokyo
- 2016 EMBO Conference on Visualising Biological Data (VIZBI),
 Heidelberg
 Integrative Biology of Exercise VII meeting, Phoenix
 Association for the Study of Diabetes 8th Scientific Meeting, Taiwan
 British Society for Proteome Research meeting, Glasgow
 FASEB Protein Kinase Signalling Network Regulation, Colorado
 American Diabetes Association 76th Science Sessions, New Orleans
 Croucher Advanced Study Institute, Hong Kong
- 2015 Cell Press Exercise Biochemistry Meeting, Amsterdam
 Cold Spring Harbour (CSH) Metabolic
 Disease Meeting; FASEB Glucose Transport Meeting, Montana.
- 2014 Western Pacific IDF, Singapore
 Cell Press Systems Biology Meeting, Chicago
- 2013 IDF, Melbourne
 CSH Diabetes Meeting, Suzhou
 FASEB Diabetes meeting, Colorado
- 2012 Novo Nordisk Prize Symposium, Copenhagen
 Korean Endocrine Society, Seoul.
- 2011 IDF, Dubai; Merck, Diabetes Global Forum, Philadelphia
 Keystone Symposia, Colorado
- 2010 Science & Technology Week, Shanghai
 International Congress on Obesity, Stockholm, Japan
 Diabetes Society Okayama; ICE Congress, Osaka

Contribution to Research Field

James is actively engaged in developing the research direction and culture at the Charles Perkins Centre (CPC) as head of the Biology Domain. He has spearheaded a regular seminar program, scientific collaborations and recruited 5 new groups to the CPC who will form the core of the Metabolic and Systems Biology Domain.

James, together with Masato Kasuga, developed the Asia Pacific Diabetes Obesity study group and 2017 marks the 11th successful annual meeting

James was president of the Hunter Meetings for 5 years, playing a major role in developing new directions including the Hunter Systems Biology Meeting in 2015.

Patents

Australian Provisional Patent Application No 2003906285, “Method of treatment of feeding disorders and disorders of glucose uptake or metabolism and identifying therapeutic reagents therefore”

Australian Provisional Patent App No 2003906286, “Novel method of modulating fat deposition and metabolism and metabolic rate”

Australian Provisional Patent Application No 2003904237, “Novel Translocation Assay”

13, 13a-Dihydroberberine derivatives, their pharmaceutical compositions and uses Inventors: HU Lihong, LI Jingya, CHENG Zhi, LI Jia, Edward W Kraegen, WEI Han, YE Jiming Shanghai Institute of Materia Medica, Chinese Academy of Sciences; Garvan Medical Research Institute. Chinese provisional patent

“Cucurbitane Triterpenoid Compounds and Combinations: Preparation Methods and Therapeutic Utilities for Diabetes and Obesity”. Chinese provisional application.

Use of Compounds Extracted from Momordica Charantia L in the manufacture of Medicaments for prevention and treatment of Diabetes and Obesity: JAMES David, YE Jiming, KRAEGEN, Edward, COONEY, Greg. Jiming Shanghai Institute of Materia Medica, Chinese Academy of Sciences; Garvan Medical Research Institute. Application Number is: 09708356.2-1216 PCT/CN200900050