
CURRICULUM VITAE

NAME WALKER, Gillian Elisabeth		POSITION TITLE Post Doctoral Research Fellow		
DATE, PLACE OF BIRTH AND CITIZENSHIP 30/01/68 Penang, Malaysia Australia				
EDUCATION/TRAINING				
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY	RESULT
University of New South Wales	B.Sc.	1986-1990	Microbiology/Biochemistry	Credit
Queensland University of Technology	M.Sc.	1994-1995	Molecular Endocrinology	*
Queensland University of Technology	Ph.D.	1995-1999	Molecular Endocrinology	High Distinction
*Awarded an “Upgrade” for excellence				

Positions and Awards

Positions and Employment

1990 - 1994 Research Assistant, Diabetes Branch, NIDDK, NIH, Bethesda, MD, USA
1999 - 2000 Lab Manager, Department of Pediatrics, OHSU, Portland, OR, USA
2000 - 2002 Post-Doctoral Research Fellow, Department of Pediatrics, OHSU, Portland, OR, USA
2003 - 2008 Post-Doctoral Research Fellow, I.R.C.C.S. Istituto Auxologico Italiano, VB, Italy
2008 - 2017 Post-Doctoral Research Fellow, Clinical Pediatric Laboratory, Department of Health Sciences, University of Piemonte Orientale, NO, Italy

Other Professional Experience

1995 – 1999 Laboratory Teaching, Queensland University of Technology, Australia
2012 – 2017 Co-supervisor for Biotechnology, Masters, PhD, Medicine for excellence
Member of the America Society for Cancer Research
Member of the Endocrine Society
Member of the European Society for Endocrinology

Awards

1993 - 1994 HOSLS Scholarship, QUT, Australia
1995 - 1998 QUT Postgraduate Award, Australian Commonwealth Government
1996 QUT Postgraduate Grants in Aid Scheme, Australia
2000 IGFBP2000 Travel Award; IGFBP2000 4th International Workshop on IGF Binding Proteins
2001 - 2002 American Association for Cancer Research (AACR)-Astra-Zeneca Award for Translational Lung Research
2011 Poster Award; XVIII National SIEDP Congress

Publications

A total of 36 publications (11 as first author, 1 as closing).
Google Scholar Index: 14

1. Chen H, **Walker GE**, Taylor SI, McKeon C. Proximal enhancer of the human insulin receptor

gene binds the transcription factor Sp1. *Diabetes*, 43 (7):884-889, 1994

2. PH Cooke, C Maake, **GE Walker**, P-A Stahlbom. The Evolution of Insulin-Like Growth Factor-1 and Insulin in Fish. *Growth Regulation*, 4: 103-103, 1994
3. Sara VR, Clayton K, Cooke P, Craven CJ, Garcia-Aragón J, Harmon B, Harvey M, Haase H, Plenderlith M, Richardson N, Sherrard R, Stahlbom P-A., **Walker GE**, Walsh TP. The brain IGF system: Implications for downs syndrome. *Developmental Brain Dysfunction*, 9:85-92, 1996
4. Sara VR, **Walker GE**, Harvey MB. Insulin-like growth factors and fetal growth. *Encyclopedia of Human Biology*, 2nd Edition, Academic press, 117-1 - 117-8, 1997
5. McKeon C, Accili D, Chen H, Pham T, **Walker GE**. A conserved region in the first intron of the insulin receptor gene binds the nuclear proteins during adipocyte differentiation, *Biochemical Biophysical Research Communications* 240:701-706, 1997
6. **Walker, Gillian E**. The expression and regulation of human insulin-like growth factor-1 (IGF-1) during cellular growth, differentiation and tumourigenesis. PhD thesis, Queensland University of Technology, Brisbane, QLD, Australia, 1998
7. **Walker GE**, Wilson EM, Powell DR, Oh Y. Butyrate, a Histone Deacetylase Inhibitor, Activates the Human IGFBP-3 Promoter in Breast Cancer Cells: Molecular Mechanism involves an Sp1/Sp3 multi-protein. *Endocrinology* 142:3817-3827, 2001
8. **Walker GE**, Kim H-S, Yang Y-F, Oh Y. IGF-independent effects of the IGFBP superfamily. In "Insulin-like growth factor" Eds LeRoith D and Baxter RC, Landes Bioscience, 2003
9. Kim H-S, Ingermann AR, Yang Y-F, **Walker GE**, Oh Y. Insulin-like growth factor-binding protein 3 induces caspase-dependent apoptosis through a death receptor-mediated pathway in MCF-7 human breast cancer cells. *Cancer Research* 64(6):2229-2237, 2004
10. Marzullo P, Verti B, Savia G, **Walker GE**, Guzzaloni G, Tagliaferri M, Di Blasio AM, Liuzzi A. The relationship between active ghrelin levels and human obesity involves alterations in resting energy expenditure. *J Clin Endocrinol Metab* 89(2):936-939, 2004
11. **Walker GE**, Antoniono RJ, Ross HJ, TE Paisley, Oh Y. Neuroendocrine-like differentiation in non-small cell lung carcinoma cells: regulation by cAMP and the interaction of mac25/IGFBP-rP1 and 25.1. *Oncogene*, 25(13):1943-54, 2006
12. Marzullo P, Caumo A, Savia G, Verti B, **Walker GE**, Maestrini S, Tagliaferri A, Di Blasio AM, Liuzzi A. Predictors of postabsorptive ghrelin secretion after intake of different macronutrients. *J Clin Endocrinol Metab*, 91(10):4124-30, 2006
13. Maestrini S, Mencarelli M, Verti B, **Walker GE**, Savia G, Marzullo P, Tagliaferri M, Liuzzi A, Di Blasio AM. Lack of association between the tetranucleotide repeat polymorphism in the 3'-flanking region of the leptin gene and hypertension in severely obese patients. *J Endocrinol Invest*, 29(9):776-780, 2007
14. **Walker GE**, Verti B, Marzullo P, Savia G, Mencarelli M, Zurleni F, Liuzzi A, Di Blasio AM. Deep sub-cutaneous adipose tissue (dSAT): A metabolically distinct abdominal adipose tissue depot. *Obesity Research*, 15(8):1933-1943, 2007
15. Mencarelli M, **Walker GE**, Maestrini S, Alberti L, Verti B, Brunani A, Petroni ML, Tagliaferri M, Liuzzi A, Di Blasio AM. Sporadic mutations in melanocortin receptor 3 in morbid obese individuals. *Eur J Hum Genetics* 16(5):581-586, 2008
16. Marzullo P, Salvadori A, Brunani A, Verti B, **Walker GE**, Fanari P, Tovaglieri I, De Medici C, Savia G, Liuzzi A. Acylated ghrelin decreases during acute exercise in the lean and obese state. *Clin Endocrinol* 69:970-971, 2008
17. **Walker GE**, Marzullo P, Verti B, Guzzaloni G, Maestrini S, Zurleni F, Liuzzi A, Di Blasio AM. Subcutaneous Abdominal Adipose Tissue Subcompartments: Potential Role in Rosiglitazone Effects. *Obesity*, 16(9):1983-1991, 2008
18. Prodam F, Bellone S, Grugni G, Crinò A, Ragusa L, Franzese A, Di Battista E, Corrias A, **Walker G**, Rapa A, Aimaretti G, Bona G. Influence of age, gender, and glucose tolerance on fasting and fed acylated ghrelin in Prader Willi syndrome. *Clin Nutr* 28: 94-99, 2009

19. Salvadori A, Fanari P, Marzullo P, Codecasa F, Tovaglieri I, Cornacchia M, **Walker G**, Brunani A, Longhini E (2010). Dynamics of GH secretion during incremental exercise in obesity, before and after a short period of training at different work-loads. *Clinical Endocrinology*, 73: 491-496, 2010
20. Trovato L, Riccomagno S, Prodam F, Genoni G, **Walker GE**, Moia S, Bellone S, Bona G. Isolated GHD: investigation and implication of JAK/STAT related genes before and after rhGH treatment. *Pituitary*. 15(4):482-489, 2012
21. Bellone S, Prodam F, Savastio S, Avanzo D, Pagani A, Trovato L, **Walker GE**, Genoni G, Bona G. Acylated/unacylated ghrelin ratio in cord blood: correlation with anthropometric and metabolic parameters and pediatric lifespan comparison. *Eur J Endocrinol*. 166(1):115-20, 2012
22. Monzani A, Moia S, Prodam F, **Walker GE**, Bellone S, Petri A, Bona G. A novel familial variation of the thyroid hormone receptor beta gene (I276N) associated with resistance to thyroid hormone. *Thyroid*. 2012 Apr;22(4):440-441, 2012
23. Trovato L, Prodam F, Genoni G, De Rienzo F, **Walker GE**, Moia S, Riccomagno S, Bellone S, Bona G. Involvement of genes related to inflammation and cell cycle in Idiopathic Short Stature. *Pituitary*. 16(1):83-90, 2013
24. Stefania Moia, Michela Godi, **Gillian Elisabeth Walker**, Patrizia Agretti, Massimo Tonacchera, Rosario Berardi, Simonetta Bellone, Flavia Prodam, Mara Giordano, Gianni Bona. W520X mutation in the TSHR gene brings on subclinical hypothyroidism through an haploinsufficiency mechanism. *J Endocrinol Invest*. 36(9): 716-721, 2013
25. **Gillian E. Walker**, Roberta Ricotti, Marta Roccio, Stefania Moia, Simonetta Bellone, Flavia Prodam,* Gianni Bona.* Proteomic analysis of pediatric obesity identifies multimeric adiponectin as a key plasma protein linked to vitamin D deficiency. *PLoS One*. 2014 Jan 3;9(1):e83685, 2014 * Co-last author.
26. **Walker GE**, Marzullo P, Ricotti R, Bona G, Prodam F. The pathophysiology of abdominal adipose tissue depots in health and disease. *Hormone Molecular Biology and Clinical Investigation*, 19: 57-74, 2014
27. **Walker GE**, Marzullo P, Prodam F, Bona G, Di Blasio AM. Obesity modifies expression profiles of metabolic markers in superficial and deep subcutaneous abdominal adipose tissue depots. *Endocrine*, 46; 99-106, 2014
28. Babu D, Mellone S, Fusco I, Petri A, **Walker G**, Bellone S, Prodam F, Momigliano Richiardi P, Bona G, Giordano M (2014). Novel mutations in the GH gene (GH1) uncover putative splicing regulatory elements. *Endocrinology*, 155(5): 1786-1792, 2014
29. Marzullo P, Minocci A, Giarda P, Marconi C, Tagliaferri A, **Walker GE**, Scacchi M, Aimaretti G, Liuzzi A. Lymphocytes and immunoglobulin patterns across the threshold of severe obesity. *Endocrine*, 45; 392-400, 2014
30. Grossini E, Prodam F, **Walker GE**, Sigaud L, Farruggio S, Bellofatto K, Marotta P, Molinari C, Mary D, Bona G, Vacca G. Effect of monomeric adiponectin on cardiac function and perfusion in anesthetized pig. *J Endocrinol*. 2014 Jul;222(1):137-149, 2014
31. Stefania Mai, **Gillian E. Walker**, Amelia Brunani, Gabriele Guzzaloni, Glenda Grossi, Alberto Oldani, Gianluca Aimaretti, Massimo Scacchi, Paolo Marzullo. Inherent insulin sensitivity is a major determinant of multimeric adiponectin responsiveness to short-term weight loss in extreme obesity. *Scientific Reports* 4; 5803, 2014
32. Prodam Flavia, Roccio Marta, Trovato Letizia, Ricotti Roberta, Moia Stefania, Giglione Enza, Petri Antonella, **Walker Gillian E**, Bellone Simonetta, Bona Gianni. Adiponectin oligomers are similarly distributed in adequate-for-gestational-age obese children irrespective of feeding in their first year. *Pediatric Research*, 77;808-813, 2015
33. Grossini E, Raina G, Farruggio S, Camillo L, Molinari C, Mary D, **Walker GE**, Bona G, Vacca G, Moia S, Prodam F, Surico D. Intracoronary Des-Acyl Ghrelin Acutely Increases Cardiac Perfusion Through a Nitric Oxide-Related Mechanism in Female Anesthetized Pigs. *Endocrinology*. 157(6):2403-15, 2016

34. Prodam F, Zanetta S, Ricotti R, Marolda A, Giglione E, Monzani A, **Walker GE**, Rampone S, Castagno M, Bellone S, Petri A, Aimaretti G, Bona G. Influence of Ultraviolet Radiation on the Association between 25-Hydroxy Vitamin D Levels and Cardiovascular Risk Factors in Obesity. *J Pediatr.* 171:83-9.e1., 2016
35. **Gillian E Walker**, Marilisa De Feudis, Marta Roccio, Gianni Bona, Flavia Prodam. Proteomics in the Characterization of New Target Therapies in Pediatric Obesity Treatment. *Anti-Obesity Drug Discovery and Development*, Atta-ur-Rehman and M. Iqbal Choudhary (Eds), Bentham Science Publishers, Vol. 3, 3-85, 2017
36. Mai S, **Walker GE**, Vietti R, Cattaldo S, Mele C, Priano L, Mauro A, Bona G, Aimaretti G, Scacchi M, Marzullo P. Acute Vitamin D₃ Supplementation in Severe Obesity: Evaluation of Multimeric Adiponectin. *Nutrients.* 9(5). pii: E459, 2017

Research Support

Progetto di Ricerca Corrente, Walker (PI)

01/01/05-01/01/07

Ministerial

The expression and activity of signal transducers and activators of transcription (STAT) 5a and 5b in abdominal fat depots from normal and obese subjects.

Characterization of a possible therapeutic target for obesity.

Role: Researcher

American Association for Cancer Research (AACR)-Astra-Zeneca, Walker (PI) 01/01/01-01/01/04

Neuroendocrine-like differentiation in non-small cell lung carcinoma cells: regulation by cAMP and the interaction of mac25/IGFBP-rP1 and 25.1.

Method to sensitize chemotherapy-resistant NSCLC to chemotherapeutic drugs.

Role: Principal Investigator

Oregon Cancer Center Grant, Walker (PI)

01/01/00-01/01/03

Neuroendocrine-like differentiation in non-small cell lung carcinoma cells: regulation by cAMP and the interaction of mac25/IGFBP-rP1 and 25.1.

Method to sensitize chemotherapy-resistant NSCLC to chemotherapeutic drugs.

Role: Principal Investigator

I give authorization for the use of my personal data according to the Italian law (lgs 196/03) and the European law (1995/46EC).

Gillian E. Walker