Gavin E. Reid, PhD

Professor of Bioanalytical Chemistry

School of Chemistry Department of Biochemistry and Molecular Biology The University of Melbourne

Bio21 Molecular Science and Biotechnology Institute 30 Flemington Rd, Parkville Victoria 3010, Australia

E-mail: gavin.reid@unimelb.edu.au Homepage: http://www.biochemistry.unimelb.edu.au/research/res_reid.html



Education

2012-2014

1998-2000	PhD	School of Chemistry. University of Melbourne
1997	Post Graduate	School of Chemistry. University of Melbourne
	Diploma in Science	
1990-1991	Associate Diploma of Applied Science	Swinburne College of TAFE

Professional Experience

i i oressionar Emperi	ence	
2014-	Professor of	School of Chemistry. Department of Biochemistry
	Bioanalytical	and Molecular Biology. Bio21 Molecular Science
	Chemistry	and Biotechnology Institute. The University of
		Melbourne, Parkville, Vic, Australia
2009-2014	Associate Professor	Department of Chemistry. Department of
		Biochemistry and Molecular Biology. Michigan
		State University. East Lansing, MI, USA
2004-2009	Assistant Professor	Department of Chemistry. Department of
		Biochemistry and Molecular Biology. Michigan
		State University. East Lansing, MI, USA
2002-2004	Assistant Member	Joint Proteomics Laboratory. The Ludwig Institute
		for Cancer Research. Parkville, Victoria, Australia
2000-2002	Post Doctoral	Purdue University. Department of Chemistry. West
	Research Fellow	Lafayette, Indiana, USA
1987-1998	Research Officer	Joint Protein Structure Laboratory. The Ludwig
		Institute for Cancer Research and The Walter and
		Eliza Hall Institute for Medical Research, Parkville,
		Victoria, Australia
Academic Society		
2015 -	Treasurer	Australasian Proteomics Society
2015-	Secretary	Australian and New Zealand Society for Mass

SpectrometryMember at Large forAmerican Society for Mass Spectrometry

Education
Associate Editor

Journal of the American Society for Mass Spectrometry

Publications

2013-

- Pang, Y., Wang, W., <u>Reid, G.E.</u>, Hunt, D.F. and Bruening, M.L. Pepsin-Containing Membranes for Controlled Monoclonal Antibody Digestion Prior to Mass Spectrometry Analysis. *Anal. Chem.* 2015, 87: 10942-10949.
- Zhou, X., Mester, C., Stemmer, P.M. and <u>Reid, G.E.</u> Oxidation Induced Conformational Changes in Calcineurin Determined by Covalent Labelling and Tandem Mass Spectrometry. *Biochemistry*. 2104, 53: 6754-6765.
- Fhaner, C.J., Liu, S., Ji, H., Simpson, R.J. and <u>Reid, G.E.</u> Comprehensive Lipidome Profiling of Primary and Metastatic Colon Adenocarcinoma Cell Lines. *Anal. Chem.* 2012, 84: 8917-8926.
- Mathivanan, S., Fhaner, C.J., <u>Reid, G.E.</u> and Simpson, R.J. ExoCarta 2012: database of exosomal proteins, RNA and lipids. *Nucleic Acids Res.* 2012, 40: D1241-D1244.
- Palumbo, A.M., Smith, S.A., Kalcic, C.L., Dantus, M., Stemmer, P.M. and <u>Reid, G.E.</u> Tandem Mass Spectrometry Strategies for Phosphoproteome Analysis. *Mass Spectrom. Rev.* 2011, 30: 600-625.
- Wang, W-H., Palumbo, A.M., Tan, Y-J., <u>Reid, G.E.</u>, Tepe, J.J. and Bruening, M.L. Identification of p65-associated Phosphoproteins by Mass Spectrometry after On-plate Phosphopeptide Enrichment Using Polymer-oxotitanium Films. J. Prot. Res. 2010, 9: 3005-3015.
- Dunn, J.D., <u>Reid, G.E.</u> and Bruening, M.L. Techniques for phosphopeptide enrichment prior to analysis by mass spectrometry. *Mass Spectrom. Rev.* 2010, 29: 29-54.
- Meyer, J., Froelich, J.M., <u>Reid, G.E.</u>, Karunarathne, W. and Spence, D. Metal-activated C-peptide Facilitates Glucose Clearance and the Release of a Nitric Oxide Stimulus via the GLUT1 Transporter. *Diabetologia*. 2008, 51: 175-182.
- Wang, Y., Scherperel, G., Roberts, K.D., Jones, A.D., <u>Reid, G.E.</u> and Yan, H. A Point Mutation Converts Dihydroneopterin Aldolase to a Cofactor-Independent Oxygenase. J. Am. Chem. Soc. 2006, 128: 13216-13223.
- <u>Reid, G.E.</u>, Roberts, K.D., Kapp, E.A. and Simpson, R.J. Statistical and Mechanistic Approaches to Understanding the Gas-phase Fragmentation Behaviour of Methionine Sulfoxide Containing Peptides. J. Prot. Res. 2004, 3: 751-759.
- Kapp, E.A., Schütz, F., <u>Reid, G.E.</u>, Eddes, J.S., Moritz, R.L., O'Hair, R.A.J., Speed, T.P. and Simpson, R.J. Mining a tandem mass spectrometry database to determine the trends and global factors influencing peptide fragmentation. *Anal. Chem.* 2003, 75: 6251-6264.
- <u>Reid, G.E.</u> and McLuckey, S.A. "Top down" protein characterization via tandem mass spectrometry. *J. Mass Spectrom.* 2002, 37: 663-675.
- Verhagen, A.M., Ekert, P.G., Pakusch, M., Silke, J., Connolly, L.M., <u>Reid, G.E.</u>, Moritz, R.L., Simpson, R.J. and Vaux, D.L. Identification of DIABLO, a mammalian protein that promotes apoptosis by binding to and antagonizing IAP proteins. *Cell*. 2000, 102: 43-53.
- Simpson, R.J. Connelly, L.M., Eddes, J.S., Pereira, J.J., Moritz, R.L. and <u>Reid, G.E.</u> Proteomic analysis of the human colon carcinoma cell line (LIM 1215): Development of a membrane protein database. *Electrophoresis*. 2000, 21: 1707-1732.