

## BIOGRAPHICAL SKETCH

NAME <b>Mark Scott Baker</b>	POSITION TITLE Director, Australian Proteome Analysis Facility Convenor, Proteomics Australia Professor, Macquarie University		
CURRENT AFFILIATION: <b>Australian Proteome Analysis Facility          Macquarie University</b>			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Macquarie University, Sydney, Australia	BSc(Hons1)	1981	Free radical biochemistry
Macquarie University, Sydney, Australia	PhD	1985	Protein biochemistry
Monash University, John Curtin School of Medical Research, ANU, Wollongong University & University of Melbourne	Postdoctoral	1986-2003	Pathology of Human Disease Oncoproteomics
LumiCyte, Fremont, USA	Director (Biomarker Discovery)	2000-3	Biochip Platform Development
APAF, Macquarie University, Sydney, Australia	CEO/Director	2003-8	Proteomics Services & Technology Development

List of five recent publications by the candidate:

- Ahmed N, Niu J, Dorahy DJ, Gu X, Andrews S, Meldrum C, Scott RJ, **Baker MS**, Macreadie IG & Agrez MV. *Direct integrin alphavbeta6-ERK binding: implications for tumour growth.* Oncogene, 21(9):1370-1380, 2002.
- Saldanha RG, Molloy MP, Bdeir K, Cines DB, Song X, Uitto PM, Weinreb PH, Violette SM, **Baker MS**. *Proteomic Identification of Lynchpin Urokinase Plasminogen Activator Receptor Protein Interactions Associated with Epithelial Cancer Malignancy.* J Proteome Res. 2007 6(3): 1016-1028. [IF= 6.901]
- Uitto PM, Lance BK, Wood GR, Sherman J, **Baker MS**, & Molloy MP. *Comparing SILAC and 2DE Image Analysis for Profiling Urokinase Plasminogen Activator Signaling in Ovarian Cancer Cells.* J Proteome Res., 6(6), 2105-2112, 2007.
- McKay MJ, Sherman J, Laver MT, **Baker MS**, Clarke SJ, Molloy MP, *The Development of Multiple Reaction Monitoring Assays for Liver Derived Plasma Proteins.* Proteomics (Clinical Applications), 1 (12), 1570-1581, 2007.
- Chick JM, Haynes PA, Molloy MP, Bjellqvist B, **Baker MS**, Len ACL *Characterization of rat liver membrane proteome using peptide immobilized pH gradient isoelectric focusing (peptide IPG-IEF).* J Proteome Res. 2008 Jan 23.

Please indicate in 200 words or less the reason(s) why you would be a suitable candidate for the HUPO Council elections.

I have been involved in protein biochemistry since my earliest career and ran 2DE gels during my PhD at Macquarie University in the early 1980's. I have experience in the academic, commercial (industry) and governmental sectors – being on many major Australian government initiatives (e.g., Major National research Facilities Program, NCRIS, Science Industry Action Agendas). I was an inaugural member of HUPO and have sat on the HUPO and AO-HUPO Council since 2005. I am currently the Chair of the HUPO Nominations Committee and a member of the HUPO Awards Committee. I have stood on the Executive Committee of both the local Australian Electrophoresis Society and the Australasian Proteomics Society (immediate Past Secretary). I am delighted to be President of the HUPO2010 World Congress that is to be held in Sydney from September 19-24<sup>th</sup> in 2010. My research interests cover a myriad of technological developments and their application to studies of human disease (especially cancer). As for biological processes, I am active in studying proteins (proteases, inhibitors and receptors) involved in cell migration, cell signaling and how protein: protein interactions drive these critical processes in cancer metastasis.

