

PROFESSIONAL SOCIETIES:

1999:

1. European Society for Toxicology *In Vitro*
2. International Society for Neurochemistry
3. Society for Experimental Biology and Medicine
4. Canadian Society of Pharmaceutical Sciences

2002:

Australian Society for Biochemistry and Molecular Biology

2004-09:

International Society for Neurochemistry (ISN)

2006:

International Stroke Society

2006-2008:

Australian Institute of Medical Scientists (Intermediate Member)

From 2005:

The Royal Australian Chemical Institute Inc. (Member Chartered Chemist)

From 2010:

The American Society for Biochemistry and Molecular Biology (ASBMB)

Society for Enzymology

Health Care subgroup of White House group

OFFICIAL POSTS:

1. **Lead Scientist**, Enzymoic (since Jan 2010).
2. **Visiting Scholar**, Department of Medical & Molecular BioSciences, University of Technology, Sydney, NSW, Australia (10th July 2007 – 31st Dec 2009).
3. **Lead Scientist**, Enzymoics (1st October 2004 – 12th February 2009).
4. **Contractor**, Review Section, Office of Chemical Safety, Department of Health and Aging, Canberra (11th March 2008 – 9th May 2008).
5. **Director**, Novel Property Catalytic Pty Ltd (15/01/2002 - 18/01/2004).
6. **Honorary Associate** in School of Molecular and Microbial Biosciences, The University of Sydney from 1st October 2003 to 31st March 2004.

7. **U2000 Postdoctoral Fellowship** awarded in 2000 by The University of Sydney, School of Molecular and Microbial Biosciences, G08, Sydney, NSW 2006 Australia (from 5th July 2000 - 4th July 2003) for working on "Inhibition of Amido phosphoribosyltransferase by New Antifolates: Design And Mechanism of Action of Purine Antagonists".
8. **Research Assistant**, Department of Biochemistry, College of Science, King Saud University, P.O. Box 2455, Riyadh, 11451, Saudi Arabia for working on the effect of various chemicals and drugs (anti-cancer & anti-Alzheimer's drugs) on acetylcholinesterase (Dec. 1990 to June 2000).
9. **Lecturer** at Department of Chemistry, Gomal University, D. I. Khan, N.W.F.P, Pakistan (Jan 1987 to Dec. 1990).

SCIENTIFIC ROLES:

- "International Scientific Advisory Board" of "The International Institute of Anticancer Research" (IIAR - Advisory Board, Scientific Committee... <http://www.iiar-anticancer.org/iiar/committee.htm>)
- "Forum for European-Australian Science and Technology Cooperation"

PUBLICATIONS in journals and at conferences of international repute:

58 papers (can be viewed on pubmed website, <http://www.ncbi.nlm.nih.gov> by writing Kamal-MA; <http://www.ncbi.nlm.nih.gov/sites/entrez> and <HTTPS://WWW.RESEARCHGATE.NET/AUTHOR/M+A+KAMAL>)

Abstracts:

48 abstracts submitted in different international and national conferences.

BIOGRAPHIES:

1. "WHO'S WHO IN THE WORLD", 1999, 16th Edition page # 797 and in 26th edition of 2009.
2. "Outstanding people of 2000"
3. "WHO'S WHO IN THE SCIENCE AND ENGINEERING", 2002, 6th Edition
4. Proceedings of Sheikh Hamdan Bin Rashid Al Maktoum Award for Med. Sci., 2004.
5. Outstanding Scientists of the 21st Century – Inaugural Ed, 2007.

INVITATION FOR THE MEDICAL CONFERENCE:

3rd Dubai International Conference for Medical Sciences from 14th to 16th Dec. 2004.

MAJOR ACHIEVEMENTS:

- **Significant contribution in discovery** of new potential agents for the treatment of Alzheimer's and related neurodegenerative diseases via collaboration with Dr Nigel H. Greig, Chief, Drug Design & Development Section, Laboratory of Neurosciences, Intramural Research Program, National Institute on Aging, National Institutes of Health, Biomedical Research Center, Baltimore, MD, USA
- Developed new techniques to define and quantify enzyme-substrate interactions
- In addition, a thin layer chromatographic assay was developed for the measurement of phosphoribosyl pyrophosphate extracted from human CCRF-CEM leukaemia cells growing in cell culture for the development of new anti-cancer drugs

PROFESSIONAL ACTIVITIES:

Symposium and Workshops:

1. From Cell Cycle to Biotechnology, 25th Oct, 2000 at The University of Sydney.
2. Agilent Technologies HPLC Workshop, 3rd Aug, 2001, Macquarie University.
3. Research and Development Workshops in relation to the Pharmaceuticals Industry Action Agenda on 15th Nov, 2001 at The University of Sydney, Australia.
4. Influencing without apparent power on 24th Oct 2008 at University of Technology Sydney
5. SleepEasy Workshop by Brenda Doherty on 29th Oct 2008 at University of Technology Sydney

Post Conference attended:

International Workshop on Medical Research Grant & Manuscript Preparation, 17th Dec. 2004, Dubai, UAE

Seminars attended at University of Sydney:

1. The Strategic Direction of Molecular Biology by Dr Merlin Crossley and Prof. Sharad Kumar on 11th Dec 2001
2. Metals, Motions, and macromolecular assemblies in the transcription of genes by Dr. Peter E Wright on 27th March 2002
3. Association of BAFF/BLyS overexpression and altered B cell differentiation with Sjogren's syndrome by Dr. Fabienne Mackay on 12th April 2002
4. Comparative genomics in the post-genomic era: A new set of challenges by Dr Lars Jermiin on 7th June 2002
5. The amazing antibacterial and wound-healing properties of honey by Shona Blair on 14th June 2002
6. Structure-function relationship in metallo-beta-lactamases by Alejandro Vila on 3rd July 2002
7. Genomics & Proteomics: Research Showcase on 13th Sep.2002

8. Novel designs of recombinant antibodies for clinical diagnosis and therapy by Prof. Peter Hudson on 11th Oct 2002
9. Nuclear trafficking by Professor Murray Stewart MRC Laboratory of Molecular Biology, Cambridge on 21 Mar 2003
10. Protein and enzyme bioelectrochemistry - towards the single molecule limit by Professor Jens Ulstrup, Chemistry Technical University of Denmark on 28 March 2003
11. Discovery of protein tyrosine kinase inhibitors by Dr. Chris Burns on 2nd April 2003
12. Recent development in the use of microcalorimetry in the life sciences by Bill Gelb on 29th Jan. 2004
13. Building an academic research career in the Chemical Sciences at UNSW: The First 12 Years by Prof. Tom Davis on 13th April, 2005.
14. Living in a Greenhouse – Global Warming & what's the problem? by Prof. Peter Nelson on 12th Sep 2005.
15. Overview of Research in Pharmaceuticals, Pharmacy Practice and Pharmaceutical Chemistry by Prof. M. Murray, A/Prof. I. Krass and Prof. B. Roufogalis respectively on 26th Sep 2005.
16. Green Chemistry and sustainability – some issues and some solutions by Prof. Thomas Maschmeyer on 22nd May 2006.
17. NSW 2006 Solomon Lecture by Prof. David Tirrell on 13th June 2006.
18. Chemical Education for Application of Microchemistry by Prof. John Bradley on 31st Oct 2006.
19. Chemicals are good for you by Dr Peter Rutledge on 30th April 2007.
20. Yes, We Can: Catalysing Hope for a Sustainable Future by Prof. Sir JM Thomas, Dr FM Dautzenberg and Dr IE Maxwell on 14th April 2009.
21. Itchies and Scratchies" Parasite Quiz Show on 12th July 2009.

Conferences/Seminars/Talk attended at other places in Sydney:

1. Chemical Frauds in the 20th and 21st Centuries delivered by Prof. Brynn Hibbert from UNSW on 15th March 2005 at the University of Western Sydney.
2. Confessions of an Environmental Chemist by Dr. Simon Apte from CSIRO on 19th March 2005 at the University of Western Sydney.
3. Einstein and the Big Bang by Dr. Simon Singh, Dr Matthew Colles and Dr Zdenka Kuncic on 26th May 2005 at ATYP studios, Wharf 4/5 Hickson Road, Walsh Bay.
4. Microwave assisted synthesis by MEP Instruments and Anton Paar on 6th Sep 05 at Boronia Grove, Epping, NSW.
5. The Advanced Analytical Australia Experience by Dr Attila Tottszer at CSIRO Building, Riverside Corporate Park, North Ryde on 17th Nov 2005.
6. Capillary GC and Sample Preparation Seminar Series by Dr Nigel Simpson and Dr Jaap de Zeeuw at Conventions Centre, Taronga Centre, Mosman, NSW on 22nd Nov 2005.
7. Journal Impact Factor by Dr Mabel Chew at Complementary Medicines Centre, University of Western Sydney on 18th May 2006.
8. Evidence based herbal medicine: From drug discovery to botanical dietary supplements by Prof. Harry HS Fong at Complementary Medicines Centre, University of Western Sydney on 8th June 2006.
9. Sports drug testing and the Commonwealth games by Prof. R. Kazlauskas at the University of Western Sydney on 20th June 2006.

10. Bionic Eyes, Artificial Knee Caps and Science-Fact or Fiction? by Prof. Bessim Ben-Nissan at UTS on 19th August 2006.
11. Insights from cellular and molecular investigations of traditional Chinese herbal stroke medicines by Dr Sucher NJ at the University of Western Sydney on 29th August 2006.
12. WHAT IS FERTILITY TREATMENT? ALL YOU NEED TO KNOW TO GET STARTED. IVFAustralia on 14th Feb 2007.
13. Work Choices, Productivity Commission, and Professional Registration:
14. Implications of political and industrial changes for scientists by Mark Hanlon at Pathology Week 2007 on Thursday 1st of March 07 in Parramatta, NSW.
15. Overview of Parkinson's disease by Laraine McAnally on April 20, 2007 at Lower Hall, 13 Springwood, NSW.
16. Record keeping workshop at Penrith, NSW on 11th April, 2007.
17. Advanced internet course by Vesna Cosic at Custom House Library, NSW on 24th April 2007.
18. Government Assistance for Innovative Manufacturers by David Collins etc. at Western Sydney Business Centre, Parramatta, NSW on 29th May 2007.
19. Site Visit at ACO Polycrete under DSRD program, EMU PLAINS on 30th May 2007.
20. Profitable Innovation through Lean Manufacturing at Western Sydney Business Centre, Parramatta, NSW on 1st June 2007.
21. A brief history of lupus anticoagulant and the antiphospholipid syndrome by Thomas Exner at Royal North Shore Hospital , NSW on 4th June 2007.
22. To mix with pooled normal or not to mix: Laboratory demonstration of Lupus Anticoagulant by Margaret Aboud at Royal North Shore Hospital , NSW on 4th June 2007.
23. Basic First Aid (DRABC) by Rod at Rooty Hill, NSW on 31st May 2007.
24. Basic First Aid (Epilepsy, Febrile Convulsions & Diabetes) by Rod at Rooty Hill, NSW on 7th June 2007.
25. Basic First Aid (Shock and injuries) by Rod at Rooty Hill, NSW on 15th June 2007.
26. AN ANZAC PERSPECTIVE ON MANUFACTURING AND TECHNOLOGY WITH THE RT. HON. HELEN CLARK, PRIME MINISTER OF NEW ZEALAND at the Australian Technology Park, Sydney on 14th June 2007.
27. Basic First Aid (Choking, E.A.R.; E.C.C. & C.P.R.) by Rod at Rooty Hill, NSW on 21st June 2007.
28. Various sessions during 3 days Hospital week at Westmead Hospital 15-17th Aug 2007.
29. Weird animal genomes and the evolution of ... by Prof. JAM Graves at Powerhouse Museum on 24th Aug 07.
30. Exciting New Products of Edsoft (Adobe) at UTS on August 2, 2007.
31. Group teaching by P Kandlbinder at UTS on August 22, 2007.
32. Characteristics of a good lecture by P Kandlbinder at UTS on Sep 05, 2007.
33. CANCER MINI-SYMPOSIUM - Cancer Therapeutics: Drug design, resistance and treatment at Kerry Packer Education Centre, Royal Prince Alfred Hospital on 6th Sep 2007.
34. Questioned Documents: Forensic Technical Aspects by Williams Mazzella on 2nd Oct 2007 at UTS.
35. 24th Annual Scientific Research Meeting at Royal North Shore Hospital, 13-14th Nov 2007.
36. Structure / Function Studies of Atracotoxins by Simon Gunning at UTS on 16th Nov 2007.
37. Training at APVMA, Canberra on 28th March 2008.
38. Intellectual Property Seminar at UTS on 21 Aug 2008.

39. Micro 'be': Fermented Fashion Exhibition; Grapeskin glamour and tissue engineering. The Muse, Ultimo TAFE Building C, Sydney on 25th August 2008.
40. Acupuncture: A prick for all occasions at UTS on 27 Aug 2008.
41. Revenge of the body snatchers at Ultimo TAFE Building C, Sydney on 28 Aug 2008.
42. A proteomics approach for the discovery of uncharacterised proteins from *Ixodes holocyclus* by Matt Padula on 30th Oct 2008 at University of Technology Sydney.
43. The forgotten cousins of structural biology: how do we study the structure and function of membrane proteins and fibrous proteins by Prof. Alison Rodger at University of Western Sydney on 7th April 2009.
44. New Olympus microscopes: the Automated FSX 100 and the FV10i confocal microscopes at University of Technology Sydney on 9th April 2009.
45. Familial dementia: it's on for young and old by Bill Brooks at University of Western Sydney on 17 April 2009.
46. Men's Health by Greg Millan at UTS on 18th June 2009.

ACTED AS A REFEREE:

Several Journals and funding organizations for evaluation of submitted manuscripts and grant applications by various scientists throughout the world

Speciality:

Enzyme inhibition kinetics for designing of new medicines

Membership in Editorial Board of Scientific Journals:

1. Open Biochemistry Journal (<http://www.bentham.org/open/tobiocj/EBM.htm>)
2. CNS & Neurological Disorders-Drug Targets (<http://www.bentham.org/cdtensnd/index.htm> ; IF 4.697)
3. Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy journal