

Principal Investigator

Name: Chung Ching Ming, Maxey

Appt : Associate Professor

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Employment History

1998-Present: Associate Professor, Department of Biochemistry, NUS

1990-2002: Head and Research Associate, DNA/Peptide/Proteomics Laboratory, Bioprocessing Technology Centre (BTC), NUS

1986-1997: Senior Lecturer, Department of Biochemistry, NUS.

1983-1985: Lecturer, Department of Biochemistry, NUS

1980-1983: Research Fellow, Department of Physical Biochemistry, John Curtin of Medical Research, The Australian National University, Canberra, Australia.

1978-1980: Lecturer, University of Agriculture, Serdang, Malaysia.

Research interests

Proteomics in human diseases

Structure and function studies of proteins

Academic Qualifications

B.Sc. (1972) Victoria University of Wellington, Wellington, New Zealand

M.Sc.(Hons) (1973) Victoria University of Wellington, Wellington, New Zealand

Ph.D. (1977) Victoria University of Wellington, Wellington, New Zealand

Publications

1. Liang, C.R.M.Y., Leow, C.K., Neo, J.C.H., Tan, G.S., Lo, S.L., Lim, J.W.E., Seow, T.K., Lai, P.B.S., and **Chung, M.C.M.** (2005) Proteome Analysis of human hepatocellular carcinoma tissues by two dimensional-difference gel electrophoresis and mass spectrometry. *Proteomics*, **5**: 2258 – 2271.
2. Lo, S.L., Cai, C.Z., Chen, Y.Z., and **Chung, M.C.M.** (2005) Effect of training datasets on support vector machine prediction of protein-protein interactions. *Proteomics*, **5**: 1075 – 1082.
3. Neo, J.C.H., Rose, P., Ong, C.N., and **Chung, M.C.M.** (2005) β -phenylethyl isothiocyanate mediated apoptosis : A proteomic investigation of early apoptotic protein changes. *Proteomics*, **5** : 876 – 884.
4. Low, T.Y., Leow, T.K., Salto-Tellez, M., and **Chung, M.C.M.** (2004) A proteomic analysis of thioacetamide-induced hepatotoxicity and cirrhosis in rat livers. *Proteomics*, **4**: 3960 – 3974.
5. Kiorke, R., de Leon Gatti, M., Lau, A.LY., Lim, J.W.E., Seow, T.K., **Chung, M.C.M.**, Hu, W.-S. (2004) Large scale gene expression profiling of metabolic shift of mammalian cells in culture. *J. Biotechnology* **107**: 1-17.
6. Low, T. Y., Seow, T. K., and **Chung, M. C. M.** (2002) Separation of human erythrocyte membrane associated proteins with 1-D and 2-D gel electrophoresis

- followed by identification with matrix assisted laser desorption/ionization-time of flight mass spectrometry (MALDI-TOF-MS). *Proteomics* **2**: 1229-1239.
7. Tan, S., Seow, T. K., Liang, R. C. M. Y., Koh, S., Lee, C. P. C., **Chung, M. C. M.**, and Hooi, S. C. (2002) Proteome analysis of butyrate-treated human colon cancer cells (HT-29). *Int. J. Cancer* **98**: 523-531.
 8. Ou, K., Seow, T. K., Liang, R. C. M. Y., Ong, S. E., and **Chung, M. C. M.** (2001) Proteome analysis of human hepatocellular carcinoma cell line, HCC-M: An update. *Electrophoresis* **22**: 2804-2811.

Recent Awards

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| 2003 | Nominated as International Scientist by the International Biographical Centre, Cambridge, England. |
| 2001 | NUS Faculty of Medicine nominee for University Outstanding Research Award. |
| 1992 | Japanese Society Promotion of Science-NUS (JSPS-NUS) Exchange Fellowship, Kyoto University. |

Declaration of Other Funding Support

1. "Nitroproteomics: A novel approach towards the understanding of nitrosative stress and NO regulation in cellular processes and human diseases". June 2003 – June, 2006. Amount approved: \$561,000 (Co-PI).
2. "Oncoproteomics in Biomarker and Drug Discovery" January 2004. Amount approved: ~ \$300,000 per year (Co-PI).