

Kah-Wai Lin

Karolinska Biomics Center, Z5:02,
Department of Oncology-Pathology,
Karolinska Institutet,
Karolinska University Hospital, Solna,
SE-17176, Stockholm, Sweden.

Tel (lab): +46-(0)8-517 73832
Fax (lab): +46-(0)8-517 71000
Tel (hp): +46-(0)7-07 468820
E-mail: kahwai.lin@ki.se
linkahwai@hotmail.com

EDUCATION

- 2007-present: **Ph.D. Student in Medical Science**
Karolinska Institutet, Stockholm, Sweden
- 2001-2007: **Doctor of Medicine (M.D.)**
Lviv National Medical University, Lviv, Ukraine

RESEARCH EXPERIENCE

- Department of Oncology-Pathology, Karolinska Institutet, Stockholm, Sweden**
Ph.D. Student, 2007-present (Supervisor: Serhiy Souchelnytskyi, Ph.D.)
Project: Proteomics of invasiveness of human breast epithelial cells.
- Institute of Biological Sciences, University of Malaya, Kuala Lumpur, Malaysia**
Research Assistant, 7/2007-8/2007 (Supervisor: Ching-Ching Ng, Ph.D.)
Project: Screening of quorum sensing and quorum quenching activities in soil metagenomics library.
- Institute of Cell Biology, National Academy of Sciences, Lviv, Ukraine**
Research Student, 3/2003-3/2007 (Supervisor: Maxim Lutsyk, Ph.D., Rostyslav Stoika, Ph.D.)
Project: Anticancer and cytotoxic activities of celandine alkaloids.
- Ludwig Institute for Cancer Research, Uppsala, Sweden**
Research Internship, 7/2006-8/2006 (Supervisor: Serhiy Souchelnytskyi, Ph.D.)
Project: Proteome profiling of human breast epithelial cells with various proliferation potential.
- Genome Institute of Singapore, Agency for Science, Technology and Research (A-STAR), Singapore**
Research Internship, 6/2005-8/2005 (Supervisor: Keh-Chuang Chin, Ph.D.)
Project: Protein-protein interaction of HERC5.
- Department of Clinical Immunology, University School of Medicine, Lublin, Poland**
Visiting Trainee, 11/2004-1/2005 (3 weeks) (Supervisor: Jacek Tabarkiewicz, M.D., Ph.D.)
- Lviv National Medical University, Lviv, Ukraine**
Medical Student, 2001-2007
Project: TGF- β and TNF- α in drug resistance of ovarian cancer (Department of Oncology).
Neurohumoral regulation of gastric secretion in mice (Department of Biochemistry).

TEACHING EXPERIENCE

- Supervisor**, supervising student of summer school, Karolinska Institutet, Sweden, 7/2009

PROFESSIONAL ACTIVITIES

1. **Reviewer**, *Central European Journal of Biology*, 2009 (1 papers)
2. **Reviewer**, *International Journal of Surgery*, 2008 (3 papers)

GRANTS, FELLOWSHIPS & AWARDS

1. **Travel Grant**, The Cancer Research Funds of Radiumhemmet, Stockholm, Sweden, 9/2009
2. **Young Investigator Travel Awards**, 8th Annual World Congress HUPO 2009, Toronto, Canada, 9/2009
3. **Ph.D. Fellowship**, Karolinska Institutet, Stockholm, Sweden, 2008-2012
4. **Summer Research Allowance**, Ludwig Institute for Cancer Research, Uppsala, Sweden, 7/2006-8/2006
5. **Summer Research Allowance**, Genome Institute of Singapore, Singapore, 6/2005-8/2005

MEMBERSHIPS

1. **Member**, The European Association for Cancer Research (EACR), 9/2009-present
2. **Member**, The Scientific Advisory Board, 8/2009-present
3. **Member**, International Association of Engineers (IAENG), 8/2009-present
4. **Member**, Human Proteome Organization (HUPO), 10/2008-9/2009

PRESENTATIONS

1. **8th Annual World Congress HUPO 2009, Toronto, Canada, 26-30/9/2009**
Poster: Proteomics of invasive and metastatic human breast epithelial cells.
2. **8th EpiPlastCarcinoma Consortium Meeting, Leuven, Belgium, 12-13/3/2009**
Talk: Proteomics of invasive and metastatic human breast epithelial cells.
3. **3rd Annual Symposium, Karolinska Biomics Center, Stockholm, Sweden, 30/1/2009**
Talk: Proteomics of invasive and metastatic human breast epithelial cells.
4. **7th Annual World Congress HUPO 2008, Amsterdam, Netherlands, 16-20/8/2008**
Poster: Proteomics approaches for studying molecular mechanism of invasion of highly invasive clones of MCF-7 human breast carcinoma cells.
5. **Seminar, Institute of Molecular and Cell Biology, Singapore, 14/7/2008**
Talk: Proteomics of breast cancer.
6. **Research Day in Cancer and Networking, Karolinska Institute, Stockholm, Sweden, 25/4/2008**
Poster: Establishment of highly invasive clones of MCF-7 human breast carcinoma: Proteomics and study of mechanism of cancer invasion.
7. **7th EpiPlastCarcinoma Consortium Meeting, Uppsala, Sweden, 27-29/3/2008**
Talk: Comparative proteome profiling of MCF10A and 184A1 human breast epithelial cells.
8. **6th Swedish Proteomics Society Symposium, Stockholm, Sweden, 1/12/2007**
Poster: Proteome profiling of human breast epithelial cells with various proliferation potential. Proceeding pp.31.
9. **1st Ukrainian Congress for Cell Biology, Lviv, Ukraine, 25-28/4/2004**
Poster: The use of mitogen stimulated human lymphocytes as target cells in testing of substances with anti-proliferative activity. Proceeding pp.272-273.

10. **65th Students Scientific Conference, Lviv National Medical University, Lviv, Ukraine, 15-16/4/2004**
Talk: The radiographical signs and imaging diagnosis of childhood neuroblastoma. Proceeding pp.547-548.
11. **58th Student Scientific Conference, National Medical University, Kiev, Ukraine, 28-31/10/2003**
Talk: The anti-proliferative activity of some alkaloids on mitogen stimulated human blood lymphocytes.
12. **64th Students Scientific Conference, Lviv National Medical University, Lviv, Ukraine, 3-4/4/2003**
Talk: Cholesterol biosynthesis, its disorders and possibilities of its corrections. Proceeding pp.399-400.

EXPERIMENTAL SKILLS

1. **Molecular biology:** general molecular biology techniques, including PCR, gene cloning, DNA sequencing, plasmid transformation, plasmid extraction, epitope tagging, agarose gel electrophoresis, gel extraction, restriction mapping, site-directed mutagenesis, SDS/PAGE electrophoresis, Western blot, transfection, RNA interference, metabolic labeling, phosphorimaging, gelatin zymography.
2. **Proteomics:** 2D gel electrophoresis, protein extraction and digestion, MALDI-TOF mass spectrometry, FT-ICR mass spectrometry, peptide mass fingerprinting, protein sequencing, post-translational modification identification.
3. **Cell biology:** cell culture techniques, establishment of primary cell culture, cells staining, magnetic isolation of cells, light microscopy, fluorescence microscopy, blast transformation, phagocytotic assay, cytotoxicity assay, trypan blue exclusive assay, apoptotic assay, comet assay, MTT assay, 3H-thymidine incorporation assay, invasion assay, migration assay, wound healing assay, contact inhibition assay, colony formation assay.
4. **Immunology:** flow cytometry, ELISA, isolation and culture of dendritic cells.
5. **Biochemistry:** general biochemical techniques, thin layered chromatography, spectrophotometry methods, Bradford protein assay.
6. **Laboratory animal:** laboratory animal science (Federation of European Laboratory Animal Science Associations (FELASA) certificate category C).
7. **Bioinformatics:** databases utilization, DNA and protein analysis tools, proteomics and mass spectrometry analysis tools, ontology analysis, network and pathway analysis, phylogenetics analysis, etc.

PUBLICATIONS

1. Ihor Yakymovych*, Kah-Wai Lin*, Min Jia, Mariya Yakymovych, Serhiy Souchelnytskyi. **Phosphorylation of eukaryotic elongation factor eEF1A at Ser300 by type I transforming growth factor- β -receptor (T β R-I) results in inhibition of protein translation.** (submitted) (*first co-authors)
2. Kah-Wai Lin, Serhiy Souchelnytskyi. **Proteomics of invasive and metastatic human breast carcinoma.** *Clinical Proteomics*. 2009; 5 (Suppl 1): 213.
3. Serhiy Souchelnytskyi, Kah-Wai Lin, Min Jia, Olena Zakharchenko, Hanna Woksepp, Christina Greenwood, Claudia Mateoiu. **Proteome signatures of human breast cancer cells and tumors, as markers and insights in mechanisms of carcinogenesis.** *3rd EuPA Congress Clinical Proteomics - Stockholm*. 2009: 364-366.
4. Nimesh Bhaskaran*, Kah-Wai Lin*, Aude Gautier*, Hanna Woksepp, Ulf Hellman, Serhiy Souchelnytskyi. **Comparative proteome profiling of MCF10A and 184A1 human breast epithelial cells emphasized involvement of cdk4 and cyclin D3 in cell proliferation.** *Proteomics - Clinical Applications*. 2009; 3(1): 68-77. (*first co-authors)

5. Mei-Fong Pang, Kah-Wai Lin, Suat-Cheng Peh. **The signaling pathways of Epstein-Barr virus-encoded latent membrane protein 2A (LMP2A) in latency and cancer.** *Cellular and Molecular Biology Letters*. 2009; 14(2): 222-247. [PMID: 19082921]
6. Vitaliy Kaminsky*, Kah-Wai Lin*, Yevhen Filyak, Rostyslav Stoika. **Differential effect of sanguinarine, chelerythrine and chelidonine on DNA damage and cell viability in primary mouse spleen cells and mouse leukemic cells.** *Cell Biology International*. 2008; 32(2): 271-277. (*first co-authors) [PMID: 18029203]
7. Kah-Wai Lin, Ju Yan. **Endings in the middle: current knowledge of interstitial telomeric sequences.** *Mutation Research/Reviews in Mutation Research*. 2008; 658(1-2): 95-110. [PMID: 17921045]
8. Kah-Wai Lin, Jacek Tabarkiewicz, Jacek Rolinski. **Dendritic cells heterogeneity and its role in cancer immunity.** *Journal of Cancer Research and Therapeutics*. 2006; 2(2): 35-40. [PMID: 17998672]
9. Kah-Wai Lin, Ju Yan. **The telomere length dynamic and methods of its assessment.** *Journal of Cellular and Molecular Medicine*. 2005; 9(4): 977-989. [PMID: 16364206]
10. Kah-Wai Lin. **Ethnobotanical study of medicinal plants used by the Jah Hut people in Malaysia.** *Indian Journal of Medical Sciences*. 2005; 59(4): 156-161. [PMID: 15876780]
11. Maxim Lutsyk, Lin Kah Wai, Yuriy Osyp, Rostyslav Stoika. **Mitogen stimulated human lymphocytes as target cells in testing substances for antiproliferative activity.** *Experimental Physiology and Biochemistry*. 2005; 24(1): 19-24.
12. Lin Kah Wai. **Telomeres, telomerase, and tumorigenesis--a review.** *Medscape General Medicine*. 2004; 6(3): 19. [PMID: 15520642]