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Education and Professional Experience:

03/78 - 12/85: MD/MS student, intern, and resident, Zhejiang Chinese Medicine University/Beijing University Medical School

01/86 - 08/89: Visiting Doctor/MS student for Utah State University and University of Southern California, California

09/89 - 04/94: Ph.D/MS candidate, Environmental Medicine/Biochemistry New York University Medical School

05/94 - 08/98: Postdoctoral fellow, Biochemistry, Mount Sinai Medical School and Pathology, Yale University Medical School

09/98 - 06/04: Assistant professor, Pathology and Laboratory Medicine, Surgery, Brown University Medical School

06/04 - present: Associate professor, Department of Surgery, Brown University Medical School-Rhode Island Hospital

10/08 - present: Adjunct professor, Zhejiang University and Zhejiang Chinese Medicine University

Honor and Award:

Fellowship: NIH Individual Postdoctoral Fellowship, 1996-1998

Member: American Cancer Society 1998 – present; Chinese Biological Investigators Society 2000 – present; American Association for the Advancement of Science 1994 – present; American Microbiology Society 1999 – present; and International Cytokine Society 2007 - present

Patent: (i) Methods and compositions for stimulating apoptosis and cell death or for inhibiting cell growth and cell attachment, US patent # 20030105057, 1998

(ii) Antibody array method to detect proteins, US patent # 6197599, 1998

Teaching award: Brown Medical School Dean's Teaching Excellence Award 2001,2002

Honored degree: *Gradu Artium Magistri Ad Eundem* Brown University 2008

Invited speaker: Beijing International Meeting of Molecular Oncology 1997

Rhode Island College, Colloquium Series 1999,

Mount Sinai Medical Center 2000

UC Davis Cancer Center 2002; Yale University 2002

Boston University MCB, distinguished seminar series 2002

University of Nebraska Cancer Center 2003

2005: University of Massachusetts Cancer Biology 2005; NYU 2005; Conference on Signal Transduction in Cancer at Umea, Sweden 2005-4.

2006: 20th American Protein Society Annual Meeting at San Diego 2006-5; Yale University Surgery 2006-7; Boston Clinics of Alternative Medicine 2006-5.
2007: Liver Center RIH 2007-2; University of California at Berkeley 2007-9-13; University of Arizona 2007-11-15; International program for exchange and cooperation between Brown University and medical schools in China 2007-10.
2008: UPenn Cancer Center, 2008-3-28; New England BioLab 2008-3-13; Queens University 2008-4; Harvard Medical School Department of Pathology 2008-12.
2009: City of Hope 2009-5; Yale University 2009-6.

Other Academic Service:

Lecture: Systemic pathology, course leader 1999 - 2002, Alternative medicine case analysis, 2004, Research introduction to MCB and Pathobiology graduate programs, 2000 - 2007. NYU Graduate Program of Environmental Medicine, 2007-3 and 2009-3.

Reviewer (ad hoc): Blood, Journal of Biological Chemistry, American Journal of Pathology, FEBS Letter, Molecular and Cellular Biology, Journal of Leukocyte Biology, Clinical Investigation, and Journal of Applied Physiology, PNAS, Nuclear Acid Research; Proteomics, Science, and BMC series Journal.

Panel reviewer: DOD and NIH 2001-2007; NSF 2006-2007.

Editorial board member: Journal of Biological Chemistry 2009.4-

Publication:

Chin YE, Snow ET, and Christie NT. (1994) A single stranded DNA binding protein isolated from HeLa cells facilitates Ni²⁺ activation of DNA polymerases in vitro.

Biochemistry. 33, 15141-15148.

Chin YE, Snow ET, Cohen MD, and Christie NT. (1994) The effects of divalent nickel (Ni²⁺) on DNA replication in vitro by DNA polymerase α . *Cancer Res.* 54, 2337-2341.

Chin YE, Snow ET, and Christie NT. (1994) The stimulatory effects of nickel chloride on DNA replication in HeLa cells and E. coli. *Carcinogenesis.* 15, 1013-1016.

Chin YE, Kitagawa M, Su WC, You ZH, Iwamoto Y, and Fu XY. (1996) Cell growth arrest and induction of cyclin-dependent kinase inhibitor p21WAF1/CIP1 mediated by STAT1. *Science.* 272, 719-722.

Chin YE, Kitagawa M, Kuida K, Flavell RA, and Fu XY. (1997) Activation of STAT signaling pathway can cause expression of Caspase 1 and apoptosis. *Mol Cell Biol.* 17, 5328-5337.

Jiang T, Chin YE, and Tong T. (1998) Screening tyrosine kinase inhibitors for selectively inhibition of EGFR in breast cancer cell lines. *Chin J Biochem Mol Biol.* 14, 314-317.

Iwamoto Y, Chin YE, Peng XB, and Fu XY. (1998) Identification and characterization of an EGF receptor associated STAT inhibitor. *J Biol Chem.* 273, 18198-18204.

- Welte T, Leitenberg D, Dittel BN, Chin YE., Bothwell AL, Janeway CA Jr., and Fu XY. (1999) STAT5 activation is essential for TCR regulation of gene expression in T cells. *Science*. 283, 222-225.
- Liu XD, Quinn AM, Chin YE, and Fu XY. (1999) STAT genes discovered in *C. Elegans*. *Science*. 285, 167-168.
- Wang YJ, Wu TR, Cai SY, Welt T, and Chin YE. (2000) Stat1 as a component of TNF alpha receptor 1-TRADD signaling complex to inhibit NF- κ B activation. *Mol Cell Biol*. 20, 4505-4512.
- Xia L, Wang L, Chung AS, Ivanov SS, Ling MY, Dragoi AM, Platt A., Gilmer TM, Fu XY, and Chin YE. (2002) Identification of both the positive and negative motifs for STAT activation within EGFR cytoplasmic domain. *J Biol Chem*. 277, 30716-30723.
- Wu T, Hong KY, Wang XD, Ling ML, Dragoi AM, Chung AS, Campbell A, Feng GS, and Chin YE. (2002) SHP-2 is a dual-specificity phosphatase to dephosphorylate Stat1 at both tyrosine and serine residues in nuclei. *J Biol Chem*. 277, 47572-47580.
- Kim S., Koga T., Isobe M., Kern BE, Yokochi T, Chin YE, Karsenty G, Taniguchi T, and Takayanagi H. (2003) Stat1 functions as a cytoplasmic attenuator of Runx2 in the transcriptional program of osteoblast differentiation. *Genes Dev*. 17, 1979-1991.
- Gao Q, Hua J, Kumuri R, Headd JJ, Fu XY, and Chin YE. (2004) Identification of STAT's linker-SH2 domain as the SH2 domain origin using two dimensional structural analysis. *Mol Cell Proteomics*. 3, 510-521.
- Ivanov SS, Chung AS, Yuan ZL, Guan AY, Sachs KV, Reichner J, and Chin YE. (2004) Antibodies immobilized as arrays to profile protein post-translational modifications in mammalian cells. *Mol Cell Proteomics* 3, 705-714.
- Yuan ZL, Guan AY, Wang L, Wei W, Kane AB, and Chin YE. (2004) A central role of Threonine-p+1loop residue in RTK for constitutive STAT3 phosphorylation in metastatic cancer cells. *Mol Cell Biol*. 24, 9390-9400.
- Yuan ZL, Guan AY, Chatterjee D, and Chin YE. (2005) STAT3 dimerization regulated by reversible acetylation of a single lysine residue within STAT3 C-terminal region. *Science* 307, 269-273.
- Chung AS, Guan YJ, Yuan ZL, Albina JE, and Chin YE. (2005) Ankyrin repeat and SOCS box 3 (ASB3) mediates ubiquitination and degradation of tumor necrosis factor receptor II. *Mol Cell Biol*. 25, 4716-4726.
- Darnowski J, Cousens LP, Guan YJ, Chatterjee D, Goulette FA, and Chin YE. (2006) STAT3 protein demolition by caspases: cellular and functional analysis. *J Biol Chem*. 281, 17707-17717.
- Tang X, Gao JS, Guan YJ, McLane K, Ramaratnam B, and Chin YE. (2007) Acetylation-dependent signal transduction for type I interferon receptor. *Cell*. 131, 93-105.
- Si J, Fu X, Behar J, Wands J, Beer DG, Lambeth D, Chin YE, and Cao W. (2008) STAT5 mediates platelet-activating factor (PAF)-induced NADPH oxidase NOX5-S expression in Barrett's esophageal adenocarcinoma cells. *Am J Physiol Gastrointest Liver Physiol*. 294, G174-183.

- Xu C, Xie J, Ho D, Wang C, Kohler N, Walsh EG, Morgan JR, Chin YE, and Sun S. (2008) Au-Fe₃O₄ dumbbell nanoparticles as dual functional probes. *Angew Chem Int Ed Engl.* 47, 173-176.
- Xu C, Xie J, Kohler N, Edward G, Walsh EG, Chin YE, and Sun S. (2008) Monodisperse magnetite (Fe₃O₄) nanoparticles coupled with nuclear localization signal (NLS) peptide for cell nuclear targeting. *Chem Asian J.* 3, 548-552.
- Morin NA, Oakes PW, Hyun YM, Lee D, Chin YE, King MR, Springer TA, Shimaoka M, Tang JX, Reichner JS, Kim M. (2008) Nonmuscle myosin heavy chain IIA mediates integrin LFA-1 de-adhesion during T lymphocyte migration. *J Exp Med.* 205, 195-205.
- Luo JM, Liu ZQ, and Chin YE. (2008) Overexpression of pulmonary surfactant protein A like molecules in inflammatory bowel disease tissues. *J Central South Univ (Med Sci)* 33, 979-986.
- Guan YJ, Yang ZF, Wang LJ, Morin NA, Chung CS, Fast L, Ayala A, Kim M, and Chin YE. (2007) Phospho-SxxE motif mediates TNFR1-TRADD death domain interaction in T cell accumulation in IBD. (*to be submitted to J Biol Chem.*).
- Zhang Z, Xing J, Ma L, Gong R, Chin YE, Zhuang S. (2009) Transglutaminase-1 regulates renal epithelial cell proliferation through activation of Stat-3. *J Biol Chem.* 284, 3345-3353.
- Sun Z, Chin YE, Zhang DD. (2009) Acetylation of Nrf2 by p300/CBP augments promoter-specific DNA binding of Nrf2 during the antioxidant response. *Mol Cell Biol.* 29, 2658-2672.
- Sun Y, Chin YE, Weisiger E, Malter C, Tawara I, Toubai T, Gatzka E, Mascagni P, Dinarello CA, Reddy P. (2009) Cutting edge: Negative regulation of dendritic cells through acetylation of the nonhistone protein STAT-3. *J Immunol.* 182, 5899-5903.
- Ma L, Gao JS, Guan YJ, Shi XY, Zhang H, Zhang Z, Ayrapetov M, Seto E, Kim M, and Chin YE. (2009) Acetylation modulates cytokine receptor dimerization. *Science* in press.

Book chapter:

- Chin YE, and Fu XY. (1998) Transcription factors and apoptosis. In *Apoptosis Genes*. Wilson JW, Booth C, and Potten CS. eds. (Kluwer Academic Publishers) pp 119-142.
- Chatterjee D, Sabo E, Resnick, MB, Yeung KC, and Chin YE. (2007) The RKIP and STAT3 axis in cancer chemotherapy: opposites attract. In *Sensitization of Cancer Cells for Chemo/immuno/Radio-therapy*. Bonavida B. ed. (Humana Press) pp 159-174.
- Chung AR., and Chin YE. (2009) Antibody array platform to monitor protein tyrosine phosphorylation in mammalian cells. In *Phosphoproteome*. de Graauw M. ed. (Humana Press). *Methods Mol Biol.* 527, 247-255.
- Chung AR, and Chin YE. (2009) Differential analysis of protein posttranslational modifications in mammalian cells with antibody array. In *The Bioanalytical Discovery of Post Translational Modifications*. Lill J, Sandoval VN, and Pham VC eds. (Research Sign Post Publishers). pp 89-102.