

CHO, ER-CHIEH

Year of Birth: 1981

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Address: 2222 Huntington Drive, Apt D44, Duarte, CA 91010, USA

Current Status: Postdoctoral Scholar, Department of Molecular Pharmacology,
Beckman Institute, City of Hope Medical Center, CA, USA.

Education:

- ◆ **BSc** in Pharmacy, Pharmacy Department, Taipei Medical University, Taiwan
9/1999-6/2003 (Distinction)
- ◆ **MSc** in Cell & Molecular Biology, Cell & Molecular Biology Department, Taipei Medical
University, Taiwan 9/2003-6/2005 (Distinction) (Supervised by Prof Wen Chang,
Academia Sinica, Taiwan)
- ◆ **DPhil** in Clinical Pharmacology, Cancer Biology Laboratory, Clinical Pharmacology
Department, Medical Sciences Division, University of Oxford, UK 09/2006 – 02/2011
(Supervised by Prof Nicholas La Thangue, *FRSE*)

Experience:

- ◆ 9/2002-2/2003 Pharmacy practice and case research, Koo Foundation Sun Yat-Sen
Cancer Center, Taiwan
- ◆ 2/2003-9/2003 Part-time research assistant, Graduate Institute of Cell & Molecular
Biology, Taipei Medical University, Taiwan
- ◆ 7/2005-2/2006 Full-time research assistant, Prof Wen Chang, Institute of Molecular
Biology, Academia Sinica, Taiwan. (Supervised 1 rotational master student and 1
Summer student)
- ◆ 1/2011-9/2011 Postdoctoral Scholar, Division of Hematology Oncology, David Geffen
School of Medicine at UCLA, USA (Supervised by Prof Kathleen Sakamoto)

Award & Honor:

- ◆ Graduate Student Representative, Taipei Medical University (TMU), Taiwan 2002-2003
- ◆ Scholarship for excellence in academic performance, TMU, Taiwan 2003
- ◆ Scholarship for excellence in both studies and behavior at TMU, Taiwan 2000 & 2003 &
2005
- ◆ Studentship for graduate study, Ministry of Education, Taiwan 2003-2005
- ◆ Conference travel grant, Linacre College, Oxford University, UK 2007
- ◆ Bursary, Oxford University Society Taiwan, Taiwan 2007 & 2008
- ◆ Elected as EPA Cephalosporin Scholar, Linacre College, Oxford University, UK 2007 &
2008
- ◆ Scholarship, Oxford University Society Taiwan, Taiwan 2009

- ◆ Conference travel grant, Linacre College, Oxford University, UK 2010
- ◆ Studentship, Cancer Biology Laboratory, Clinical Pharmacology Department, Oxford University, UK 2007-2010
- ◆ Scholarship for Studying Abroad, Ministry of Education, Taiwan 2008-2010
- ◆ Vice Chancellors' Fund, Oxford University, UK 2010
- ◆ Appointed as Visiting Scholar by College of Medical Science and Technology, Taipei Medical University, Taipei, Taiwan 10/2011-9/2012

Publication and Patent:

Degree Thesis:

- ◆ Investigation of A Viral Host Range Gene CP77 in Regulation of Vaccinia Virus Growth. *MSc Thesis*. Graduate Institute of Cell & Molecular Biology, Taipei Medical University, Taiwan. 2005
(Prof Wen Chang, Institute of Molecular Biology, Academia Sinica, Taiwan)
- ◆ The Functional Characterization of Arginine Methyltransferase in Cancer Cells. *DPhil Thesis*. Clinical Pharmacology Department, Oxford University, UK. 2010.
(Prof Nicholas B. La Thangue)

Journal Essay:

- ◆ Hsiao JC, Chao CC, Young MJ, Chang YT, **Cho EC**, Chang W. A Poxvirus Host Range Protein, CP77, Binds to A Cellular Protein, HMG20A, and Regulates its Dissociation from the Vaccinia Virus Genome in CHO-K1 Cells. *Journal of Virology* 2006 Aug; 80(15):7714-28
- ◆ Jansson M, Durant ST, **Cho EC**, Sheahan S, Edelmann M, Kessler B, La Thangue NB. Arginine Methylation Regulates the p53 Response. *Nature Cell Biology* 2008 Dec; 10, 1431-9
- ◆ Durant ST, **Cho EC**, La Thangue NB. p53 Methylation--the Arg-ument is Clear. *Cell Cycle* 2009 Mar 15; 8(6):801-2
- ◆ Mitton B, **Cho EC**, Aldana-Masangkay GI, Sakamoto KM. The Function of CREB in Hematological Malignancies. *Leukemia & Lymphoma* 2011 Nov; 52(11): 2057-2063
- ◆ **Cho EC**, Mitton B, Sakamoto KM. CREB and Leukemogenesis. *Critical Reviews in Oncogenesis* 2011 accepted.
- ◆ **Cho EC**, Zheng S, Munro S, Stimson L, Liu G, Khan O, Coutts AS, Carr S, La Thangue NB. Arginine Methylation Controls Apoptosis Induced by E2F-1. Under revision by *EMBO*.
- ◆ Pigazzi M, Manara E, Beghin A, Baron E, Tregnago C, Gelain S, Giarin E, **Cho EC**, Bresolin S, Masetti R, Rao D, Sakamoto K, Basso G. PKAC β overexpression and miR-34b hypermethylation during progression from myelodysplasia to acute myeloid leukemia. Submitted to *Blood*.

Patent:

- ◆ **Cho EC** and La Thangue NB. 2010. Arginine Methylation Regulates the E2F1 Apoptosis Response.

Presentation:**Oral Presentation:**

- ◆ Oral Presentation, Graduate Student Seminar Workshop, Nuffield Department of Clinical Laboratory Sciences, University of Oxford, UK 2007
- ◆ Invited Seminar, Linacre College, University of Oxford, UK 2007
- ◆ Invited Cancer Biology Seminar, Oral presentation, Institute of Biotechnology, National Taipei University of Technology, Taiwan 2009
- ◆ Invited Seminar, Leukemia Research Lab, Division of Hematology Oncology, David Geffen School of Medicine at UCLA, USA 2010
- ◆ Invited Seminar, Department of Molecular Pharmacology, Beckman Institute, City of Hope Medical Center, USA 2011

Poster Presentation:

- ◆ Poster Presentation, Research Meeting in Institute of Molecular Biology, Academia Sinica, Taiwan 2005
- ◆ Poster Presentation, Oxbridge Taiwanese Symposium, University of Cambridge, UK 2008 (Best poster prize)
- ◆ Poster Presentation, Graduate Student Seminar Day, Nuffield Department of Clinical Laboratory Sciences, University of Oxford, UK 2008 (Best poster prize)
- ◆ Poster Presentation, Genes and Cancer Conference, Warwick, UK 2008
- ◆ Poster Presentation, Medical Science Division DPhil Day, Oxford University, UK 2009
- ◆ AACR Conference - Advances in Cancer Research: From the Laboratory to the Clinic. Jordan 2010
- ◆ Invited Presentation, Research Council UK visit, Oxford University, UK 2010
- ◆ Poster Presentation, ASH Annual Meeting and Exposition, San Diego, USA 2011

Academic Training & Laboratory Skill:**Training Course and License:**

Wet Lab for Mice Training Course, Bio/Medical/Radiation Safety Courses at UCLA with Certificates; Teaching Training Courses for teaching at Oxford University with certificates; Mass Spectrometry Analysis Course

Molecular Biology Technique:

Tissue culture (including transfection and virus based work), mice work (including bone

marrow cells harvest and purification), microscope/ immunofluorescence assay, DNA and RNA work (including plasmid cloning, PCR, RT-PCR, Site-directed Mutagenesis, and agarose gel electrophoresis), protein work (including bacterial protein expression and purification, His/ GST-pulldown assay, SDS-PAGE/ Western Blot analysis), Immunoprecipitation (IP), Chromatin IP, *in vitro* methylation/sumoylation assay, protein half-life assays, and animal immunization of rabbit, antibody affinity purification, transcriptional reporter assays (luciferase, β -galactosidase), flow cytometry (apoptosis and cell cycle analysis) and sorting.

Language & Membership:

- ◆ Fluent Mandarin and English
- ◆ Level 2 Certificate in ESOL Skills for Life (Speaking and Listening), Oxford, UK
- ◆ EACR Membership
- ◆ AACR Associate Membership

Research Interests: Cancer Biology and Translational Science