

CURRICULUM VITAE

Personal

Name HUANG, Rong
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Education

M.D., 1998, West China University of Medical Sciences, Chengdu, CHINA

Employment

Postdoctoral Research Fellow February 2002 – Present
Biology Department, Emory University, Atlanta, GA, USA

Research Assistant September 1998 – July 1999
The First University Hospital of West China University of Medical Sciences
Chengdu, CHINA

Intern in Clinical Medicine June 1997 – July 1998
The First University Hospital of West China University of Medical Sciences
Chengdu, CHINA

Current Project

I am working on the purification and characterization of a histone acetyltransferase complex from humans. This complex is related to the MSL dosage compensation complex from the fruit-fly *Drosophila melanogaster*. The MSL complex is responsible for global acetylation and increased transcription of most genes on the male X chromosome. The MSL complex contains 5 proteins, MSL1, MSL2, MSL3, MOF, and MLE. Database searches revealed that similar proteins exist in humans. Using antisera which we developed and characterized, hMSL1, hMSL2, hMSL3, and hMOF form a complex in human cells. Purified human MSL complex has the same substrate specificity as the *Drosophila* complex, and both complexes specifically acetylate histone H4 on lysine 16.

Publication

E. R. Smith, **R. Huang**, and J. C. Lucchesi, "A human histone acetyltransferase complex is homologous to the dosage compensation MSL complex from *Drosophila*," Keystone Symposium on the Enzymology of Chromatin and Transcription, Mar., 2003, Santa Fe, New Mexico.

Technical Skills

Cell Biology

Mammalian and insect cell culture
Transient transfection of mammalian and insect cells

Selection of stably transformed lines and isolation of clones
Inducible gene expression systems for mammalian and insect cells
Sub-cellular localization of proteins by indirect immunofluorescence
Isolation of nuclei from mammalian cells and preparation of nuclear extracts

Immunology

Conjugation of peptides to KLH and BSA for immunization
Expression and purification of recombinant proteins for immunization
ELISA and western blots to characterize strength and specificity of antisera
Affinity purification of antisera on peptide columns and on western blots
Immunoprecipitation of protein complexes from nuclear extracts

Molecular Biology

DNA/RNA:

Cloning, subcloning and related techniques
Purification of RNA
PCR and RT-PCR
Quantitative real-time PCR and real-time RT-PCR

Protein:

SDS-PAGE
Silver staining
Western blotting
Purification of GST and 6xHis fusion proteins from bacteria
Purification of Flag- and HA-tagged proteins from mammalian cell

Animal Experience

Aseptic technique
Animal surgical techniques such as dissection and suture

Lab Management

Maintain lab records and protocols
Monitor and order lab supplies

Computer Skills

Microsoft Word, Excel, PowerPoint
DNA/RNA and protein analysis software