

Catherine Mao, Ph D

CURRICULUM VITAE 2002

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Education

Institution	Date	Degree	Subject
Lycee Rabelais, Paris, France	1977-1979	BS	Nutrition
Rene Diderot University, Paris, France	1981-1984	BS	Biochemistry
Rene Diderot University, Paris, France	1984-1985	MS	Molecular Biology
Pasteur Institute, Paris, France	1985-1986	DEA	Virology
Rene Diderot University, Paris, France	1986-1990	Ph.D	Microbiology

Professional positions

University of Kentucky, Lexington, KY
Assistant Professor of Nutritional Sciences 2002-present

The Cleveland Clinic Foundation, Cleveland, OH
Staff Scientist 2001-2002
Project Scientist 1998-2001

U358 INSERM, Hopital Saint-Louis, Paris, France
Research Associate 1995-1998

U248 INSERM, Medical school Lariboisiere-St Louis, Paris, France
Research Instructor 1993-1995

Imperial Cancer Research Fund, London, UK
Research Fellow 1990-1993

Grants

Active: NIH RO1 HL68698-01."Role of Wnt13 and Wnt13-signaling in endothelial cell survival"
1/1/02-12/31/05.

7/1/2001-12/3/2001: AHA (Ohio Valley Affiliate) Beginning Grant in Aid. " Wnt proteins and Wnt-signaling components in endothelial cell differentiation: effects of Wnt13 and lithium".

4/1/1999-3/30/2000: American Cancer Society Institutional Research Grant #IRG-91-023-07.
"Wnt and Wnt-signaling components in endothelial cells during tumor angiogenesis. Pilot grant.

Awards

Graduate studentship from the French Department of Education and Research	1986
Fellowship from the Fondation pour le Recherche Medicale	1989
Imperial Cancer Research Fund Fellow	1990
Association pour la Recherche contre le cancer Fellow	1993
Fondation pour la Recherche Medicale Fellow	1994

Pre-doctoral Trainees

Mouna Houari	09/97-09/98	pre-Graduate student (DEA)
Cecile Betzina	09/97-09/98	pre-Graduate student (DEA)
Vinciane Divers	06/98-09/98	Research Technologist
Amy Wagar	06/00-09/00	Undergraduate
Remona Edenfield	08/02-present	Undergraduate
Leslie Miller	09/02-present	Undergraduate

Professional memberships

Member of the American Society of Cell Biology
Member of the AHA Arteriosclerosis, Thrombosis and Vascular Biology Council
Member of the American Association for the Advancement of Science

Publications

C. Mao, M. Aguet and G. Merlin. Molecular characterization of the human interferon gamma receptor : Analysis of polymorphism and glycosylation. *Journal of Interferon Research*, 1989, 9:659.

C. Mao, G. Merlin and M. Aguet. Differential regulation of the human interferon gamma receptor expression in Raji and IM9 lymphoblastoid cells versus in THP1 monocytic cells by interferon gamma and PMA. *Journal of Immunology*, 1990, 144:4688.

C. Mao, R. Ballotti, M. Metzler, G. Merlin and M. Aguet. Rapid stimulation of the human IFN γ receptor phosphorylation in response to IFN γ and PMA on Raji cells : involvement of different serine/threonine kinases. *Journal of Immunology*, 1990, 145:4257.

C.Mao, D. Davies, I.M. Kerr and G.R. Stark. Mutant human cells defective in induction of major histocompatibility complex class II genes by interferon gamma. *Proc. Natl. Acad. Sci. USA* , 1993, 90:2880.

K.-C. Chin, C. Mao, C. Skinner, J. L. Riley, G. R. Stark, J. M. Boss, and J. P.-Y. Ting. Molecular analysis of G1B and G3A IFN- γ mutants reveals that defects in CIITA or RFX result in defective Class II MHC and li gene induction. *Immunity*. 1994, 1:687.

D. Ray, C. Mao, A. Tavitian and F. Moreau-Gachelin. DNA binding specificities of Spi-1/PU.1 and Spi-B transcription factors and identification of a Spi-1/Spi-B binding site in the c-fes/c-fps promoter. *Oncogene*. 1995, 11:303.

C. Mao, D. Ray, A. Tavitian and F. Moreau-Gachelin. Differential phosphorylations of Spi-B and Spi-1 transcription factors. *Oncogene*, 1996, 12:863.

C. Mao and F. Soubrier. The vascular wall as a target for association studies by the candidate gene approach. 1996. Blood Pressure. 5:(Suppl 4):6.

S. Nadaud, C. Mao, J.-B. Michel and F. Soubrier. Differential regulation of kidney nitric oxide synthase isoforms mRNA levels by sodium and blood pressure. J. Hypertension, 1998, 16:1315.

O. Poirier, C. Mao, V. Nicaud, S.M. Herrmann, A. Evans, J.B. Ruidavets, D. Arvelier, G. Luc, L. Tiret, F. Soubrier, F. Cambien. Polymorphisms of the endothelial nitric oxide synthase gene - no consistent association with myocardial infarction in the ECTIM study. Eur. J. Clin. Invest, 1999, 29:284.

C. Mao, O. Tahlil-Ben Malek, M. E. Pueyo, P. G. Steg and F. Soubrier. Differential expression of rat frizzled-related frzb-1, frizzled receptor fz1 and fz2 in the rat aorta following balloon injury. Atherosclerosis, Thrombosis and Vascular Biology, 2000, 20:43.

C. Mao, P. Hoang and P.E. DiCorleto. Lithium inhibits cell cycle progression and induces stabilization of p53 in bovine aortic endothelial cells. J Biol Chem. 2001, 276:26180.

Invited Presentations.

April 1998: Seminar at the Department of Cell Biology, The Lerner Research Institute, The Cleveland Clinic Foundation, Cleveland, Ohio. "Changes in gene expression in smooth muscle cells following injury in a rat model of angioplasty".

May 20, 2000: Oral Presentation at the retreat of the Department of Cell Biology, The Cleveland Clinic Foundation, Sawmill Creek Resort, Ohio. " Wnt and Wnt signaling components in endothelial cells".

May 15, 2001. Seminar at the Department of Molecular Cardiology, The Cleveland Clinic Foundation, Cleveland, Ohio. " Wnt and Wnt signaling components in endothelial cells".

August 16, 2001. Seminar at the University of Kentucky, Lexington, Kentucky. "Wnt and Wnt-signaling components in endothelial cells".

Abstracts/Oral Presentations.

C. Mao, R. Ballotti, M. Aguet and G. Merlin. "Studies on the Phosphorylation of the Human Interferon Gamma Receptor". The ISIR. 1987 meeting on the Interferon System. Washington D. C, November, 02-06, 1987. Oral and Poster presentation.

C. Mao, R. Ballotti, M. Aguet and G. Merlin. "Studies on the Phosphorylation and Structure of the Human Interferon Gamma Receptor". British Society Immunology/ Société Française d'Immunologie, joint meeting, Paris, April 07-08, 1988. Oral presentation.

C. Mao, M. Aguet and G. Merlin. "Modulation of Human Interferon Gamma Receptor Expression". 7th International Congress of Immunology. Berlin, July 30-August 05 1989. Oral presentation.

C. Mao, R. Ballotti, M. Aguet et G. Merlin. "Rapid phosphorylation of the human IFN γ -Receptor in response to IFN γ and PMA". The ISIR. 1989 meeting on the Interferon System. Florence, October 22-27, 1989. Poster presentation selected for oral presentation at the IFN signaling workshop.

Abstracts/Poster Presentations

C. Mao, R. Ballotti, M. Aguet and G. Merlin. "Studies on the Phosphorylation and Structure of the Human Interferon Gamma Receptor". 6th International Lymphokine Workshop. Evian, October 23-27, 1988. Poster presentation.

C. Mao, M. Aguet et G. Merlin. "Modulation of Human Interferon Gamma Receptor Expression". The ISIR. 1989 meeting on the Interferon system. Florence, October 22-27, 1989. Poster presentation.

C. Mao, D. Ray-Gallet, A. Tavitian, and F. Moreau-Gachelin. Differential phosphorylations of Spi-B and Spi-1 transcription factors. Annual meeting of the French Society of Hematology. Dourdan, April 14-15, 1995. Poster presentation.

C. Mao, P. Hoang and P.E. DiCorleto. "Lithium alters the cell cycle progression in endothelial cells". 40th Annual Meeting. The American Society for Cell Biology, San Francisco, December 09-13, 2000. Poster presentation.

A. Prokvolit, M. Bond, P.E. DiCorleto and C. Mao." Wnt13-A and Frizzled-7 induce a similar phenotype and co-localize in the endoplasmic reticulum" 42nd Annual Meeting, The American Society for Cell Biology, San Francisco, December 14-18, 2002. Submitted.