



NAME 馬明琪 Maa, Ming-chei		POSITION TITLE Professor	
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Baylor College of Medicine, TX, USA	Ph.D..	1989	Biochemistry
Univ. of Virginia, VA, USA	Postdoctoral Fellow	1994	Signal Transduction

CURRENT POSITIONS

2003/08- Present Professor, Department of Biochemistry, College of Medicine, China Medical University, Taichung, Taiwan

RESEARCH INTEREST

1. Role of Src and its associated proteins in macrophage activation
2. Signal Transduction

Publications

1. Chen HC, Chien WC, Chang MY, Hsieh MY, Lai MD, Maa MC*, Leu TH*. (2015) The iNOS/Src/FAK axis contributes to lithium chloride-mediated macrophage migration. **Nitric Oxide** 47: 58-64. (*Correspondant)
2. Cheng WE, Ying Chang M, Wei JY, Chen YJ, Maa MC*, Leu TH*. (2015) Berberine reduces Toll-like receptor-mediated macrophage migration by suppression of Src enhancement. **Eur J Pharmacol** 757, 1-10. (*Correspondant)
3. Hsieh MY, Chang MY, Chen YJ, Li YK, Chuang TH, Yu GY, Cheung CH, Chen HC, Maa MC*, Leu TH*. (2014) The inducible nitric-oxide synthase (iNOS)/Src axis mediates Toll-like receptor 3 tyrosine 759 phosphorylation and enhances its signal transduction, leading to interferon- β synthesis in macrophages. **Journal of Biological Chemistry** 289, 9208-9220. (*Correspondant)
4. Lai CY, Liu YL, Yu GY, Maa MC, Leu TH, Xu C, Luo Y, Xiang R, Chuang TH. (2014) TLR7/8 agonists activate a mild immune response in rabbits through TLR8 but not TLR7. **Vaccine** 32, 5593-5599.
5. Chu PY, Liou JH, Lin YM, Chen CJ, Chen MK, Lin SH, Yeh CM, Wang HK, Maa MC, Leu TH, Chang NW, Hsu NC, Yeh KT. (2012) Expression of Eps8 correlates with poor survival in oral squamous cell carcinoma. **Asia Pac J Clin Oncol** 8, e77-81.
6. Chen YJ, Hsieh MY, Chang MY, Chen HC, Jan MS, Maa MC*, Leu TH*. (2012) Eps8 protein facilitates phagocytosis by increasing TLR4-MyD88 protein interaction in lipopolysaccharide-stimulated macrophages. **Journal of Biological Chemistry** 287, 18806-18819. (*Correspondant)

7. Lu DY, Tang CH, Chang CH, Maa MC, Fang SH, Hsu YM, Lin YH, Lin CJ, Lee WC, Lin HJ, Lee CH, Lai CH *. (2012) Helicobacter pylori attenuates lipopolysaccharide-induced nitric oxide production by murine macrophages. **Innate Immunity** 18, 406-417.
8. Chen SY, Chiu LY, Maa MC, Wang JS, Chien CL, Lin WW*. (2011) zVAD-induced autophagic cell death requires c-Src-dependent ERK and JNK activation and reactive oxygen species generation. **Autophagy** 7, 217-228.
9. Maa MC*, Chang MY, Li J, Li YY, Hsieh MY, Yang CJ, Chen YJ, Li Y, Chen HC, Cheng WE, Hsieh CY, Cheng CW, Leu TH*. (2011) The iNOS/Src/FAK axis is critical in Toll-like receptor-mediated cell motility in macrophages. **BBA** 1813, 136-147. (*Correspondent)
10. Yang TP, Chiou HL, Maa MC*, Wang CJ*. (2010) Mithramycin inhibits human epithelial carcinoma cell proliferation and migration involving downregulation of Eps8 expression. **Chemico-Biological Interactions** 183, 181-186. (*Correspondent)
11. Liu PS, Jong TH, Maa MC*, Leu TH*. (2010) The interplay between Eps8 and IRSp53 contributes to Src-mediated transformation. **Oncogene** 29, 3977-3989. (*Correspondent)
12. Maa MC*, Chang MY, Hsieh MY, Chen YJ, Yang CJ, Chen ZC, Li YK, Yen CK, Wu RR, Leu TH*. (2009) Butyrate reduced lipopolysaccharide-mediated macrophage migration by suppression of Src enhancement and focal adhesion kinase activity. **J Nutri Biochem** 21, 1186-1192. (*Correspondent)
13. Maa MC*, Chang MY, Chen YJ, Lin CH, Yu CJ, Yang YL, Li J, Chen PR, Tang CH, Lei HY, Leu TH*. (2008) Requirement of inducible nitric oxide synthase in lipopolysaccharide-mediated Src induction and macrophage migration. **J Biol Chem**. 283: 31408-31416. (*Correspondent)
14. Fong YC, Maa MC, Tsai FJ, Chen WC, Lin JG, Jeng LB, Yang RS, Fu WM, Tang CH. (2008) Osteoblast-derived TGF-beta1 Stimulates IL-8 Release via AP-1 and NF-kappaB in Human Cancer Cells. **J Bone Miner Res**. 23: 961-970.
15. Tang CH, Chuang JY, Fong YC, Maa MC, Way TD, Hung CH. (2008) Bone-derived SDF-1 stimulates IL-6 Release via CXCR4, ERK and NF- κ B pathways and promoting osteoclastogenesis in human oral cancer cells. **Carcinogenesis**. 29: 1483-1492.
16. Chen YJ, Shen MR, Chen YJ, Maa MC*, Leu TH*. (2008) Eps8 decreases chemosensitivity and affects survival of cervical cancer patients. **Mol Cancer Ther**. 7: 1376-1385. (*Correspondent)
17. Maa MC, Lee JC, Chen YJ, Chen YJ, Lee YC, Wang ST, Huang CC, Chow NH, and Leu TH*. (2007) Eps8 facilitates cellular growth and motility of colon cancer cells by increasing the expression and activity of focal adhesion kinase. **Journal of Biological Chemistry** 282: 19399-19409.
18. Kuo L, Chang HC, Leu TH, Maa MC, and Hung, W. C. (2006) Src oncogene activates MMP-2 expression via the ERK/Sp1 pathway. **J Cell Physiol** 207: 729-734.
19. Leu TH, Charoenfuprasert S, Yen CK, Fan CW, and Maa MC*. (2006) Lipopolysaccharide induced c-Src expression plays a role in nitric oxide and TNF α secretion in macrophages. **Molecular Immunology** 43: 308-16. (*Correspondent)
20. Lee JC*, Maa MC*, Yu HS, Wang JH, Yen CK, Wang ST, Chen YJ, Liu Y, Jin YT and Leu TH. (2005) Butyrate regulates the expression of c-Src and focal adhesion kinase and inhibits cell invasion of human colon cancer cells. **Molecular Carcinogenesis** 43: 207-214. (the same contribution)
21. Leu TH, Yeh HH, Huang CC, Chuang YC, Su SL, and Maa MC*. (2004) Participation of p97^{Eps8} in Src-mediated transformation. **Journal of Biological Chemistry** 279: 9875-9881. (*Correspondent)
22. Leu, T.-H., Su, S. L., Chuang Y.-C., and Maa, M.-C*. (2003) Direct inhibitory effect of curcumin on Src and focal adhesion kinase activity. **Biochemical Pharmacology** 66: 2323-2331. (*Correspondent)

23. Leu, T.-H., and Maa, M.-C. (2003) Functional implication of the interaction between EGF receptor and c-Src. **Frontier in Bioscience** 8: s28-38. (*Correspondent)
24. Leu, T.-H., and Maa, M.-C. (2002) Phosphorylation of Tyr-863 can enhance the autophosphorylation of FAK at Tyr-397. **Oncogene** 21: 6992-7000.
25. Leu, T.-H., and Maa, M.-C. (2002) The molecular mechanisms for the antitumorigenic effect of curcumin. **Curr. Med. Chem. – Anti-Cancer Agents** 2:357-370. (*Correspondent)
26. Maa, M.-C., Hsieh, C.-Y., and Leu, T.-H. (2001) Overexpression of p97^{Eps8} leads to cellular transformation: implication of pleckstrin homology domain in p97^{Eps8}-mediated ERK activation. **Oncogene** 20: 106-112.