NAME
沈明毅
Shen, Ming-Yi

POSITION TITLE
Assistant Professor

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Taipei Medical University, Taiwan	B.S.	2000	Pharmacy
Taipei Medical University, Taiwan	M.S.	2002	Pharmacology
Taipei Medical University, Taiwan	Ph.D.	2008	Pharmacology
Academic Sinica, Taiwan	Postdoctoral Fellow	2011	Immunology

CURRENT POSITIONS

2012/08- Present Assistant Professor, Graduate Institute of Biomedical Sciences, China Medical University, Taichung, Taiwan

RESEARCH INTEREST

1. Electronegative LDL and Stroke
2. Cardiovascular Pharmacology
3. Molecular and Cellular Biology
4. Translational medicine

HONORS

1. 2003-Present Member of Taipei Pharmacists' Association, Taiwan
2. 2007-Present Member of the Pharmacological Society in Taiwan, Taiwan
3. 2007-2008 Thesis (Journal) awards and fellowship of Taipei Medical University
4. 2010-2011 Academia Sinica Postdoctoral Fellowship
5. 2010 **Travel award for Young Investigators from14th International Congress of Immunology (ICI) in Japan**
6. 2012-Present Member of American Heart Association/ American Stroke Association
7. 2013 **ATVB Travel Award for Young Investigators** from American Heart Association's Council on Arteriosclerosis, Thrombosis, and Vascular Biology (ATVB) at American Heart Association Scientific Sessions 2013 in Dallas, Texas, USA.
8. 2016.9 **2016 Young Scientist Award of Professor C.Y. Lee Foundation**

REVIEWER

1.BioMed Research International
2.The Scientific World Journal
3.Current Medicinal Chemistry
4.Oxidative Medicine and Cellular Longevity
5.Evidence-Based Complementary and Alternative Medicine
6.Phytomedicine
7.International Journal of Experimental Pathology

PEER-REVIEWED PUBLICATIONS (SINCE 2004)

[1] Hsiao G, **Shen MY,** Chou DS, Lin CH, Chen TF, Sheu JR (2004) Involvement of the antiplatelet activity of magnesium sulfate in suppression of protein kinase C and the Na+/H+ exchanger. *J Biomed Sci.* **11**:19-26. *(SCI)*

[2] Hsiao G, Huang HY, Fong TH, **Shen MY**, Lin CH, Teng CM, Sheu JR (2004) Inhibitory mechanisms of YC-1 and PMC in the induction of iNOS expression by lipoteichoic acid in RAW 264.7 macrophages. *Biochem Pharmacol.* **67**:1411-9. *(SCI)*

[3] Hsiao G, **Shen MY,** Chou DS, Chang Y, Lee LW, Lin CH, Sheu JR (2004) Mechanisms of antiplatelet and antithrombotic activity of midazolam in in vitro and in vivo studies. *Eur J Pharmacol.* **487**:159-66. *(SCI)*

[4] Sheu JR, Hsiao G, Chou PH, **Shen MY**, Chou DS (2004) Mechanisms involved in the antiplatelet activity of rutin, a glycoside of the flavonol quercetin, in human platelets. *J Agric Food Chem.* **52**:4414-8. *(SCI)*

[5] Sheu JR, Fong TH, Liu CM, **Shen MY**, Chen TL, Chang Y, Lu MS, Hsiao G (2004) Expression of matrix metalloproteinase-9 in human platelets: regulation of platelet activation in in vitro and in vivo studies. *Br J Pharmacol.* **143**:193-201. *(SCI)*

[6] Chou DS, Hsiao G, **Shen MY**, Fong TH, Lin CH, Chen TF, Sheu JR (2004) Low concentration of oxidized low density lipoprotein suppresses platelet reactivity in vitro: an intracellular study. *Lipids*. **39**:433-40. *(SCI)*

[7] Chang Y, Chen TL, Wu GJ, Hsiao G, **Shen MY**, Lin KH, Chou DS, Lin CH, Sheu JR (2004). Mechanisms involved in the antiplatelet activity of ketamine in human platelets. *J Biomed Sci.* **11**:764-72. *(SCI)*

[8] Chou DS, Hsiao G, **Shen MY**, Tsai YJ, Chen TF, Sheu JR (2005). ESR spin trapping of a carbon-centered free radical from agonist-stimulated human platelets. *Free Radic Biol Med.* **39**:237-48. *(SCI)*

[9] Hsiao G, Chang CY, **Shen MY**, Chou DS, Tzeng SH, Chen TF, Sheu JR (2005) alpha-Naphthoflavone, a potent antiplatelet flavonoid, is mediated through inhibition of phospholipase C activity and stimulation of cyclic GMP formation. *J Agric Food Chem.* **53**:5179-86. *(SCI)*

[10] Hsiao G, Chou PH, **Shen MY**, Chou DS, Lin CH, Sheu JR (2005) C-phycocyanin, a very potent and novel platelet aggregation inhibitor from Spirulina platensis. *J Agric Food Chem.* **53**:7734-40. *(SCI)*

[11] Hsiao G, Wang Y, Tzu NH, Fong TH, **Shen MY**, Lin KH, Chou DS, Sheu JR (2005) Inhibitory effects of lycopene on in vitro platelet activation and in vivo prevention of thrombus formation. *J Lab Clin Med.* **146**:216-26. *(SCI)*

[12] Chou DS, Chan CH, Hsiao G, **Shen MY**, Tsai YJ, Chen TF, Sheu JR (2006) Inhibitory mechanisms of low concentrations of oxidized low-density lipoprotein on platelet aggregation. *J Biomed Sci.* **13**:333-43. *(SCI)*

[13] Lee YM, Lee JJ, **Shen MY**, Hsiao G, Sheu JR (2006) Inhibitory mechanisms of activated matrix metalloproteinase-9 on platelet activation. *Eur J Pharmacol.* **537**:52-8. *(SCI)*

[14] Hsiao G, Lee JJ, Chen YC, Lin JH, **Shen MY**, Lin KH, Chou DS, Sheu JR (2007). Neuroprotective effects of PMC, a potent alpha-tocopherol derivative, in brain

ischemia-reperfusion: reduced neutrophil activation and anti-oxidant actions. *Biochem Pharmacol.* **73**:682-93. *(SCI)*

[15] **Shen MY**, Hsiao G, Liu CL, Fong TH, Lin KH, Chou DS, Sheu JR (2007) Inhibitory mechanisms of resveratrol in platelet activation: pivotal roles of p38 MAPK and NO/cyclic GMP. *Br J Haematol.* **139**:475-85. *(IF: 4.942, HEMATOLOGY 11/67 16.4%)(SCI)*

[16] Pan CF, **Shen MY**, Wu CJ, Hsiao G, Chou DS, Sheu JR (2007) Inhibitory mechanisms of gabapentin, an antiseizure drug, on platelet aggregation. J *Pharm Pharmacol.* **59**:1255-61. *(SCI)*

[17] **Shen MY**, Hsiao G, Fong TH, Chou DS, Sheu JR (2008). Expression of amyloid beta peptide in human platelets: pivotal role of the phospholipase Cgamma2-protein kinase C pathway in platelet activation. *Pharmacol Res.* **57**:151-8. *(IF: 4.346, PHARMACOLOGY & PHARMACY 38/260 14.6%)((SCI)*

[18] **Shen MY**, Hsiao G, Fong TH, Chen HM, Chou DS, Lin CH, Sheu JR, Hsu CY (2008). Amyloid beta peptide-activated signal pathways in human platelets. *Eur J Pharmacol.* **588**:259-66. *(IF: 2.592, PHARMACOLOGY & PHARMACY 105/260 40.4%) (SCI)*

[19] **Shen MY**, Liu CL, Hsiao G, Liu CY, Lin KH, Chou DS, Sheu JR (2008). Involvement of p38 MAPK phosphorylation and nitrate formation in aristolochic acid-mediated antiplatelet activity. *Planta Med.* **74**:1240-5. *(IF2.348, PLANT SCIENCES 55/195 28.2%) (SCI)*

[20] Hsu MJ, Sheu JR, Lin CH, **Shen MY**, Hsu CY (2010). Mitochondrial mechanisms in amyloid beta peptide-induced cerebrovascular degeneration. Biochim Biophys Act. **1800**:290-296. Review *(SCI)*

[21] **Shen MY,** Lin YP, Yang BC, Jang YS, Chiang CK, Mettling C, Chen, ZW, Sheu JR, Chang CLT, Lin YL*, Yang WC* (2012) Catenarin prevents type 1 diabetes in non-obese diabetic mice via inhibition of leukocyte migration involving the MEK6/p38 and MEK7/JNK pathway. Evidence-based Complementary and Alternative Medicine.2012: 982396 *(IF:4.774)*

[22] **Shen MY**, Liu YJ, Don MJ, Liu HY, Chen ZW, Mettling C, Corbeau P, Chiang CK, Jang JS, Li TH, Young P, Chang CLT*, Lin YL*, Yang WC (2012) Combined phytochemistry and chemotaxis assays for identification and mechanistic analysis of anti-inflammatory phytochemicals in *Fallopia japonica*. PLoS ONE *(SCI*) **7: 6***(IF:4.092)*

[23] Chang CL, Liu HY, Kuo TF, Hsu YJ, **Shen MY**, Pan CY, Yang WC*. (2013) Antidiabetic effect and mode of action of cytoplioyen. Evidence-based Complementary and Alternative Medicine.2013:685642. *(IF:4.774)*

[24] Chan HC, Ke LY, Chu CS, Lee AS, **Shen MY**, Cruz MA, Hsu JF, Cheng KH, Chan HC, Lu J, Lai WT, Sawamura T, Sheu SH, Yen JH, and Chen CH. (2013) Highly electronegative LDL from patients with ST-elevation myocardial infarction triggers platelet activation and aggregation. Blood 122: 3632-41 (IF: 11.841; R/C=2/70; HEMATOLOGY)

[25] Hsieh JY, Chang CT, Huang M, Chang CM, Chen CY, **Shen MY**, Liao HY, Wang GJ, Chen CH, Chen CJ, Yang CY. (2013) Biochemical and Functional Characterization of Charge-defined Subfractions of High-density Lipoprotein From Normal Adults. Analytical Chemistry. 85:11440-11448 (IF:5.825; 3/75; CHEMISTRY, ANALYTICAL)

[26] Lee AS, Chen WY, Chan HC, Hsu JF, **Shen MY**, Chang CM, Bair H, Su MJ, Chang KC and Chen CH. (2014) Gender disparity in LDL-induced cardiovascular damage and the protective role of estrogens against electronegative LDL. Cardiovascular Diabetology

13:64. **(IF: 3.706, 34/125,** CARDIAC & CARDIOVASCULAR SYSTEMS)

[27] Chen WY, Chen FY, Lee AS, Ting KH, Chang CM, Hsu JF, Lee WS, Sheu JR, Chen CH, **Shen MY***, (2015) Sesamol Reduces the Atherogenicity of electronegative L5 LDL in vivo and in vitro. Journal of Natural Products 78:225-233 **(IF: 3.947, 21/199,** PLANT SCIENCES).

[28] Ji HX, Chang WS, Tsia CW, Wang JY, Huang NK, Lee AS, **Shen MY**, Chen WY, Chiang YC, Shih TC, Hsu CM, Bau DT. (2015) Contribution of DNA repair xeroderma pigmentosum group D genotype to gastric cancer risk in Taiwan. Anticancer Research 35:4975-4982. **(IF: 1.826, 161/211,** ONCOLOGY).

[29] Lien LM,Wang MJ, Chen RJ, Chiu HC, Wu JL, **Shen MY**, Sheu JR, Lin KH, Lu WJ. Nobiletin, a Polymethoxylated Flavone, Inhibits Glioma Cell Growth and Migration via Arresting Cell Cycle and Suppressing MAPK and Akt Pathways. Phytotherapy Research (IF: 2.66, 105/254 PHARMACOLOGY & PHARMACY; In press)

[30] Chang CT, Wang GJ, Kuo CC, Hsieh JY, Lee AS, Chang CM, Wang CC, **Shen MY**, Huang CC, Sawamura T, Yang CY, Stancel N, Chen CH. (2016) Electronegative low-density lipoprotein increases coronary artery disease risk in uremia patients on maintenance hemodialysis. Medicine 95:e2265-2274 (Medicine, General & Internal 15/153, IF:5.723)

[31] **Shen MY**, Chen FY, Hsu JF, Chang CM, Chang CT, Liu CH, Wu JR, Lee AS, Chan HC, Sheu JR, Lin SZ, Chang KC, Hsu CY, Chen CH (2016) Plasma L5 levels are elevated in ischemic stroke patients and enhance platelet aggregation. Blood 127:1336-1345 (IF: 11.841; R/C=2/70; HEMATOLOGY). PMID:26679863.

[32] Wang CC, Wang YC, Wang GJ, **Shen MY**, Chang YL, Liou SY, Chen HC, Chang CT (2016) Skin autofluorescence is associated with endothelial dysfunction in uremic subjects on hemodialysis. PLoS ONE 11:e0147771*(SCI) (IF:4.092)*

RECENT RESEARCH SUPPORT

1. The translation research on microRNA in atherogenic LDL-enhanced ischemic stroke and Chinese Medicine research. (MOST105-2628-B-039-002-MY3) from MOST Taiwan
2. The Stroke Biosignature Project based on the Taiwan Biobank. (BM10501010037) from Academia Sinica, Taiwan
3. Translational study of mostly electronegative low-density lipoprotein in atherosclerotic vascular disease. (DMR-105- 082) from China Medical University Hospital, Taiwan