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浙江大學醫學學士

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**教學**

**本科生主講科目**

1. 生物統計學

2. 解剖生理學 I

3. 解剖生理學 II

4. 課題設計

**研究生主講科目**

1. 藥物篩選靶標和模型

2. 研究倫理學

3. 中醫藥功能食品學

**學術研究**

**研究方向**

1. 探討腦小血管病的病理生理變化及認知功能改變的機制，並尋找有效的治療方法

2. 腦淋巴管道功能的研究

3. 探討神經退行性疾病如阿爾茨海默病和帕金森病的發病機制及應用人類誘導多能幹細胞（iPS細胞）建立神經退行性疾病的藥物篩選模型

**近三年代表性發表文章 (\* 通訊作者)**

Tan Y, Ke M, Huang Z, Chong C, Cen X, Lu JH, Yao X\*, Qin D\*, **Su H\***. Hydroxyurea facilitates manifestation of disease relevant phenotypes in patients-derived iPSCs-based modeling of late-onset Parkinson’s disease. Aging and disease. 2019 <http://dx.doi.org/10.14336/AD.2018.1216>.

Yan L, Xie Y, Satyanarayanan SK, Zeng H, Liu Q, Huang M, Ma Y, Wan JB, Yao X, Su KP, **Su H\***. Omega-3 polyunsaturated fatty acids promote brain-to-blood clearance of β-Amyloid in a mouse model with Alzheimer's disease. Brain Behav Immun. 2019 May 24. pii: S0889-1591(18)31175-9.

Shi Z, Xie Y, Ren H, He B, Wang M, Wan J, Yuan TF\*, Yao X\*, **Su H\***. Fish oil treatment reduces chronic alcohol exposure induced synaptic changes. Addiction Biology. 2019 July, 24, 577-589.

Habib MR, Li H, Kong Y, Liang T, Obaidulla SM, Xie S, Wang S, Ma X, **Su H\***, Xu M\*. Tunable photoluminescence in a van der Waals heterojunction built from a MoS2 monolayer and a PTCDA organic semiconductor. Nanoscale. 2018 Aug 30;10(34):16107-16115.

Chong CM, Ke M, Tan Y, Huang ZJ, Zhang K, Ai N, Ge W, Qin DJ, Lu JH, **Su H\***. Presenilin 1 deficiency suppresses autophagy in human neural stem cells through reducing γ-secretase-independent ERK/CREB signaling. Cell Death Dis. 2018 Aug 29;9(9):879.

Luo C, Ren H, Yao X, Shi Z, Liang F, Kang JX, Wan JB, Pei Z, Su KP, **Su H\***. Enriched Brain Omega-3 Polyunsaturated Fatty Acids Confer Neuroprotection against Microinfarction. EBioMedicine. 2018 Jun;32:50-61.

Chong CM, Ai N, Ke M, Tan Y, Huang Z, Li Y, Lu JH, Ge W, **Su H**\*. Roles of Nitric Oxide Synthase Isoforms in Neurogenesis. Mol Neurobiol. 2018 Mar;55(3):2645-2652.

He B, Zheng M, Liu Q, Shi Z, Long S, Lu X, Pei Z, Yuan TF, **Su H**\*, Yao X\*. Injected Amyloid Beta in the Olfactory Bulb Transfers to Other Brain Regions via Neural Connections in Mice. Mol Neurobiol. 2018 Feb;55(2):1703-1713.

Shi Z, Ren H, Huang Z, Peng Y, He B, Yao X, Yuan T, **Su H\*.** Fish oil prevents Lipopolysaccharide -induced depressive-like behavior by inhibiting neuroinflammation. Mol Neurobiol. 2017 54:7327-7334.

Luo C, Liang F, Ren H, Yao X, Liu Q, Li M, Qin D, Yuan TF, Pei Z, **Su H\***. Collateral blood flow in different cerebrovascular hierarchy provides endogenous protection in cerebral ischemia. Brain Pathology. 2017 Nov;27(6):809-821

Huang X, Chen Y-Y, Shen Y, Cao Y, Li A, Liu Q, Li Z, Zhang L-B, Dai W, Tan T, Arias-Carrion O, Xue Y-X, **Su H\*** and Yuan T-F\*. Methamphetamine abuse impairs motor cortical plasticity and function. Molecular Psychiatry 2017 Sep;22(9):1274-1281.

Ren H, Yang Z, Luo C, Zeng H, Li P, Kang JX, Wan JB, He C, **Su H\***. Enriched Endogenous Omega-3 Fatty Acids in Mice Ameliorate Parenchymal Cell Death After Traumatic Brain Injury. Mol Neurobiol. 2017 Jul;54(5):3317-3326.

Ren H, Luo C, Feng Y, Yao X, Shi Z, Liang F, Kang JX, Wan JB, Pei Z, **Su H\***. Omega-3 polyunsaturated fatty acids promote amyloid-β clearance from the brain through mediating the function of the glymphatic system. FASEB J, 2017 Jan;31(1):282-293.

Shi Z, Ren H, Luo C, Yao X, Li P, He C, Kang JX, Wan JB, Yuan TF, **Su H\***. Enriched Endogenous Omega-3 Polyunsaturated Fatty Acids Protect Cortical Neurons from Experimental Ischemic Injury. Mol Neurobiol. 2016 Nov;53(9):6482-6488.

Luo C, Yao X, Li J, He B, Liu Q, Ren H, Liang F, Li M, Lin H, Peng J, Yuan TF, Pei Z, **Su H\***. Paravascular pathways contribute to vasculitis and neuroinflammation after subarachnoid hemorrhage independently of glymphatic control. Cell Death Dis. 2016 Mar 31;7:e2160.

Tan Y, Ren H, Shi Z, Yao X, He C, Kang JX, Wan JB, Li P, Yuan TF, **Su H\***. Endogenous Docosahexaenoic Acid (DHA) prevents Aβ1–42 oligomers induced neuronal injury. Mol Neurobiol. 2016 Jul;53(5):3146-53.

Yang X, Li J, Liang T, Chen H, Hanagata N, **Su H\***, and Xu M\*. Antibacterial activity of two-dimensional MoS2 sheets. Nanoscale 2014 Aug 7;6 (17):10126-33.

Luo C, Ren H, Wan JB, Yao X, Zhang X, He C, So KF, Kang JX, Pei Z, **Su H\***. Enriched endogenous omega-3 fatty acids in mice protect against global ischemia injury. J Lipid Res. 2014 May 29; 55 (7):1288-1297.

**以課題負責人承擔的研究項目 (課題負責人)**

(1). 重編程過程中的細胞週期和細胞分裂的機制研究 (國家科技部973重大研究計畫; 項目編號: 2012CB966802; 2012, 01-2016, 12). 課題組長.

(2). 應用誘導多能幹細胞治療多發性硬化 (啟動經費 2012; 項目編號: SRGO14.ICMS12-SHX; 2012, 01-2012, 12). 課題負責人.

(3). 應用病人特異性的誘導多能幹細胞建立藥物篩選平臺和毒理研究 (澳門大學多年科研基金; 項目編號: MYRG122 (Y1-L3)-ICMS12-SHX; 2012, 06-2015, 05). 課題負責人.

(4). 在腦卒中聯用人參皂苷和神經幹細胞移植的治療研究 (澳門大學多年科研基金; 項目編號: MYRG110 (Y1-L2)-ICMS13-SHX; 2013, 05-2016, 04). 課題負責人.

(5). 聯合應用 Rd 和神經幹細胞移植治療腦卒 (澳門科學與技術發展基金; 項目編號: FDCT 003/2012/A; 2012, 10-2014, 04). 課題負責人.

(6). 利用病人特異性的誘導多能幹細胞建立神經退行性疾病的藥物篩選平臺 (澳門科學與技術發展基金; 項目編號: FDCT 018/2013/A1; 2014, 01-2016, 12). 課題負責人.

(7). 血管旁路維持腦內環境穩態中的作用及其機制研究 (澳門科學與技術發展基金; 項目編號: FDCT 063/2015/A2; 2016, 01-2018, 06). 課題負責人.

(8). 腦小血管病的發病機制研究及其Omega-3防治腦小血管病和血管認知功能障礙的作用機制研究 (澳門科學與技術發展基金; 項目編號: FDCT 020/2017/A1; 2017, 08-2020, 07). 課題負責人.

(9). 促進類淋巴管道功能清除大腦代謝產物從而維持大腦內環境穩態的研究 (澳門大學多年科研基金; 項目編號: MYRG2016-00184-ICMS-QRCM; 2017, 01-2019, 12). 課題負責人.

(10). SENP3在自閉症中的作用和機制 (國家自然科學基金和澳門科學與技術發展基金聯合項目; 項目編號: FDCT 039/2017/AFJ; 2018, 01-2020, 12). 課題負責人.

(11). 靶向脑内淋巴管道脑啡肽酶的基因治疗阿尔茨海默病和脑淀粉样血管病 (澳门大学多年科研基金; 项目编号: MYRG2018-00242-ICMS; 2018, 09-2021, 08). 课题负责人.

**雜誌期刊任職**:

编委: *Brain, Behavior, and Immunity*; IF: 6.3

编委: *Aging and disease;* IF: 5.1

**聯絡方法**

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