

# YANG Yang (陽洋)

## *Curriculum Vitae*

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## ***EDUCATION BACKGROUND***

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2012.9 - 2017.6 (Ph.D) Zhejiang University; School of Medicine  
2015.11 - 2016.11 (CSC joint Ph.D) University of Helsinki; Faculty of Medicine;  
2008.9 - 2012.6 (Bachelor) Shenyang Agricultural University; College of life science and technology

## ***WORKING EXPERIENCE***

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2022.9 - present: Assistant Professor, Faculty of Medicine, Macau University of Science and Technology;  
2021.1- 2022.7: Lecturer, School of Medicine, The Chinese University of Hong Kong, Shenzhen;  
2017.9-2020.8: Postdoctoral researcher, University of Helsinki; Faculty of Medicine; STEMM, RPU

## ***RESEARCH INTERESTS***

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**Effects of Mitochondrial protein homeostasis on metabolism and neurological diseases;**

**Neurodegenerative disease modeling and protective effects from Chinese medicine components;**

**Interdisciplinary interests:** Collaborations with both clinical applications and Chinese medicine researches;  
Combining research with biomaterial field;  
Innovate novel technologies from multidiscipline.

## ***PROJECT EXPERIENCE***

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- Teaching innovation grant, CUHKSZ (2021.9-2023.8): Using e-portfolio to promote cognitive engagement in first-year medical education program (host with Prof. TAM Siu Cheung)

- Guangdong Basic and Applied Basic Research Foundation (2021.10-2024.9): Mechanistic study of mitochondrial stress quality control protein Grpel2 regulating brown adipose tissue energy metabolism to alleviate depressive behavior in mice (host)
- Oral presentation “Tissue-specific effects of mitochondrial import proteostasis” 2019.11.11-15; Cold Spring Harbor, Asia, “Mitochondria and Metabolism in Health and Disease ”conference; Suzhou, China
- Tissue-specific mitochondrial signaling and adaptations to mistranslation. ERC starting grant; (participated)
- Genetic causes of axon degeneration diseases (CMT2) and hereditary spastic paraplegia. Finland; (participated)
- Neuroprotective mechanisms of Triptolide combined with Reg-2 modified BMSCs on promoting microglia mediated cerebral ischemia recover; National Natural Science Foundation of China; 81671138; 2017; 650.000 (CNY); (participated)
- Neural repair mechanism of C16 peptide combined with Reg-2 modified BMSCs on post cerebral ischemia; Natural Science Foundation of China; 81571288; 2016; 570.000 (CNY); (participated)
- Effects of ferritin subunit transformation and FBXL5-IRP2-ferritin axis on iron aggregation on the surface of the central nervous system Natural Science Foundation of China; 81471169; 2015; 700.000 (CYN); (participated)
- Mechanism research on midbrain 5-HT neural circuit of postpartum depression; National Natural Science Foundation of China, 81371493, 2014, 650.000 (CNY) ; (participated)

### ***Selected Publication***

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1. Döhla, J., Kuuluvainen, E., Gebert, N., Amaral, A., Englund, J. I., Gopalakrishnan, S., Konovalova, S., Nieminen, A. I., Salminen, E. S., Torregrosa Munumer, R., Ahlqvist, K., **Yang, Y.**, Bui, H., Otonkoski, T., Käkelä, R., Hietakangas, V., Tynyismaa, H., Ori, A. & Katajisto, P. Metabolic determination of cell fate through selective inheritance of mitochondria, *Nature Cell Biology*. Feb 2022, 24, 2, p. 148-+ 27 p.
  2. G Liu; C Jiang; X Lin; **Y Yang**. Point-of-care detection of cytokines in cytokine storm management and beyond: Significance and challenges. *View*, 20210003.
  3. Long B; Siqi H; Wenchao X; Liang L; **Yang Y**; Robertus Wahyu N; Yimin F; Orlando R. Self-assembled networks of short and long chitin nanoparticles for oil/water interfacial super-stabilization, *ACS Sustainable Chem. Eng.* 2019, 7, 7, 6497–6511.
  4. Konovalova S, Liu X, Manjunath P, Baral S, Neupane N, Hilander T, **Yang Y**, Balboa D, Terzioglu M, Euro L, Varjosalo M & Tynyismaa H. Redox regulation of GRPEL2 nucleotide exchange factor for mitochondrial HSP70 chaperone Oct 2018, *In: Redox biology*. 19, p. 37-45 9 p.
  5. Cooper. H\*, **Yang Y\***, Ylikallio. E, Khairullin R, Woldegebriel R, Lin. K, Euro. L, Palin. E, Wolf. A, Trokovic R, Isohanni. P, Kaakkola. S, Auranen. M, Lonnqvist. T,

- Wanrooij. S, Tyynismaa. H. ATPase-deficient mitochondrial inner membrane protein ATAD3A disturbs mitochondrial dynamics in dominant hereditary spastic paraplegia. *Hum Mol Genet.* 2017 Jan 31. doi: 10.1093/hmg/ddx042. (Co-first author)
6. **Yang Y**, Hu Z, Du X, Davies H, Huo X, Fang M. miR-16 and Fluoxetine Both Reverse Autophagic and Apoptotic Change in Chronic Unpredictable Mild Stress Model Rats. *Front Neurosci.* 2017 Jul 25;11:428. doi: 10.3389/fnins.2017.00428. eCollection 2017.
7. **Yang Y**, Gao K, Hu Z, Li W, Davies H, Ling S, Rudd JA, Fang M. Autophagy upregulation and apoptosis downregulation in DAHP and triptolide treated cerebral ischemia. *Mediators Inflamm.* 2015; 2015:120198.
8. **Yang Y**, Marong Fang, Xiaoxue Du, Zhiying Hu. Lucky gene 5-HTTLPR and postpartum depression: A systematic review. *Neuroendocrinology Letters* Volume 38 No. 5 2017.
9. Li W, **Yang Y**, Hu Z, Ling S, Fang M. Neuroprotective effects of DAHP and Triptolide in focal cerebral ischemia via apoptosis inhibition and PI3K/Akt/mTOR pathway activation. *Front Neuroanat.* 2015 Apr 22; 9:48.
10. Hu Z, **Yang Y**, Gao K, Rudd JA, Fang M. Ovarian hormones ameliorate memory impairment, cholinergic deficit, neuronal apoptosis and astrogliosis in a rat model of Alzheimer's disease. *Exp Ther Med.* 2016 Jan; 11(1):89-97.
11. Du X, Huo X, **Yang Y**, Hu Z, Botchway BOA, Jiang Y, Fang M. miR-124 downregulates BACE 1 and alters autophagy in APP/PS1 transgenic mice. *Toxicol Lett.* 2017 Oct 5;280:195-205.
12. Bai S, Hu Z, **Yang Y**, Yin Y, Li W, Wu L, Fang M. Anti-Inflammatory and Neuroprotective Effects of Triptolide via the NF- $\kappa$ B Signaling Pathway in a Rat MCAO Model. *Anat Rec (Hoboken).* 2016 Feb;299(2):256-66. doi: 10.1002/ar.23293.
13. Liu X, Zhang Y, **Yang Y**, Lin J, Huo X, Du X, Botchway BOA, Fang M. Therapeutic Effect of Curcumin and Methylprednisolone in the Rat Spinal Cord Injury. *Anat Rec (Hoboken).* 2018 Apr;301(4):686-696. doi: 10.1002/ar.23729. Epub 2017 Nov 28.
14. Qin Y, Hu W, **Yang Y**, Hu Z, Li W, Fang M. Neuroprotective Effect of DAHP via Antiapoptosis in Cerebral Ischemia. *Behav Neurol.* 2018 Jun 19;2018:5050469. doi: 10.1155/2018/5050469. eCollection 2018.
15. Hu Z, Du X, **Yang Y**, Botchway BOA, Fang M. Progesterone and fluoxetine treatments of postpartum depressive-like behavior in rat model. *Cell Biol Int.* 2019 May;43(5):539-552. doi: 10.1002/cbin.11123. Epub 2019 Mar 19.