

Jian Sima, PhD

China Pharmaceutical University, Nanjing, China

Email: simajian@cpu.edu.cn



EMPLOYMENT

- 2022-Present, Professor (China Pharmaceutical University)
- 2019-2022, Principal Investigator (China Pharmaceutical University, China)
- 2018-2019, Research Associate (Southern California University, USA)
- 2012-2018, Postdoc Scientist (National Institute on Aging, NIH, USA)
- 2009-2012, Scientist (GlaxoSmithKline, R&D)

EDUCATION

- 2005-2009, Institute of Neuroscience, Chinese Academy of Sciences, Shanghai, China. (PhD, Neurobiology)
- 2001-2004, Nanjing Normal University, Nanjing, China. (Master's degree, Cell Biology)
- 1997-2001, Nanjing Normal University, Nanjing, China. (Bachelor's degree, Biology)

AWARDS/HONORS

- 2022, Distinguished Professor of Jiangsu Province
- 2017, NIH Fellows Award for Research Excellence
- 2016, NIH Fellows Award for Research Excellence
- 2015, NIH Fellows Award for Research Excellence
- 2014, NIA Scientific Director Award
- 2011, GSK FIRST (Forum for Innovative Research and Scientific Talents) AWARD

SELECTED PUBLICATIONS

1. Yang R, Wang L, Li Y, Zhu J, Wang J, Schlessinger D, **Sima J***. DKK3-LRP1 complex and a chemical inhibitor regulate A β clearance in models of Alzheimer's disease. **Science Advances**, **2025**. (*Corresponding author)
2. Ma T, Li YM, Ren PY, Wang SQ, Liu XL, Lv WB, Hou WG, Zuo WQ, Lin WQ, **Sima J***, Geng

AQ*. DNA2 knockout aggravates cerebral ischemia/reperfusion injury by reducing postsynaptic Homer1a. **Zoological Research, 2025.** (*Corresponding author)

3. Xu C, Cao J, Qiang H, Liu Y, Wu J, Luo Q, Wan M, Wang Y, Wang P, Cheng Q, Zhou G, **Sima J***, Guo Y*, Xu S*. TaqTth-hpRNA: a novel compact RNA-targeting tool for specific silencing of pathogenic mRNA. **Genome Biology, 2024.** (*Corresponding author)

4. Xu C, Mei Y, Yang R, Luo Q, Zhang J, Kou X, Hu J, Wang Y, Li Y, Chen R, Zhang Z*, Yao Y*, **Sima J***. Edaravone Dexborneol mitigates pathology in animal and cell culture models of Alzheimer's disease by inhibiting neuroinflammation and neuronal necroptosis. **Cell and Bioscience, 2024.** (*Corresponding author)

5. Yao Y, Yang R, Zhu J, Schlessinger D, **Sima J***. EDA ligand triggers plasma membrane trafficking of its receptor EDAR via PKA activation and SNAP23-containing complexes. **Cell and Bioscience, 2023.** (*Corresponding author)

6. Yao Y#, Ren Z#, Yang R, Mei Y, Dai Y, Cheng Q, Xu C, Xu X, Wang S, Kim KM, Noh JH, Zhu J, Zhao N, Liu YU, Mao G*, **Sima J***. Salidroside reduces neuropathology in Alzheimer's disease models by targeting NRF2/SIRT3 pathway. **Cell and Bioscience, 2022.** (*Corresponding author)

7. Xu C#, Wu J#, Wu Y, Ren Z, Yao Y, Chen G, Fang EF, Noh JH, Liu YU, Wei L, Chen X, **Sima J***. TNF- α -dependent neuronal necroptosis regulated in Alzheimer's disease by coordination of RIPK1-p62 complex with autophagic UVRAG. **Theranostics, 2021.** (*Corresponding author)

8. **Sima J#***, Yan Z#, Chen Y, Lehmann E, Zhang Y, Nagaraja R, Wang W, Wang Z, Schlessinger D*. Eda-activated RelB recruits a SWI/SNF (BAF) chromatin remodeling complex and initiates gene transcription in skin appendage formation. **PNAS, 2018.** (*Corresponding author)

9. **Sima J***, Piao Y, Chen Y, Schlessinger D*. Molecular dynamics of Dkk4 modulates Wnt action and regulates meibomian gland development. **Development, 2016.** (*Corresponding author)

10. Chen G#, **Sima J#**, Jin M#, Wang KY, Xue XJ, Zheng W, Ding YQ, Yuan XB. Semaphorin-3A guides radial migration of cortical neurons during development. **Nature Neuroscience, 2008.** (# Co-first author)