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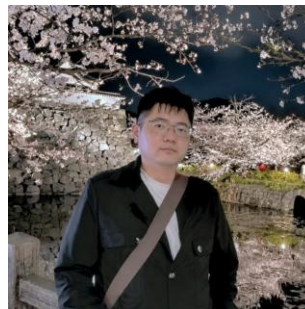
Sin-Min Li, Assistant Professor

Address

School of Pharmacy, College of Pharmacy
Kaohsiung Medical University, Kaohsiung, Taiwan
100 Shih-Chuan 1st Rd., Kaohsiung 807, Taiwan

E-mail: sinminli@kmu.edu.tw

ORCID: <https://orcid.org/0009-0000-8662-8816>

**RESEARCH INTERESTS**

Dr. Li's research integrates medicinal chemistry, natural product chemistry, pharmacological evaluation, and computer-aided drug discovery. His work focuses on bioassay-guided isolation of active natural products, functional modification of natural-product-derived and heterocyclic scaffolds, and mechanistic validation through *in vitro*, *in vivo*, and *in silico* approaches. Current interests include applications in inflammation, cancer, metabolic diseases, and health promotion, with an emphasis on translational research, patent development, and interdisciplinary drug-discovery platforms.

EDUCATION

2020–2024	Ph.D., Institute of Translational Medicine and New Drug Development, College of Medicine, China Medical University, Taichung, Taiwan.
2019–2020	Master Program for Pharmaceutical Manufacture, College of Pharmacy, China Medical University, Taichung, Taiwan. (direct entry to the Ph.D. program)
2013–2018	B.S. in Pharmacy, School of Pharmacy, China Medical University, Taichung, Taiwan.

ACADEMIC AND PROFESSIONAL APPOINTMENTS

2026–Present	Assistant Professor School of Pharmacy, College of Pharmacy, Kaohsiung Medical University, Kaohsiung, Taiwan.
2024–2026	Postdoctoral Research Fellow Department of Pharmacy, College of Pharmaceutical Sciences, National Yang Ming Chiao Tung University, Taipei, Taiwan.
2025	Adjunct Instructor Prescription of Chinese Drug, Department of Pharmacy, National Yang Ming Chiao Tung University.

RESEARCH EXPERTISE

- **Medicinal chemistry and small-molecule drug discovery:** scaffold design, organic synthesis, functional derivatization, structure–activity relationships, and physicochemical optimization.
- **Natural product chemistry:** extraction, bioassay-guided fractionation, isolation, purification, and structure elucidation of bioactive constituents.
- **Pharmacological evaluation:** cell-based assays, enzyme inhibition, inflammatory and cancer models, Western blotting, ELISA, immunofluorescence.
- **Computational and data-driven drug discovery:** molecular docking, QSAR, ADMET prediction, network pharmacology, target/pathway enrichment, and database-based screening.

PATENTS

1. **Li, S.-M.;** Chou, J.-Y.; Tsai, S.-E.; Tseng, C.-C.; Huang, G.-J.; Wong, F.-F. "Preparation of Nitric-Oxide-Releasing Furoxan/1,2,4-Triazole Hybrid Derivatives and Their Use as Anti-Inflammatory Agents." Taiwan Invention Patent I854827 (granted 1 September 2024).

2. Chiang, C.-Y.; **Li, S.-M.**; Zeng, W.-Z.; Tsai, S.-E.; Chung, C.-Y.; Huang, G.-J.; Wong, F.-F. "Preparation and Use of Tricyclic and Tetracyclic Genipin Derivatives with Anti-Inflammatory Activity." Taiwan Invention Patent I826928 (granted 21 December 2023).
3. Chiang, C.-Y.; **Li, S.-M.**; Tsai, S.-E.; Huang, G.-J.; Wong, F.-F.; Yang, Y.-C. "1,2,4-Triazole Derivatives with Selective Cyclooxygenase-2 Inhibitory Activity and Their Uses." Taiwan Invention Patent I754474 (granted 1 February 2022).

PUBLICATIONS

1. Kuan-Ying Huang; **Sin-Min Li**; Jih-Jung Chen*. Bioactive Extracts and Constituents from *Taraxacum mongolicum*: Antioxidant, Anti-Inflammatory, Enzyme-Inhibitory, and Molecular Docking Studies. *Antioxidants* **2026**, 15, 688.
2. Chia-Hsuan Tsai; Yu-Jyun Guo; **Sin-Min Li** (co-second author); Hsuan-Yu Chou; Jih-Jung Chen*. Multi-functional Investigation via Biological and Computational Insight into Extracts and Components from Root of *Polygonum multiflorum*. *Industrial Crops and Products* **2026**, 247, 123490.
3. **Sin-Min Li**; Yuen-Sing Lee; Kuan-Ying Huang; Jih-Jung Chen*. Bioactive Extract and Component from Fruit Spikes of *Prunella vulgaris* L. Induce Apoptosis in Non-Small Cell Lung Cancer: An Integrative Network Pharmacology, Molecular Docking, and Experimental Validation Approach. *Industrial Crops and Products* **2026**, 241, 122697.
4. Sin-Ling Wang; **Sin-Min Li** (co-first author); Tsong-Long Hwang; Mei-Ing Chung; Jih-Jung Chen*. Bioactivity and In Silico Insights into 2-(2-Phenylethyl)-4H-chromen-4-one and Sesquiterpenoid Constituents from Agarwood (*Aquilaria sinensis*) as Anti-inflammatory Agents. *Industrial Crops and Products* **2026**, 241, 122698.
5. Wen-Liang Lu; Yuen-Sing Lee; **Sin-Min Li**; Jih-Jung Chen*. A New Lignan and Bioactive Components with Anti-Inflammatory Activity from the Flowers of *Koeleruteria henryi*. *Industrial Crops and Products* **2026**, 242, 122990.
6. Chia-Sin Yang; **Sin-Min Li**; Jih-Jung Chen*. Insights into Bioactive Constituents from Pericarp of *Garcinia mangostana*: Anti-Inflammatory Effects via NF- κ B/MAPK Modulation and M1/M2 Macrophage Polarization. *Antioxidants* **2026**, 15, 128.
7. Shih-Jung Cheng; Yuen-Sing Lee; Lin-Yang Cheng; **Sin-Min Li**; Jih-Jung Chen*. Antioxidant and Anti-Inflammatory Constituents from the Roots of *Anodendron affine*: Inhibition of the fMLP-Induced Superoxide Anion Generation and Molecular Docking Studies. *Antioxidants* **2026**, 15, 97.
8. Avishek Guchait; **Sin-Min Li**; Lie-Chwen Lin; Jih-Jung Chen*. Bioactive and Functional Insights into Lophatheri Herba (*Lophatherum gracile*): A Promising Source for Health-Promoting Applications. *Industrial Crops and Products* **2025**, 235, 121801.
9. Cai-Wei Li; **Sin-Min Li**; Jih-Jung Chen*. Isolation, Characterization, and Biological Evaluation of Bioactive Components from the Stem Bark of *Broussonetia papyrifera*: Antioxidant Properties and Apoptosis Induction in Breast Cancer Cells. *Bioorganic Chemistry* **2025**, 163, 108778.
10. Yu-Jing Wu; **Sin-Min Li** (co-first author); Chun-Lin Chen; Zih-Rong Chen; Jih-Jung Chen*. Anti-inflammatory Activity of *Pogostemon cablin*: Bioactive Components and Their Modulation of MAPK and NF- κ B Signaling Pathway. *Bioorganic Chemistry* **2025**, 161, 108516.
11. Pei-Ju Kuo; Li-Ting Chen; **Sin-Min Li** (co-second author); Zih-Rong Chen; Jih-Jung Chen*. Pharmacological and Molecular Docking Investigation of Leaves of *Eriobotrya japonica*: Antioxidant, Enzyme Inhibition, and Anti-Inflammatory Effects. *Antioxidants* **2025**, 14, 413.
12. Chia-Hsuan Tsai; Ya-Lun Liou; **Sin-Min Li** (co-second author); Hsiang-Ruei Liao*; Jih-Jung Chen*. Antioxidant, Anti- α -Glucosidase, Anti-Tyrosinase, and Anti-Acetylcholinesterase Components from Stem of *Rhamnus formosana* with Molecular Docking Study. *Antioxidants* **2025**, 14, 8.
13. **Sin-Min Li**; Wei-Zheng Zeng; Cheng-Yen Chung; Naoto Uramaru; Guan-Jhong Huang*; Fung Fuh Wong*. Synthesis, Physicochemical Characterization, and Investigation of Anti-inflammatory Activity of Water-soluble PEGylated 1,2,4-Triazoles. *Bioorganic Chemistry* **2024**, 147, 107312.
14. Cheng-Yen Chung; **Sin-Min Li** (co-first author); Wei-Zheng Zeng; Naoto Uramaru; Guan-Jhong Huang; Shih-Hua Juang; Fung Fuh Wong*. Synthesis, Design, and Antiproliferative Evaluation of 6-(N-Substituted-methyl)pyrazolo[3,4-d]pyrimidines as the Potent Anti-Leukemia Agents. *Bioorganic Chemistry* **2024**, 148, 107424.
15. Cheng-Yen Chung; Ching-Chun Tseng; **Sin-Min Li**; Wei-Zheng Zeng; Yu-Ching Lin; Yu-Pei Hu; Wen-Ping Jiang; Guan-Jhong Huang; Henry J. Tsai; Fung Fuh Wong*. Synthesis of β -Amino Carbonyl 6-(Aminomethyl)- and 6-(Hydroxymethyl)pyrazolopyrimidines for DPP-4 Inhibition Study. *Current Medicinal Chemistry* **2024**, 31, 3380–3396.

16. Shuo-En Tsai; Cheng-Yen Chung; **Sin-Min Li**; Wei-Zheng Zeng; Jia-Yu Chou; Wen-Ping Jiang; Guan-Jhong Huang; Der-Yen Lee*; Fung Fuh Wong*. Identified Synthesis and In-vivo Study of Oxidized Metabolites of Rimonabant via LC-ESI-MS Technique. *Journal of Molecular Structure* **2023**, 1298, 137023.
17. **Sin-Min Li**; Jia-Yu Chou; Shuo-En Tsai; Ching-Chun Tseng; Cheng-Yen Chung; Wei-Zheng Zeng; Yu-Pei Hu; Naoto Uramaru; Guan-Jhong Huang; Fung Fuh Wong*. Synthesis and Anti-inflammatory Activity Evaluation of NO-Releasing Furoxan/1,2,4-triazole Hybrid Derivatives. *European Journal of Medicinal Chemistry* **2023**, 257, 115496.
18. Yu-Chieh Chen; Wei-Zheng Zeng; **Sin-Min Li**; Jia-Yu Chou; Shuo-En Tsai; Fung Fuh Wong*. One-Pot Double Oxidation Synthesis of N-1-Piperidonyl Amides from N-1-Piperidinyl Amides with meta-Chloroperbenzoic Acid: Rimonabant Analogue as Model Study. *Chemistry – A European Journal* **2023**, 29, e202300702.
19. **Sin-Min Li**; Chia-Ying Chiang; Wei-Zheng Zeng; Cheng-Yen Chung; Ching-Chun Tseng; Yu-Pei Hu; Yu-Ching Lin; Guan-Jhong Huang; Ichiro Arai; Der-Yen Lee; Shuo-En Tsai*; Fung Fuh Wong*. Bioactivity Study of Tricyclic and Tetracyclic Genipin Derivatives as Anti-inflammatory Agents. *Bioorganic Chemistry* **2022**, 126, 105881.
20. Chia-Ying Chiang; Wei-Zheng Zeng; Cheng-Yen Chung; Ching-Chun Tseng; **Sin-Min Li**; Yu-Pei Hu; Guan-Jhong Huang; Shuo-En Tsai*; Fung Fuh Wong*. Synthesis of Tricyclic Methyl Cyclopentapyridopyrimidin-6-carboxylates and Cyclopentaimidazopyridin-6-carboxylates from Genipin. *ChemistrySelect* **2022**, 7, e202104327.
21. Cheng-Yen Chung; Ching-Chun Tseng; **Sin-Min Li**; Shuo-En Tsai; Hsin-Yi Lin*; Fung Fuh Wong*. Structural Identification between Phthalazine-1,4-Diones and N-Aminophthalimides via Vilsmeier Reaction: Nitrogen Cyclization and Tautomerization Study. *Molecules* **2021**, 26, 2907.
22. Ming-Tsuen Fuh; Ching-Chun Tseng; **Sin-Min Li**; Shuo-En Tsai; Tzu-Jung Chuang; Chia-Hung Lu; Yi-Chun Yang; Henry J. Tsai; Fung Fuh Wong*. Design, Synthesis and Biological Evaluation of Glycolamide, Glycinamide, and β -Amino Carbonyl 1,2,4-Triazole Derivatives as DPP-4 Inhibitors. *Bioorganic Chemistry* **2021**, 114, 105049.
23. **Sin-Min Li**; Shuo-En Tsai; Chia-Ying Chiang; Cheng-Yen Chung; Tzu-Jung Chuang; Ching-Chun Tseng; Wen-Ping Jiang; Guan-Jhong Huang; Chia-Yi Lin; Yi-Chun Yang; Fung Fuh Wong*. New Methyl 5-(Halomethyl)-1-aryl-1H-1,2,4-triazole-3-carboxylates as Selective COX-2 Inhibitors and Anti-inflammatory Agents: Design, Synthesis, Biological Evaluation, and Docking Study. *Bioorganic Chemistry* **2020**, 104, 104333.
24. Shuo-En Tsai; **Sin-Min Li**; Ching-Chun Tseng; Cheng-Yen Chung; Yu-Han Zeng; Chia-Chieh Lin; Ming-Tsuen Fuh; Li-Chen Yang; Yi-Chun Yang; Fung Fuh Wong*. Chlorotrimethylsilane-Promoted One-Flask Heterocyclic Synthesis of 1,2,4-Triazoles from Nitrilimines: Modeling Studies and Bioactivity Evaluation of LH-21 and Rimonabant Analogues. *Bioorganic Chemistry* **2020**, 104, 104299.
25. Ching-Chun Tseng; Shuo-En Tsai; **Sin-Min Li**; Fung Fuh Wong*. One-Pot Acid-Promoted Synthesis of 6-Aminopyrazolopyrimidines from 1H-Pyrazol-5-yl-N,N-dimethylformamidines or 5-Amino-1H-pyrazole-4-carbaldehydes with Cyanamide. *The Journal of Organic Chemistry* **2019**, 84, 16157–16170.