



LU Qun

Associate Professor

Head of Department of Chemistry and Chemical Engineering

Director of the Experiment for Peptide Research and Development

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BIO

Education

- **PhD**, Shanghai Institute of Materia Medica (SIMM), Chinese Academy of Sciences (USC), Medicinal Chemistry (2002)
- **M.A.**, Sichuan Industrial Institute of Antibiotic, Microbial and Biochemical Pharmacy, (1997)
- **B.S.**, West China University of Medicine, Pharmacy (1991)

Employment

Academic Appointments

- Associate Professor, Department of Chemistry and Chemical Engineering, Southwest Jiaotong University, China (2004-present)
- Postdoctoral Fellow, Rensselaer Polytechnic Institute, USA (2002-2004)
- Research fellow, Sichuan Industrial Institute of Antibiotic, China (1991-1994)

Administrative Appointments

- Director, Experiment for Peptide Research and Development (2016-present)
- Head of Department of Chemistry and Chemical Engineering (2012-present)

RESEARCH INTERESTS

- Research Interest 1: Medicinal Chemistry, drug discovery and design, Polypeptide drugs
- Research Interest 2: Enzymatic catalysts and chemical synthesis for pharmaceutical engineering

SELECTED PUBLICATIONS

Principal Publications of the Last Five Years

- Liu, Wanli; Su, Qifeng; Qiu, Kang; Wang, Meng; **Lu, Qun*** Regioselective synthesis of quinoxalin-2-one derivatives regulated by acid and base Heterocycles (2020), 100(5), 768-780.
- Jing Ding, Zhijun Yang, Yu Zhao, Weizhen Fang & **Qun Lu*** Lipasecatalyzed synthesis of ethyl (R)-2-benzyloxy-2-isopropylhydrogenmalonate: a useful combination of chemical synthesis with enzymatic methods, Bioscience Biotechnology and Biochemistry, (2019),83:4,763-767
- Hai-Bo Zhang, Xu Zhang, Kun Jiang, Shi-Jin Qu, Ling-Hua Meng, **Qun Lu*** & Chang-Heng Tan. Polycyclic polyprenylated acylphloroglucinols from Hypericum choisianum, Natural Product Research, (2019),1478-6427

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- Jinqi Luo, Fang Jiang, Weizhen Fang, **Qun Lu***, Optimization of bioconversion conditions for vitamin D3 to 5-hydroxyvitamin D using *Pseudonocardia autotrophica* CGMCC5098, *Biocatalysis and Biotransformation* 2017,35:1, 11-18
 - Q. Luo, F. Jiang, W. Q. Song, W. Z. Fang, **Qun. Lu***, Synthesis of Paricalcitol: A Novel Strategy Combining Chemical and Microbial, *Russian Journal of Bioorganic Chemistry (Bioorganicheskaya Khimiya)*, 2017, 3-4 Transformations
 - W.-Q. Song, Y.-H. Wang, D.-N. Liu, W.-Z. Fang, and **Qun Lu***. A Novel Method for the Synthesis of Maxacalcitol, *Russian Journal of General Chemistry*, 2016, 86(1):173-177. ISSN 1070-3632
 - Cao, XQ, Wang, KY, Du, G, Asiri, AM, Ma, YJ, **Lu, Qun***, Sun, XP*, One-step electrodeposition of a nickel cobalt sulfide nanosheet film as a highly sensitive nonenzymatic glucose sensor, *Journal of Material Chemistry B*, 2016,4(47): 7540-7544

SELECTED AWARDS AND HONORS

- Basic Research Grant, PI, Southwest University, China (2010)

PROFESSIONAL ACTIVITIES

- Fellow of China Pharmacy (2004–present)

RESEARCH

Current Research

- Research project title 1: Receptor-based drug design and synthesis for drug discovery in development against drug-resistant *Mycobacterium tuberculosis*
- Research project title 2: Modification of Ergot alkaloid to discover an anti-Parkinson's drug
- Research project title 3: Research and development on structure and function of insect active polypeptides
- Research project title 4: Research and development of enzyme catalytic process for key intermediates of chiral drugs

Research Group

- Dr. Lu is a main member of Wei Dong Professor group

TEACHING

Primary Teaching areas

- Area: pharmaceutical engineering

Current Courses

- Course title 1: Pharmaceutical technology for Undergraduate course
- Course title 2: Curriculum Design of Pharmaceutical engineering or Undergraduate course
- Course title 3: Modern pharmaceutical technology for master degree's course

GRADUATE SUPERVISION

I am available for supervision. Over the past five years, I have supervised and graduated 15 master.
