

招聘启事：中药合成生物学研究中心 (BiMoS) 拟招聘实习、硕士研究生、博士研究生、博士后、研究助理数名。

## **Open Positions: Internship, Master's Thesis, PhD Thesis or Postdoctoral Studies in Organic Synthesis/ Natural Products Chemistry**

加入我们，共同合成未来!

### **Join us and synthesize the future!**

我们正在寻找充满激情的研究人才，加入中药合成生物学研究中心，共同探索天然产物的合成奥秘。

We are seeking passionate talents to join Shanghai Research Center for Bioactive Molecule Synthesis (BiMoS) and explore the mysteries of natural product synthesis.

关于我们:

### **About us:**

中药合成生物学研究中心是一个于2025年新成立的前沿研究机构。作为中德合作的结晶，中心同时与多个世界顶尖研究机构及高校保持紧密的学术合作关系，汇聚了海内外顶尖科研力量，致力于有机合成化学，特别是复杂天然产物的全合成研究，并推动其在药物发现与生物医学领域的应用。中心由 Tanja Gaich 教授、Fabian Schneider 教授、黄文伯、潘璐等共同领衔，现有五位在有机合成领域成就卓著的资深研究员。

The BiMoS research center is a Chinese-German cooperation with a special emphasis on the integration of overseas researchers and faculty founded in 2025 under the tutelage of Prof. Tanja Gaich, Prof. Fabian Schneider, Prof. Wenbo Huang and Prof. Pan Lu. The research center includes currently 5 faculty members with a highly successful record track in the field of organic synthesis. The BiMoS research center has a special focus on

the total synthesis of natural products and exploration of their potential for medicinal applications.

## 研究方向:

### Research Focus:

目标导向的合成: 专注于具有重要生物活性的萜类、生物碱及肽类天然产物的高效合成。

**Target-Oriented Synthesis:** Focus on the total synthesis of terpenoid, alkaloid, and Ripps natural products with significant biological activity.

合成方法学开发: 设计新颖合成策略与反应, 以攻克复杂天然产物的合成挑战。

**Synthetic Methodology Development:** Develop novel synthetic strategies and methodology to address the challenges of complex natural product synthesis.

转化研究: 对已合成的分子进行深入的生物活性评价、构效关系研究及药物化学优化。

**Translational Research:** Conduct in-depth biological activity evaluation, structure-activity relationship studies, and medicinal chemistry optimization of synthesized molecules.

## 科研平台:

### Facilities:

中心坐落于上海中医药大学, 拥有近 1700 平方米的全新现代化实验室, 配备世界一流的仪器设备, 包括: 配备冷冻探头的 600 MHz 及 400 MHz 核磁共振波谱仪、高分辨质谱仪 (HRMS)、液质联用系统 (LCMS)、手性 HPLC、分析/制备型高效液相色谱、全自动中压制备色谱系统、X 射线单晶体衍射仪。此

外，中心依托大学及其附属龙华医院的资源，可直接对接先进的生物学研究设施与临床转化平台。

The center is situated at Shanghai University of Chinese Medicine, occupying nearly 1,700 square meters of newly built, modern laboratory space. It is well-funded and equipped with state-of-the-art synthetic and biological laboratories. The comprehensive analytical infrastructure includes 600 MHz and 400 MHz NMR spectrometers with cryoprobes, high-resolution mass spectrometry (HRMS), liquid chromatography–mass spectrometry (LCMS), chiral HPLC, analytical and preparative HPLC, X-ray single crystal diffractometer, as well as automated medium-pressure chromatography systems.

Furthermore, through its integration with the university and its affiliated Longhua Hospital, the center provides direct access to advanced biological research facilities and creates a direct pathway for translational medicine studies.

**导师团队示例：**

### **Representative Faculty**

Fabian Schneider 教授

2021 年于康斯坦茨大学获博士学位；随后于美国斯克利普斯研究所 Phil Baran 教授课题组进行博士后研究；2025 年加入 BiMoS。Fabian Schneider 教授曾荣获 DECHEMA 天然产物化学研究奖、亚历山大·冯·洪堡基金会 Feodor-Lynen 奖。其主要研究方向是萜类及肽类天然产物的全合成，以（共同）第一及通讯作者在 Science、Nature、J. Am. Chem. Soc. 等顶级期刊发表多篇论文。

Prof. Fabian Schneider graduated with a PhD in organic synthesis from the University of Konstanz in 2021. After postdoctoral studies with Prof. Phil Baran at Scripps research in La Jolla, CA, USA he started his independent career 2025 at the Shanghai Research Center for Bioactive Molecule Synthesis where he is currently holding a position as chair professor, focused on research in the total synthesis of terpene and peptide natural products. He received among others the DECHEMA Award for research in natural products chemistry and support by a Feodor-Lynen Fellowship by the Alexander von

Humboldt Foundation. To date, he has published multiple papers in internationally renowned journals such as Science, Nature, and JACS.

**招聘要求及薪资待遇:**

### **Requirements and Benefits**

**硕士研究生 10 名、博士研究生 4 名、博士后 3 名**

### **10 Master's Students, 4 Doctoral Students, and 3 Postdoctoral Researchers**

我们诚邀具备有机化学、化学生物学、分子生物学、药学等相关背景的候选人，特别鼓励在全合成、不对称催化、金属有机化学、光催化、电化学、天然产物分离方面有训练者应聘。期待申请人具备良好的独立科研能力与团队合作精神，能够熟练的阅读英文文献并开展中英文论文写作。在相关领域发表过高水平论文者将优先考虑。

待遇按照上海中医药大学相关规定执行。此外，课题组将根据研究贡献、论文发表、基金项目等情况给予丰厚的绩效奖励。

对于特别优秀的硕士/博士研究生，可优先获得本课题组直博的机会，或推荐赴海外名校攻读博士/博士后。

对于博士后，课题组全力支持申报“国家博士后创新人才支持计划”、上海市“超级博士后”等博后人才项目。

在站期间全职从事博士后研究，博士后出站考核优秀且满足学校要求者，通过评估后可推荐应聘上海中医药大学教研相关岗位并享受相关待遇。

We warmly invite candidates with backgrounds in organic chemistry, chemical biology, molecular biology, pharmaceutical sciences, or related fields. Applicants with training in total synthesis, asymmetric catalysis, organometallic chemistry, photocatalysis, electrochemistry, or natural product isolation are especially encouraged to apply.

Ideal candidates should demonstrate excellent independent research skills and a strong commitment to teamwork, along with proficiency in reading English literature and conducting scientific writing in both Chinese and English. Priority will be given to those who have published high-quality papers in relevant fields.

Basic salary will be provided in accordance with the relevant regulations of Shanghai University of Traditional Chinese Medicine. In addition, the research group will offer substantial performance-based incentives based on research contributions, publications, and grant achievements.

For exceptionally outstanding master's or doctoral students, priority consideration will be given for direct admission to a doctoral program within our research group, or for recommendation to prestigious overseas institutions for doctoral or postdoctoral studies.

For postdoctoral researchers, the group will provide full support in applying for prestigious fellowship programs such as the National Postdoctoral Program for Innovative Talents and the Shanghai Super Postdoctoral Fellowship.

Postdocs those who perform exceptionally well in their postdoctoral assessment and meet the university's requirements may be recommended for positions at Shanghai University of Traditional Chinese Medicine.

### 项目实习生(最长6个月)、研究助理数名

#### **Project Internship (up to 6 months) / Research Assistant**

项目实习 这一职位面向已取得学士学位的申请者。这一职位是为申请者提供了宝贵的机会，在正式申请成为中心（硕士/博士研究生、博士后）之前，能够深入了解中心的研究方向、团队成员与工作环境。申请者要求具备主动思考与有效沟通的能力，并具备扎实的科研基本功。对于项目实习，中心将在实习期间将提供一定的生活津贴。对于研究助理，中心将提供具有竞争力的薪酬待遇。

This position is open to applicants who have obtained a bachelor's degree which provide a privileged chance for the applicants learn more about the research focus, group and working environment at the center before committing to a longer-term

arrangement (MA/ PhD thesis, postdoctoral studies). Candidates are expected to demonstrate proactive thinking, effective communication skills, and a solid foundation in scientific research. In addition, for project internships, the center will provide a living allowance during the internship period. For research assistant positions, a competitive salary will be offered.

## 申请方式:

### Application

请有意应聘者将个人简历（包括教育、工作经历、研究内容总结、代表性论文等）以 pdf 形式发送至 Fabian Schneider(fschneider@shutcm.edu.cn)或潘璐 (lu.pan@shutcm.edu.cn)邮箱。申请材料接受中文、英文或德文.对符合要求的申请人我们会尽快回复。欢迎有志于从事科学研究的同仁加入!

Interested applicants are invited to submit their curriculum vitae in PDF format, including previous research track, a summary of research, and representative publications if applicable, to either Fabian Schneider (fschneider@shutcm.edu.cn) or Pan Lu (lu.pan@shutcm.edu.cn). Application materials may be submitted in Chinese, English, or German. Applicants who meet our requirements will receive a prompt response. We look forward to welcoming passionate talents to our team!

### 代表性论文

- Huang W.<sup>†</sup>, Pan L.<sup>†</sup>, Zhao H., Schneider F.\*, Gaich T.\*, Total Synthesis of (-)-Spiroaspertrione A: A Divinylcyclopropane Rearrangement Approach, *Science* **2025**, 390, 261-265.
- Pan L.,<sup>‡</sup> Schneider F.,<sup>‡</sup> Ottenbruch M., Wiechert R., List T., Schoch P., Mertes B., Gaich T., A general strategy for the synthesis of taxane diterpenes, *Nature* **2024**, 632, 543–549.
- Schneider F.,<sup>‡</sup> Guo Y.,<sup>‡</sup> Lin Y.-C.,<sup>‡</sup> Eberle K. J., Chiodi D., Greene J. A., Lu C., Baran P. S., Total Synthesis of Dynobactin A, *J. Am. Chem. Soc.* **2024**, 146, 6444-6448.

- Lin Y.-C.,<sup>‡</sup> Schneider F.,<sup>‡</sup> Eberle K. J.,<sup>‡</sup> Chiodi D., Nakamura H., Reisberg S. H., Chen J., Saito M., Baran P. S., Atroposelective Total Synthesis of Darobactin A, *J. Am. Chem. Soc.* **2022**, *144*, 14458-14462.
- Schneider F., Samarin K., Zanella S., Gaich T., Total synthesis of the complex taxane diterpene canataxpropellane, *Science* **2020**, *367*, 676-681.



