

# 重庆大学药学院

天然产物全合成与创新药物研究重庆市重点实验室

## 学术报告 第二百三十五讲

**报告题目:** Probing Functions of Glycosylation Based on Chemically Synthesized Proteins and Peptides

**报告人:** 董甦伟 研究员 (北京大学药学院)

**时 间:** 2022 年 9 月 28 日 (周三) 15:00

**地 点:** 线上 (会议 ID: 688-848-582, 会议密码: 220928)

### 报告人简介:

董甦伟, 博士, 北京大学研究员、博士生导师, 药学院化学生物学系主任、天然药物及仿生药物国家重点实验室课题组长。入选国家海外高层次人才、北京市优秀青年人才。长期致力于蛋白质化学合成和糖基化功能研究、多肽及蛋白药物的合成及改造, 以第一作者或通讯作者身份在 Science、J. Am. Chem. Soc.、Adv. Sci.、Angew. Chem. Int. Ed.、Chem. Sci.等学术刊物发表多篇学术论文; 作为负责人获国家自然科学基金优秀青年基金项目、北京市自然科学基金杰出青年基金项目等资助。先后获得“中国药学会-施维雅”青年药物化学奖、中国化学会糖化学青年学者奖等奖励。



### 荣誉及奖励:

- 2021 北京大学“拜耳学者奖”
- 2021 中国化学会糖化学青年学者奖
- 2018 国家自然科学基金优秀青年基金获得者
- 2018 北京市自然基金杰出青年基金获得者
- 2018 中国药学会-施维雅药物化学青年奖

2017 第八批“北京市优秀青年人才”

2016 第十四届中国国际多肽大会（CPS2016）“青年多肽科学家奖”

2014 国家“青年千人计划”入选者

2010 美国波士顿大学化学系 Lichtin Award for Excellence in Research

发表论文:

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2.Wu, Q.; Dong, W.; Miao, H.; Wang, Q.; Dong, S.\*; Xuan, W.\* “Site-Specific Protein Modification with Reducing Carbohydrates” *Angew. Chem. Int. Ed.* 2022, 61, e202116545.

3.Liu, D.; Wei, Q.; Xia, W.; He, C.; Zhang, Q.; Huang, L.; Wang, X.; Sun, Y.; Ma, Y.; Zhang, X.; Shi, X.; Liu, C.\*; Dong, S.\* “O-Glycosylation Induces Amyloid- $\beta$  To Form New Fibril Polymorphs Vulnerable for Degradation” *J. Am. Chem. Soc.* 2021, 143, 20216-20223.

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5.He, C.; Wu, S.; Liu, D.; Chi, C.; Zhang, W.; Ma, M.; Lai, L.; Dong, S.\* “Glycopeptide Self-Assembly Modulated by Glycan Stereochemistry through Glycan–Aromatic Interactions” *J. Am. Chem. Soc.* 2020, 142, 17015-17023.

6.Wang, H.†; Liu, Z.†; An, C.; Li, H.; Hu, F.; Dong, S.\* “Self-Assembling Glycopeptide Conjugate as a Versatile Platform for Mimicking Complex Polysaccharides” *Adv. Sci.* 2020, 2001264.

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11.Dao, Y.; Dong, S.\* “Shape linear peptides into rigid rings: a sp(3) C-H arylation approach to cyclophane-braced peptide macrocycles” *Sci. Chem. China.* 2018, 61, 1477-1478.

12.Wang, Y.; Han, L.; Yuan, N.; Wang, H.; Li, H.; Liu, J.; Chen, H.; Zhang, Q.\*; Dong, S.\* “Traceless  $\beta$ -mercaptan-assisted activation of valinyl benzimidazolinones in peptide ligations” *Chem. Sci.* 2018, 9, 1940-1946.

13.Liu, J.; Dong, S.\* “Synthetic studies toward human interleukin-5” *Chin. Chem. Lett.* 2018, 29, 1131-1134.

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