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Synthetic Study on ADP-ribosylation

Liu, Q.

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List of publications

- A solid-phase synthesis method for the assembly of linear and branched ADPr oligomers
Manuscript in preparation
- Synthesis of 3',5'-pyrophosphate-linked thymidine oligomers
Manuscript in preparation
- **Liu, Q.**; van der Marel, G. A.; Filippov, D. V., Chemical ADP-ribosylation: mono-ADPr-peptides and oligo-ADP-ribose. *Org. Biomol. Chem.* **2019**, 17 (22), 5460-5474. (Review)
- **Liu, Q.**; Kistemaker, H. A. V.; Bhogaraju, S.; Dikic, I.; Overkleeft, H. S.; van der Marel, G. A.; Ovaa, H.; van der Heden van Noort, G. J.; Filippov, D. V., A General Approach Towards Triazole-Linked Adenosine Diphosphate Ribosylated Peptides and Proteins. *Angew. Chem. Int. Ed.* **2018**, 57 (6), 1659-1662.
- **Liu, Q.**; Florea, B. I.; Filippov, D. V., ADP-Ribosylation Goes Normal: Serine as the Major Site of the Modification. *Cell Chem. Biol.* **2017**, 24 (4), 431-432. (Preview)
- **Liu, Q.**; Kistemaker, H. A. V.; Overkleeft, H. S.; van der Marel, G. A.; Filippov, D. V., Synthesis of ribosyl-ribosyl-adenosine-5',5'',5'''(triphosphate)-the naturally occurring branched fragment of poly(ADP ribose). *Chem. Commun.* **2017**, 53 (74), 10255-10258. (Featured on cover)
- **Liu, Q.**; Qiang, X.; Li, Y.; Sang, Z.; Li, Y.; Tan, Z.; Deng, Y., Design, synthesis and evaluation of chromone-2-carboxamido-alkylbenzylamines as multifunctional agents for the treatment of Alzheimer's disease. *Bioorg. Med. Chem.* **2015**, 23 (5), 911-23.
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- Qiang, X. M.; Sang, Z. P.; Yuan, W.; Li, Y.; **Liu, Q.**; Bai, P.; Shi, Y. K.; Tan, Z. H.; Deng, Y. Design, synthesis and evaluation of genistein-O-alkylbenzylamines as potential multifunctional agents for the treatment of Alzheimer's disease. *Eur. J. Med. Chem.* **2014**, 76, 314-31.