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Research in the Pentelute lab entails the use of new chemistry and platforms to solve important problems in chemical biology. We focus on the use of cysteine arylation to generate abiotic macromolecular proteins, the precision delivery of biomolecules into cells, and the development of fast flow platforms to rapidly produce polypeptides.

References

1. Rabideau, A.E. & Pentelute, B.L. (2016) Delivery of non-native cargo into mammalian cells using anthrax lethal toxin. *ACS Chem. Biol.*, 11(6):1490-501
2. Zhang, C., Welborn, M., Zhu, T., Santos, M., Yang, N., Van Voorhis, T., Pentelute, B.L. (2016) π -Clamp mediated cysteine conjugation. *Nature Chemistry*, (8)2, 120-128
3. Vinogradova, E.V.*, Zhang, C.*, Spokoyny, A. M., Pentelute, B.L.*, Buchwald, S.L.* (2015) Organometallic palladium reagents for cysteine bioconjugation. *Nature*, 526(7575), 687-691 (*Co-corresponding authors and first authors)

