

化学系国際セミナー



Dynamic Systems For Drug Delivery

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場所：大岡山 本館 1階 M-123

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DYNAMIC SYSTEMS FOR DRUG DELIVERY

Sébastien ULRICH¹

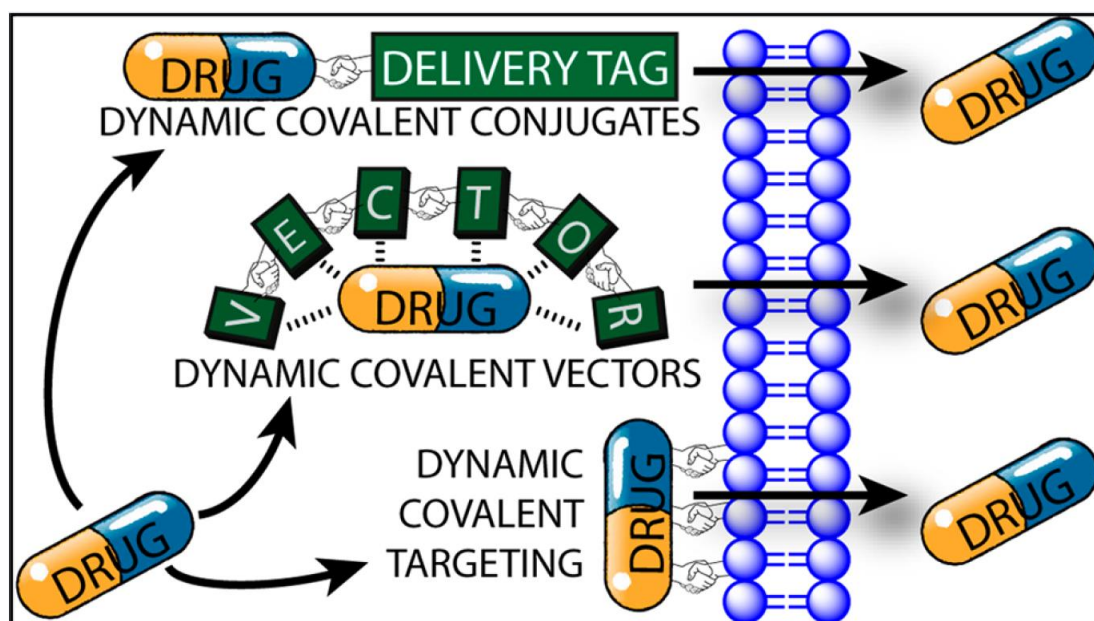
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Abstract

Chemistry has grown to become a science of *complex organized systems*, which are made of molecular components in *dynamic interactions*, and from which *functions emerge*. The integration of dynamic features in chemical systems is therefore a prominent and promising approach toward life-like materials, and we propose it bears also a strong potential for drug delivery applications.^[1]

The central goal of our research activity is to design **smart dynamic systems** for the specific and challenging issue of **nucleic acid delivery**. In this presentation, I will showcase our recent efforts implementing *dynamic covalent chemistry* for the generation of RNA vectors that self-assemble and degrade in a controlled manner.^[2-6]



References

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- [3] J. García-Coll, P. Trousselier, S. D. Pawar, Y. Bessin, L. Lichon, J. L. Chain, E. Sachon, N. Bettache, S. Ulrich, *Chem. Sci.* **2025**, 16, 2413-2419.
- [4] J. Garcia Coll, S. Ulrich, *ChemBioChem* **2023**, 24, e202300333.
- [5] D. D. Su, L. M. A. Ali, M. Coste, N. Laroui, Y. Bessin, M. Barboiu, N. Bettache, S. Ulrich, *Chem. Eur. J.* **2023**, 29, e202202921.
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