Lecture Title:

Integration of AI in Medicinal Chemistry
Practical Applications & Challenges

Speaker:
Dr Christian Tyrchan (AstraZeneca, Sweden)

Abstract: A brief discussion about:

- Considerations and application domain of deep learning (DL) for medicinal chemistry questions
- The role of QSAR and its implications for common assumptions in medicinal chemistry design strategies
- Challenges in the application of DL in prospective drug design projects with examples
- Automated synthesis - something available now?
- Some learnings from within AstraZeneca

About the speaker: Christian received his PhD in Chemistry from the Department of Biochemistry in Cologne, with specialization in Pharmacology and Biochemistry. After joining AstraZeneca, he held different computational chemistry roles, contributing to drug discovery projects and building chemoinformatic as machine learning capabilities across the company.

He is currently leading the Early R&I Computational Chemistry team at AstraZeneca BioPharmaceuticals R&D and has a keen interest in the application of computational methods and chemoinformatics to drug development.