

## Continuous Fluorination – Cost-competitive and safe method for late stage and challenging fluorination

Microinnova presents a new approach to execute **fluorination reactions in a safe manner** with conventional equipment on manufacturing scale. These processes can be realized by **continuous fluorination reagent generators** on manufacturing scale. Former **R&D Director Dr. Lorenzo Orsini** has worked for **Miteni**, a historical global reference within the field of Fluorine Chemistry. Now he has **joined the continuous manufacturing team of Microinnova**. With Lorenzo Orsini on board, Microinnova is able to offer a wide range of possibilities to develop **customized fluorination process**.



The focus will be **high value applications**. That means we are focusing on **efficient and scalable fluorination solutions** to provide easy-to-implement options in every factory. Having a wider portfolio of possibilities will allow to evaluate novel synthetic strategies by considering all the possible advantages of a late stage fluorination. The second important focus is to **provide solutions which significantly simplify the safety risk management** compared to a more common fluorine chemistry approach by replacing possibly hazardous processes with **"in situ" reactivity**. These processes can be realized by **continuous fluorination units** which provide the desired reagents on manufacturing scale. The on-site fluorination units can often be implemented in existing plant setups. The aim is to provide more options and to **make hazardous chemistry safer**, so that it can be transferred to medium level manufacturing infrastructures. The approach is **cost-efficiency** oriented compared to the other commonly known techniques.