

SINFONIA





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Materials containing the element fluorine (F) are extremely important and have applications in electronics, healthcare, the automotive sector, and wearables. These materials are currently exclusively synthesized using chemical methods, thereby leading to toxic production processes that have negative impacts on the environment and on people.

SinFonia wants to change the way that fluorine is produced by using synthetic biology. The project develops ways to generate novel fluorine production methods that use renewable substrates. The project's scientists aim to design alternative sustainable bioprocesses for fluorine production by engineering the metabolically versatile bacterium *Pseudomonas putida* to execute bio-fluorination.