

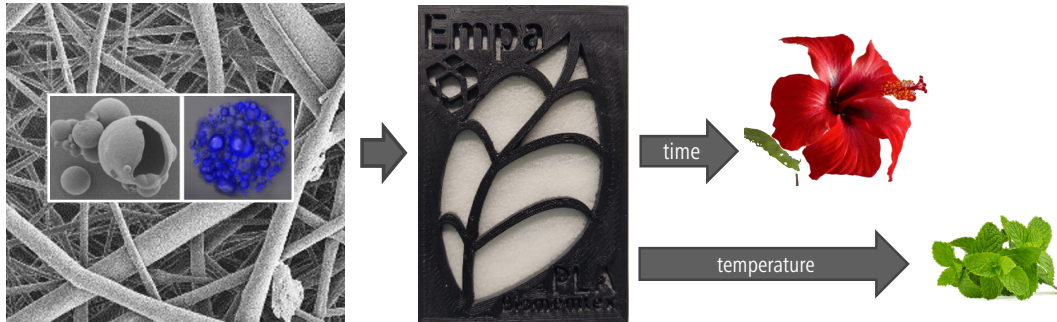
Volatiles and sensitive bioactive molecules are used in various applications ranging from cosmetics over pest management and agriculture to biomedicine. By their nature, these components dissipate or deactivate quickly, which makes a versatile and responsive vehicle for their administration highly desirable.

Electrospun Membranes: Long-Term Release



Concept: Electrospun membranes with responsive long-term release of perfumes and bio actives.

Electrospun Membranes: Long-Term Release



- Gradual and thermo-responsive (dual) release of fragrances
(doi:10.1007/s10853-014-8524-5 , doi:10.1016/j.jddst.2019.04.004)
- Based entirely on «green» materials and processes
 - ES nanofiber membrane (PLA) from «green» solvents
 - Spunbond (PLA) as support layer and 3D-printed frame (PLA)
 - > Continuous production and processing employed
- Adaptable to other volatiles and active ingredients
 - > Use in textile finishings, medicine, agriculture, food industry
- Possible combination with other functions/mechanisms