



**Cellugy aims to facilitate the transition from manmade materials by harnessing the potential of fermented cellulose.**

Cellugy was founded in 2018 with the vision of using biology to create natural ingredients for the wellbeing of humans and the planet. The company has developed an innovative platform technology to obtain biocellulose from sugar fermentation through a mild, energy-efficient process without the use of fossil-derived ingredients. Its flagship product, EcoFLEXY, can replace petrochemicals in many different applications, including personal care, household chemicals and packaging. Cellugy has been recognised worldwide by institutions including National Geographic and the European Investment Bank. The company has a very international team with over eight nationalities, and over 60% of its staff are women.

Deby began her career as a pharmacist in Indonesia after finishing her bachelor's degree in pharmacy. She has extensive experience in drugs and cosmetic formulation, having worked as an analytical method developer for pharmaceutical compounds and as an assistant in the biotechnology cell culture section. She moved to South Korea for an exchange programme at the International Environmental Analysis and Education Center (IEAEC), working in gene analysis and microbiology, before pursuing a master's degree in enzyme-based bioelectronics for implant in the human body. She then moved to Denmark to do a PhD in nanoscience, working in the interdisciplinary field of microbiology, molecular biology and bioelectronics. After graduating, she co-founded Cellugy in 2018 while continuing her career as a postdoctoral researcher in microorganism-based chemical and gas (bio)micro-sensors. In 2021, she joined Cellugy full-time as the Chief Scientific Officer (CSO). Her research always focuses on real field application, resulting in patent applications and industry engagement.



**Deby Fapyane**  
Co-founder & Chief Scientific Officer



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