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Alexandra Paul received her undergraduate education in Chemistry from Saarland University, Germany, with research internships at BASF, National University of Singapore and University of California, Santa Barbara. She is now a Marie Curie Fellow in the FINON initial training network (finon-itn.eu) and does her PhD research at the division of chemical biology at Chalmers University of Technology, Sweden, working with non-linear microscopy to investigate cells in complex three-dimensional matrices. The main goal of her project is the development of a tissue-like in vitro drug testing model for obesity related diseases in cooperation with Astra Zeneca and Stanford University. Unique label-free and non-invasive non-linear microscopy techniques are employed to study cell-matrix interactions in a soft and hydrated matrix and molecular dynamics on a single cell level in both engineered and natural tissues.
