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The purpose of SMDTex is to develop an interdisciplinary research and education program, in textile technology, textile design, textile chemistry and other fields.

The consortium of this program is composed five textile universities in Europe and Asia, including ENSAIT (Ecole Nationale Supérieure des Arts et Industries Textiles) in France, University of Borås in Sweden, Politecnico di Torino in Italy, Technical University of Iasi in Romania, and Soochow University in China.

May's PhD is within Textile Material Technology research group in University of Borås, in this group researchers focus on the development of future materials in functional and smart textiles, as well as innovative and resource-efficient production processes.

Her studies focus on bio-functionalization of electrically conductive textile materials. The work describes eco-technologies for immobilizing glucose oxidase enzyme on conductive carbon nonwovens, in order to minimize the environmental impacts of such processes. Further, the implementation of these obtained textiles in sustainable applications for wastewater treatment was discussed in efforts towards saving energy and minimizing waste.

ECO-TECHNOLOGIES FOR IMMOBILIZING REDOX ENZYMES ON CONDUCTIVE TEXTILES, FOR SUSTAINABLE DEVELOPMENT

May Kahoush

