

***An Israeli Researcher, the head of [the Bioelectronics and Biopolymers group](#) in the Technion – Israel Institute of Technology that specializes in sustainable protein-based conductive biopolymers and conductive bioplastic is looking for an opportunity to join a consortium preparing a proposal under call topic HORIZON-CL6-2022-CIRCBIO-02-03-two-stage: Sustainable biodegradable novel bio-based plastics: innovation for sustainability and end-of-life options of plastics***

In our group, we identify sustainable proteins that can be obtained in bulk quantities from sustainable and waste products. We use the proteins in a one-pot process for making free-standing elastic biopolymer or strong bioplastic, both showing improved ionic conductivity.

Our expertise and new materials fit nicely to this call, and it addresses exactly the scope of this call, which is the development of innovative, sustainable bio-based and biodegradable plastics with novel properties and production processes to deliver environmentally friendly materials with desired properties for novel long-term circular applications, markets and uses. Specifically to our biopolymers and bioplastics, the specific functionality is improved electrical properties. Due to the sustainable nature of the starting protein material, being a waste of either the bovine industry or the dairy industry, our materials promote a circular economy of raw waste materials at a very low cost.

Our new protein-based biopolymers and bioplastics are in an excellent position for upscaling, and we are looking for a consortium to help us leverage our research for making a new generation of conductive materials.

We have the knowledge and expertise in promoting consortiums related to biopolymers, and especially conductive biopolymers. We have state-of-the-art facilities in the Technion for making all the needed polymer-related measurements.

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