

PARTNER SEARCH FORM

Your contact details

Organisation	<i>Bar Ilan University</i>
Contact person	<i>Rachela Popovtzer</i>
Department (if needed)	<i>Laboratory of Nanotheranostics for Personalized Medicine in the Faculty of Engineering</i>
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Your organisation

Describe your Organisation	<p><i>Established in 1955, Bar Ilan University (BIU) is one of Israel's largest universities. BIU has achieved an international reputation for academic and research excellence, especially, but not limited to the fields of artificial intelligence, renewable energy, bio-medicine, brain sciences, cancer, cyber security, cognitive sciences, environment, quantum technologies, medicine, archaeology, nanotechnology and advanced materials.</i></p> <p><i>Building on our past and current successes in FP6, FP7, H2020 and ERC projects, BIU is committed to strengthening its research and innovation infrastructure and supporting multidisciplinary innovative research initiatives with its 55 research centers and 60 endowed chairs.</i></p> <p><i>Prof. Rachela Popovtzer leads the Laboratory of Nanotheranostics for Personalized Medicine at the Faculty of Engineering and Institute of Nanotechnology and Advanced Materials at Bar-Ilan University. The lab develops cutting-edge nanotechnology-based platforms for intracellular drug delivery and real-time cell tracking in living systems. Its multidisciplinary team integrates expertise from engineering, chemistry, biology, and medicine, and maintains active collaborations with renowned international researchers. The lab integrates advances in nanomaterials with targeted therapeutics, biomarker specificity, and high-resolution imaging.</i></p>
Type of organisation	<i>Academia</i>
Keywords describing your sector or specialisation	<i>Nanotechnology, gold nanoparticles, liposomes, in vivo imaging, cell tracking</i>

Your experience

Have you already participated in an EU funded project?	<i>Yes, in the Horizon 2020 'nTRACK' project, as a WP leader developing multi-functional nanoparticles for</i>
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	<i>stem cell tracking in vivo. Currently PI of ERC CoG 'BrainCRISPR', and ERC-POC 'GOLDEN-ADC' projects.</i>
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Your offered expertise and contribution

HEU call topic(s) of relevance	<i>IHI call 11 - Topic 4: Leveraging Europe's expertise to accelerate cell therapy for type 1 diabetes</i>
Your offered contribution	<i>Leverage nanotechnology to improve stem- and beta-cell graft survival, facilitate non-invasive real-time monitoring of cell engraftment, and guide the design of personalized treatment plans for cell-based therapy.</i>
Your offered role (Coordinator, Work package leader or partner)	<i>Partner or WP leader</i>