

Eureka Globalstars

Project partners Search Form

Contact Person Details	
Name: Pablo Molina García	
Position: Postdoctoral Researcher	
Phone:	Email: pablomolinag5@gmail.com

Organization Details:			
Name: Instituto Biosanitario ibs.Granada			
Country: Spain		Website: https://www.ibsgranada.es/	
Type of	<input type="checkbox"/> SME	<input type="checkbox"/> Large Company	<input type="checkbox"/> University
Organization:	<input checked="" type="checkbox"/> Research Inst.	<input type="checkbox"/> Administration	<input type="checkbox"/> Other (specify):
Number of	<input type="checkbox"/> < 10	<input type="checkbox"/> 11-50	<input type="checkbox"/> 51-100
Employees:	<input type="checkbox"/> 101-250	<input checked="" type="checkbox"/> > 250	
Describe the activities, products, services, and expertise of your organization:			
<ol style="list-style-type: none"> 1. Conduct high-quality research in oncology, precision medicine, epidemiology, public health, advanced therapies, and biomedical technology to improve human health. 2. Foster collaboration among research groups within ibs.GRANADA across different scientific fields, promoting translational and multidisciplinary research. 3. Strengthen partnerships with stakeholders in the scientific, technological, and industrial sectors. 4. Enhance institutional integration and research management within ibs.GRANADA. 5. Revise internal organization to align human resources and infrastructure with ibs.GRANADA's needs. 6. Establish a stable HR policy for professional development and talent attraction in research. 7. Ensure competitiveness and scientific excellence, and promote internationalization efforts for ibs.GRANADA. 8. Support training and development for emerging research groups. 9. Lead innovation and knowledge transfer to improve clinical practice. 10. Improve the international image and positioning of ibs.GRANADA through visibility initiatives. 11. Increase funding opportunities for R&D&I, with a focus on private funds and clinical trials. 			

Project Details	
Project Title	Recover. mHealth rehabilitation in patients with musculoskeletal diseases
Acronym	Recover
Tech area	Telerehabilitation
Keywords	Digital Health; Telerehabilitation; Osteoarthritis; Hip fracture; mHealth; eHealth; Orthopedic Diseases; Exercise; Physical Therapy
<p>Describe your Project:</p> <ul style="list-style-type: none"> • The first objective is to develop an m-Health system, providing physical rehabilitation, occupational therapy, nutrition, and health education for older adults suffering from osteoarthritis in the knee and hip joints, as well as those who have undergone surgery for osteoarthritis or osteoporotic fractures. • Secondly, we will assess the feasibility of implementing the mHealth system in real patients and settings. • Thirdly, we will test the effectiveness of the mHealth on key clinical outcomes (e.g., physical performance, functional independence, pain, psychosocial factors, or walking biomechanics) in the above-mentioned target population. • Fourthly, we will conduct a health economic study to determine whether the mHealth might save human and economic resources in comparison with the usual care. 	
<p>Describe the innovative part of your project:</p> <ul style="list-style-type: none"> • Introduction of Telerehabilitation in Osteoarthritis and surgery for osteoarthritis or osteoporotic fractures. Our mHealth intervention pioneers the use of telerehabilitation specifically tailored for this population, filling a critical gap in current rehabilitation approaches. • Integration of Mobile Health (mHealth) Technology. Leveraging the widespread use of smartphones, our mHealth utilizes mobile health technology to deliver and monitor rehabilitation remotely, improving accessibility and engagement for patients. • Incorporation of Family Caregivers in the Rehabilitation Process. Recognizing the importance of support networks, our project involves family caregivers in the rehabilitation journey, tapping into their potential to enhance patient outcomes and adherence to treatment. • Building on Previous Successes. Building upon the groundwork laid by the our previous ActiveHip+ European project (https://www.activehipplus.com/), the current project extends the success of telerehabilitation in other musculoskeletal conditions, consolidating the research group's position as leaders in the field. • Collaboration with Global Leaders. We benefit from collaboration with leading experts in musculoskeletal telerehabilitation, such as Professor Trevor Russell and his team at the University of Queensland, ensuring the project's alignment with global standards and best practices. 	

Describe the market expectations of your project:

- **Addressing Critical Scientific Challenges.** Our mHealth aims to fill a significant gap in the market by providing m-Health interventions tailored older adults suffering from osteoarthritis in the knee and hip joints, as well as those who have undergone surgery for osteoarthritis or osteoporotic fractures. These musculoskeletal pathologies are becoming increasingly prevalent, and healthcare systems are unable to provide satisfactory rehabilitation due to hospital overcrowding and associated costs.
- **Assessing Feasibility and Effectiveness.** Through a randomized controlled trial, our mHealth seeks to demonstrate its feasibility and effectiveness compared to conventional treatments, providing valuable insights into real-world implementation and acceptance.
- **Demonstrating Cost-Effectiveness.** Our project aims to conduct cost-effectiveness analyses, assessing potential resource savings compared to conventional rehabilitation methods. Initial findings suggest significant individual savings and reduced travel time, indicating potential economic benefits for healthcare systems.
- **Creating Significant Social and Economic Impact.** Our project is expected to have significant health, economic, and social impacts by enhancing clinical outcomes, reducing pain and inflammation, and improving quality of life for our target population. Additionally, it offers advantages such as cost-effectiveness, home-based rehabilitation, and extended accessibility to rural patients, potentially alleviating public health system burdens while optimizing patient care. Involving patients and caregivers in the design process ensures user-friendly and personalized rehabilitation experiences, enhancing social and human impact.

Possible Partner Profile:		
Type of Partner Needed (multiple choices are allowed)	<input checked="" type="checkbox"/> SME <input checked="" type="checkbox"/> University <input checked="" type="checkbox"/> Administration	<input checked="" type="checkbox"/> Larger Company <input checked="" type="checkbox"/> Research Institution <input checked="" type="checkbox"/> Other (specify):_spin-off or start-up
Describe the expertise of possible partner(s) required for your project:		
<ul style="list-style-type: none"> • Company for Implementation and Commercialization: Partners experienced in implementing and commercializing mHealth interventions. These partners can provide guidance and support in navigating the market landscape, securing funding, and scaling up the deployment of our mHealth. • Health Economic Analysts: Collaborators proficient in health economic analyses, capable of evaluating the cost-effectiveness of mHealth interventions. These partners can conduct rigorous assessments to demonstrate the economic benefits and value proposition of the intervention, essential for gaining buy-in from healthcare stakeholders and decision-makers. • International Research Centers: Research centers in other countries interested in collaborating to test our mHealth intervention in their hospital environments. These partners can provide access to diverse patient populations and healthcare settings, enabling broader validation and generalization of the intervention's effectiveness across different healthcare systems and cultural contexts. • Technological Developers for Enhancements: Collaborators specializing in technological development, particularly in areas such as wearables, sensors, or artificial intelligence (AI). These partners can contribute expertise in incorporating new enhancements into our mHealth intervention, leveraging cutting-edge technologies to improve functionality, user experience, and clinical outcomes. 		
Describe the role of possible partner(s) in your project:		
<ul style="list-style-type: none"> • Spin-off, Start-up, or Company for Implementation and Commercialization: <ul style="list-style-type: none"> ○ Assist in implementing and scaling up ActiveKnee in real-world settings. ○ Provide expertise in market analysis, funding acquisition, and business development to facilitate commercialization. ○ Collaborate on marketing strategies and distribution channels for widespread adoption of the mHealth intervention. • Health Economic Analysts: <ul style="list-style-type: none"> ○ Conduct cost-effectiveness analyses to evaluate the economic impact of ActiveKnee. ○ Assess the potential savings and benefits to healthcare systems, insurers, and patients. ○ Inform decision-making by demonstrating the value proposition of the mHealth intervention to stakeholders. • International Research Centers: <ul style="list-style-type: none"> ○ Collaborate on multi-site clinical trials to test ActiveKnee's effectiveness in 		

diverse healthcare environments.

- Provide access to varied patient populations and healthcare systems for broader validation of the intervention.
- Contribute to data collection, analysis, and interpretation to strengthen the evidence base supporting ActiveKnee.
- **Technological Developers for Enhancements:**
 - Innovate and integrate new technologies, such as wearables, sensors, or AI, into the ActiveKnee platform.
 - Enhance the functionality, usability, and performance of the mHealth intervention to optimize user experience and clinical outcomes.
 - Collaborate closely with the research team to ensure seamless integration and compatibility of enhancements with ActiveKnee.