

Mölnadal 21 november 2018

Integrum collaboration project awarded research grant for neuromuscular control of robotic leg prostheses

Integrum today announced that a collaboration project the company is developing together with Chalmers University of Technology and Sahlgrenska University Hospital has been awarded a research grant of SEK 4.6 million by Swelife

The collaboration project focuses on the development and first clinical application of a novel implant system that allows for neuromuscular control and sensory feedback of leg prostheses for individuals with a lower limb amputation.

The project utilizes an innovative technology solution from Integrum that enables the prosthesis to be directly attached to the bone through a process known as osseointegration. This is combined with implanted electrodes that facilitate prosthetic control through bioelectric signals coming directly from muscles and nerves in the residual limb.

Rutger Barrdahl, CEO at Integrum, says, “We are very happy that Swelife’s experts see the same innovation potential in this project as we do. We are grateful for the research grant and very grateful to our collaboration partners, Chalmers and Sahlgrenska, from whom we are learning so much. All of these things will help us to bring an improved quality of life to leg amputees faster.”

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About Swelife

Swelife is a strategic innovation programme, funded by the Swedish Government via the Swedish innovation agency, Vinnova, and by the programme’s partners. They support collaboration within academia, industry and healthcare, with the goal to strengthen Life Science in Sweden and to improve public health. See <https://swelife.se/>

Integrum provides innovative solutions for bone-anchored prostheses. Integrum’s OPRA implant system improves quality of life for amputees through higher prosthetic functionality, improved comfort and improved mobility. With 20 years’ experience from 500 surgeries in 13 countries, Integrum has today a leading position in bone anchored prostheses. The company is publicly listed at Nasdaq Firth North.