

Press Release

Activoris-sponsored Student Project at Florida International University wins Second Prize

Students at the Department of Biomedical Engineering developed a prototype device to prevent lyme disease

Gemünden, Germany and Miami, Florida, December 19, 2021 - Five master students at the Florida International University (FIU) successfully finished their six-month development project of a device for precautional treatment of lyme caused by tick bites. The project work was awarded the second prize in the poster competition, conducted on Dec 2, 2021.

Lyme disease is caused by bites from infected ticks, and to date there are only few treatment options. And, unlike TBE, which is also transmitted by ticks, there is no vaccination.

In this capstone project, the team of master students developed and tested a prototype device. Considering user and market needs, latest regulatory requirements and standards, the students had to create and implement design drafts to finally verify the resulting prototype named ProphyLD.

In addition to the required criteria, a simulation of silver iontophoresis was established in collaboration with a PhD candidate of the FIU to determine optimized treatment parameters. The whole development process was then documented, prototypes were described using pictures and videos, and a poster was created to summarize and present the project.



The graduating students (2nd from the left and ongoing) Anastasiya Drandarov, Ricardo Cabezas, Alexander Trinidad, Carolina Guillen, and Daniel Peno with representatives of the FIU at their awards ceremony.

Completing the project, the students have been rewarded their degree in medical engineering (B.Sc.) and additionally won the second place in the poster competition.

Axel Fischer, founder and CEO of Activoris: "We congratulate Team 4 for these exceptional results! The work is not only considered as a learning for the students. The results are of great value for the technology, and we will definitely exploit the outcomes for the further development of the device."

About Activoris Medizintechnik GmbH



Activoris Medizintechnik GmbH in Gemünden, Germany is a service company for contract manufacturing, medtech development and strategic consulting for companies in the life science and pharmaceutical industry. Clients are established companies as well as innovative startups from the biotech, medtech and pharma industry. Activoris' outsourcing services enable them to achieve greater flexibility, cost efficiency and faster market access. Activoris operates locations in Gemünden (Wohra), Munich and Schwalmstadt. Axel Fischer, +49 (0) 6453.58535.10, axel.fischer@activoris.com.

About the Department of Biomedical Engineering at FIU



Florida International University's Biomedical Engineering (BME) Department is one of eleven in the State University System (SUS) of Florida with the full slate (BS, MS, PhD) of programs in biomedical engineering. The department is endowed with \$11 million from the Wallace H. Coulter Foundation, the Ware Foundation and the State of Florida. One of the strengths of the growing BME department is its close relationship with FIU's Herbert Wertheim College of Medicine, the Brain Institute at the Miami Children's Hospital, and the many biomedical companies in South Florida. The department has also been recognized and ranked among the top 50 schools providing the best value to students. www.bme.fiu.edu.

About SilviMed GmbH



SilviMed GmbH is a startup project founded by a group of physicians, engineers and entrepreneurs. SilviMed develops and holds intellectual property in the field of innovative silver ion treatments for different medical conditions. The privately held company is operated by Activoris. Axel Fischer, +49 (0) 6453.58535.10, info@silvimed.com