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Introduction: The 2nd Edition of Progress in Electrically Active Implants (ELAINE) for tissue and functional regeneration will take place on 20th- 22nd March 2024, in the Hanseatic and University City of Rostock, Germany, the home to the oldest university in the Baltic region and one of the oldest universities in the world, the University of Rostock, founded in 1419.

Methods: The objectives of ELAINE 2024 are to present and discuss the state-of-the-art experimental and theoretical methodologies involved in developing electrically active implants in bone, brain, and cartilage tissues.

Results: We invite researchers, engineers and medical professionals from around the world working in the field of electrically active implants to contribute to this conference.

Conclusion: The program of ELAINE 2024 will comprise several invited plenary lectures as well as oral and poster presentations.

**Please select the session you would like to contribute to when submitting your abstract.**

**Session I - Multiscale modeling for electrically active implants and implant reliability**

**Session II - Technological developments and future directions for the development of electrically active implants**

**Session III - Role of molecular signaling in biophysical stimulation for regenerative medicine**

**Session IV - Innovations and therapeutic applications of neurostimulators for DBS and neuronal disorders**