

FOR IMMEDIATE RELEASE

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Wyss Center and Osypka announce collaboration, pushing the boundaries of implantable neuro-device development

Geneva, Switzerland – Today the Wyss Center for Bio and Neuroengineering, Geneva, Switzerland and OSYPKA AG/OSYPKA Medtec, Rheinfelden, Germany and Longmont, Colorado, USA, announced a collaboration to develop and integrate innovative technologies into implantable neuro-devices.

One of the major challenges of developing implantable devices that can measure brain signals is protecting the delicate internal electronics from the inhospitable, warm, wet and salty environment of the human body. Hermetic sealing - or encapsulation - of the device housing is necessary to ensure devices are leak-proof and can survive in the body for years. When the wires carrying brain signals pass into the device, through 'feedthroughs', there is a risk that moisture could enter. More channels of data feeding through the device housing enable more brain signals to be collected but increase the challenge of achieving truly hermetic sealing.

The collaboration will push the boundaries of exceptionally high-channel count medical implant housings by integrating new technologies and innovations in feedthroughs, hermetic sealing and biocompatible materials.

Achim Kitschmann, OSYPKA AG CEO said: "We are pleased to forge this collaboration with the Wyss Center. By leveraging OSYPKA's decade long expertise in developing and manufacturing life-sustaining, active implantable devices we can help accelerate the Wyss Center's mission to bring its neurotechnologies to the patient."

Dr Mary Tolikas, Director of the Wyss Center said: "Our collaboration with OSYPKA will help us tackle the enormous engineering challenges involved in delivering viable, miniaturized implantable neuro-devices, eventually helping patients with nervous system disorders around the world."

The Wyss Center is addressing some of the most serious medical conditions by accelerating the development of promising technology from lab bench to clinic. The Center is keen to harness the expertise and experience of clinical and industrial collaborators to drive development of neurotechnology that could revolutionize the diagnosis and treatment of neuro-disorders ranging from epilepsy and paralysis to tinnitus.

Dr Thorsten Götsche, CTO / Advanced Technologies, CFO OSYPKA AG, will highlight the collaboration during his presentation 'Pushing the boundaries of implantable device development' at the [Swiss MedTech Expo](#) in Lucerne on 10th September 2019. Members of the Wyss Center team will also be present.

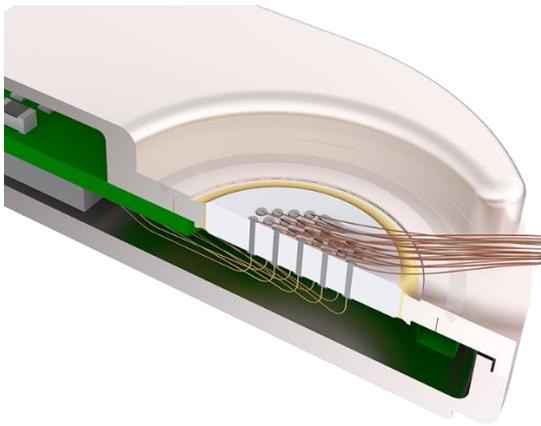
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Caption: Significant engineering challenges must be solved before implantable devices can reliably transfer the large volumes of neural data needed to address clinical needs.

Credit: Wyss Center, www.wysscenter.ch

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Caption: Feedthroughs allow wires that carry brain signals to pass into implantable neuro-devices while keeping moisture away from the sensitive internal electronics.

Credit: Wyss Center, www.wysscenter.ch

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About the Wyss Center for Bio and Neuroengineering, Geneva, Switzerland

The Wyss Center is an independent, non-profit, bio and neurotechnology research and development organization focused on translation. The Center provides the expertise, facilities and financial resources to transform creative neuroscience research into clinical solutions for unmet medical needs.

The Wyss Center's experienced multidisciplinary team from industry and academia provides the integrated scientific, engineering, clinical, regulatory and business expertise required to guide high risk, high reward projects on their journey from research to product.

Based at Campus Biotech in Geneva, Switzerland, the Center has advanced neuroscience and engineering facilities for the development of technology that will prevent, diagnose or treat nervous system disorders, or has the potential to improve lives.

The Wyss Center has ongoing projects in movement restoration, stroke rehabilitation, neural circuits, sensory function, and advanced technology.

A major goal of the Center is to ensure that innovative neurotechnologies advance until they are sufficiently mature to attract corporate partnerships, venture funding, or other mechanisms necessary to make them broadly available to society.

Established by a generous donation from the Swiss entrepreneur and philanthropist Hansjörg Wyss, the Wyss (pronounced "Veese") Center, is a partner in a progressive neuroscience hub at Campus Biotech.

www.wysscenter.ch

About OSYPKA AG/OSYPKA Medtec

OSYPKA AG/ OSYPKA Medtec has core expertise in design, development and manufacturing of medical devices. Osypka AG is located in Germany, Rheinfelden and started its business more than 40 years ago with life sustaining active implantable devices. The US subsidiary, OSYPKA Medtec, is managed by a team with expertise in active implantable medical devices for more than 20 years. Ability to deal with tight schedules, deliver high quality/reliable implantable solutions and stay within budget is a distinguishing feature of the group.

<http://osypka-medtec.com/>