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Purpose of Research

To research and develop seeds for innovative technologies to realize the world where “whoever lives can live independently”.

Summary of Research

- Develop a human assist suit assisting muscle force: MUSCLE SUIT®
- Active walker that allows a person with a gait disorder to walk in a right posture without falling
- Develop a reception robot that can communicate with hyper-realistic voice and facial expressions
- Develop new mechanical toilets
- Measure muscle fatigue
- Automate identification of compositions of steel materials, and more



<MUSCLE SUIT for lower-back support>

Points

Our university actively collaborates with the companies to proceed R&D of “Only One”, worldwide unique robots and machines for actually helping and assisting people in viewpoint of the human, considering productization.

Future Developments

We have established a venture corporation, INNOPHYS CO., LTD., for producing the MUSCLE SUIT®, on December 27, 2013.

INNOPHYS CO., LTD. has been commercializing a series of products developed at the lab, and has shipped more than 13,000 units of MUSCLE SUIT® (July 2020).

- Intellectual Property: Japanese Patent No. 05505740, “Waist Assistance Device,” and many others
- INNOPHYS CO., LTD. (Representative: Daigo Orihara)
Address: 6th Floor, GRAN FIRST Kanda-Kon'yacho,
Kanda-Kon'yacho 15 banchi, Chiyoda-ku, Tokyo
Tel. +81(0)3-6260-7970
Main Businesses: Development, Design and Sale of Motion-Support Devices



TOKYO UNIVERSITY OF SCIENCE Organization for Innovation and Social Collaboration