



Body-verse: Creation of an Interaction Platform between Humans and Internal Organs

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Grand Challenge and Goal:

We will develop the information platform 'Body-verse,' which enables interaction with the internal world centered on the internal organs—considered the 'other' within oneself—through biological multi-sensing technology and AI.

Summary:

- In traditional fields of information science, such as HCI (Human-Computer Interaction) and VR, research has primarily focused on the five senses and the musculoskeletal system
- Building on the close interaction between the brain and the gut, leading researchers in the five senses, internal organs, oral and interoceptive sensations, organoids, and biosensors collaborate with informatics researchers to develop an information platform that enables interaction with the internal world, centered on the internal organs—considered the 'other' within oneself
- This rich internal world is envisioned as the "Body-verse," and through the use of biological multi-sensing technology, we aim to create a virtual agent for interaction with internal organs

Social Impact:

- Utilization in tailored food development, dietary education, healthcare, dementia prevention, and prevention of non-communicable diseases (NCDs)
- Development of evidence-based placebo "information supplements" that provide appropriate interactions to users based on mind-body causal dynamics

