

Subcommittee on Photonics Life Engineering

- Leadership organization: Osaka University
- Representative: Katsumasa FUJITA (Osaka Univ.)
- Leader: Satoshi FUJITA (AIST)

Subcommittee on Photonics Life Engineering

Organization

Primary area: Health care

Secondary area: Photonics Biotechnology

Subcommittee name: Photonics Life Engineering

Themes : We will focus on interdisciplinary research centered on photonics technologies that enable measurement, analysis, processing, and modeling over a wide dynamic range from molecules and proteins to cells and biological tissues. By creating technological innovations in bioimaging, molecular and cellular analysis, and bioprinting, we will create a bio-community center and promote research aimed at the creation and social implementation of fundamental technologies for next-generation medicine, therapy, drug discovery, public health, and health care.

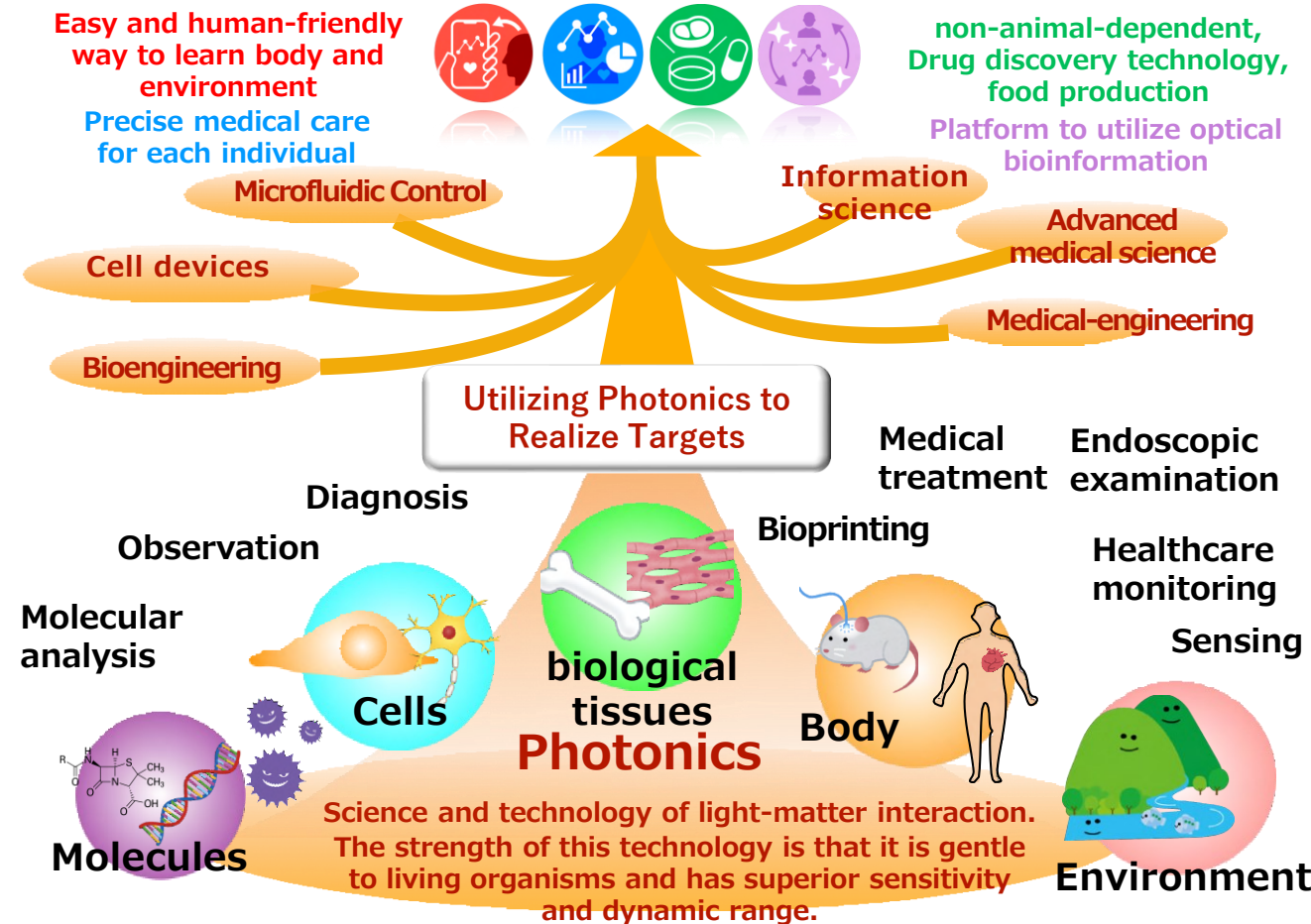
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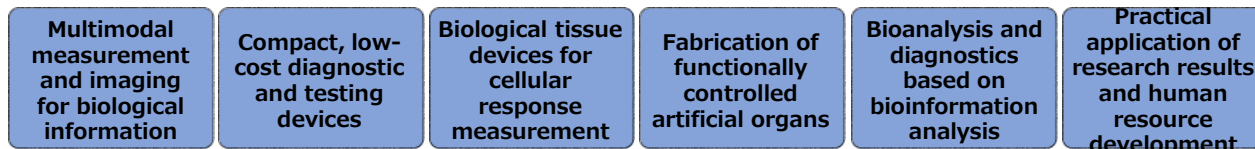
Vision and Research Targets

**A life-friendly photonics society
where each individual shines in good health**



The Photonics Hub for Life and Biomedical Engineering (JST/COI-NEXT)

R&D Themes



Leaders



Katsumasa FUJITA
Osaka Univ.



Hidenori NAGAI
AIST



Satoshi FUJITA
AIST



Michiya MATSUZAKI
Osaka Univ.



Rei WATANABE
Osaka Univ.



Keiko FUKUDA
Osaka Univ.

The Photonics Hub for Life and Biomedical Engineering

- ✓ A center where people gather to make photonics technology and creativity.
- ✓ Aiming to realize a safe and secure society through photonics technology

Purpose of the subcommittee = collaboration with other BiocK community members

- Technology/IP information sharing and technology transfer to BiocK members
- > **Toward social implementation of medical devices utilizing photonics!**
- Collaboration with subcommittees that support entrepreneurship
- > **Venture capital investment**
- Research/technical collaboration with other research subcommittees
- > **New research collaborations**

Kick-off Symposium (2022.8.5) Supported by BiocK



Greetings from
President Nishio,
Osaka University



General explanation
by PL Fujita



Panel Discussion

https://www.link-j.org/member_event/post-4693.html

Regular PhotoLIFE workshops for member companies

- 17th PhotoLIFE Workshop
March 2, 2022
 - 18th PhotoLIFE Workshop
June 6, 2022
 - 19th PhotoLIFE Workshop
September 5, 2022
- ✓ Regular workshops for consortium members, mainly 17 companies
 - ✓ Bridge technology to companies
 - ✓ Joint research with companies
⇒ To social implementation
 - ✓ Combination strategy of OPEN innovation and CLOSED innovation

Collaboration with NCVC

- ✓ Visited Dr. Naoki Mochizuki, Director General of the National Cardiovascular Center, and exchanged opinions about research collaboration.



National Cardiovascular Center (NCVC)

**Director General,
Mochizuki**



