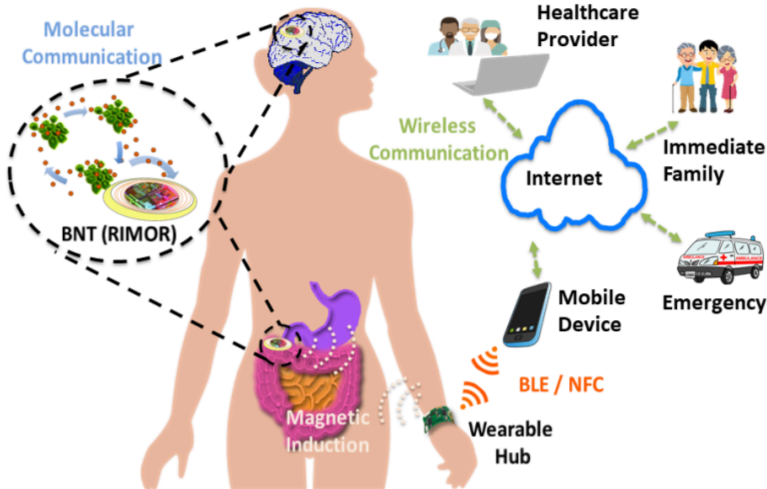


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Internet of Bio-NanoThings Concept

Bacteria-Based Bio-Sensors Implanted in the Human Body for the Early Detection of Infection

PANACEA project is developed with the collaboration of the following PIs from distinguished universities all over the U.S.

- Dr. Ian F. Akyildiz (Georgia Institute of Technology)
- Dr. Maysam Ghovanloo (Georgia Institute of Technology)
- Dr. Ulkuhan Guler (Worcester Polytechnic Institute)
- Dr. Tommaso Melodia (North Eastern University)
- Dr. Guevara Noubir (North Eastern University)
- Dr. Jiande Chen (John Hopkins University)
- Dr. Philip Rather (Emory University)
- Dr. Fatih Sarioglu (Georgia Institute of Technology)

Congratulations to Tuna and Miriam on graduating!

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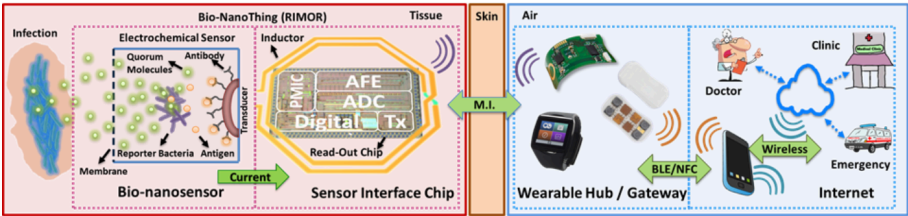
Congratulations to KyungRyeol on his paper accepted to BioCAS'26!

Congratulations to Ibrahim on his paper accepted to BioCAS'26!

Congratulations to Tuna on his paper accepted to BioCAS'26!

Our paper accepted to ISLPED'26

The Internet of Bio-NanoThings (IoBNT) concept envisions the connection between biological cells and the Internet. The ultimate goal of IoBNT is to catalyze a revolution in biomedical technologies through advances in molecular communication, integrated systems, bio-nanosensors and synthetic biology to improve human health and quality of life.



Overview of PANACEA System

PANACEA (a solution or remedy for all difficulties or diseases in Latin), an application of IoBNT, detects the communication within the cells of the body to deduce infection level via a submillimeter implantable bio-electronic device.

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