

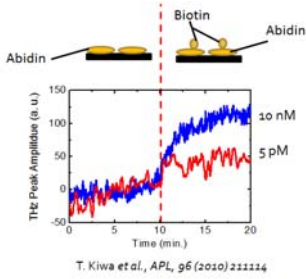
Terahertz Chemical Microscope

Toshihiko KIWA

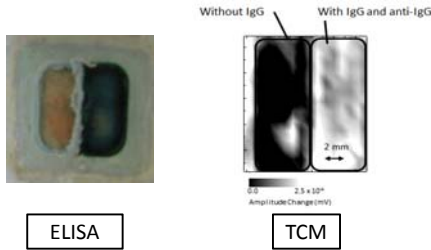
Graduate School of Natural Science and Technology,
Okayama University

Unique THz technology in Okayama Univ.

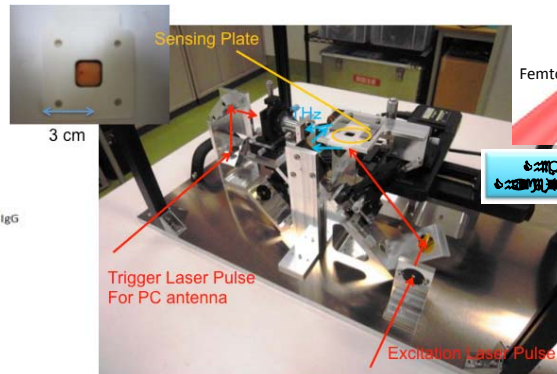
Terahertz Chemical Microscope
TCM



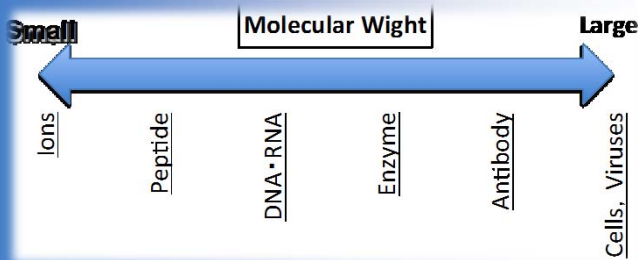
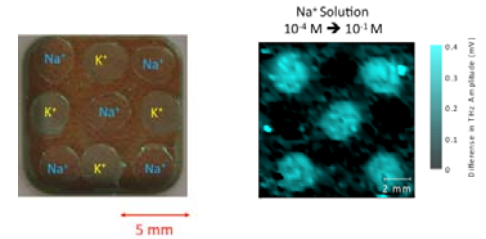
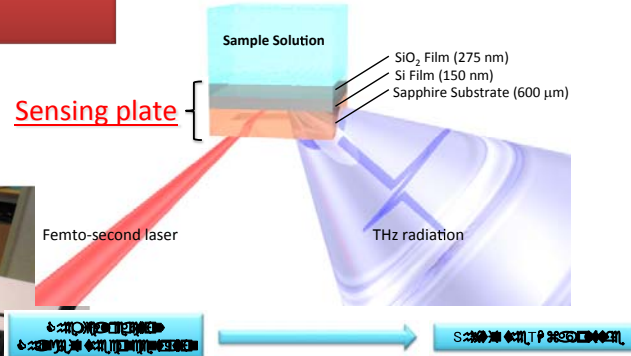
Detection of analytes less than 1000 Da



Label free immune assay

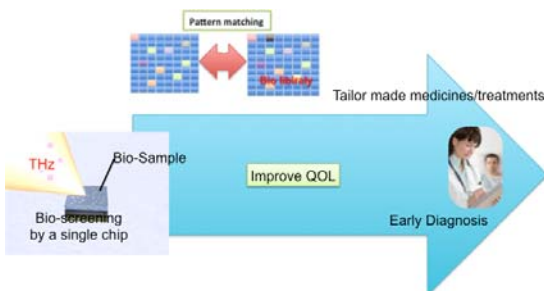


Prototype TCM



Detection of various types bio-related materials with a single plat form

Innovation



Corroboration

- Supply of Sensing Chips
- Collaborative development of TCM
- Provide THz knowhow and technology ETC.

Paper: T.Kiwa, APL 96, 211114 (2010), T. Kiwa, Sens. Act.:B, 187, 8-11 (2013), T. KIWA Opt. Exp. 22, 1330-1335 (2013) etc.
Related PAT.: JPPAT#4534027, #4403272, #4183735, US20100220327 etc.

Press: NATURE PHOTONICS, NATURE MATERIAL ASIA, SPIE News, Laser focus word

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