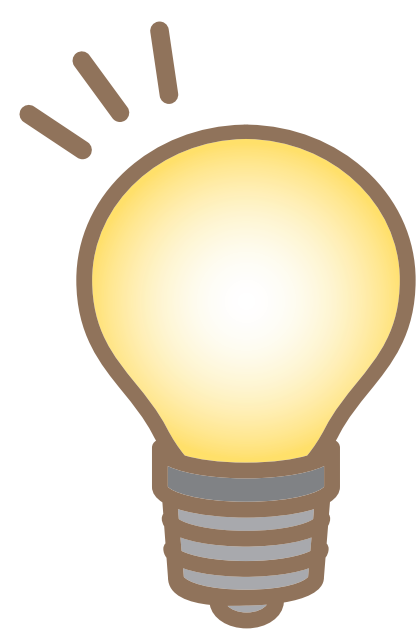


誘電率顕微鏡の開発と液中生物試料の観察

Development of a dielectric microscopy for observation of biological samples in water

溶液中の生物試料をそのままダメージ無く高分解能で観察
High-resolution imaging of biological samples in water without damage



- ▶ 液中生物試料を観察する新たな観察方法の開発
New imaging technology for the biological samples in water
- ▶ 溶液中の生きた細胞をダメージ無く高分解能で観察
Successful observation of intact living cells in medium without damage
- ▶ 非染色非固定で 8 nm の空間分解能
8 nm spatial resolution without staining and fixation

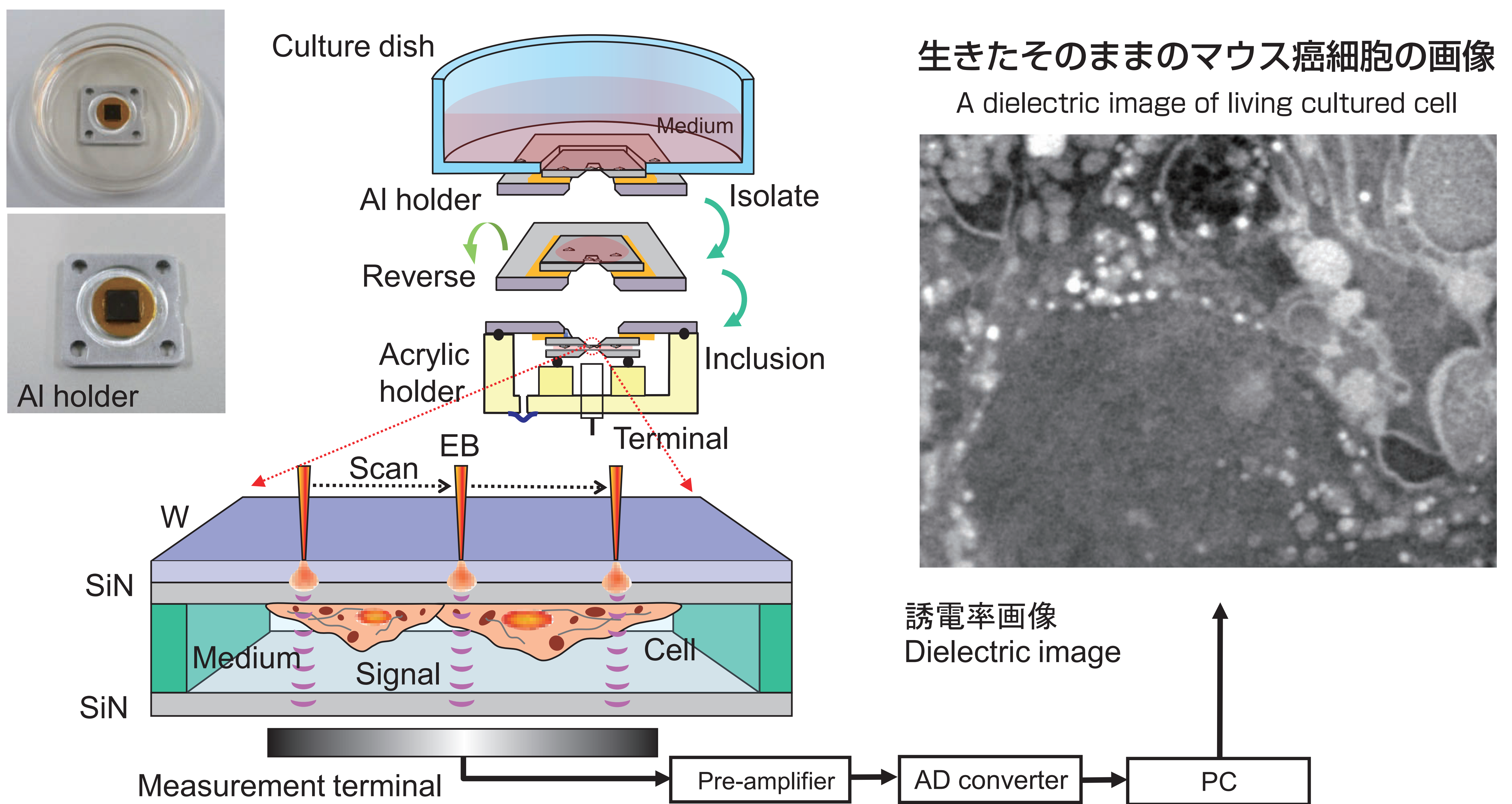


Fig.1 誘電率顕微鏡による培養細胞の観察システム (*Sci. Rep.*, 2016, 29169)

Experimental set-up and dielectric microscopy using a culture dish holder (*Sci. Rep.*, 2016, 29169)

Fig.2 癌細胞と CD44 膜蛋白質に結合した 100 nm ビーズの高分解能誘電率観察像 (*Sci. Rep.*, 2017, 43025)

High-resolution dielectric images of anti-CD44 antibodies binding 100 nm beads on the cancer cells (*Sci. Rep.*, 2017, 43025)

