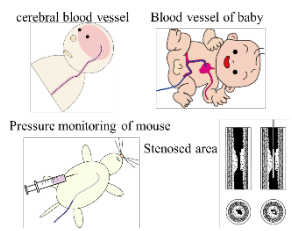
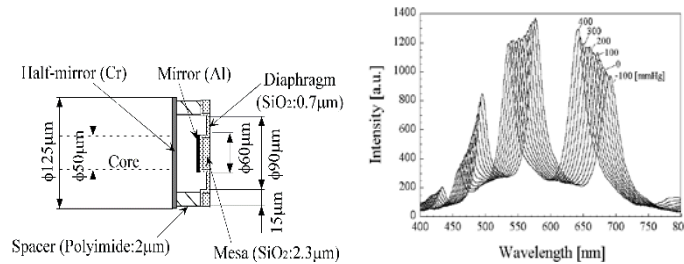
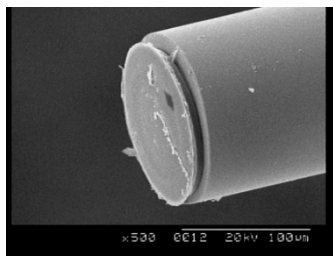
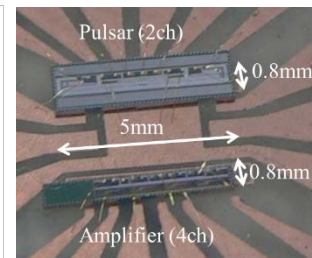
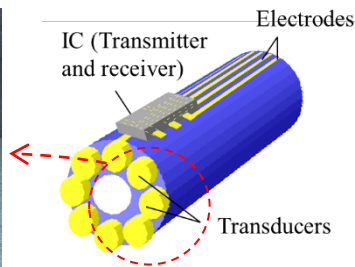
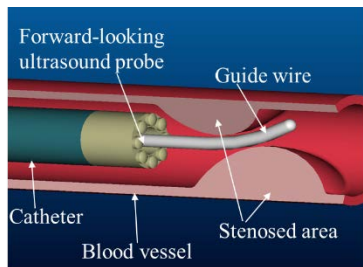


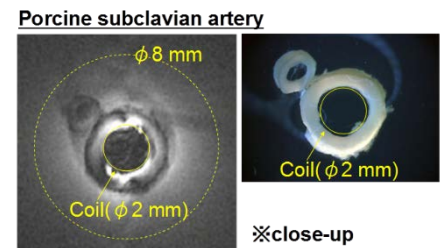
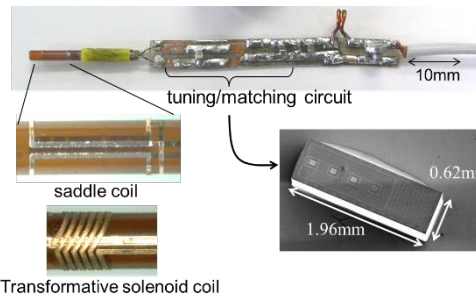
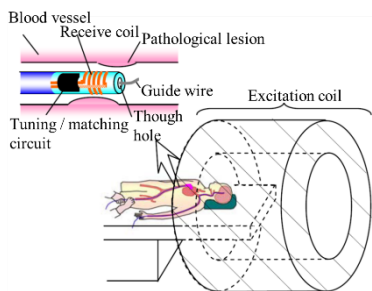
10 Minimally invasive medical devices and health care devices (Y. Haga)



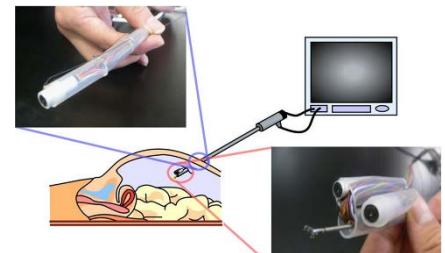
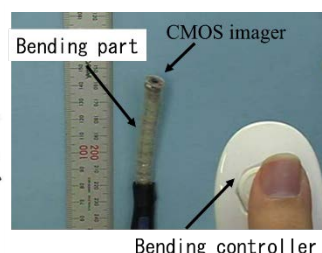
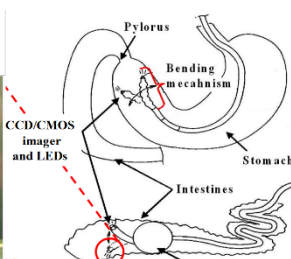
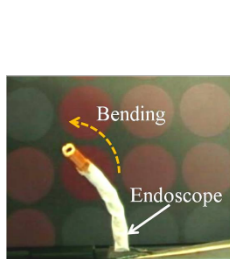
Ultra miniature fiber optic pressure sensor Structure Reflection spectrum for different pressures Applications
(K. Totsu *et al.*, J.of Micromech. Microeng., 15 (2005) 71–75)



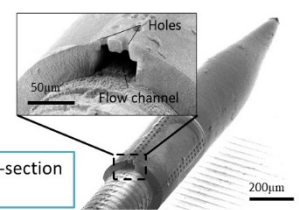
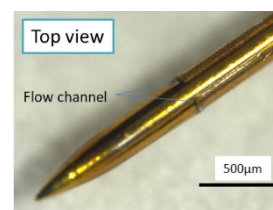
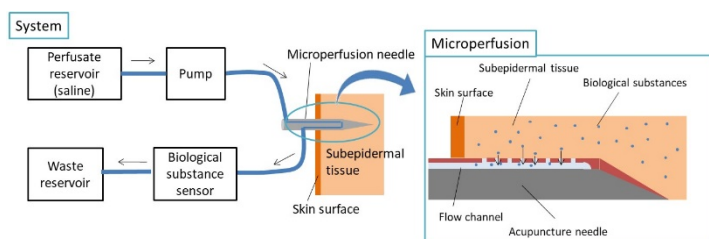
Forward-looking intravascular ultrasound imager and fabricated transducers, pulsar and amplifier (μSIC)
(J. J. Chen *et al.*, Proc. of MEMS (2004))



Intraluminal MRI probe Fabricated MRI probe and variable capacitor (μSIC) Imaging results
(S.Goto *et al.*, Proc. of MEMS (2007)) (S. Ichimura *et al.*, Proc. ISMRM (2010))



Disposable endoscope using shape memory alloy Thin endoscope ($\phi 3.9\text{mm}$) Colonoscope ($\phi 9\text{mm}$)
(Y. Haga *et al.*, IEEJ Trans. SM, 131 (2011) 102–110) (S. Suda, *et al.*, J.JSCAS, 17 (2015), 83–90)



Minimally invasive continuous monitoring system for biological substances, and fabricated microanalysis needles with flow channel
(N. Tsuruoka *et al.*, Biomed. Microdevices (2016) 18:19)