

CURRICULUM VITAE

NAME: Kazunari OZASA

EDUCATION: 1980-1984, Kyoto University, Faculty of Engineering (Electronics)
1984-1989, Graduate Course of Engineering, Kyoto University (Semiconductor Physics)

DEGREES: Dr. Engineering (1989), Kyoto University



APPOINTMENTS:

1990-2003: Research Scientist, Semiconductor Eng. Lab. (半導体工学研究室), RIKEN

1992-1995: Research Scientist; PRESTO (さきがけ), JST

2001-2010: Visiting Assoc. Professor; Saitama University (埼玉大学)

2003- : Senior Research Scientist, Bioengineering Laboratory (前田バイオ工学研究室), RIKEN

ACADEMIC ACTIVITIES:

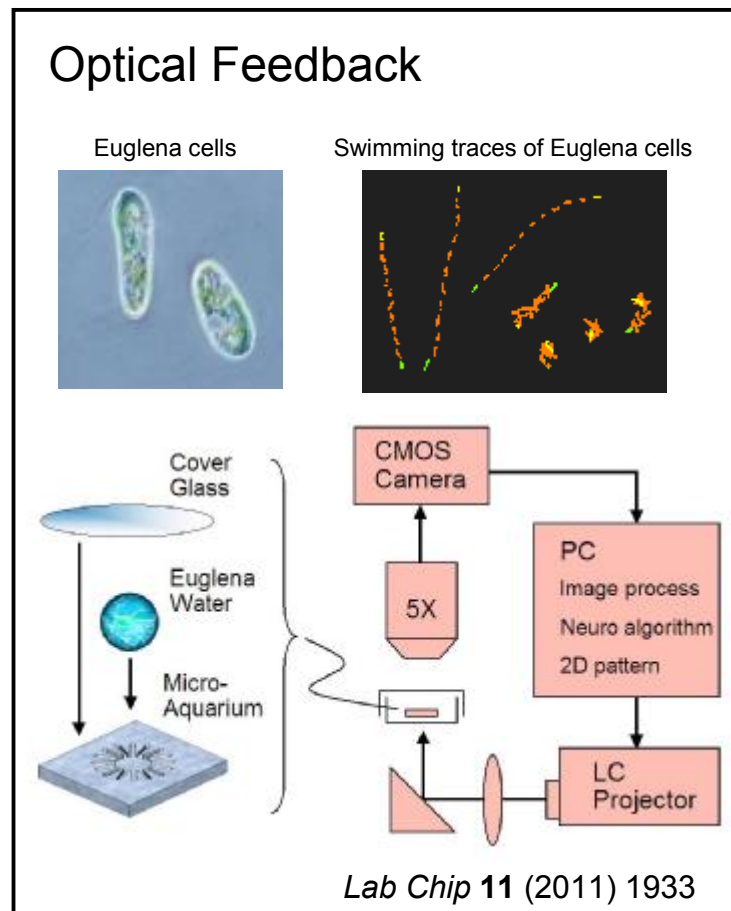
Membership: The Physical Society of Japan
The Japan Society of Applied Physics
The Society of Biotechnology, Japan

PUBLICATIONS (selected):

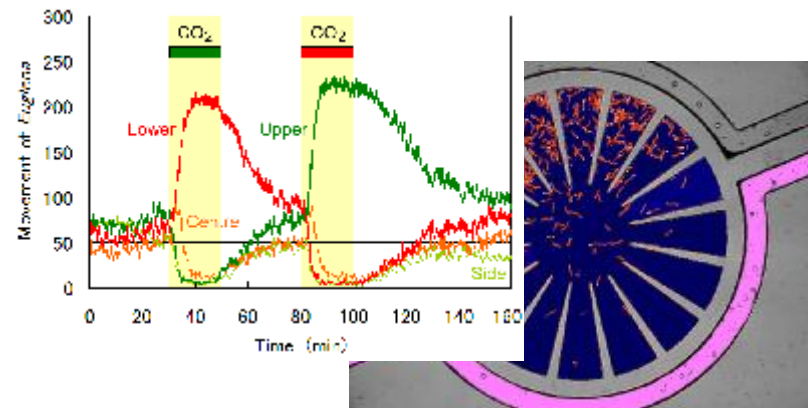
- 1) Ozasa K, Lee J, Song S, Hara M, Maeda M: Two-dimensional optical feedback control of Euglena confined in closed-type microfluidic channels. *Lab Chip* 11: 1933-1940, 2011
- 2) Chen CY, Ozasa K, Katsumata K, Maeda M, Okada K, Matsushita N: Bioactive Titanium Oxide-Based Nanostructures Prepared by One-Step Hydrothermal Anodization. *J. Phys. Chem. C* 116: 8054-8062, 2012
- 3) Ozasa K, Lee J, Song S, Hara M, Maeda M: Euglena-based neurocomputing with two-dimensional optical feedback on swimming cells in micro-aquariums. *Appl. Soft Comput.* 13: 527-538, 2013

Euglena Cells in Optical Feedback System

Euglena cells show phototaxis and chemotaxis, which can be used to control their movement by optical illumination or chemical stimulation. We constructed an optical feedback system to perform chemical sensing, micro-robot actions, and neurocomputing with using Euglena cells movements.

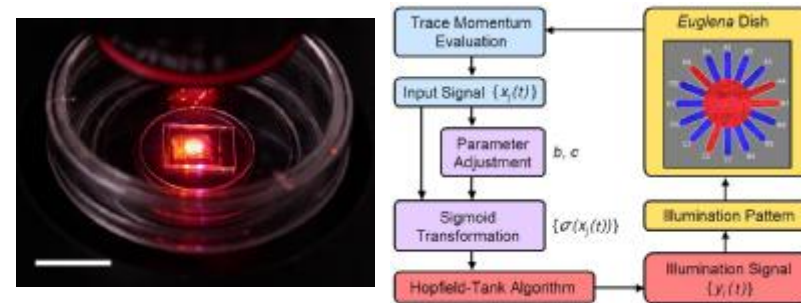


Chemical Sensing



Key Eng. Mater. **543** (2013) 431

Neurocomputing



Appl. Soft Comput. **13** (2013) 527