Naoya SUZUKI

Position	Assistant Professor
Lab/Group	Laboratory of Cellular Signaling Biophysics (K Lab)
e-mail ※	suzuki {a}synapse.phys.nagoya-u.ac.jp

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Education and Degrees

March, 1984, *B.S.,* Department of Physics, School of Science, Nagoya University

March, 1986, *M.S.,* Department of Physics, Graduate School of Science, Nagoya University

March, 1989, *D.S.,* Department of Physics, Graduate School of Science, Nagoya University

Positions

April, 1990 – March, 1992, *JSPS Research Fellow*, Department of Physics, School of Science, Keio University

April, 1992 – present, *Assistant Professor*, Department of Physics, Graduate School of Science, Nagoya University

Research

Mechanisms of neurotransmitter release and its regulation at presynaptic terminals

Nagoya University Faculty Profile Page (link)

Lab/Group Homepage (link)

List of Publications

Selected Publications

1. Effects of intravesicular loading of a Ca^{2+} chelator and depolymerization of actin fibers on neurotransmitter release in frog motor nerve terminals
K. Narita, N. Suzuki, N. Himi, T. Murayama, T. Nakagawa, N. Okabe, E. Nakamura-

MaruyamaN. Hayashi, I. Sakamoto, O. Miyamoto, and K. Kuba, Eur. J. Neurosci. (2019 July) Vol. 50(1) pp.1700-1711 DOI: 10.1111/ejn.14353

2. Ca^{2+} dynamics at the frog motor nerve terminal
S. Suzuki, M. Osanai, M. Murase, N. Suzuki, K. Ito, T. Shirasaki, K. Narita, K. Ohnuma, K. Kuba, and H. Kijima, Pflügers Arch. – Eur. J. Physiol. (2000) Vol. 440 pp.351-365

3. Facilitation of neurotransmitter release at the spiny lobster neuromuscular junction
S. Ogawa, T. Takeuchi, K. Ohnuma, N. Suzuki, A. Miwa, N. Kawai, and H. Kijima, Neuroscience Research (2000) Vol. 37 pp.33-48

4. Cooperative Ca^{2+} removal from presynaptic terminals of the spiny lobster neuromuscular junction
K. Ohnuma, T. Kazawa, S. Ogawa, N. Suzuki, A. Miwa, and H. Kijima, Biophysical. J. (1999) Vol. 76 pp.1819-1834

5. Preparation of bead-tailed actin filaments: Estimation of the torque produced by the sliding force in an in vitro motility assay
N. Suzuki, H. Miyata, S. Ishiwata, and K. Kinosita Jr., Biophys. J. (1996) Vol. 70 pp.401-408

6. Compressibility and specific volume of actin decrease upon G to F transformation
N. Suzuki, Y. Tamura, and K. Mihashi, Biochim. Biophys. Acta. (1996) Vol.1292 pp.265-272

7. Mechanical measurements of single actomyosin motor force
H. Miyata, H. Yoshikawa, H. Hakozaki, N. Suzuki, T. Furuno, A.Ikegami, K. Kinosita Jr., T. Nishizaka, and S. Ishiwata, Biophys. J. (1995) Vol.68 pp.286s-290s

8. Stepwise motion of an actin filament over a small number of heavy meromyosin molecules is revealed in an in vitro motility assay
H. Miyata, H. Hakozaki, H. Yoshikawa, N. Suzuki, K. Kinosita Jr., T. Nishizaka, and S. Ishiwata, J. Biochem. (1994) Vol. 115 pp.644-647

9. Adiabatic compressibility of myosin subfragment-1 and heavy meromyosin with or without nucleotide
Y. Tamura, N. Suzuki, and K. Mihashi, Biophys. J. (1993) Vol.65 pp.1899-1905

10. Ca^{2+}-dependent regulation of the dynamic polarity of F-actin under the influence of tropomyosin and troponin
K. Mihashi, N. Suzuki and A. Ooi, Biophys. Chem. (1989) Vol.33 pp.195-204

11. Subunit flow in F-actin under steasy-state conditions: Application of a novel method to determination of the rate of subunit exchange of F-actin at the terminals
N. Suzuki and K. Mihashi, Biophys. Chem. (1989) Vol.33 pp.177-193