

著書、学術論文等の名称	単著 共著 の別	発行又は発表 の年月	発行所、発表雑誌 等又は発表学会等 の名称	概 要
1 (学術論文) The Function of Sialidase Revealed by Sialidase Activity Imaging Probe	共著	2021 年	<i>Int. J. Mol. Sci.</i>	<p>We discuss the role of sialidase in the brain as well as in the pancreas and skin, as revealed by using a sialidase activity imaging probe.</p> <p>Akira Minami, Yuuki Kurebayashi, Tadanobu Takahashi, Tadamune Otsubo, Kiyoshi Ikeda, and Takashi Suzuki</p> <p>14</p> <p>We synthesized benzothiazolyphenol-based sialic acid derivatives (BTP3-Neu5Ac).</p>
2 (学術論文) The sialidase inhibitor 2,3-dehydro-2-deoxy-N-acetylneuraminic acid is a glucose-dependent potentiator of insulin secretion.	共著	2020 年	<i>Sci. Rep.</i>	<p>The sialidase inhibitor may be useful for anti-diabetic treatment with a low risk of hypoglycemia.</p> <p>Akira Minami, Yuka Fujita, Jun Goto, Ayano Iuchi, Kosei Fujita, Yasuyo Mikami, Mako Shiratori, Ami Ishii, Samir Mitragotri, Yasunori Iwao, Hiroaki Kanazawa, Yuuki Kurebayashi, Tadanobu Takahashi, Tadamune Otsubo, Kiyoshi Ikeda & Takashi Suzuki</p> <p>9</p> <p>We synthesized 2,3-dehydro-2-deoxy-N-acetylneuraminic acid (DANA).</p>
3 (学術論文) Fluorogenic Probes for Accurate in Situ Imaging of Viral and Mammalian Sialidases	共著	2019 年	<i>ACS Chem. Biol.</i>	<p>We report the design and development of a sialidase imaging probe that improves the sensitivity and accuracy of <i>in situ</i> fluorescence imaging performance as well as increasing the hydrophobicity by attaching linear unsaturated hydrocarbon chains into the hydrophobic fluorescent compound of BTP3-Neu5Ac.</p> <p>Yuuki Kurebayashi, Tadanobu Takahashi, Tomomi Miura, Tadamune Otsubo, Akira Minami, Yuka Fujita, Keiko Sakakibara, Momoko Tanabe, Ayano Iuchi, Ryohei Ota, Kiyoshi Ikeda, Takashi Suzuki</p> <p>10</p> <p>We synthesized benzothiazolyphenol-based sialic acid derivatives (BTP3-Neu5Ac).</p>
4 (学術論文) Rapid regulation of sialidase activity in response to neural activity and sialic acid removal during memory processing in rat hippocampus	共著	2017 年度	<i>J. Biol. Chem.</i>	<p>Our results show that neural activity-dependent desialylation by sialidase may be involved in hippocampal memory processing.</p> <p>Akira Minami, Yuko Meguro, Sayaka Ishibashi, Ami Ishii, Mako Shiratori, Saki Sai, Yuuki Horii, Hiroaki Shimizu, Hokuto Fukumoto, Sumika Shimba, Risa Taguchi, Tadanobu Takahashi, Tadamune Otsubo, Kiyoshi Ikeda, and Takashi Suzuki</p> <p>10</p>
5				<p>We synthesized benzothiazolyphenol-based sialic acid derivatives (BTP3-Neu5Ac).</p>