

Taka Sawazaki

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Education/career

- March 2017 **B. Sc.** in School of Materials and Chemical Technology
Tokyo Institute of Technology (Assoc. Prof. Kuwata Shigeki)
- March 2019 **M. Sc.** in Department of Pharmaceutical Sciences
The University of Tokyo (Prof. Kanai Motomu)
- March 2022 **Ph. D. Course** in Department of Pharmaceutical Sciences
The University of Tokyo (Prof. Kanai Motomu)
- April 2021 **Assistant Professor**, The School of Pharmaceutical Sciences
Wakayama Medical University (Prof. Sohma Youhei)

Fellowship & Grant

- 2020-2021 Research Fellow of the Japan Society for the Promotion of Sciences (DC2)
[fellowship]
- 2021-2023 JSPS Grant-in-Aids for Research Activity Start-up [research grant]
- 2023-2025 JSPS Grant-in-Aid for Young Scientists [research grant]

Award

- June 2019 Poster Presentation Award (The 14th Annual Meeting of Japanese Society for Chemical Biology, Nagoya)
- October 2019 Poster Presentation Award (The 56th Japanese Peptide Symposium, Tokyo)

Publication List

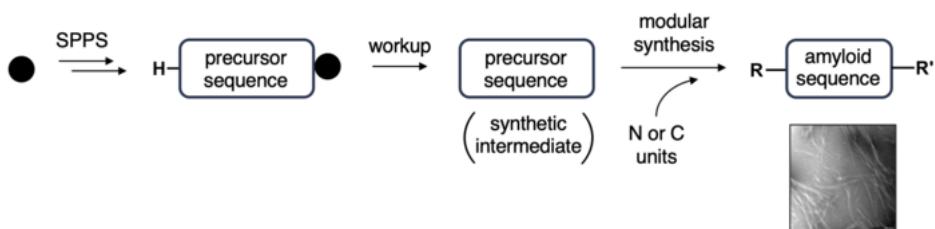
11) **Taka Sawazaki***, Daisuke Sasaki, Youhei Sohma*

"Catalysis driven by an amyloid-substrate complex" *Proc. Natl. Acad. Sci. U.S.A.*, **2024**, *121*, e2314704121.



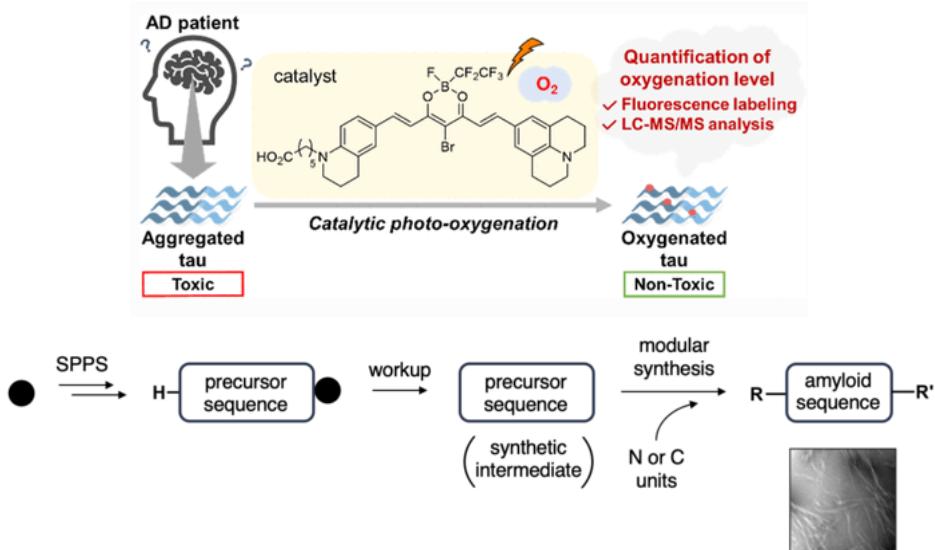
10) **Taka Sawazaki***, Youhei Sohma*

"Modular synthetic strategy for N/C-terminal protected amyloidogenic peptides manuscript in preparation" *J. Peptide Sci. (Special issue: PeptideTalents)*, **2024**, *30*, e3546.



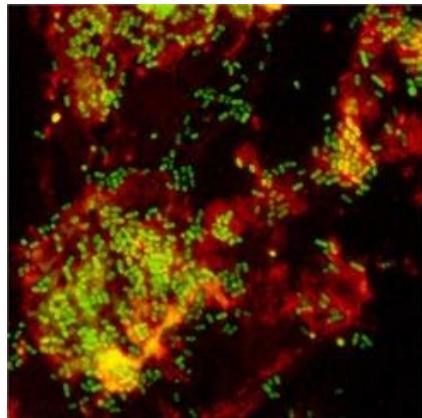
9) Hiroki Umeda, **Taka Sawazaki**, Masahiro Furuta, Takanobu Suzuki, Shigehiro A. Kawashima, Harunobu Mitsunuma, Yukiko Hori, Taisuke Tomita, Youhei Sohma, Motomu Kanai*

"Quantitative assays for catalytic photo-oxygenation of Alzheimer disease-related tau proteins" *ACS Chemical Neuroscience*, **2023**, *14*, 2710-2716.



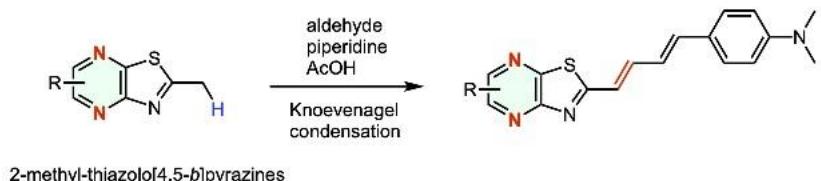
8) Joaquim Torra, **Taka Sawazaki**, Patricia Bondia, Santi Nonell, Motomu Kanai*, Youhei Sohma*, Cristina Flors*

"Activatable Iodinated BODIPYs for Selective Imaging and Photodynamic Disruption of Amyloid Structures in Pathogenic Bacterial Biofilms" *Sens. Actuators B Chem.*, **2022**, 132475.



7) **Taka Sawazaki**, Youhei Sohma*, Motomu Kanai*

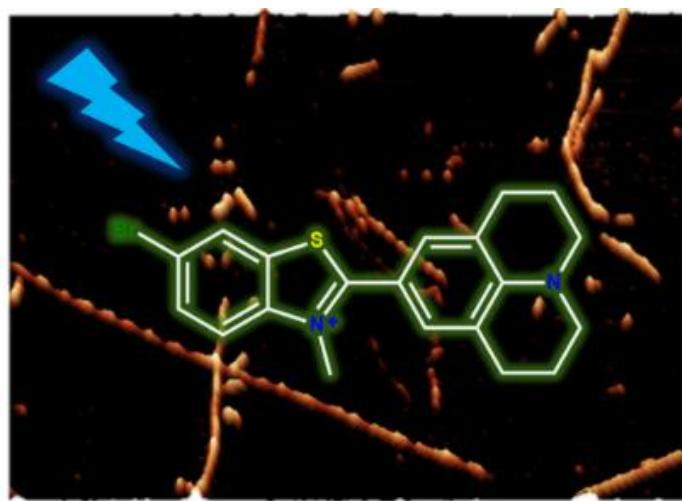
"Knoevenagel condensation between 2-methyl-thiazolo[4,5-b]pyrazines and aldehydes." *Chem. Pharm. Bull.*, **2022**, 70, 82–84.



6) Patricia Bondia, Joaquim Torra, Caterina M. Tone, **Taka Sawazaki**, Adrián del Valle, Begoña Sot, Santi Nonell, Motomu Kanai*, Youhei Sohma*, Cristina Flors*

"A nanoscale view of amyloid photodynamic damage"

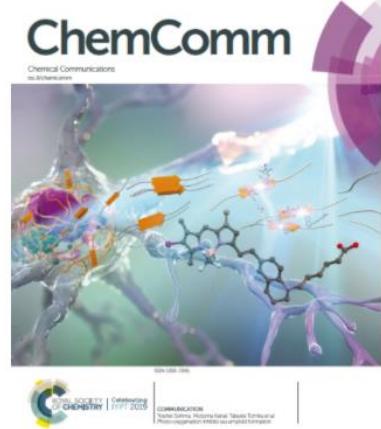
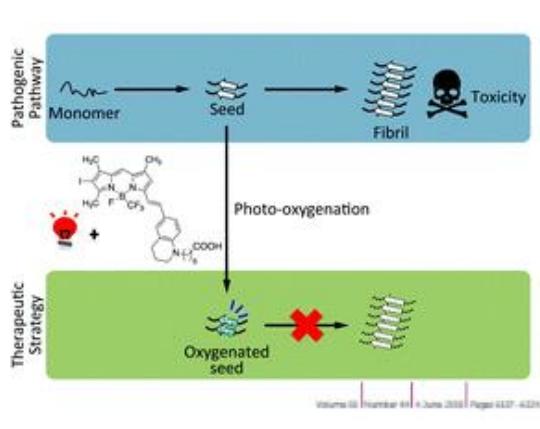
J. Am. Chem. Soc. **2020**, 142, 922-930



5). Takanobu Suzuki[#], Yukiko Hori[#], **Taka Sawazaki[#]**, Yusuke Shimizu, Yu Nemoto, Atsuhiko Taniguchi, Shuta Ozawa, Youhei Sohma*, Motomu Kanai*, Taisuke Tomita* (#contributed equally)
"Photo-oxygenation inhibits tau amyloid formation"

Chem. Commun., **2019**, 55, 6165-6168.

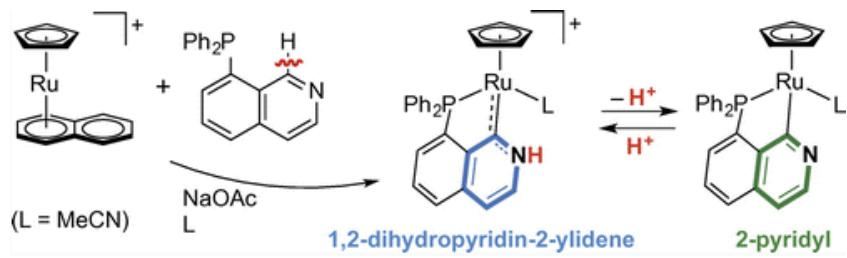
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4) Naoto Tashima, **Taka Sawazaki**, Yoshihito Kayaki*, Shigeki Kuwata*

"A P-C Chelate, Protic 1,2-Dihydropyridin-2-ylidene Ruthenium Complex Synthesis, Structure, and Reversible Deprotonation"

Chem. Lett., **2019**, 48, 787-790.

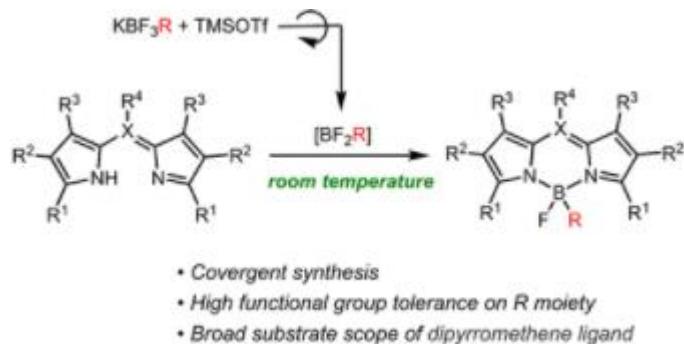


3) Atsuhiko Taniguchi, **Taka Sawazaki**, Yusuke Shimizu, Youhei Sohma*, Motomu Kanai*, "Photophysical properties and application in live cell imaging of B,B-fluoro-perfluoroalkyl BODIPYs"
MedChemCommun, **2019**, *10*, 1121-1125.

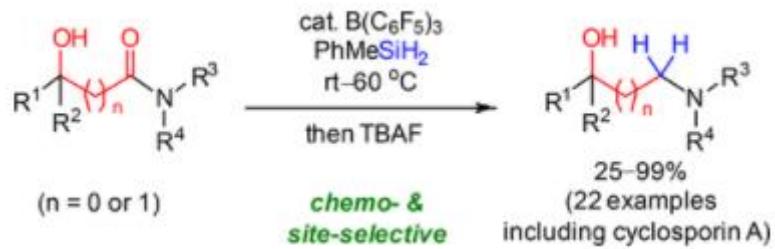


- 1:** R = F
2: R = CF₃
3: R = C₂F₅

2) **Taka Sawazaki**, Yusuke Shimizu, Kounosuke Oisaki, Youhei Sohma*, Motomu Kanai*, "Convergent and Functional-Group-Tolerant Synthesis of B-Organo BODIPYs"
Org. Lett., **2018**, *20*, 7767-7770.



1) Jizhi Ni#, Tsubasa Oguro#, **Taka Sawazaki**, Youhei Sohma*, Motomu Kanai* (#contributed equally)
"Hydroxy Group Directed Catalytic Hydrosilylation of Amides"
Org. Lett., **2018**, *20*, 7371-7374.



Presentation in International Conference

2) ○Taka Sawazaki, Daisuke Sasaki, Youhei Sohma,

"Catalysis driven by Amyloid-Substrate Complex (CASL)"

Future Drug Discovery Empowered by Chemical Biology, Nara, February

1) ○Taka Sawazaki, Takanobu Suzuki, Yusuke Shimizu, Yu Nemoto, Atsuhiko Taniguchi, Shuta Ozawa, Yukiko Hori, Taisuke Tomita, Youhei Sohma, Motomu Kanai,

"Development of BODIPY-based photo-oxygenation catalyst that inhibits tau amyloid formation"

27th International Society of Heterocyclic Chemistry Congress, Kyoto, September