1. **Udoy S. Basak, Sulimon Sattari, Kazuki Horikawa *and* Tamiki Komatsuzaki :** Inferring domain of interactions among particles from ensemble of trajectories, *Physical Review E,* **Vol.102,** *No.1-1,* 012404, 2020.
2. **原 佑介, 菅原 彩華, 山田 クリス孝介, 遠藤 慶子, 芦谷 早苗, 五十嵐 香織, 曽我 朋義, 神成 淳司, 黒田 裕樹 :** メタボローム解析によるウンシュウミカン含有イオン性低分子化合物の網羅的測定と比較, *日本食品科学工学会誌,* **Vol.67,** *No.12,* 499-513, 2020年.
3. **Basak S. Udoy, Sattari Sulimon, Hossain Motaleb Md., Kazuki Horikawa *and* Komatsuzaki Tamiki :** An information-theoretic approach to infer the underlying interaction domain among elements from finite length trajectories in a noisy environment, *The Journal of Chemical Physics,* **Vol.154,** *No.3,* 034901, 2021.
4. **Anamaria D. Sarca, Luca Sardo, Hirofumi Fukuda, Hiroyuki Matsui, Kotaro Shirakawa, Kazuki Horikawa, Akifumi Takaori-Kondo *and* Taisuke Izumi :** FRET-Based Detection and Quantification of HIV-1 Virion Maturation, *Frontiers in Microbiology,* **Vol.12,** 647452, 2021.
5. **Basak S. Udoy, Sattari Sulimon, Hossain Motaleb, Kazuki Horikawa *and* Komatsuzaki Tamiki :** Transfer entropy dependent on distance among agents in quantifying leader-follower relationships, *Biophysics and Physicobiology,* **Vol.18,** 131-144, 2021.
6. **Taishi Kakizuka, Yusuke Hara, Yusaku Ohta, Asuka mukai, Aya Ichiraku, Yoshiyuki Arai, Taro Ichimura, Takeharu Nagai *and* Kazuki Horikawa :** Cellular logics bringing the symmetry breaking in spiral nucleation revealed by trans-scale imaging, *bioRxiv,* 2020.
7. **Ayuko Sakane, Taka-aki Yano, Takayuki Uchihashi, Kazuki Horikawa, Yusuke Hara, Issei Imoto, Shusaku Kurisu, Hiroshi Yamada, Kohji Takei *and* Takuya Sasaki :** JRAB/MICAL-L2 undergoes liquid-liquid phase separation to form tubular recycling endosomes., *Communications Biology,* **Vol.4,** *No.1,* 551, 2021.
8. **Akinobu Z. Suzuki, Taichi Sakano, Hirona Sasaki, Rei Watahiki, Masaki Sone, Kazuki Horikawa *and* Toshiaki Furuta :** Design and synthesis of gene-directed caged cyclic nucleotides exhibiting cell type selectivity, *Chemical Communications,* **Vol.57,** *No.46,* 5630-5633, 2021.
9. **Shuhei Takatani, Tsuyoshi Tahara, Mieko Tsuji, Daiki Ozaki, Nina Shibata, Yoshinobu Hashizume, Masaaki Suzuki, Hirotaka Onoe, Yasuyoshi Watanabe *and* Hisashi Doi :** C-Methylation and Microfluidic Hydrogenation: Potentiality of Leucine PET Probes for Tumor Imaging., *ChemMedChem,* 2021.
10. **T Ichimura, T Kakizuka, Kazuki Horikawa, K Seiriki, A Kasai, H Hashimoto, K Fujita, M T Watanabe *and* T Nagai :** Exploring rare cellular activity in more than one million cells by a transscale scope., *Scientific Reports,* **Vol.11,** *No.1,* 2021.
11. **Atsushi Mitsuhashi, Kensuke Kondoh, Kazuki Horikawa, Kazuya Koyama, Thi Na Nguyen, Tania Afroj, Hiroto Yoneda, Kenji Otsuka, Hirokazu Ogino, Hiroshi Nokihara, Tsutomu Shinohara *and* Yasuhiko Nishioka :** Programmed death (PD)-1/PD-ligand 1 blockade mediates antiangiogenic effects by tumor-derived CXCL10/11 as a potential predictive biomarker., *Cancer Science,* **Vol.112,** *No.12,* 4853-4866, 2021.
12. **Kana Beppu, Rie Tsutsumi, Satoshi Ansai, Nana Ochiai, Mai Terakawa, Marie Mori, Masashi Kuroda, Kazuki Horikawa, Takumi Tomoi, Joe Sakamoto, Yasuhiro Kamei, Kiyoshi Naruse *and* Hiroshi Sakaue :** Development of a screening system for agents that modulate taste receptor expression with the CRISPR-Cas9 system in medaka., *Biochemical and Biophysical Research Communications,* **Vol.601,** 65-72, 2022.
13. **Keisho Hirota, Tsuyoshi Hirashima, Kazuki Horikawa, Akihiro Yasoda *and* Michiyuki Matsuda :** C-type Natriuretic Peptide-induced PKA Activation Promotes Endochondral Bone Formation in Hypertrophic Chondrocytes., *Endocrinology,* **Vol.163,** *No.3,* 2022.
14. **Kazuki Horikawa *and* Takeharu Nagai :** Live Imaging of cAMP Signaling in D. discoideum Based on a Bioluminescent Indicator, Nano-lantern (cAMP)., *Methods in Molecular Biology,* **Vol.2483,** 231-240, 2022.
15. **高谷 修平, 田原 強, 尾上 浩隆, 渡辺 恭良, 土居 久志 :** [11C]ヨウ化メチルを用いたL-[5-11C]ロイシンの効果的合成法, *JSMI Report,* **Vol.15,** *No.1,* 34-38, 2022年.
16. **Kazuki Horikawa :** PacifiChem2021, Honolulu, USA, Dec. 2021.
17. **田原 強, 丹羽 節, 室橋 道子, 武 玉萍, 井上 美智子, 吉田 優, 細谷 孝充, 清水 重臣, 崔 翼龍 :** オートファジー活性化抗癌化合物を基盤としたPETプローブの開発, *第15回日本分子イメージング学会,* 2021年5月.
18. **高谷 修平, 新垣 和貴子, 田原 強, 土居 久志 :** Efficient Syntheses of L-[5-11C]Leucine and L-[5-11C]Methylleucine using [11C]CH3I, *第15回分子イメージング学会,* 2021年5月.
19. **堀川 一樹 :** 第60回日本生体医工学会・第36回日本生体磁気学会 合同大会, 2021年6月.
20. **原 佑介 :** 細胞から学ぶ らせんの作り方, *The 58th Scienc-ome,* 2021年6月.
21. **堀川 一樹, 原 佑介, 垣塚 太志 :** AMATERAS観察で明らかになったラセン波の自発形成メカニズム, *新学術領域研究「シンギュラリティ生物学」第5回領域会議,* 2021年5月.
22. **原 佑介, 堀川 一樹, 垣塚 太志 :** リエントリーからラセンへ:自発形成されるラセン波の起源, *新学術領域研究「シンギュラリティ生物学」第5回領域会議,* 2021年5月.
23. **垣塚 太志, 原 佑介, Taro Ichimura, Takeharu Nagai, 堀川 一樹 :** 社会性アメーバにおける時空間自己組織化過程の多段階シンギュラリティ AMATERAS ver.1 を用いた定量トランススケール解析, *新学術領域研究「シンギュラリティ生物学」第5回領域会議,* 2021年5月.
24. **Miho Shukuri, Aya Mawatari, Shuhei Takatani, Tsuyoshi Tahara, Michiko Inoue, Wakako Arakaki, Masahiro Ohno, Hisashi Doi *and* Hirotaka Onoe :** Synthesis and preclinical evaluation of 18F-FKTP methyl ester as a radiotracer for COX-1 imaging in neuroinflammation, *Journal of Nuclear Medicine,* **Vol.63,** *No.11,* 1761-1767, 2022.
25. **Tsuyoshi Tahara, Shuhei Takatani, Mieko Tsuji, Nina Shibata, Nami Hosaka, Michiko Inoue, Masahiro Ohno, Daiki Ozaki, Aya Mawatari, Yasuyoshi Watanabe, Hisashi Doi *and* Hirotaka Onoe :** Characteristic Evaluation of a 11C-Labeled Leucine Analog, l-α-[5-11C]methylleucine, as a Tracer for Brain Tumor Imaging by Positron Emission Tomography, *Molecular Pharmaceutics,* **Vol.20,** *No.3,* 1842-1849, 2023.
26. **Takashi Niwa, Tsuyoshi Tahara, CE Chase, RG Fang, Takayoshi Nakaoka, Satsuki Irie, Emi Hayashinaka, Yasuhiro Wada, Hidefumi Mukai, Kenkichi Masutomi, Yasuyoshi Watanabe, Yilong Cui *and* Takamitsu Hosoya :** Synthesis of 11C-Radiolabeled Eribulin as a Companion Diagnostics PET Tracer for Brain Glioblastoma, *Bulletin of the Chemical Society of Japan,* **Vol.96,** *No.3,* 283-290, 2023.
27. **高谷 修平, 田原 強, 倉井 佐知, 尾上 浩隆, 渡辺 恭良, 土居 久志 :** Epimerization-free synthesis of 11C-radiolabeld dipeptides, *日本分子イメージング学会誌,* 2022年5月.
28. **Takashi Niwa, 田原 強, Chase E. Charles, Fang G. Francis, Nakaoka Takayoshi, Irie Satsuki, Hayashinaka Emi, Wada Yasuhiro, Mukai Hidefumi, Masutomi Kenkichi, Watanabe Yasuyoshi, Cui Yi-Long ), Hosoya Takamitsu :** Synthesis of 11C-Radiolabeled Eribulin via Henry Reaction, *日本分子イメージング学会誌,* 2022年5月.
29. **Udoy S. Basak, Sulimon Sattari, Md Motaleb Hossain, Kazuki Horikawa, Mikito Toda *and* Tamiki Komatsuzaki :** Comparison of particle image velocimetry and the underlying agents dynamics in collectively moving self propelled particles., *Scientific Reports,* **Vol.13,** *No.1,* 12566, 2023.
30. **Danxi Li, Di Hu, Yuta Ochi, Wakako Arakaki, Aya Mawatari, Mika Shigeta, Yuping Wu, Emi Hayashinaka, Hiroyuki Neyama, Tsuyoshi Tahara, Yasuhiro Wada, Feng Li, Hisashi Doi, Yasuyoshi Watanabe *and* Yilong Cui :** Regional neuroinflammation induced by peripheral infection contributes to fatigue-like symptoms: a [18F]DPA-714 positron emission tomography study in rats, *Frontiers in Immunology,* **Vol.14,** 1261256, 2023.
31. **Kazuki Horikawa *and* Tatsuya Takemoto :** Analysis of the singularity cells controlling the pattern formation in multi-cellular systems, *Biophysics and Physicobiology,* **Vol.21,** e211001, 2024.
32. **Maiko Sakai, Kohta Ohnishi, Masashi Masuda, Erika Harumoto, Teppei Fukuda, Aika Ohnishi, Shunsuke Ishii, Hirokazu Ohminami, Hisami Yamanaka-Okumura, Kazuto Ohashi, Eisuke Itakura, Kazuki Horikawa, Shigenobu Yonemura, Taichi Hara *and* Yutaka Taketani :** Modulations of the mTORC2-GATA3 axis by an isorhamnetin activated endosomal-lysosomal system of the J774.1 macrophage-like cell line., *Journal of Clinical Biochemistry and Nutrition,* **Vol.75,** *No.1,* 24-32, 2024.
33. **Takashi Tamura, Tsuyoshi Tahara, Michiko Inoue, Ryota Nanjo, Hirotaka Onoe, Takako Yamamoto *and* Shin Kawamata :** Study on the Extrapolability of Current Tumorgenicity Test With Mice by Comparing the Syngeneic or Allogeneic Mouse Transplantation Model., *Stem Cells Translational Medicine,* 2024.
34. **丹羽 節, 田原 強, Charles E. Chase, Francis G. Fang, 中岡 貴義, 入江 さつき, 林中 恵美, 和田 康弘, 向井 英史, 増冨 健吉, 渡辺 恭良, YiLong Cui, 細谷 孝充 :** 脳膠芽腫のコンパニオン診断用PETトレーサーとしての[11C]エリブリンの合成, *JSMI Report,* **Vol.17,** *No.1,* 30-33, 2024年.
35. **Chiho Shinozaki, Yutaka Kohmura, Tetsuro Yoshimaru, Tsuyoshi Tahara, Masaya Denda, Hidefumi Mukai, Kohta Mohri, Yi Long Chen, Toyomasa Katagiri *and* Akira Otaka :** Study on a lipidated anti-cancer peptide allowing long-lasting duration in mice model, *AIMECS 2023,* Seoul, Jun. 2023.
36. **Kazuki Horikawa :** 10万細胞の集団に生じる細胞間信号波の形成機構, *第56回日本発生生物学会,* Jul. 2023.
37. **田原 強 :** 小動物を用いたがんPETイメージング, *SMART2023,* 2023年8月.
38. **Takatsugu Kasahara, Tsung-Che Chang, Hiromasa Yoshioka, Sayaka Urano, Yasuko Egawa, Michiko Inoue, Tsuyoshi Tahara, Koji Morimoto, R Ambara Pradipta *and* Katsunori Tanaka :** Anticancer approach by targeted activation of a global inhibitor of sialyltransferases with acrolein., *Chemical Science,* **Vol.15,** *No.25,* 9566-9573, 2024.
39. **Yusuke Hara, Aya Ichiraku, Tomoki Matsuda, Ayuko Sakane, Takuya Sasaki, Takeharu Nagai *and* Kazuki Horikawa :** High-affinity tuning of single fluorescent protein-type indicators by flexible linker length optimization in topology mutant., *Communications Biology,* **Vol.7,** *No.1,* 2024.
40. **Masaki Morishima, Pu Wang, Kosuke Horii, Kazuki Horikawa *and* Katsushige Ono :** Channel Decline Caused by Saturated Fatty Acids via Both Free Fatty Acid Receptor 4-Dependent and -Independent Pathways in Cardiomyocytes., *International Journal of Molecular Sciences,* **Vol.25,** *No.14,* 2024.
41. **田原 強, 篠﨑 千穂, 吉丸 哲郎, 毛利 浩太, 傳田 将也, 大谷 環樹, 片桐 豊雅, 大髙 章, 向井 英史, 崔 翼龍 :** PETを用いた脂質化抗がんペプチドの動態解析, *日本分子イメージング学会,* 2024年5月.