

林 重彦 (公募 B 班)

2019 年度 会議発表

1. Shigehiko Hayashi, “Atomistically deciphering functional processes of photoreceptor membrane proteins with molecular simulations”, 第 19 回日本蛋白質科学会年会・第 71 回日本細胞生物学会大会 合同年次大会 共催シンポジウム「最先端の実験科学と計算科学が明らかにする膜タンパク質の精緻な反応機構」, (神戸, 日本, 2019 年 6 月 26 日) 招待講演
2. Shigehiko Hayashi, “Atomistically deciphering functional processes of transporter and redox proteins with molecular simulations”, Telluride Science Research Center Workshop on “Protein Dynamics”, (Telluride, USA, 2019 年 7 月 8 日招待講演)
3. Shigehiko Hayashi, “Atomistically deciphering functional processes of photoreceptor proteins with molecular simulations”, Frontiers in Multiscale Modelling of Photoreceptor Proteins, (Tel Aviv, Israel, 2019 年 9 月 4 日) 招待講演
4. Masahiko Taguchi, Ryo Oyama, Masahiro Kaneko, Shigehiko Hayashi, “Determination of protonated states for native and mutant structures of HIV-1 protease with indinavir by free energy calculations”, 第 57 回生物物理学会年会シンポジウム「ポスト「京」始動を見据えた計算創薬の新展開」, (宮崎, 日本, 2019 年 9 月 25 日)
5. Ayaka Matsuyama, Masahiko Taguchi, Shigehiko Hayashi, “Theoretical study on an enzymatic reaction of the hammerhead ribozyme”, 第 57 回生物物理学会年会, (宮崎, 日本, 2019 年 9 月 24 日)
6. Takafumi Shikakura, Cheng Cheng, Shigehiko Hayashi, “Theoretical study on molecular mechanics of natural anion channelrhodopsin GtACR1”, 第 57 回生物物理学会年会, (宮崎, 日本, 2019 年 9 月 24 日)
7. Cheng Cheng, Shigehiko Hayashi, “An ab initio method of evaluating redox potential for metalloprotein”, 第 57 回生物物理学会年会, (宮崎, 日本, 2019 年 9 月 26 日)
8. Ryo Oyama, Taisuke Hasegawa, Shigehiko Hayashi, “Theoretical study on molecular mechanism of a light-driven ion transport of Halorhodopsin from *Natronomonas pharaonis*”, 第 57 回生物物理学会年会, (宮崎, 日本, 2019 年 9 月 26 日)
9. Shigehiko Hayashi, “Atomistically deciphering functional processes of photoreceptor and redox proteins with molecular simulations”, Ninth Conference of the Asia-Pacific Association of the Theoretical and Computational Chemists (APATCC2019), (Sydney, Australia, 2019 年 10 月 2 日) 招待講演
10. Shigehiko Hayashi, “Atomistically deciphering functional processes of photoreceptor and redox proteins with hybrid molecular simulations”, Indo-Japan Workshop Frontiers in Molecular Spectroscopy: From Fundamentals to Applications in Chemistry and

Biology, (神戸, 日本, 2019 年 10 月 31 日) 招待講演

11. Shigehiko Hayashi, “Atomistically deciphering functional processes of transporter and redox proteins with molecular simulations”, 5th International Conference on Molecular Simulation (ICMS 2019), (Jeju, Korea, 2019 年 11 月 5 日) 招待講演 (Key note)
12. Shigehiko Hayashi, “Atomistically Deciphering Redox Processes of Metalloproteins with Hybrid Molecular Simulations”, 3rd International Solar Fuels Conference (ISF-3) International Conference on Artificial Photosynthesis-2019 (ICARP2019), (広島, 日本, 2019 年 11 月 5 日)