

# プログラム共同セミナー

## 第429回生命科学セミナー

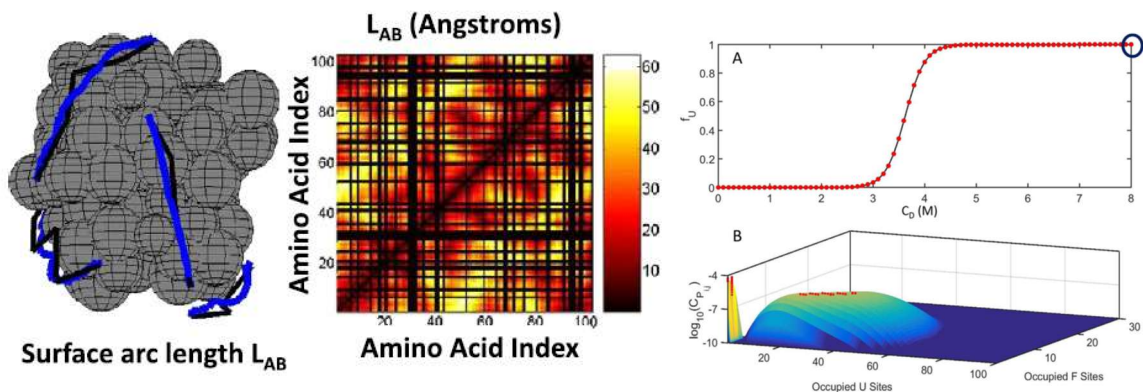
日時:2024年1月15日 14:35~16:05

場所:総合科学部 第一会議室

表題: **New biological concepts from multi-scale biophysical simulations**

講師: **Assist. Prof. Damien Hall** (WPI Nano Life Science Institute, Kanazawa University)

要旨: This talk presents some recent insights into biochemical and biophysical processes associated with protein-ligand interactions that have come from multi-scale biophysical simulation. Presented as a set of short research vignettes, this seminar discusses phenomena ranging from protein folding to cell division.



### References

- ◇ Hall, D., 2023. MIL-CELL: a tool for multi-scale simulation of yeast replication and prion transmission. *European Biophysics Journal*, **52**(8), pp.673-704.
- ◇ Hall, D., 2023. HSAFM-MIREBA-Methodology for Inferring REsolution in biological applications. *Analytical Biochemistry*, **681**, p.115320.
- ◇ Ando, S., Matsuzawa, Y., Tsurui, H., Mizutani, T., Hall, D. and Kuroda, Y., 2021. Stochastic modelling of the effects of human-mobility restriction and viral infection characteristics on the spread of COVID-19. *Scientific reports*, **11**(1), pp.1-10.
- ◇ Hall, D., 2020. On the nature of the optimal form of the holdase-type chaperone stress response. *FEBS letters*, **594**(1), pp.43-66.
- ◇ Hall, D., Kinjo, A., Goto, Y., 2018. A new look at an old view of denaturant induced protein unfolding. *Analytical biochemistry*, **542**, pp. 40-57

※このセミナーは、統合生命科学研究科プログラム共同セミナー認定科目になります。

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