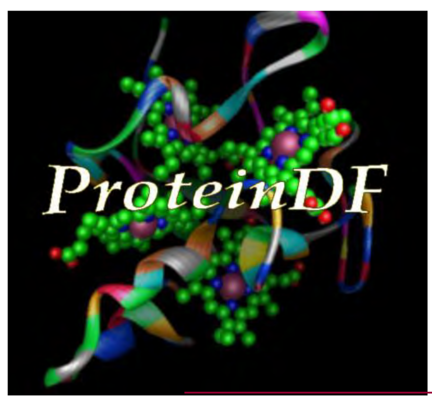
F. SATO LAB.

Innovative Simulation of Bio and Nano Molecules

Center for Research on Innovative Simulation Software
Center for Research on Engineering in Medicine and Biology

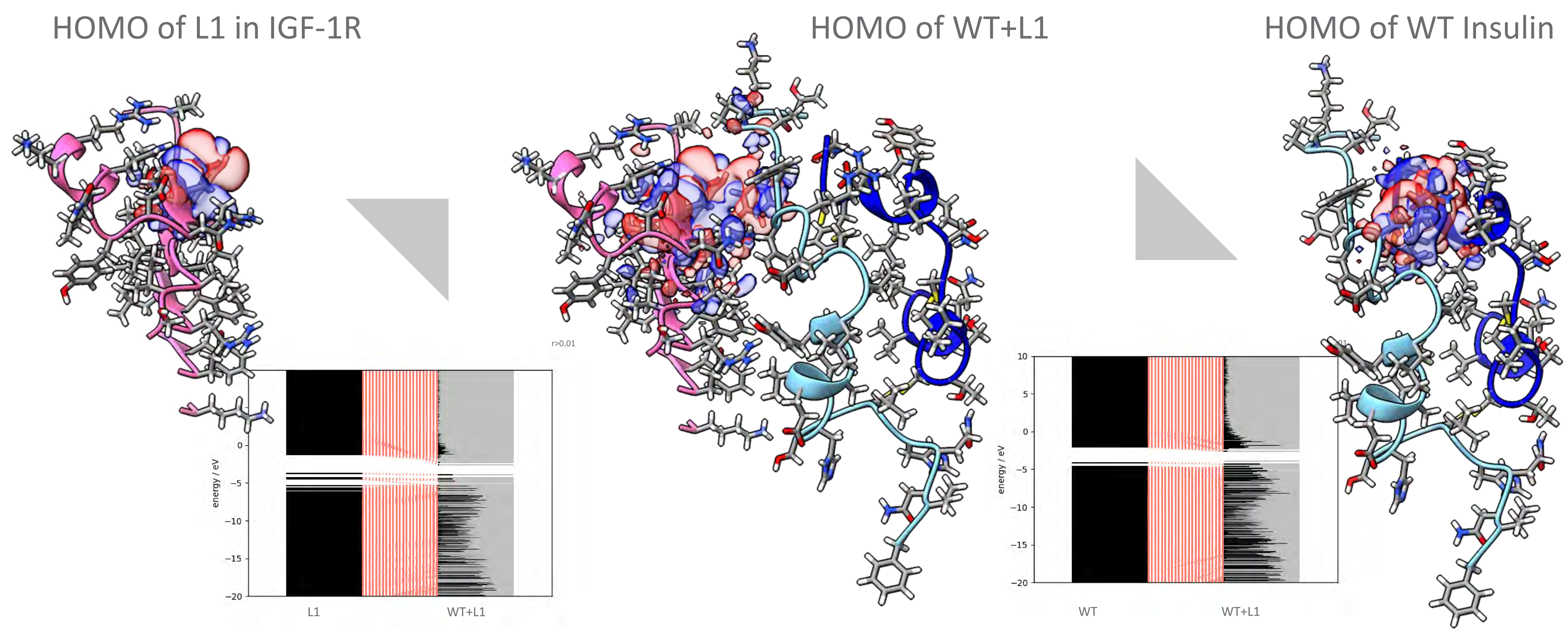
Computational Biomolecular Science
Department of Mechanical Engineering, Graduate School of Engineering

http://www.satolab.iis.u-tokyo.ac.jp/
http://www.ciss.iis.u-tokyo.ac.jp/english/ https://www.remb-utokyo.jp/en/



Protein Design
Using Quantum Chemical Calculation

Our group has been developing the quantum chemical calculation software "ProteinDF/QCLObot" which can calculate all canonical molecular orbitals of proteins.
https://proteindf.github.io/
We are using these software to analyze and design the electronic structure proteins.



Molecular orbital overlap analysis of the WT insulin/IGF-1 receptor complex

Textbooks (in Japanese)