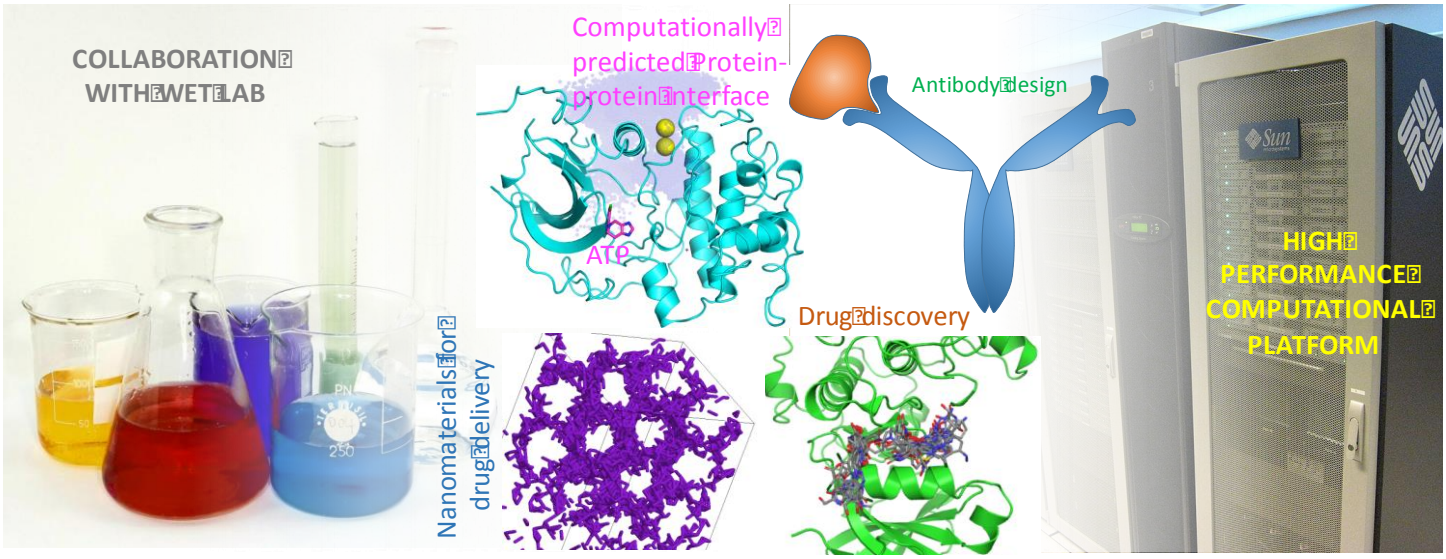
# Computational Therapeutics Core

City of Hope™





Prof. Nagarajan Vaidehi, Ph.D.
**Core Director**

Supriyo Bhattacharya, Ph.D.
**Core Manager**

Honghzi Lee, Ph.D.

Adrien Larsen

**For consultation or future collaboration, please contact Nagarajan Vaidehi (NVaidehi@coh.org) or Supriyo Bhattacharya (SBhattach@coh.org)**

# Key services offered

- **Design of Therapeutic agents**
  - Design of small molecules
  - Design of RNAs
  - Targeting protein-protein interaction
  - Design of nanomaterials for drug delivery
- **Bioengineering**
  - Redesign antibodies
  - Reengineering protein mutants for stability
- **Molecular modeling and data analysis**
  - Understanding drug resistance - effects of protein mutations on signaling pathways.
  - Molecular modeling and computations to interpret experimental data.

## Expertise of Core Members:

**Nagarajan Vaidehi, Ph.D.** Professor of Molecular Immunology

Prof. Vaidehi has decades of experience in developing computational methods and applying them in solving biological problems. She has multiple collaborations with experimentalists in US and Europe and is the recipient of several NIH R01 grants.

**Supriyo Bhattacharya, Ph.D.** Staff Scientist

Dr. Bhattacharya has more than ten years of experience in developing and applying computational methods to biological problems. He has worked in several successful collaborations involving drug design, protein mutant design and engineering nanomaterials.

**Hongzhi Li, Ph.D.** Associate Research Professor

Dr. Li has more than ten years of experience in drug design and developing computational methods for drug discovery. He has worked on diverse scientific problems and actively collaborated with many COH faculty.

**Adrien Larsen, M.S.** Senior Research Associate

Mr. Larsen has extensive experience in developing computational methods, drug design and antibody engineering. He is an avid programmer with special expertise in software development.