

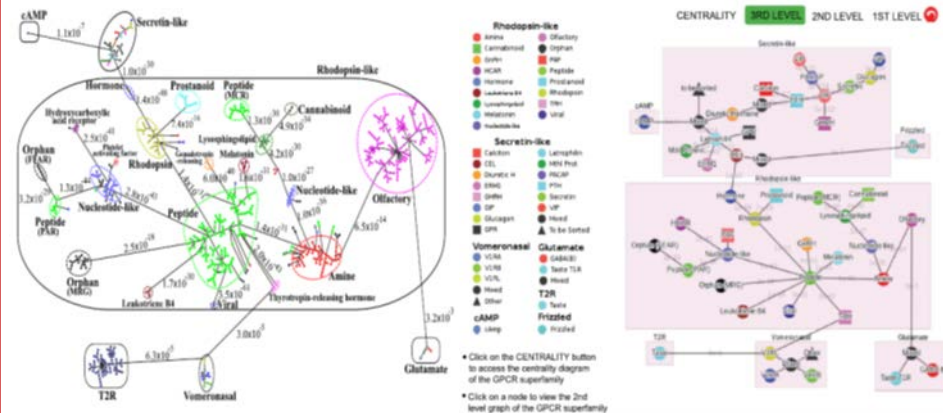
The focus of my research is to study the properties of complex systems by physical modeling, statistical analysis, and computational investigation. Currently, we are studying the classification and evolution of proteins, coronaviruses, cancers, and novels. We are interested in developing machine learning algorithms, interactive databases and physical models for understanding these complex systems.

## Techniques used in study

Machine learning and Statistics.

## GPCR Network

## Interactive Graph Database



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PhD in Physics, University of Michigan,  
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## Funding:

Ministry of Science and Technology



## Publications

- G.-M. Hu, M. K. Secario, and C.-M. Chen\*, 2019, "SeQuery: An Interactive Graph Database for Visualizing the GPCR Superfamily" Database, 2019, baz073.
- G.-M. Hu, T.-L. Mai and C.-M. Chen\*, 2017, "Visualizing the GPCR Network: Classification and Evolution" Scientific Reports, 7: 15495.
- R.H.-G. Chen, C.-C. Chen and C.-M. Chen\*, 2019, "Unsupervised cluster analyses of character networks in fiction: Community structure and centrality", Knowledge-Based Systems, 163: 800.

