

## Fettah Erdogan | Assistant Professor

Biophysical Chemist | Structural & Chemical Biologist | AI-Driven Drug Discovery Scientist  
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Dr. Erdogan is specializes in various biophysical and computational methods used to accelerate drug discovery.

### Education

- HBSc, Molecular Biology Specialist & Chemistry Minor, University of Toronto Mississauga, 2013
- MSc, Masters in Chemistry, York University, 2016
- PhD, Doctorate in Chemistry, University of Toronto Mississauga, 2020
- Postdoctoral Studies, University of Toronto Mississauga, 2025

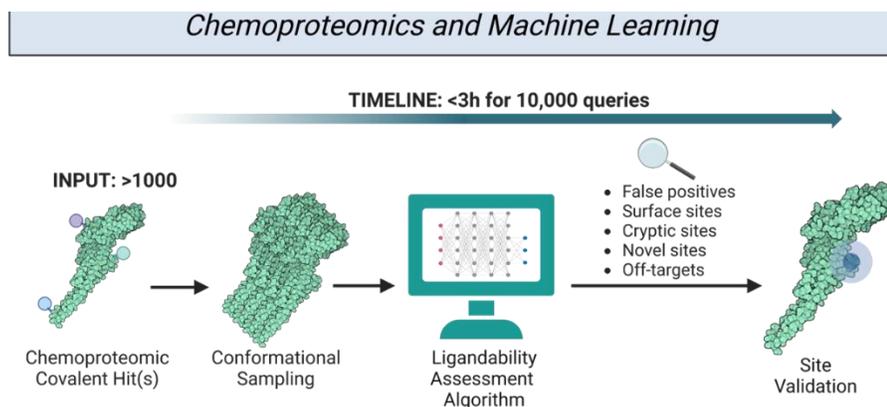
### Research Areas:

If you are passionate about integrating structural biology, AI, and biophysical chemistry to drive innovation in precision medicine and translational research, you have come to the right place!

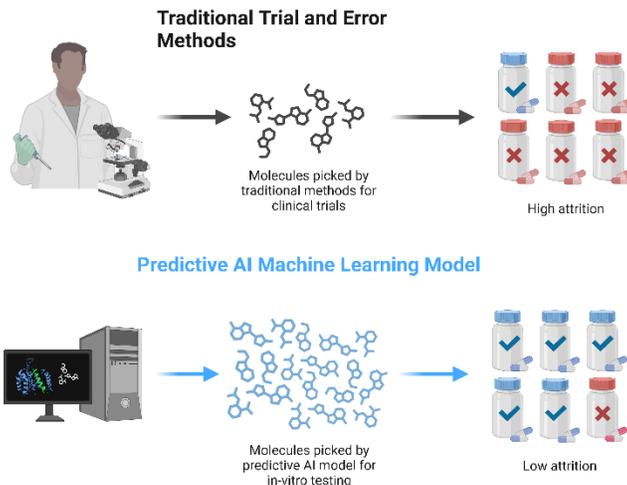
#### Biological and Biophysical Chemistry

Research Focus: Therapeutic Protein Target Prioritization & Tractability Validation

- Dr. Erdogan's lab works on designing and utilizing machine learning algorithms to analyze chemoproteomics datasets and identify novel druggable sites



- These projects utilize various chemical and structural biology techniques to empirically validate predictions that may lead to uncovering novel therapeutic drug targeting modalities.



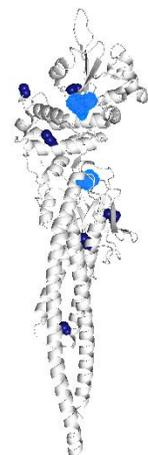
## Structural and Computational Biology

Research Focus: Structure-Function Relationship Disease-linked Protein Variants

- Dr. Erdogan's team also investigates disease-associated mutations and their impact on protein structure and function through various biochemical and biophysical methods.

### Research Techniques

- Applications of techniques in recombinant protein production, X-ray crystallography, bioinformatics, biochemical and biophysical assays.



## Publications

A selection of key publications:

- de Araujo, E.D., **Erdogan, F.\*** et al., Structural and functional consequences of the STAT5BN642H driver mutation, *Nat. Commun.* **10**, 2517. 2019. doi: 10.1038/s41467-019-10422-7
- **Erdogan, F.\*** et al., JAK-STAT Core Cancer Pathway: An Integrative Cancer Interactome Analysis, *J. Cell. Mol. Med.* **26** (7), 2049–2062. 2022. doi: 10.1111/jcmm.17228
- Olaoye, O.O., **Erdogan, F.\*** et al., Improved Pharmacokinetic Profiles of HDAC6 Inhibitors via Cap Group Modifications, *J. Med. Chem.* **68** (17), 18216–18229. 2025. doi: 10.1021/acs.jmedchem.5c00479

### [All Publications](#)

## Awards & Highlights

- Mitacs Accelerate Research Grant (2024)
- TUBITAK International Fellowship for Early Stage Researchers (2025)