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Structural Modeling and Dynamic Contact Analysis of TCRpHLA Complexes

Dinler is a computational biologist interested in Biomedical applications, including cancer immunotherapy, antiviral vaccine development, and drug discovery. He has a background in immunology and virology, and is currently an Associate Professor in Computational Biology at the Department of Biology and Biochemistry at the University of Houston. His research focuses on developing structural bioinformatics methods that can be used to improve the selection of peptide-targets and T-cell receptors with potential therapeutic use for personalized cancer immunotherapy, as well as the computational assessment of potential risks associated with off-target toxicity induced by these therapies. He is also broadly interested in problems related to protein ligand modeling and simulation, especially in which regards to peptide and peptidomimetic inhibitors. Dr. Antunes is also a former Keck postdoctoral fellow of the Computational Cancer Biology Training Program (CCBTP). More at dinlerantunes.com.