





Chemoinformatics+ Summer School 2025 (Ljubljana, 30 june – 4 july)

Hackathon results



Group member and goal

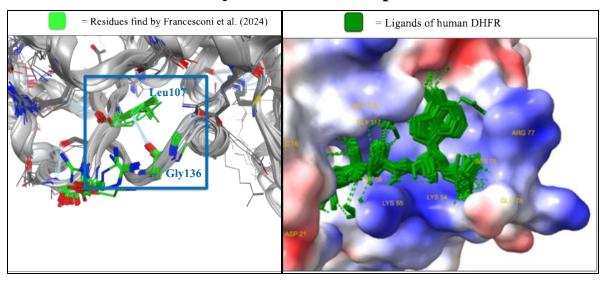
■ Group member? → Lorenzo Marchetti (University of Modena and Reggio Emillia), André Maio (University of Lisbon) and Gowan Whalley (University of London)

■ Goal? → Design of anti-parasitic agents

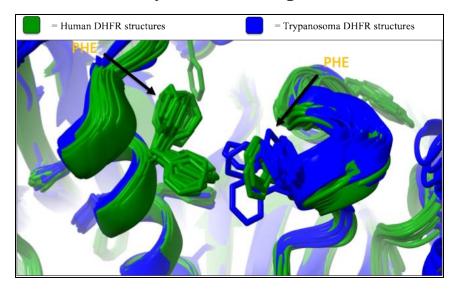
■ Strategy? → Disrupt folate metabolic pathway

Results - synthesis

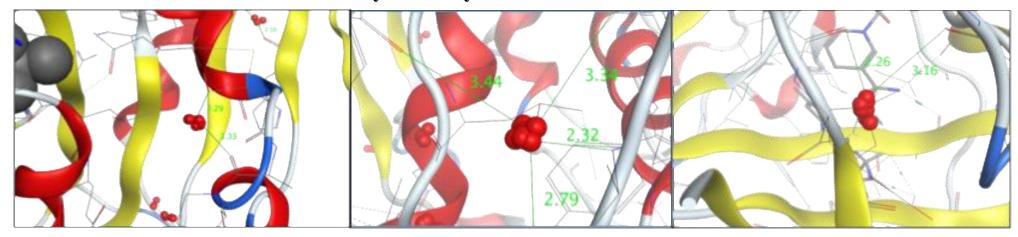
Analysis of Adenine pocket



Analysis of folate pocket

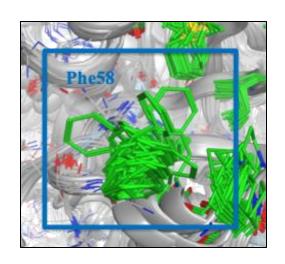


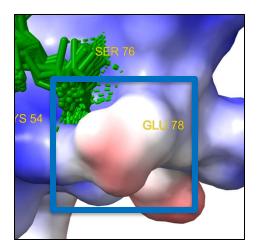
Analysis of crystalized water clusters

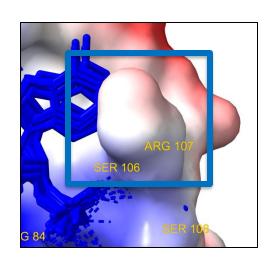


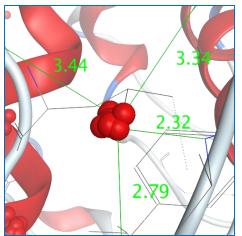
Conclusion

Human DHFR and Trypanosoma DHFR provide useful structural information to design new anti-parisitic agents











Further analysis: Homology Modelling? Docking? Molecular Dynamics?