

PROTEIN INTERACTIONS
IN RATIONAL APPROACHES
FOR MEDICINAL
INNOVATIVE DRUGS

# **Protein-Protein Interaction RhoA**







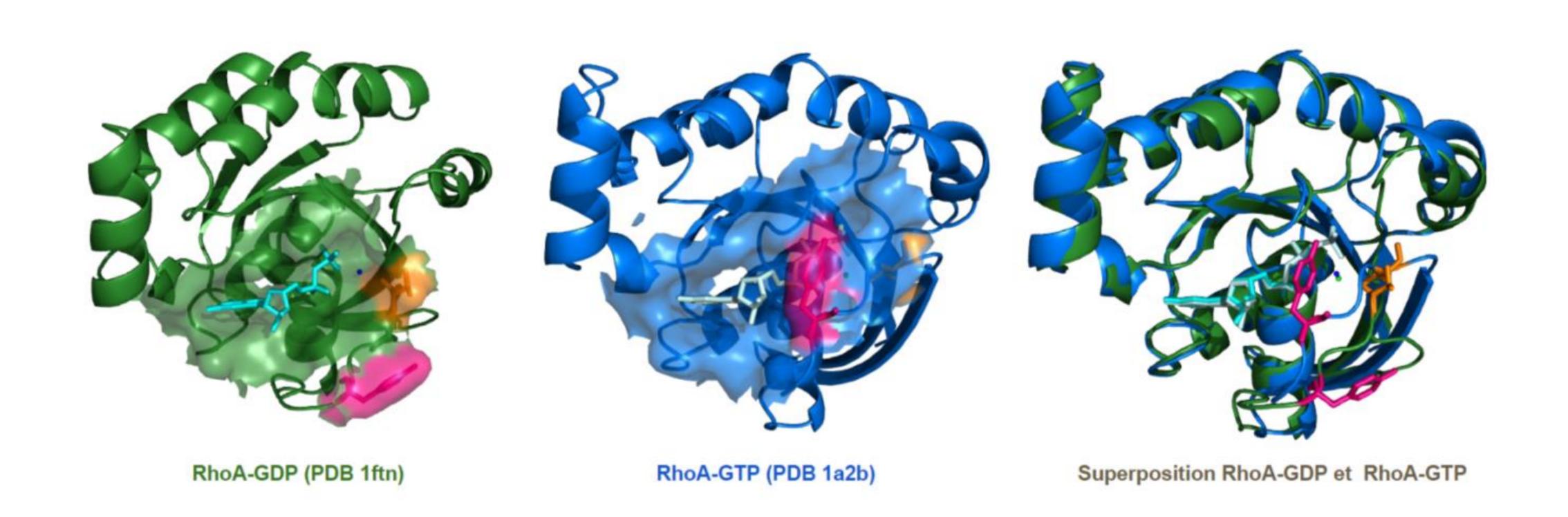


### Context:

There is an increasing body of evidence supporting a causal role of aberrant activity of small GTPases of the Rho protein family in human diseases including cancers, neuronal disorders, pulmonary and cardiovascular diseases, thus identifying Rho protein signaling cascades as potential targets for new therapeutic strategies.

#### RhoA

The activity of Rho proteins results from a tightly regulated balance between the GTP-bound, active state and the GDP-bound, inactive state.



#### Goals and ambitions:

The aim of our project is to develop Rho GEF/GTPase interaction-specific small-molecule inhibitors. We expected that our project would lead to the discovery of innovative GEF-specific RhoA inhibitors with potential therapeutic applications in hypertension.

## Resources:

2 PhD
Project proposal Next – project TROPIC
Laboratory CEISAM, Laboratory UFIP and the Thorax Institut

