

Sustainable Catalysis:

Methods and Computation



Organikoa I Saila Departamento de Química Orgánica I

Kimika

WHAT DO WE DO IN OUR RESEARCH GROUP?

- Development of new reactions ✓ Peptide modifications ✓ Mechanism elucidation
 - **Click Chemistry**

- ✓ Metal Catalysis
- ✓ Organocatalysis
- Catalysis with Enzymes Pro-Drug Research

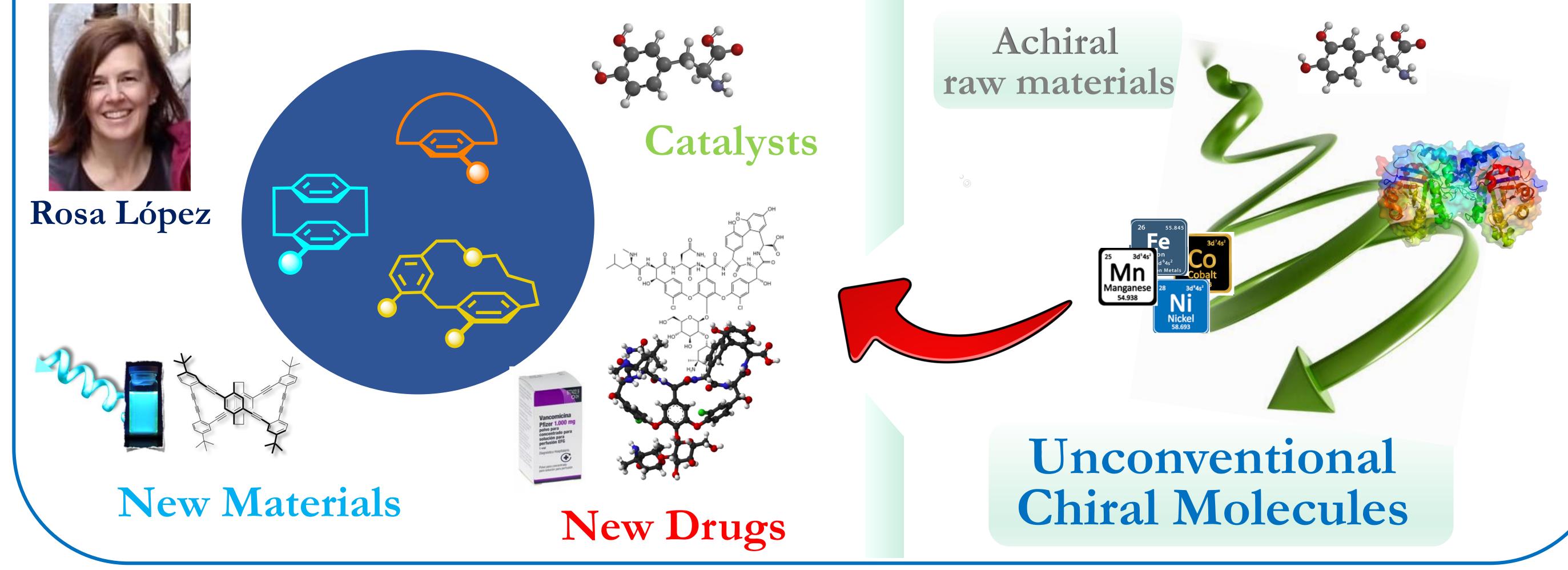


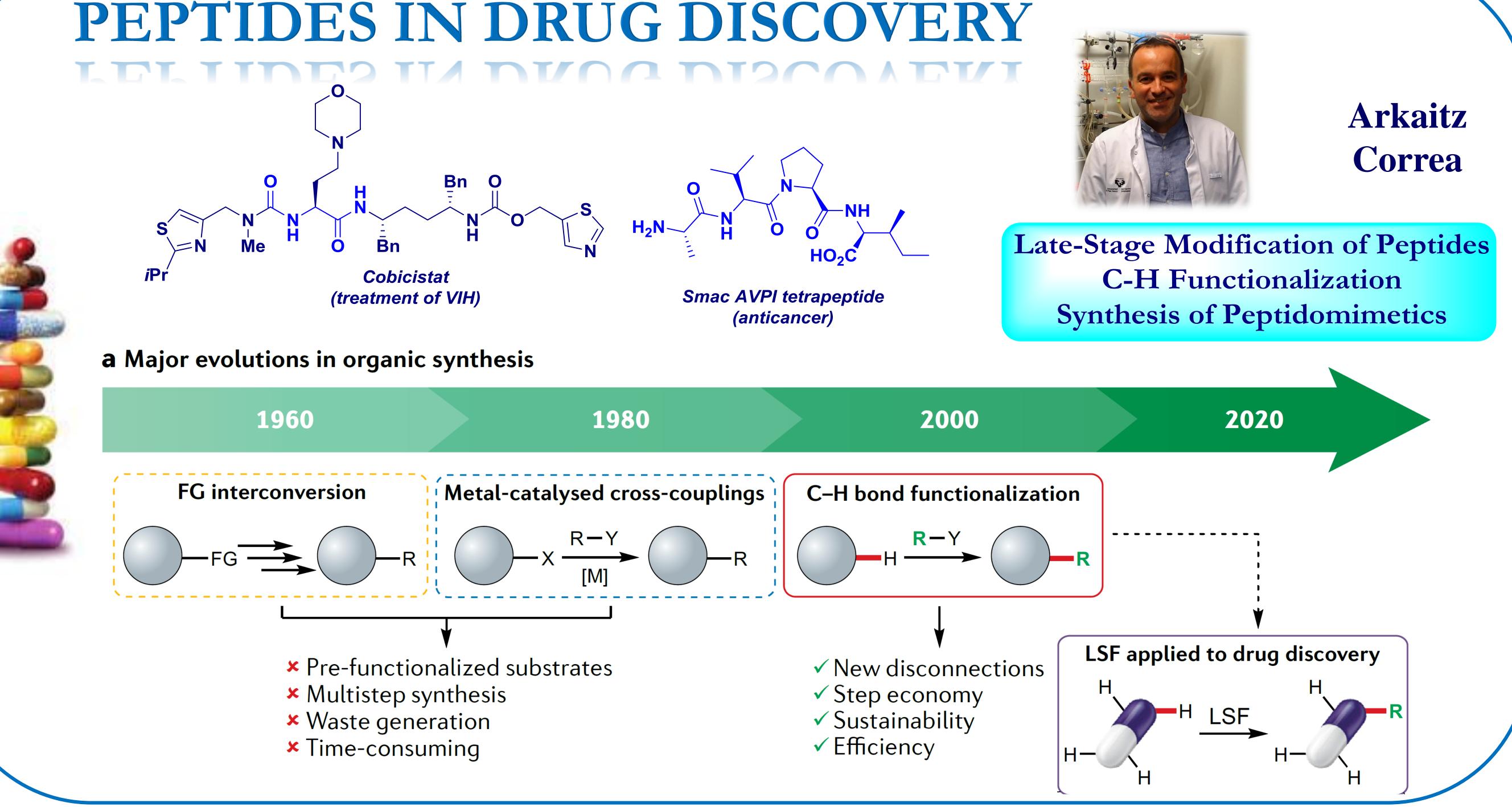
Joxe Mari Korta 4th Floor

HOW?

PLANAR CHIRALITY

ASYMMETRIC CATALYSIS







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WHAT DO WE DO IN OUR RESEARCH GROUP?



HOW?

- **Development of new reactions** Peptide modifications Mechanism elucidation **Click-Chemistry**
- Metal Catalysis
- ✓ Organocatalysis
- Catalysis with Enzymes
- Pro-Drug research



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 $\Delta G = -0.1$

TRIAZOLES FOR THERAPY

Multiple Sclerosis

A Duchenne Muscular Dystrophy

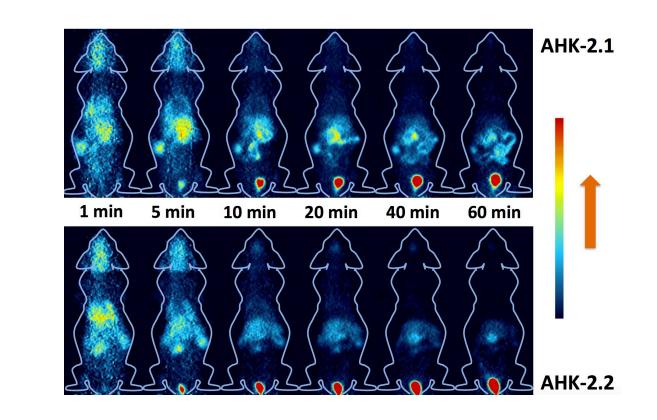


Maialen

Sagartzazu

"In vitro" "In vivo" Testing

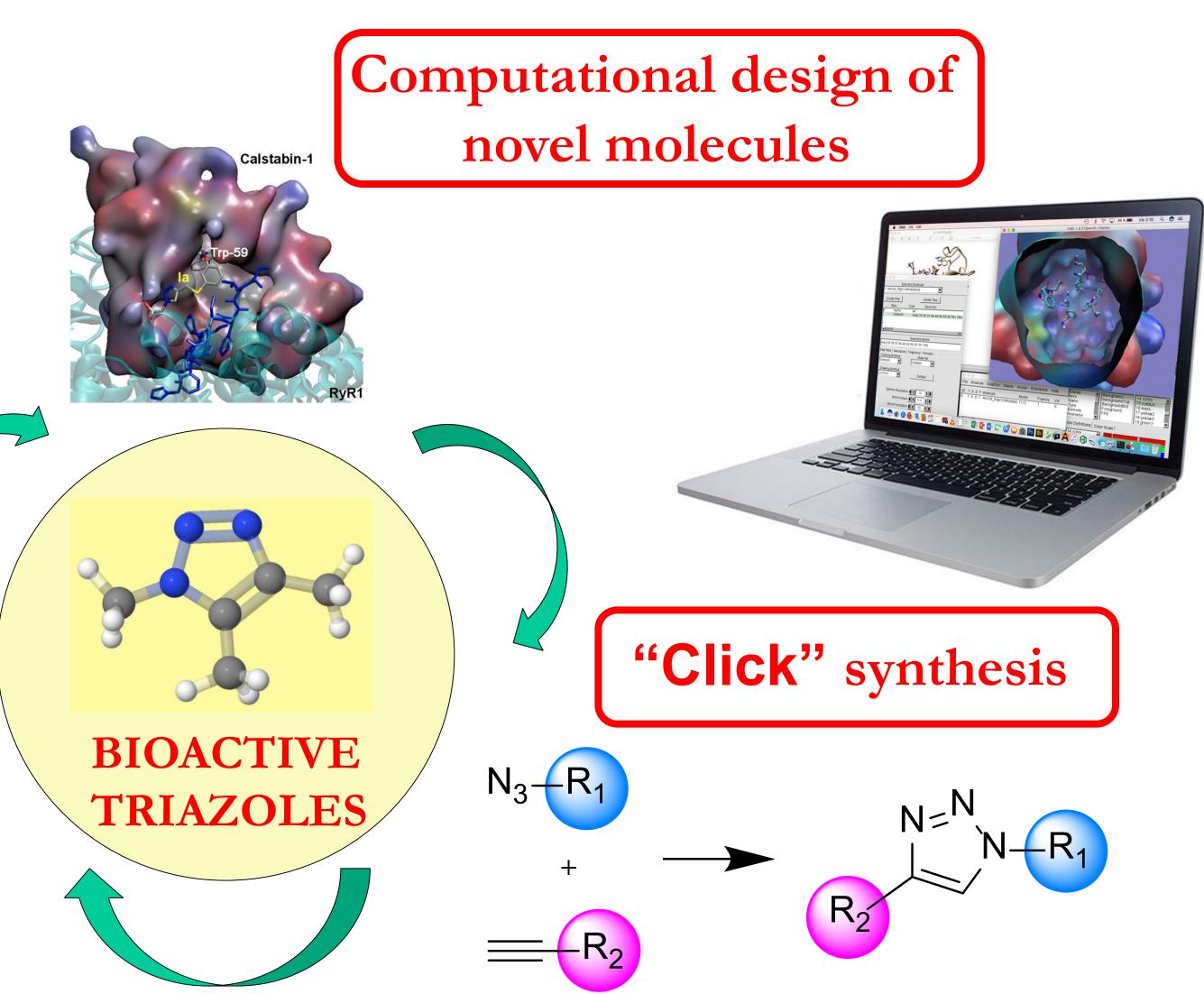
(In collaboration with **Biodonostia Institute)**



Jesus Maria Aizpurua



1º Pulse



JM Aizpurua, M. Sagartzazu et al, Eur J Med Chem, 2021, 212, 113069





Enrique Gómez-Bengoa

