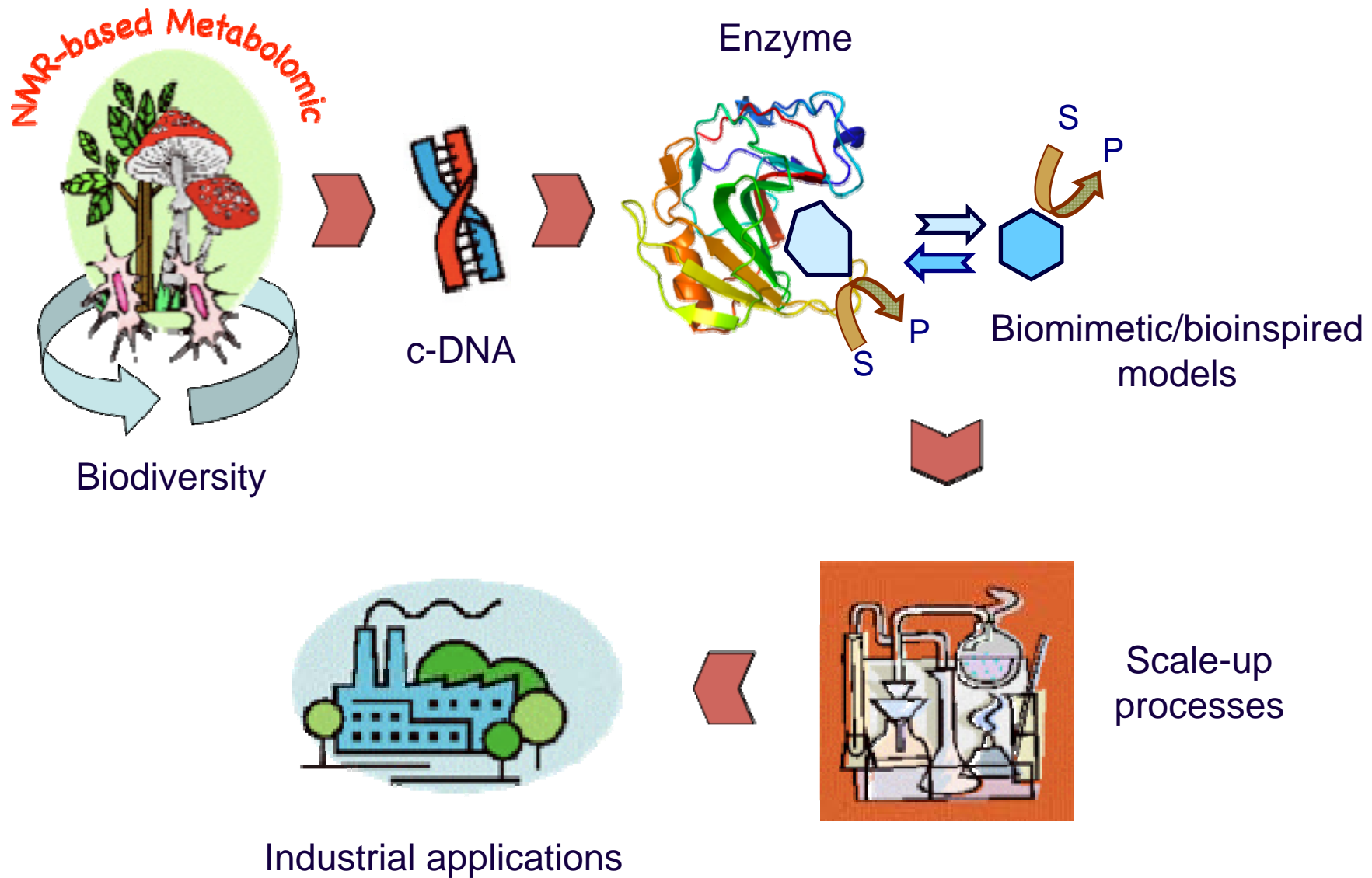


# Areas of Expertise



# Thematic groups and Projects

Organic/inorganic  
chemistry

*S. Caldarelli*

Spectroscopy

*V. Alphand*

BioCat

RMN

Metabolism

Enzymology

*J. Perrier*

SAMBAS

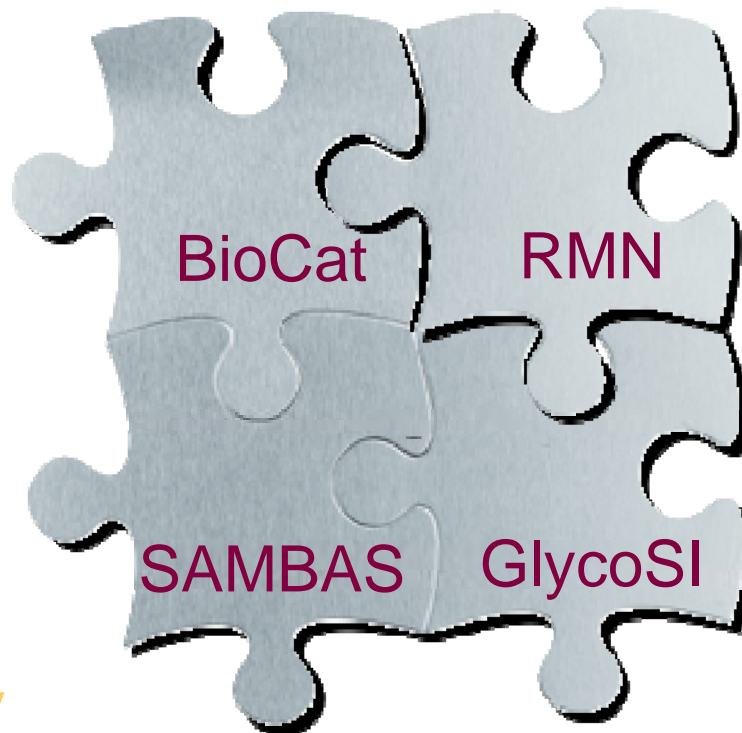
GlycoSI

Biochemistry

Cellular biology

*T. Tron*

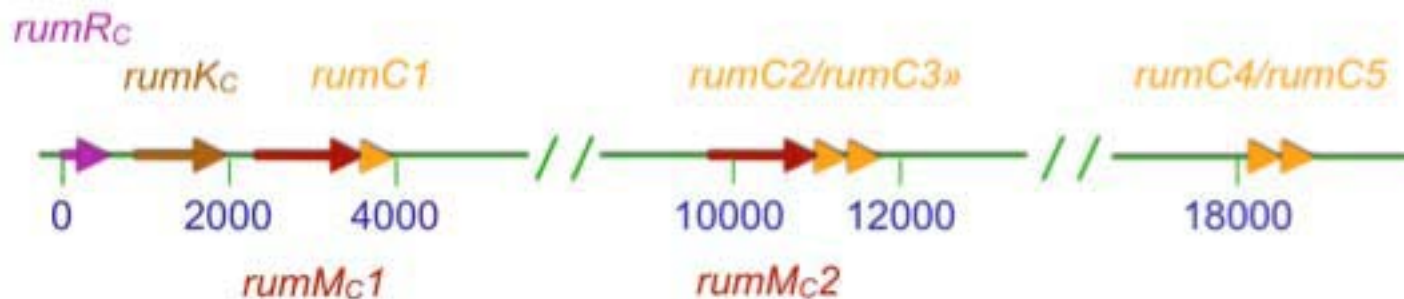
Molecular biology



# Glycosydases in Integrated Systems (GlycoSI)

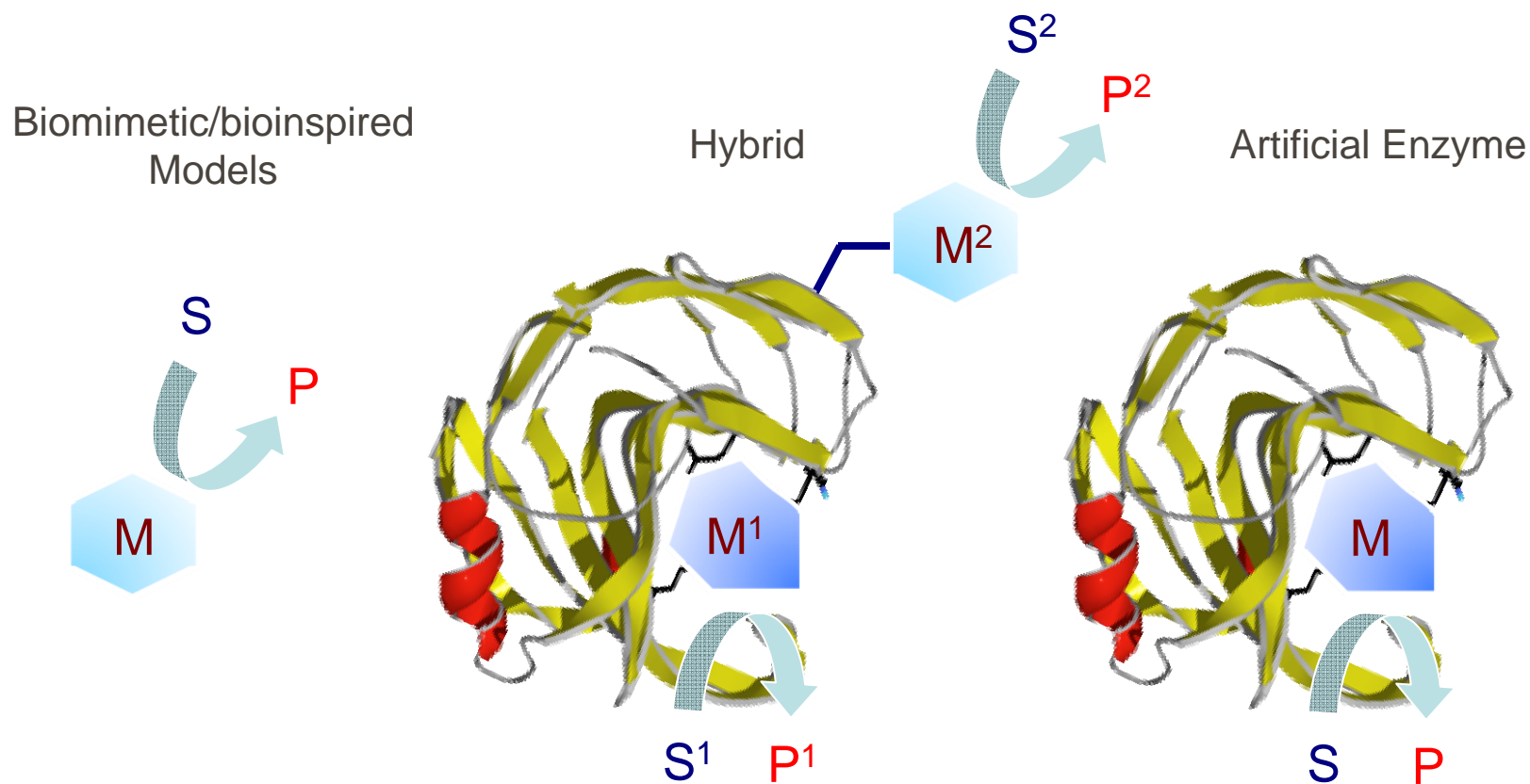
J. Perrier (PR), T. Giardina (PR), M. Fons (PR), Marc Maresca (MCF) et C. Nicoletti (IE)

- Studies of the *R. gnavus* E1 glycobioime
- IMAPIST, Metabolomic studies (ANR JCJC, L. Shintu 2012-14)
- RumBa, M. Fons in collaboration with M. Atta (CEA Grenoble), S. Lavielle (ENS Paris) et F. Guerlesquin (IMM, Marseille)



# Metallic Active Sites in Biology and Synthetic Analogues (SAMBAS)

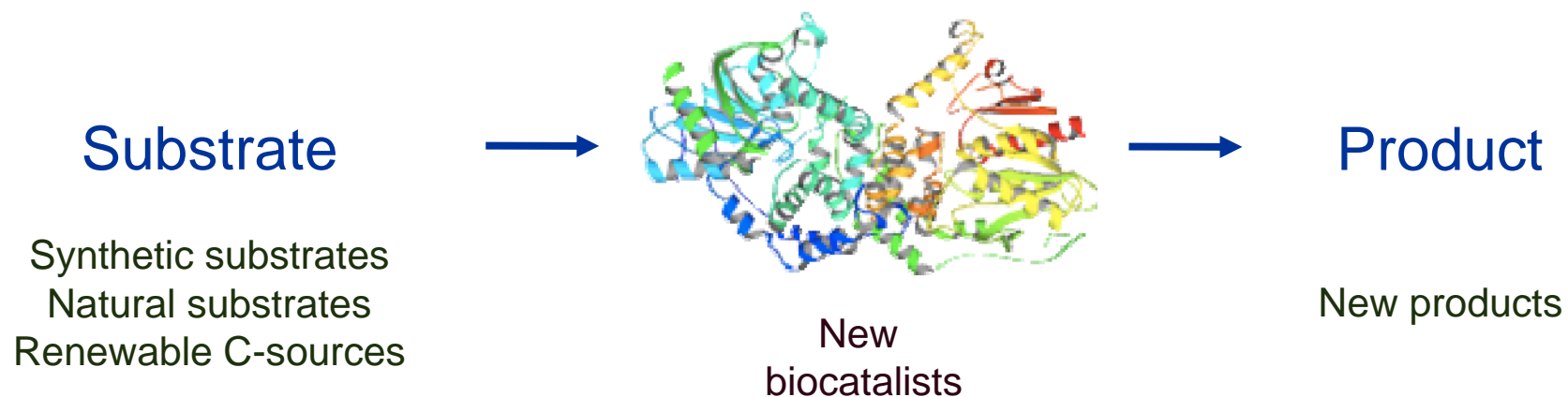
T. Tron (CR), El H. Ajandouz (MCF), M. Attolini (MCF), P. Brouant (MCF), V. Desseaux (MCF), B. Faure (MCF), R. Hardré (MCF), M. Maffei (PR), Y. Mekmouche (CR), M. Réglie (DR), V. Robert (MCF), P. Rousselot-Pailley (CR) et J. Simaan (CR)



NiFeCat (ANR Blanc, 2010-13) ; PhotoLac (PACA, 2010-13) ; ERECA (ANR JCJC, 2008-12) ;  
CUPA (ANR JCJC, 2009-12) et BICAB (ANR Blanc, 2009-12)

# Biocatalytic systems for sustainable chemistry (BioCat)

V. Alphand (CR), A. Archelas (DR), V. Deyris (MCF) et G. Iacazio (PR)



- NaturaDyRe (ANR CD2I, 2010-14) : Baeyer-Villigerases
- BioSF (OSEO 2010-13) : Cyclopropanases et Lipoxygenases



# Methodologies and Applications in NMR

S. Caldarelli (PR), M. Campredon (PR), L. Shintu (MCF) et F. Tranchida (T)

## Methodology

### Chromatographic NMR

- ANR Blanc (2008-11)
- APO-G Région PACA (2009-12)

## Metabolomic

Pre-clinical analysis (Univ. Franco-Italienne), plants (PIR Amazonie), food products (Comté), fraud, animal models with the GlycoSI thematic group (metabolic activities and bacterial symbiosis).

- Project IMAPIST ANR JCJC L. Shintu (2012-14)
- Establishment of the Center for Metabolomics (UMR INRA 1260/INSERM 1025 )