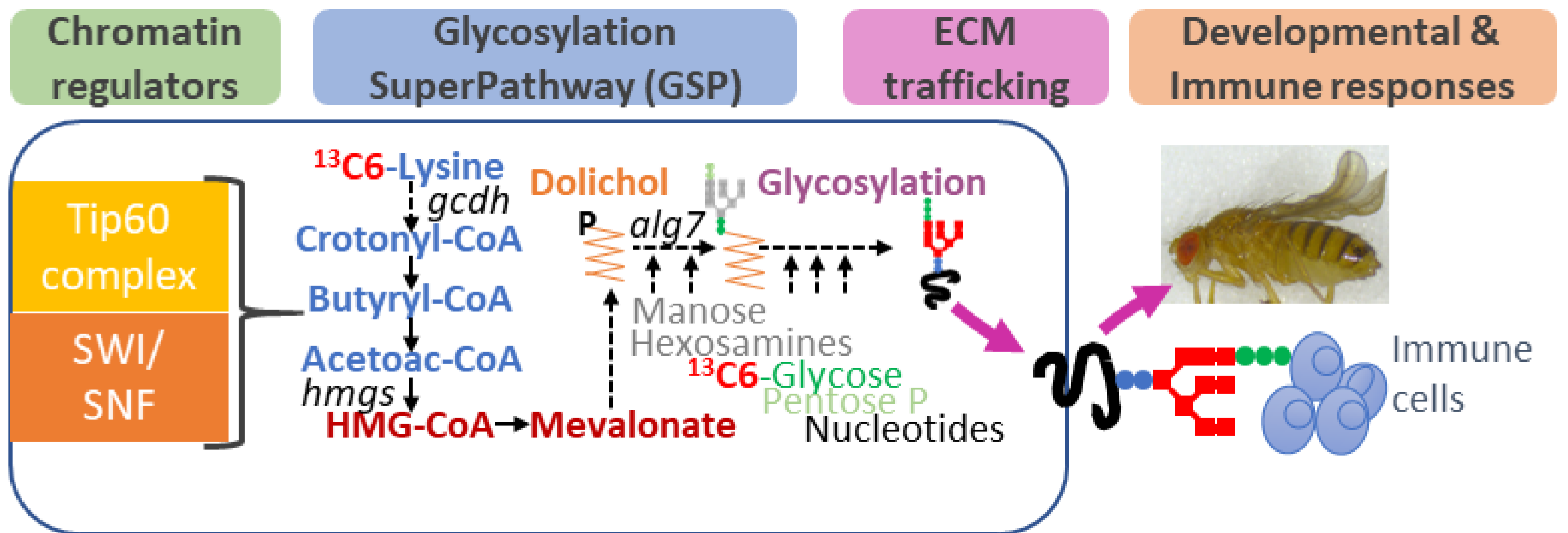


Host institution: Institut de Recherche en Cancérologie de Montpellier, INSERM U1194, ICM, UM

Host laboratory: Jouandin lab “Metabolism-epigenetic interactions in development and immunity”

Contact: patrick.jouandin@inserm.fr giulia.guzzo@inserm.fr

Metabolic Control of Glycosylation during Immune Self-Recognition



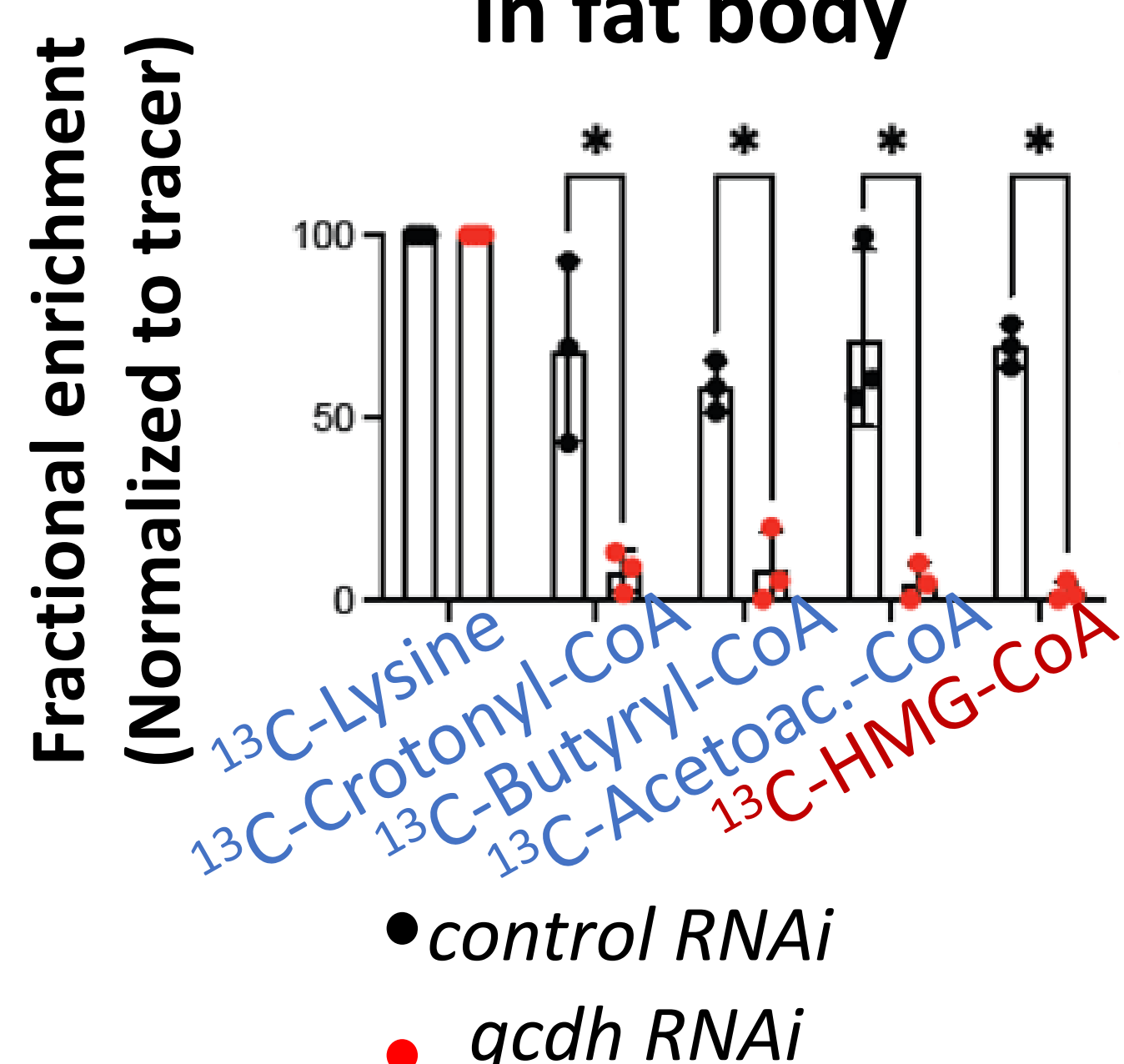
Internship objectives

- 1- Map the differential glycosylation pattern mediating autoimmunity downstream the deregulation of metabolic and chromatin regulators.
- 2- Identify specific adipose glycoproteins mediating immune tolerance of the adipose tissue
- 3- Identify immune receptors that signal immune tolerance

Methods

- Molecular biology: DNA/RNA extraction, PCR/qPCR, cloning, gene editing
- Biochemistry: Western blot, glycosylation assays, sample preparation for glycoproteomics, Immunostaining, Mass spectrometry/ Isotope tracing.
- Imaging: Fluorescent and confocal, on slides and 96 wells plates formats
- Genetics: Forward and suppressor screens, advanced genetic approaches to interorgan communication, cell-cell interaction labelling, classical gain- and loss-of-function tools

¹³C6-Lysine isotope tracing in fat body



lectin binding assay (α-D-mannose α-D-glucose)

