# **Ubiquitin Independent** Degradation

#### A New Targeted Protein Degradation approach

To design innovative treatment for pathologies involving altered proteins, unwanted protein or protein accumulation.

### The Technology

**NOVELTY** 

to 26S proteosome

been selected such as: • criticality of protein degradation

clinical need

- An early-stage targeted protein degradation technology able to short-circuit the Ubiquitin Proteasome System (UPS).
- New degrader identified that binds to a **26S proteasome component**, leading to protein degradation without the need for E3 ligases of ubiquitination.
- The approach is **highly specific** to a particular protein and independent of ubiquitin because of its direct interaction with the proteasome.
- The technology is very early stage: ongoing development is focusing on the adaptation to human proteasome (initial discovery was in plant domain).



TheSainsburyLaboratory

Protein accumulation or UPS dysfunction are involved in multiple pathologies such as chronic diseases, degenerative diseases and cancer.



#### **Timeline & Next Steps**

Assess the relevance of prioritized indications: such as cancers or neurodegenerative diseases.



**Identify** the protein to focus on to develop the technology with human proteasome.

**Draw** the technological developments involved by the prioritized indication and protein.

## Contact



**Damien Caubrière TSL Ventures Co-Ordinator**