

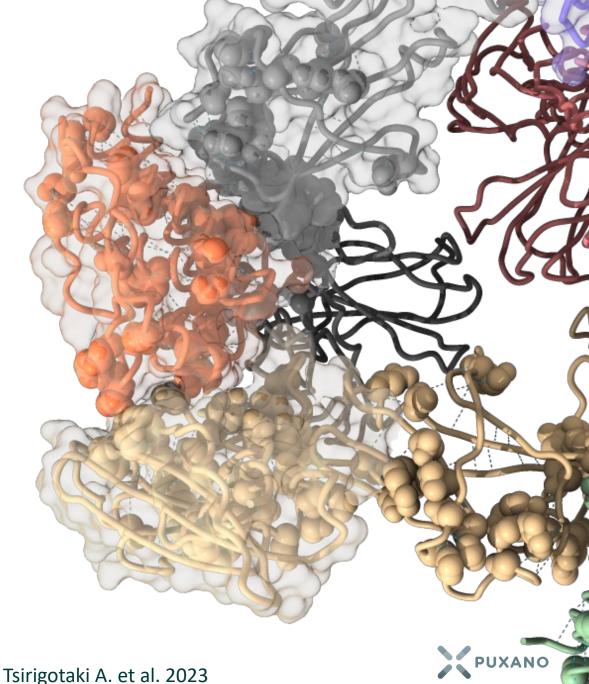
PUXANO

PUXANO functions as a platform-based CRO, focusing on:

- Protein engineering and design
- Structure-based protein research
- Cryo-electron microscopy

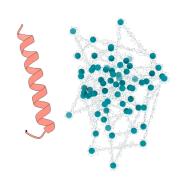
Dedicated to the development of:

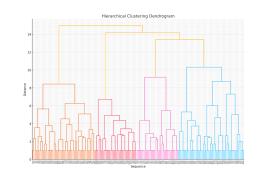
- Vaccines
- Protein-based therapeutics
- Biopesticides

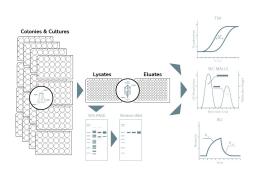


PLATFORM FOR TAILOR-MADE ANTIGEN DESIGN











DATA AGGREGATION

- **Epitopes**
- Structure
- Conservation
- **Patents**

- Combining epitopes Improving stability

FORMULATE

DESIGN

STRATEGIES

- Designing scaffolds
- **Immunogenicity**

IN SILICO

SELECTION

- Stability
- Biophysical

- **EXPERIMENTAL VALIDATION**
- Expression
- Thermo-stability
- Interaction assays
- Immune response

VALIDATION

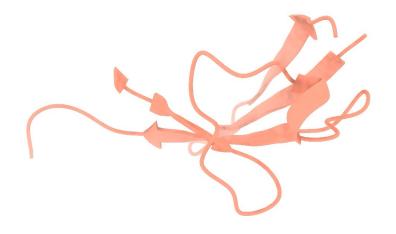
STRUCTURAL

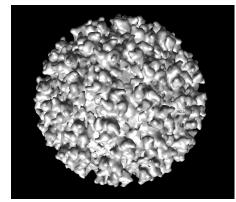
- **Proteins**
- **VLPs**
- LNPs

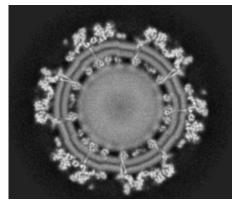


PLATFORM ADVANTAGES

- World-leading technology platform:
 - Al protein Design
 - Cryo-EM (proteins, VLPs, LNPs...)
- High-throughput experimental validation with in-depth biophysical characterization
- Tailor-made approach
- Multiple design strategies in parallel









BUSINESS MODEL: SERVICE PLATFORM

Phase I: CRO Services

HT protein expression and purification

Cryo-EM protein sample screening and protein structure determination

Cryo-EM Lipid nanoparticle characterization

Fee-for-Service

DESIGN-TO-STRUCTURE WORKFLOW

Protein Design

(Structure-guided, diffusion-based)

Cell expression

(HEK, E. coli, insect, plant)

Protein purification

(IMAC, SEC, SDS, WB)

Protein biophysics

(2xTSA, BLI, ITC, MALLS, CD)

CryoEM grid screening

(TALOS ARCTICA/F4i)

Hi-res studies

(Titan Krios/BioContinuum Imaging Filter/K3/F3)

Phase II: Partnerships

Partner-driven target R&D, from protein design to fully optimized and experimentally validated proteins that can act as antigens for vaccine development or protein Tx.

Upfront + Milestone Payment / Royalty %



SOME OF OUR PARTNERS







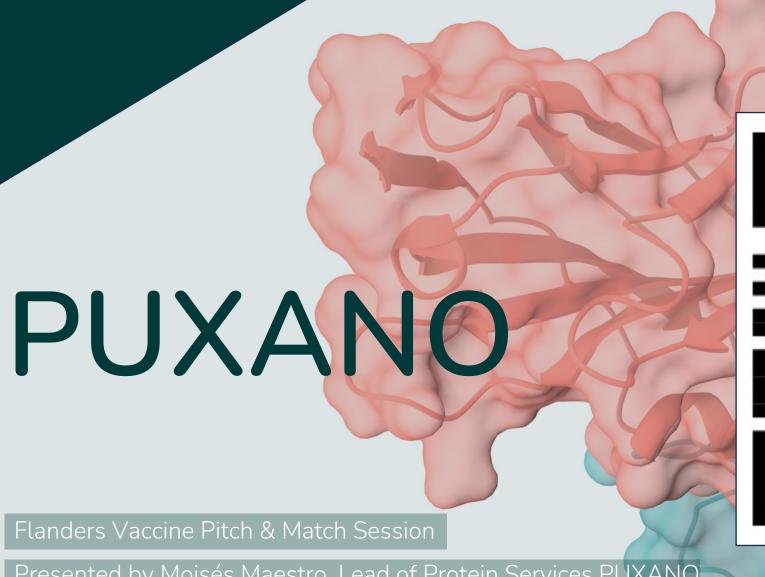












Presented by Moisés Maestro, Lead of Protein Services PUXANO

