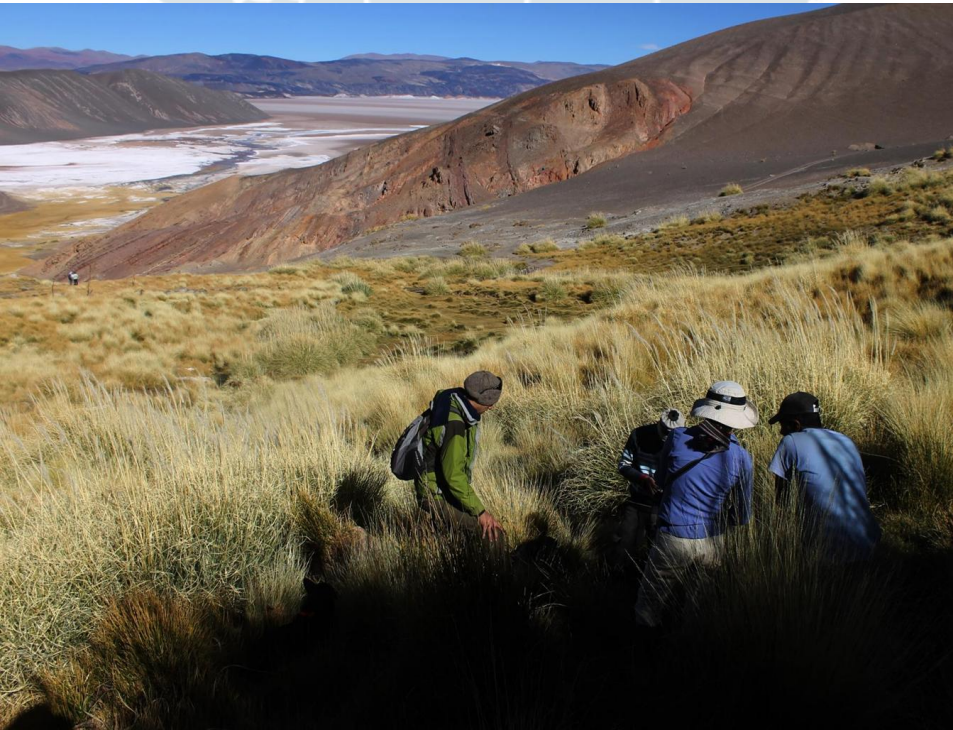


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Argentine Puna



INTRO - Why extremophiles?

Extremophiles have evolved for 3.5 billion years to optimize nutrient uptake under stress

EXTREME ENVIRONMENTS



High UV radiation



Heavy metals



Low / High temperatures



Low / High pH



Low nutrients



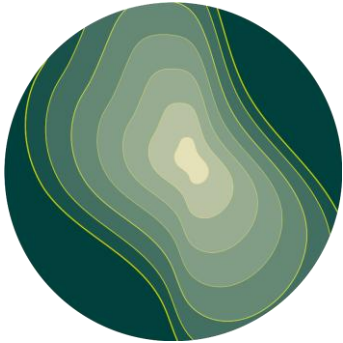
Drought

Puna Bio has developed a comprehensive R&D platform to develop biological inputs using extremophiles



VALUE PROPOSITION

Puna Bio' s extremophiles have unique properties



Increase nutrient availability	Nitrogen fixation Phosphate solubilization Iron uptake
Production of beneficial metabolites	Auxins Polyamines Enzymes
Higher colonization	Biofilm formation
Pathogen fungi inhibition	<i>Macrophomina,</i> <i>Sclerotinia, Fusarium,</i> and more



These **beneficial properties are exhibited (and some even enhanced)** under **stress**, such as drought, salinity or high UV radiation

Extremophiles have multiple market applications

Biofertilizers/Biostimulants

- Focus on **increasing yields** and **reducing chemical fertilizer use** (i.e. carbon footprint)

Beachhead market

Biocontrol

- Focus on **preventing fungal diseases** (biofungicides) **or pests** (bioinsecticides) and diminishing their negative effects

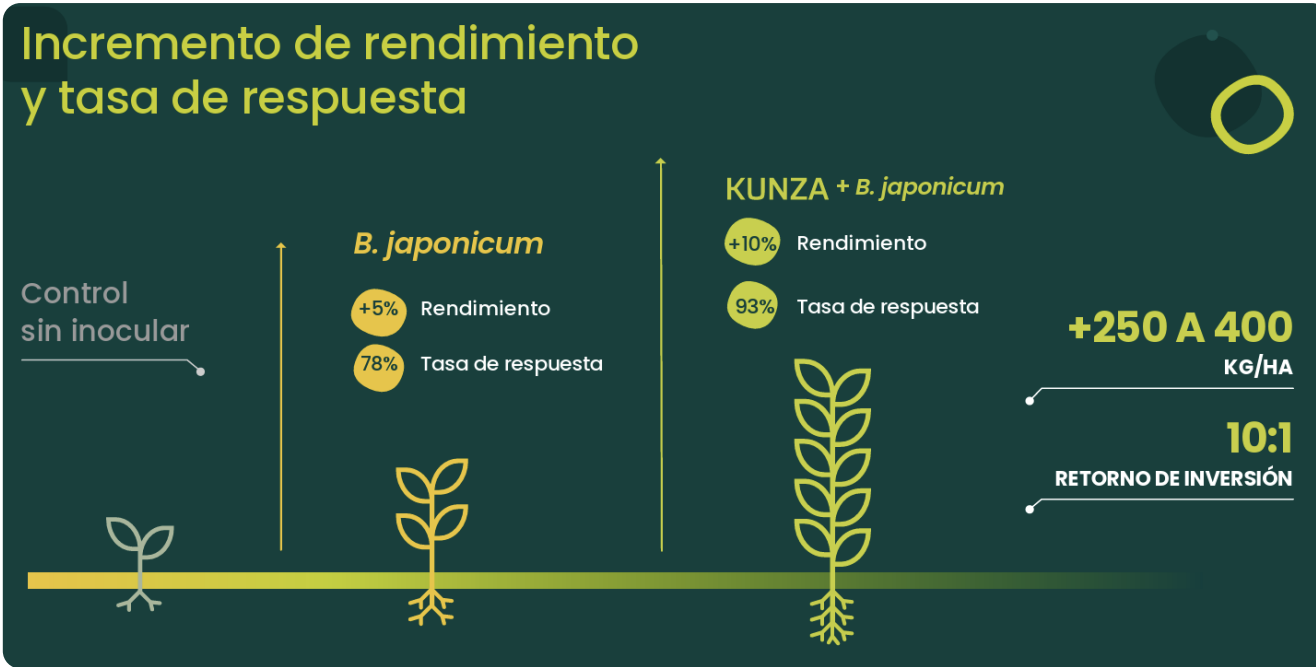
Portfolio complement

Soil recovery

- Extremophiles allow to grow crops in degraded soil, allowing for **land restoration, increase in land value** and **higher carbon retention**

End game

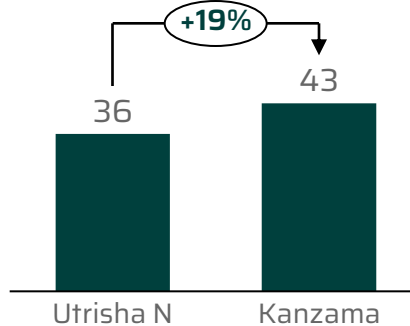
We commercially launched Kunza® for soybeans in Argentina



Our next product launch is an N-fixing product (wheat ST)

- **Obtained regulatory approval** for AR in March 2024 (Brand name: Kanzama)
- Average **yield increases of 10%**, with a **win rate of 92%** over two seasons of field trials (N=37)
- Potential **N reduction of up to 25%** in developed markets (N is a +\$100B market, responsible for 1/3 of agricultural emissions) –**larger N fixation than main players** in space (e.g. Corteva’s Utrisha N)
- **Formulation and scaling achieved**
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Ammonia production NH₄ ug/ mL



Global contender to disrupt
2.6 Gt CO₂ emissions
and **+\$100B market**

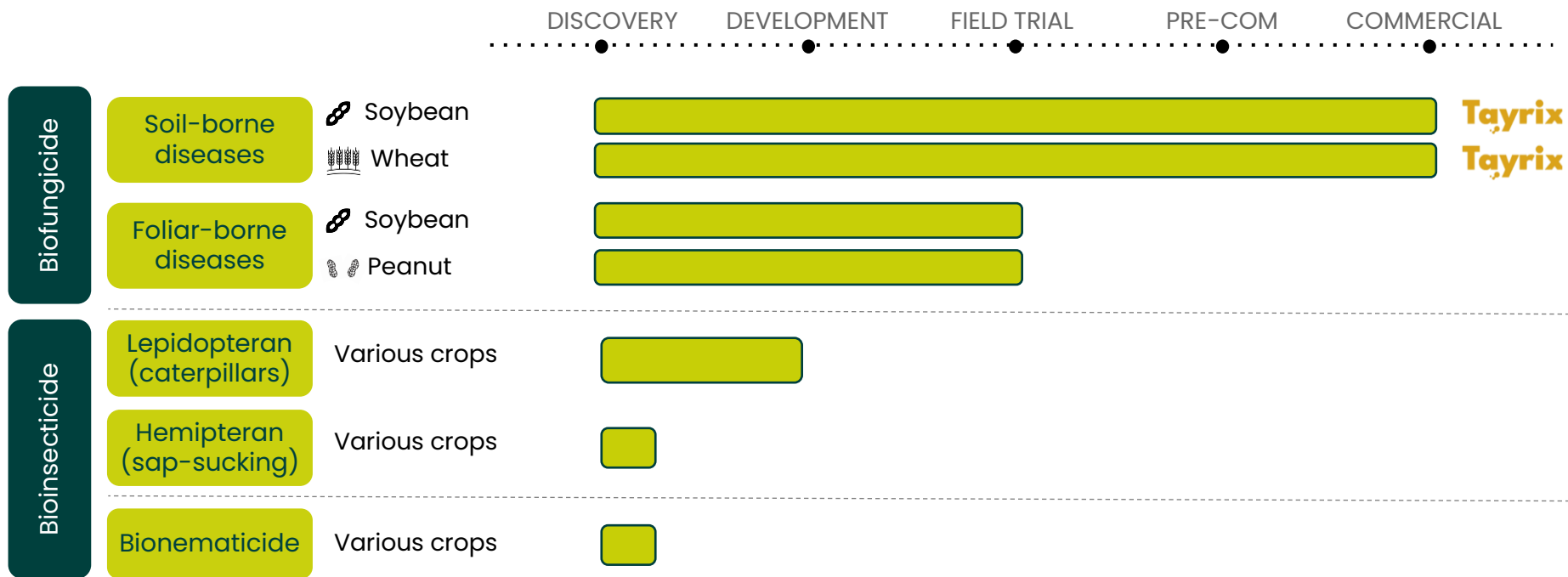


Puna Bio is developing a **full portfolio of biological inputs**



*Application method varies between seed, foliar and soil treatment depending on the crop.

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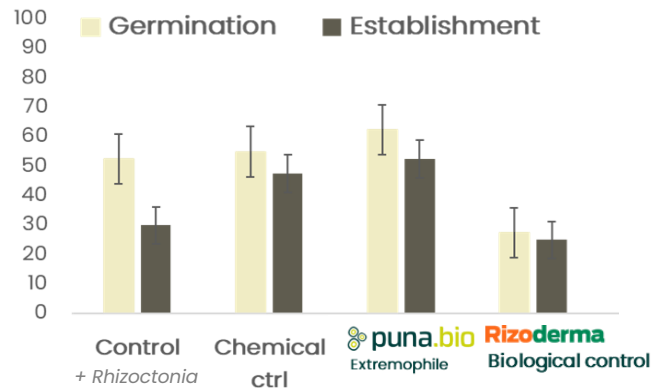
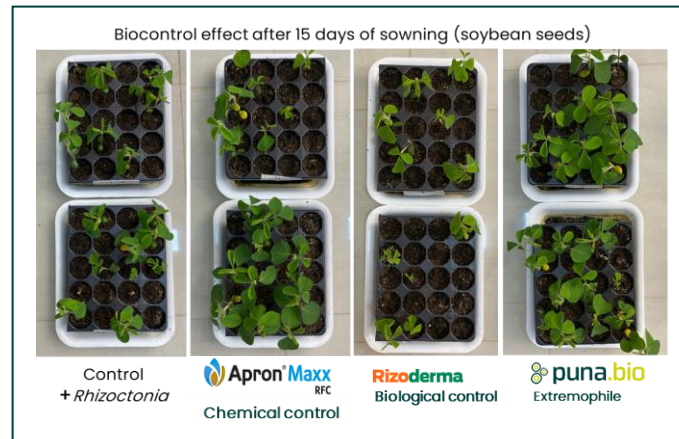
We have selected candidates for biofungicide product development

- We have validated the ability of our extremophiles to **inhibit the most relevant pathogens** in agriculture **more effectively** than current solutions

- Currently performing bioinformatics screening with AI research partner for **novel bioinsecticide development**

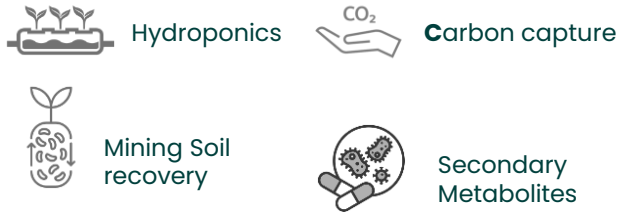
- Biocontrol is a **very underdeveloped segment in LATAM** (e.g. only one biofungicide approved in Argentina)

Detailed greenhouse trial info available

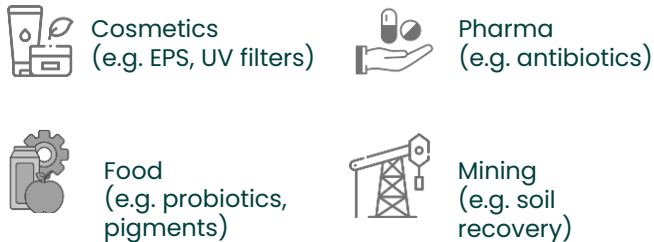


Puna Bio's **unique strain collection** harbors immense potential for expansion across various industries

Example current use cases



Potential industries



Frontier science development stages

1 Proof of concept development

We develop an early proof of concept using either extremophiles or metabolites from our collection

2 Partner selection and R&D agreement

We validate & monetize our technology through R&D collaborations and/or licensing agreements with key players of target industries

3 Commercial licensing / New business unit / Spin-off companies

Once products are developed and ready to market, we evaluate if we want to pursue its commercialization or partner with players in the space. New companies could also arise from developments in this area.

PBCC

Puna Bio
Culture
Collection



Our Team - Founders



CEO

Franco Martinez Levis, MBA



CSO

Elisa Violeta Bertini, PhD.



**Head of Lab
Operations**

Carolina Belfiore, PhD.



**Head of Frontier
Research & Prospection**

María Eugenia Farías, PhD.



Our Team - Management



Marketing Manager

Justina Dhers

7yr. Marketing experience at Monsanto, led Nutrien's Branding & Communication for Latam South region



Head of People

Juan Thorne

4yr HR exp. in Novozymes, led HR at a regional level at Tecnoseeds (seed company)



Head of Regulatory

Silvia Lede

7yr Regulatory affairs at Monsanto and BASF, +6 years as consultant for several agricultural companies



Commercial manager

Jorge Darío Hernandez

+20 years of experience in the agribusiness industry at BASF, Syngenta, and ADAMA. MBA-IAE.



Puna Bio Research Center



