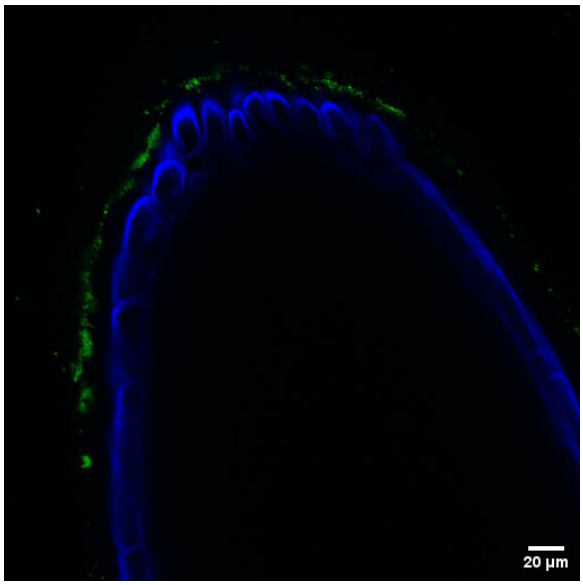
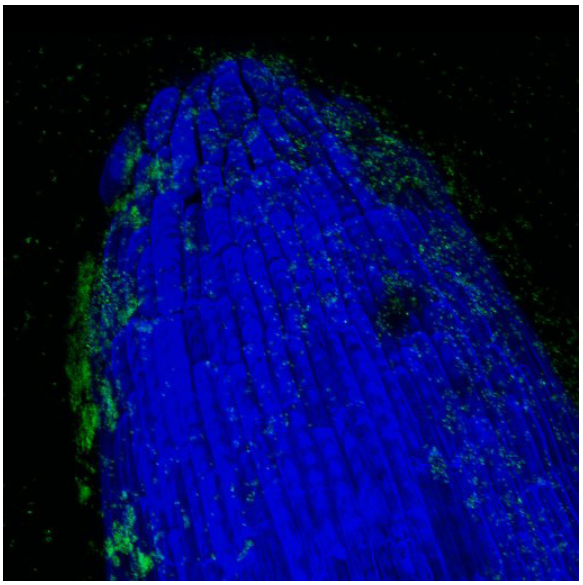
Kula Bio®

Nitrogen Production. Reimagined.

Kula Bio harnesses and amplifies the natural capabilities of *Xanthobacter autotrophicus*, a nitrogen-fixing microbe. They live in the root zone, converting nitrogen from the air into a plant-available form.





Root Tip *X. autotrophicus*

Precision Nitrogen, Peak Performance



Untreated Control



X. autotrophicus

Rapid Root Association
Though *Xanthobacter autotrophicus* can be free living in the soil, it quickly gravitates toward root systems, forming strong associations within days of application

Responive to Growth
As roots grow, *Xanthobacter autotrophicus* grows with them — continually colonizing roots to maintain proximity to active nutrient exchange zones

Active Nitrogen Fixation at the Root Zone
In exchange for carbon-rich root exudates, *Xanthobacter autotrophicus* provides the plant with a steady supply of nitrogen

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