博士論文発表会（公聴会）
Doctoral Thesis Presentation (Public Hearing)

Physiological Responses and Variation of Rhizobacterial Community to Phosphorus Deficiency in Distinct Root Architectures of Lupins

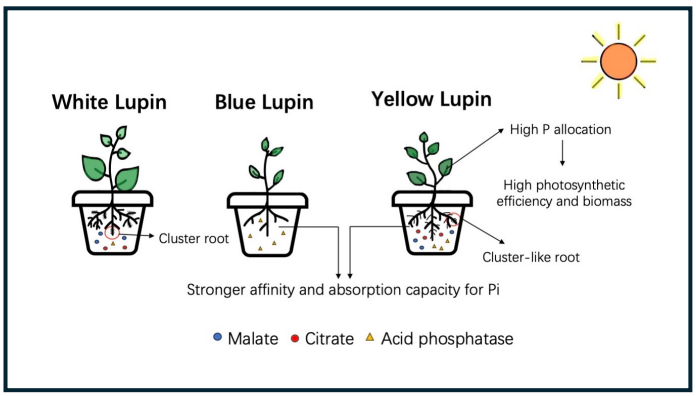
（異なる形態の根を持つ３種のルーピンにおけるリン欠乏への生理応答と根圏細菌群集の変動）

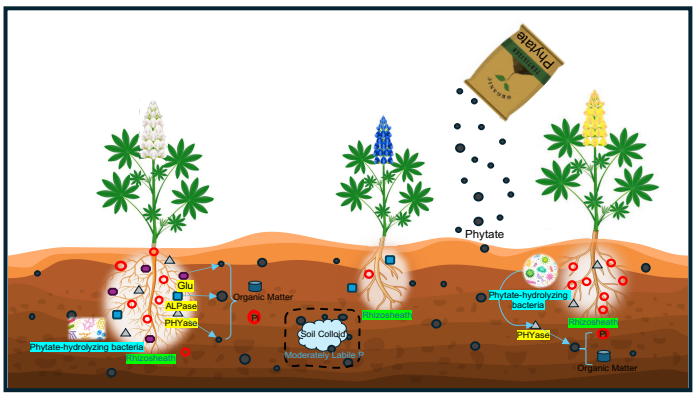
王　瑞昕 (WANG, Ruixin)

Time: August 6, 2024 (Tuesday) 10:30-
Place: K208, School of Integrated Arts and Sciences
(総合科学部K208講義室)

Main Conclusion

- ✓ Blue lupin showed significant inhibition under P-deficient conditions.
- ✓ After hydroponic P-deficient cultivation, yellow and blue lupins have greater affinity for Pi than white lupin.
- ✓ White lupin can secrete more organic acids and elevate phosphatase activities to cope with P scarcity.
- ✓ Increased bacterial richness in the rhizosheath of white and yellow lupins can promote the mineralization of organic P.





Contact; お問い合わせ
Jun WASAKI (和崎 淳)
E-mail: junw@hiroshima-u.ac.jp, Tel: 082-424-2048