

Development of micro-zymography: microscopic visualization of enzymatic activity in soil aggregates and Zea mays L. root

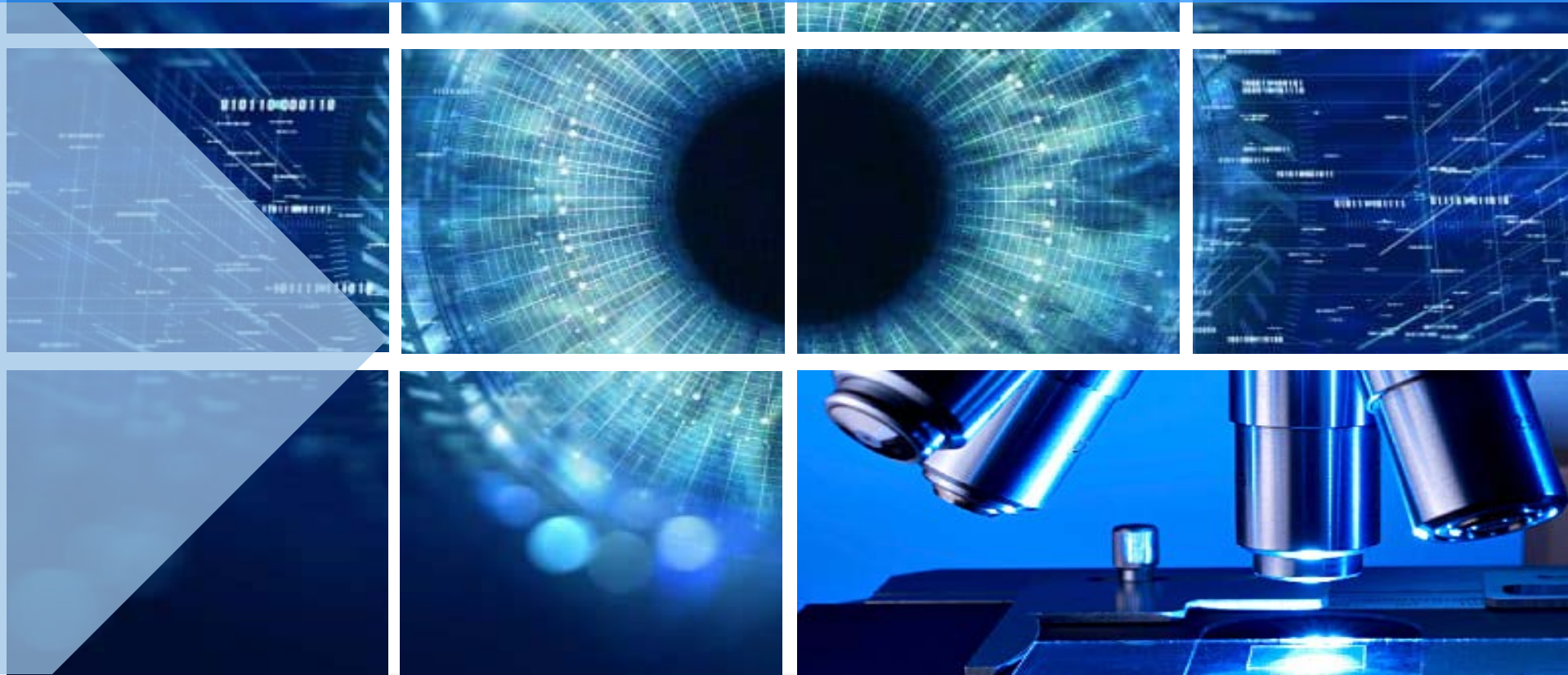
Negar Ghaderi

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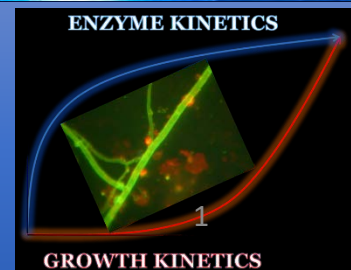
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EGU General Assembly
23-27 May 2022



Methodology



Phosphatase activity visualization

Microscopic studies



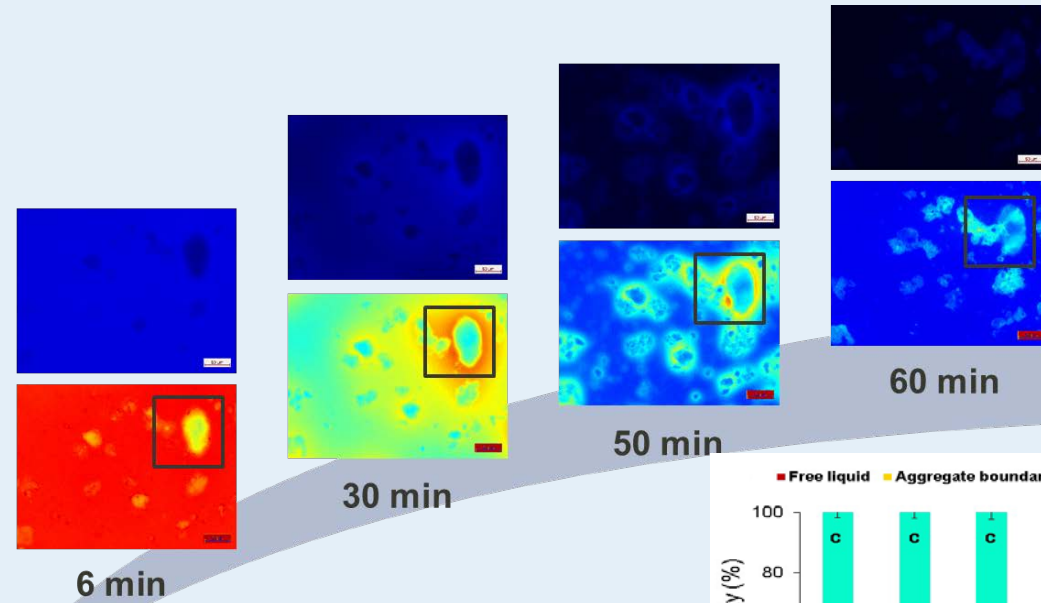
Rhizobox

Rhizosphere soil of maize

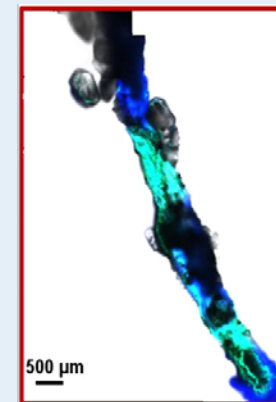
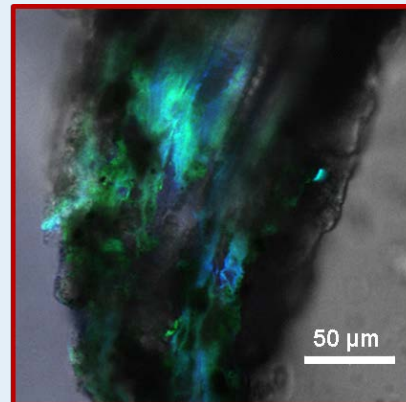
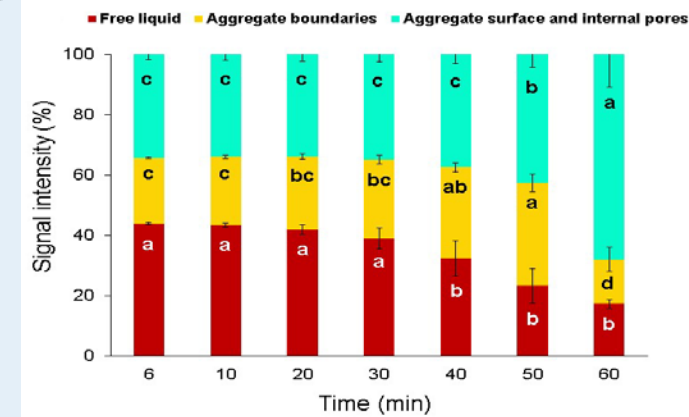
Loamy soil

<https://doi.org/10.5194/egusphere-egu22-7128>

Results



Development of fluorescence signals shifted from liquid phase to the aggregate boundaries and finally concentrated at the surface of aggregates



Patchy distribution of active enzymes along the rhizoplane