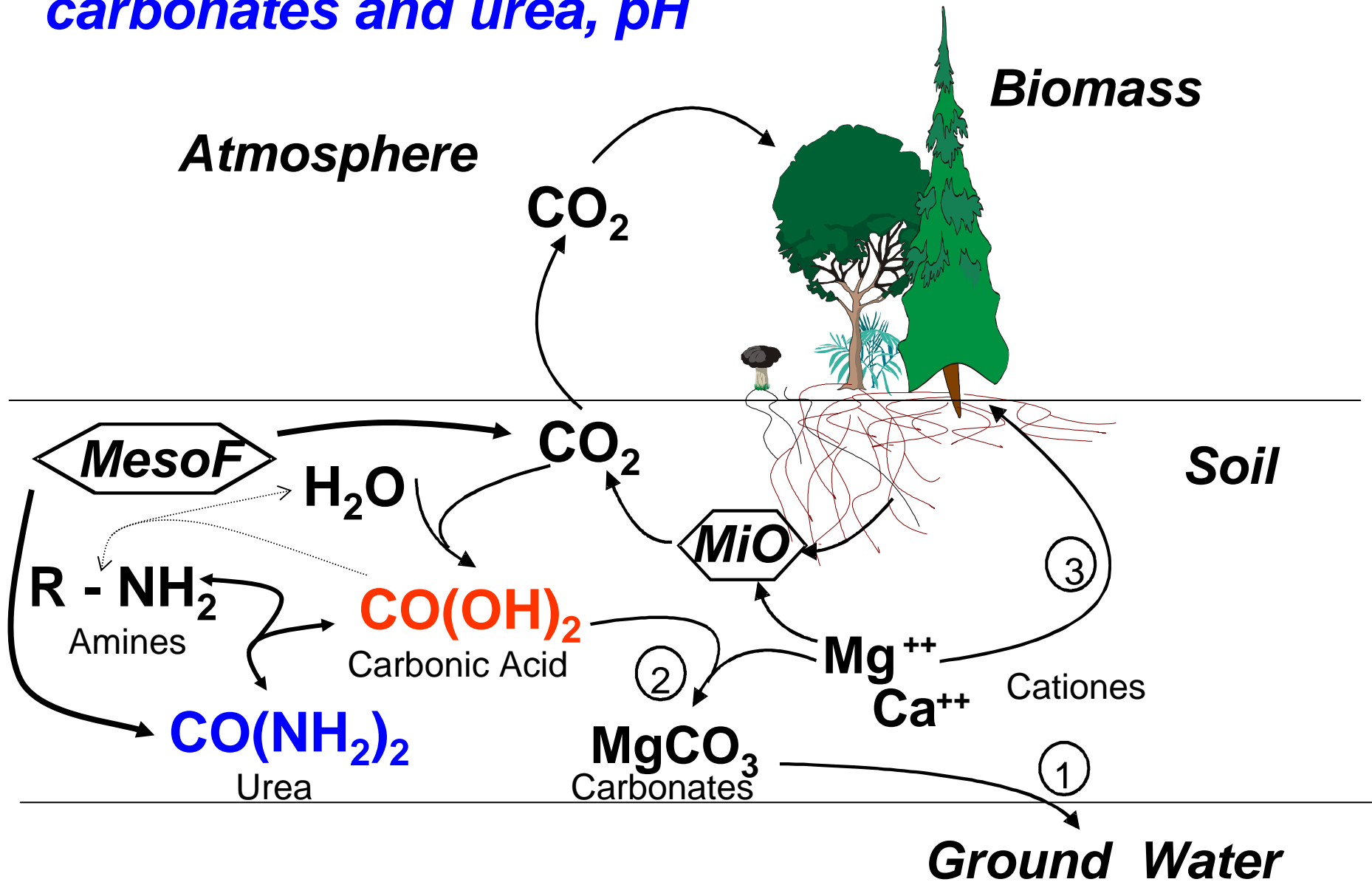
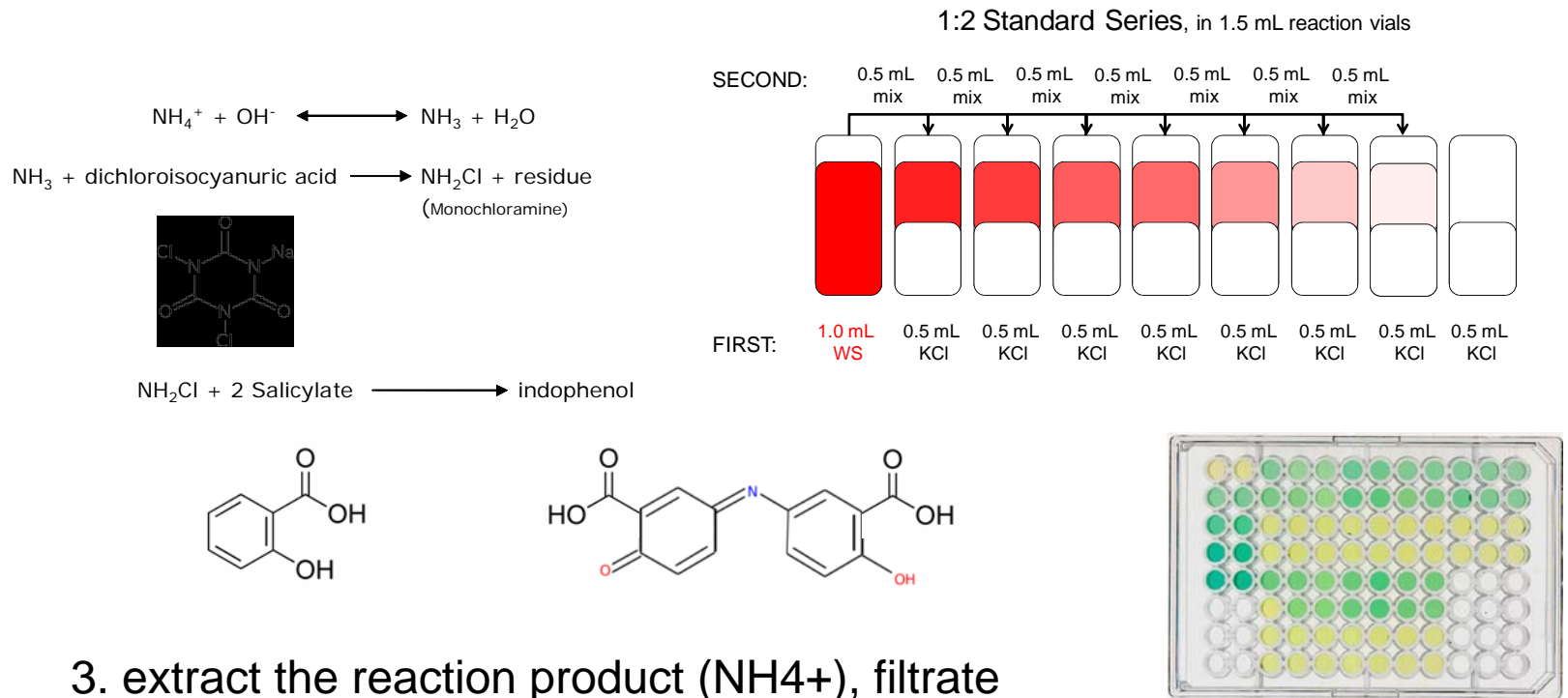


# basal C/N transfer mechanisms in the soil system: *carbonates and urea, pH*



## enzyme assay SOP: **UREASE** (urea deaminase) activity

1. add substrate (urea) to “full” samples and demin.water to “blind” samples
2. Incubate at 37°C for 2h
- 2.a prepare the standard solution stock and the calibration points



3. extract the reaction product (NH<sub>4</sub><sup>+</sup>), filtrate
5. add color reagent (mixed solution) to aliquotes of all samples and calib.
6. measure the absorption in microplates
7. calculate for complete assay volume and soil sample weight

# Mikroplate Photometer, NH4 Assay (Urease)

