

# Examples: Imagery-correlated high precision stable isotope analysis

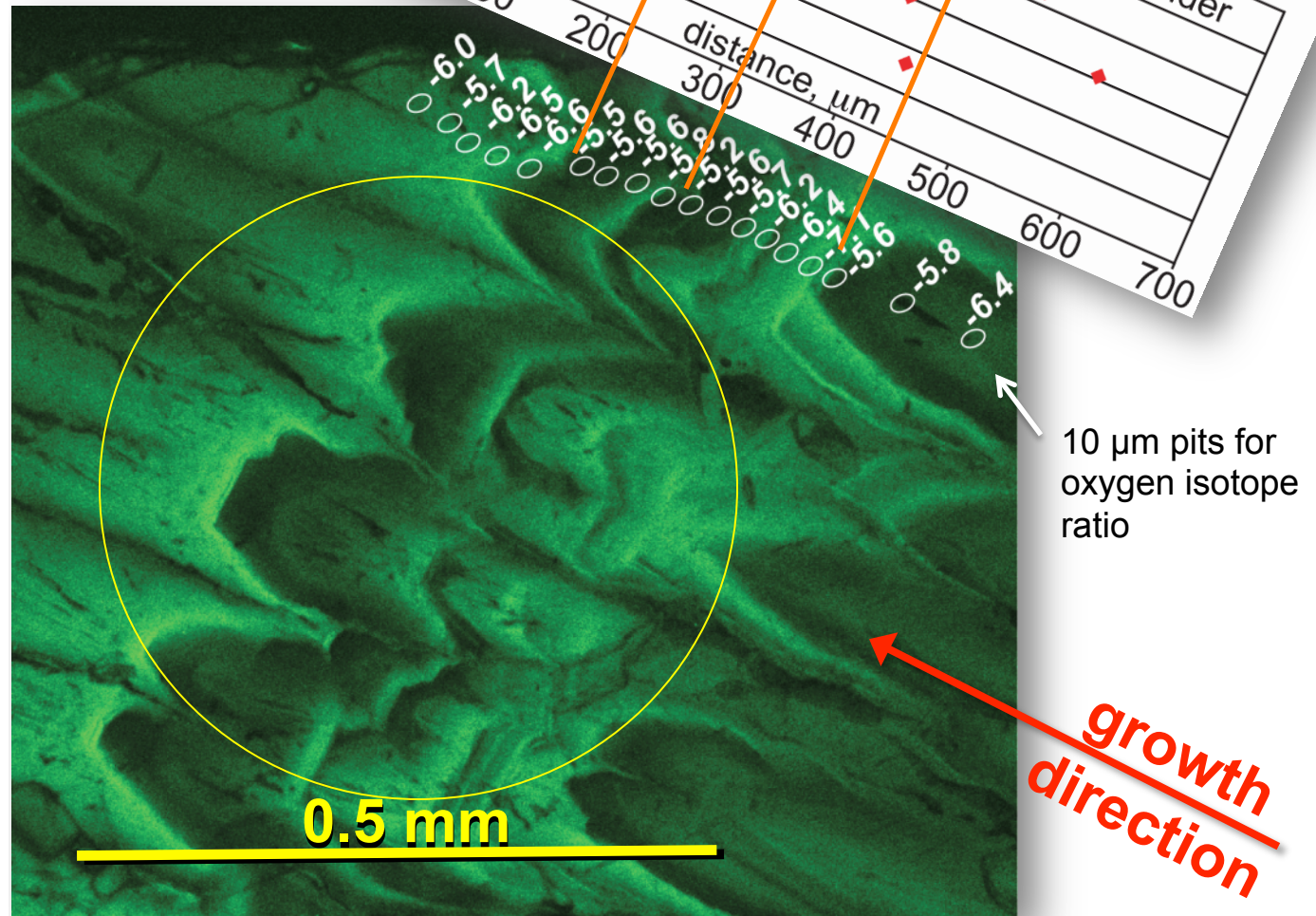
CAMECA

IMS 1280

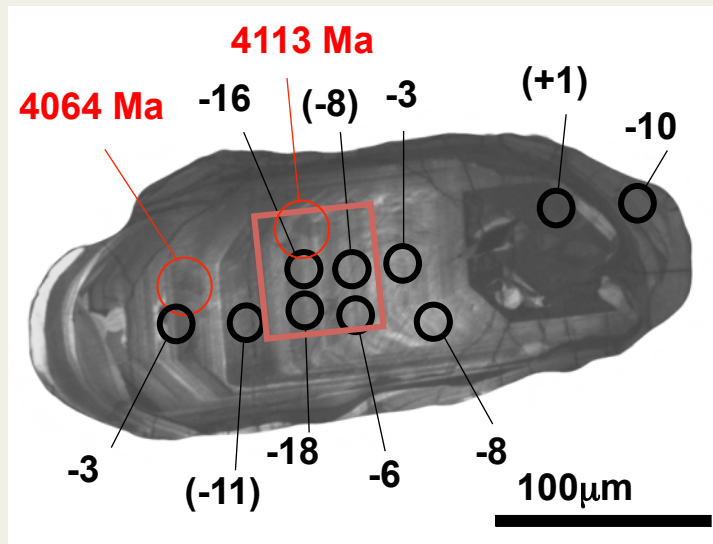


# Speleothem calcite

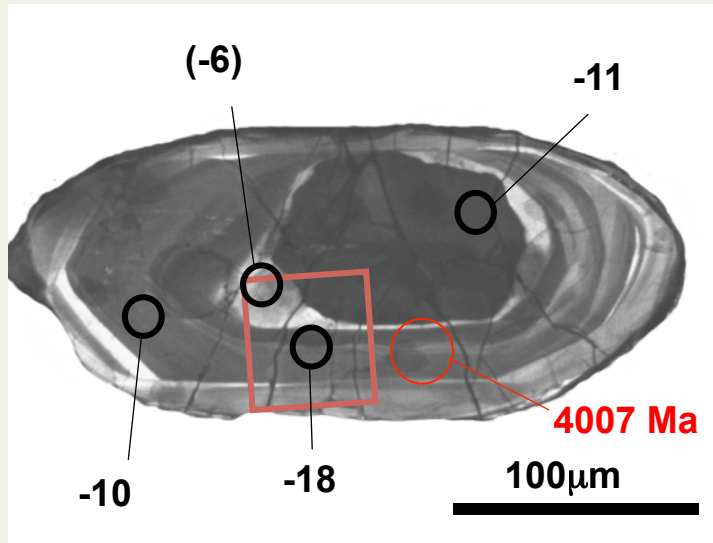
Laser confocal microscope image enhances annual growth bands



**Correlated: CL,  $\delta^7\text{Li}$  & U-Pb age in zircon**

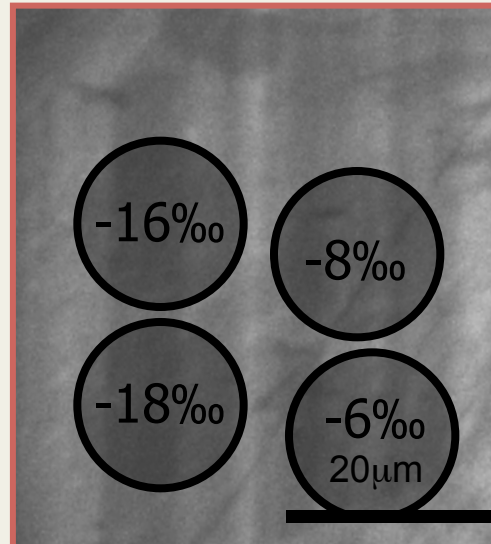


$\delta^7\text{Li}$  correlates with CL domain

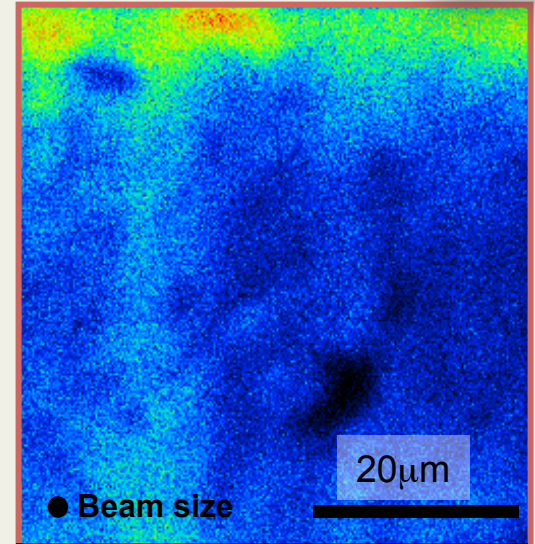


**(Enlarged view)**

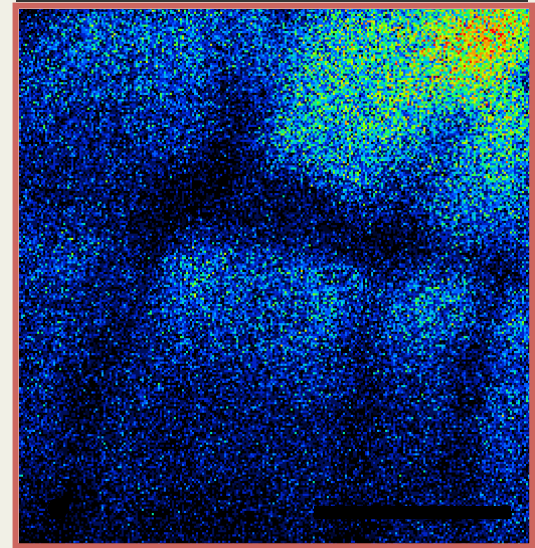
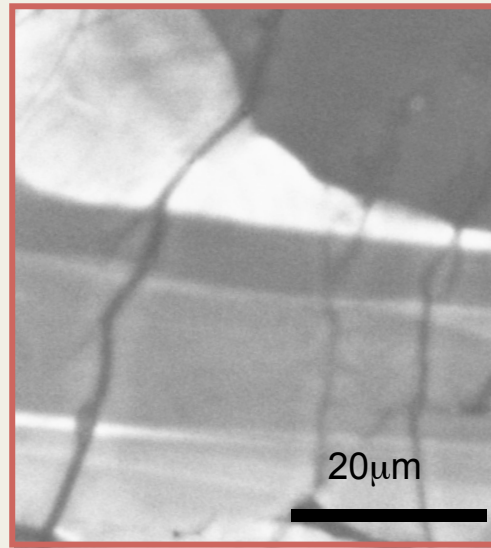
CL



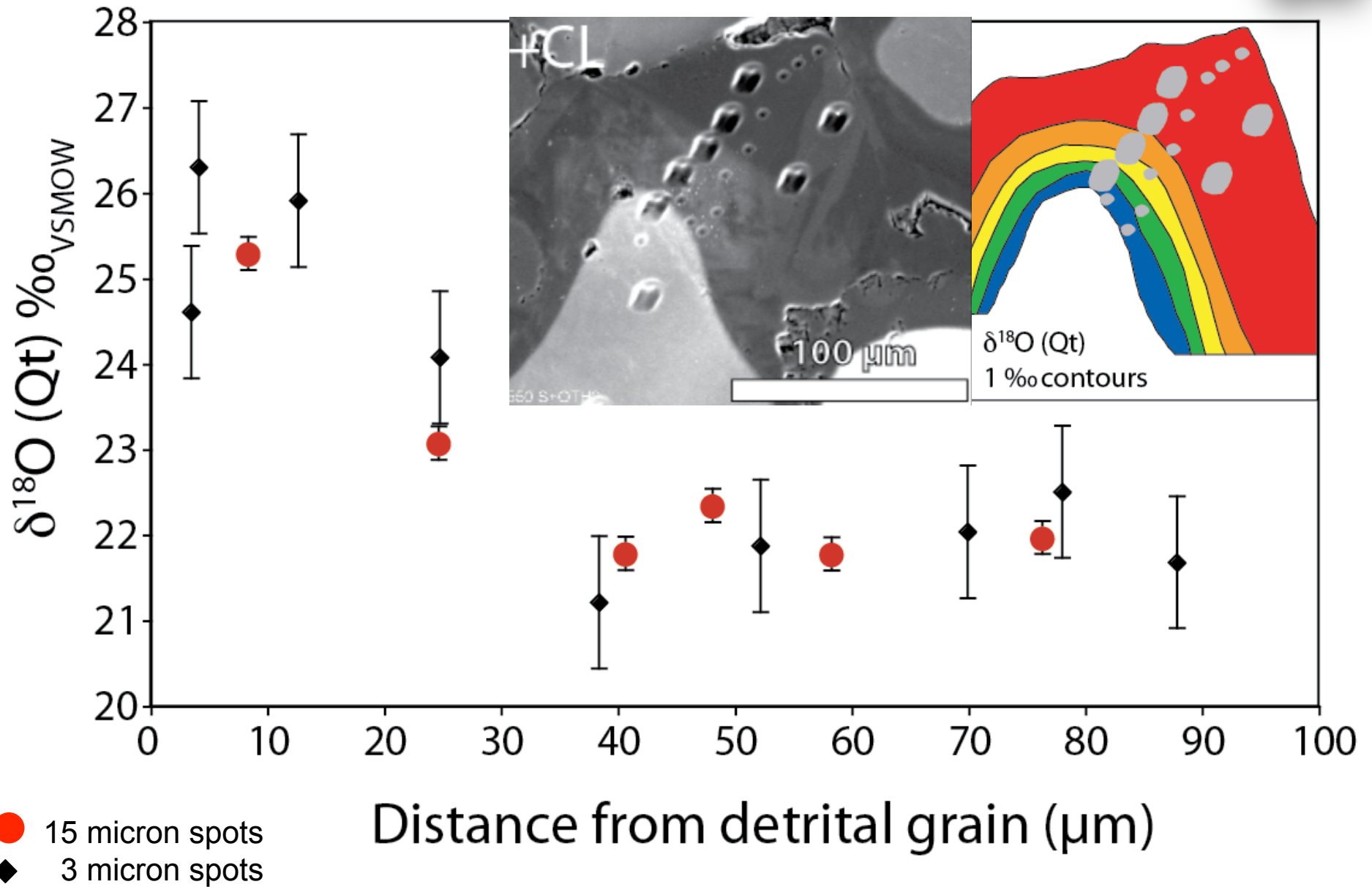
Li mapping



Li concentration correlates with CL domain



# Example: zoning of oxygen isotope ratios in quartz overgrowths





# Fish otoliths

