

**Metasomatism of the Hida Gaien belt indicating the subduction initiation of paleo-Pacific plate at ca. 520Ma**

# Keitaro Kunugiza[1]

[1] Human Develop, Univ of Toyama

The subduction initiation of hot young paleo-Pacific Plate resulted in hydrothermal metasomatism to form jadeitite and actinolitic rocks in a newly formed mantle wedge. U-Pb dating of zircon in jadeitite shows that the change from passive margin to active margin of paleo-Pacific Plate took place at ca. 520Ma, followed by the formation of high pressure metamorphic belt of less than 400Ma.