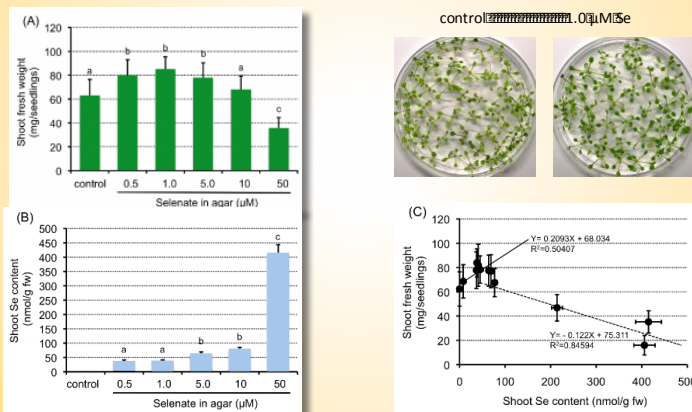


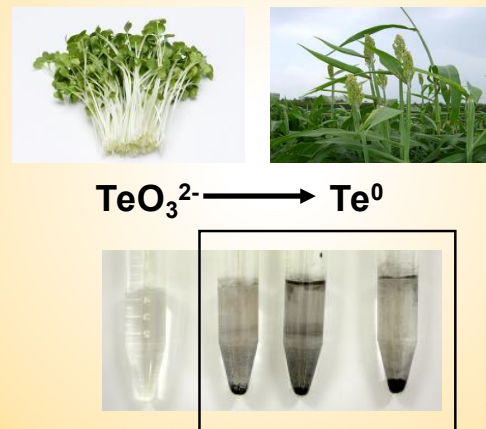
# Study on construction of plant metal biotechnology aiming for resource recovery and cleaning -up contaminants from environments (Associate Prof. Toru TAKEDA, t\_takeda@nara.kindai.ac.jp)

## Research Area

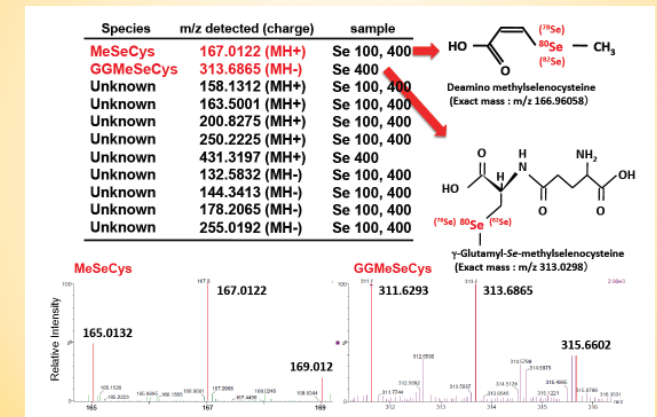
### 1. Elucidation of physiological function of rare metal in plant.



### 2. Elucidation of tellurite specific reduction system.



### 3. Isolation of novel rare metal compounds in plant.



## Recent Activities

- Takeda, T. Selenium is involved in the detoxification of methylglyoxal in *Arabidopsis* seedlings. *Biomed. Res. Trace Elem.* 27, 125-131 (2016)
- Takeda, T., Kondo, K., Ueda, K. and Iida, A. Antioxidant responses of selenium-enriched broccoli sprout (*Brassica oleracea*) to paraquat exposure. *Biomed. Res. Trace Elem.* 27, 8-14 (2016)
- Takeda, T. Post-translational activation of non-selenium glutathione peroxidase of *Chlamydomonas reinhardtii* by specific incorporation of selenium. *Biochem. Biophys. Rep.* 4, 39-43 (2015)