

Chemical Safety and Environmental Chemistry



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| Keywords | Ecosystems, Water environment, Ion exchange, Salt, <i>Daphnia</i> | | |
| Technical Support Skills | <ul style="list-style-type: none"> ▪ Evaluation of environmental effect ▪ Inorganic chemicals ▪ Ion exchange ▪ Investigation and measurement of fresh water | | |

Research Contents Evaluation of environmental safety for chemicals using *Daphnia*

- Evaluation of environmental toxicity for chemicals (using *Daphnia magna*).
- Study of environmental disruption induced by chemicals (using *D. magna*).
- Investigation and measurement of fresh water (pH, DO, EC, IC, ICP, AAS, *D. magna*) in Yamagata prefecture (especially Tsuruoka city).
- Waste water treatment (Chemical, Biological, and Physical method).
- Development of inorganic ion exchange materials.



ICP-OES SPS3500



ION CHROMATOGRAPHY ICS-1500



Daphnia magna



Resting egg

Available Facilities and Equipment

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| ICP-OES SPS3500 (Hitachi HighTech) | |
| Atomic Absorption Spectrophotometers Z5010 (Hitach) | |
| ION CHROMATOGRAPHY ICS-1500 (DIONEX) | |
| Gaussian W03 (Gaussian) | |
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