

## Environmental measurement by carbon-14 in leaves

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In the atmosphere there are carbon-14 that are produced by cosmic ray. On the other hand CO<sub>2</sub> is emitted to air by the consumption of fossil fuel, which doesn't include carbon-14. By this way we collected fallen leaves from different areas, and measured carbon-14 content included in leaves. By this, we investigated how local consumption of fossil fuel influences trees.

On the other hand, in JCO accident that happened in Tokai village (Ibaraki), neutrons were emitted to air. These neutrons must react with nitrogen in air and produce carbon-14. So we collected leaves around JCO, and investigated the influence to trees and air by this accident.