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Investigating differences in light stable isotopes between Thai jasmine rice and Sung Yod rice

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We report the differences in light stable isotopes between two kinds of Thai rice (Thai jasmine and Sung Yod rice). Thai jasmine rice and Sung Yod rice cultivated in the northeast and the south of Thailand. Light isotopes including ^{13}C , ^{15}N and ^{18}O of Thai jasmine rice and Sung Yod rice samples were carried out using isotope ratio mass spectrometry (IRMS). Thai jasmine rice (Khao Dawk Mali 105) was cultivated from Thung Kula Rong Hai area, whereas Sung Yod rice was cultivated from Phthalung province. Hypothesis testing of difference of each isotope between Thai jasmine rice and Sung Yod rice was also studied. The study was the feasibility test whether the light stable isotopes can be the variables to identify Thai jasmine rice and Sung Yod rice. The result shows that there was difference in the isotope patterns of Thai jasmine rice and Sung Yod rice. Our results may provide the useful information in term of stable isotope profiles of Thai rice.

Primary authors: Dr KUKUSAMUDE, Chunyapuk (Thailand Institute of Nuclear Technology); Dr KONGSRI, Supalak (Thailand Institute of Nuclear Technology (Public Organization))

Presenter: Dr KUKUSAMUDE, Chunyapuk (Thailand Institute of Nuclear Technology)

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