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Occurrence of tertiary branched tetraamines in two aquatic plants

Koei Hamana, Masaru Niitsu (新津 勝) and Keijiro Samejima (鮫島啓二郎)

¹School of Health Sciences, Faculty of Medicine, Gunma University, Maebashi, Gunma 371-8514; ²Faculty of Pharmaceutical Sciences, Josai University, Skado, Saitama 350-0295,Japan

Four aquatic plants were tested for the occurrence of unusual polyamines by high performance liquid chromatography and gas chromatography. The whole plants ubiquitously contained norspermidine, homospermidine, norspermine, and thermospermine in addition to usual polyamines such as diaminopropane, putrescine, spermidine, and spermine. *Pistia stratiotes* L. and *Potamogeton distinctus* A. Bennett contained aminopropylhomospermidine. Caldopentamine was detected in the former plant.Homospermine was found in *Ranuculus aquatilis* L. Two tertiary branched tetraamines, *N*⁴-aminopropylnorspermidine and *N*⁴-aminopropylspermidine, were detected in *Potamogeton distinctus* and *Sagittaria trifolia* L.