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# Distribution fitting 12. Sampling distribution of compounds abundance from plant species measured by instrumentation. Application to plants metabolism classification

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A series of ten plant species belonging to Magnoliopsida - Dicotyledons class were analyzed in terms of chemical compounds distribution of abundance, starting from the assumption that these distributions should give a picture of similarities and differences between plants metabolism. From a pool of theoretical distributions, log-normal distribution was selected giving the best accuracy with the modeled phenomena and agreement with the observed data. From obtained lognormal distributions statistics a classification were constructed and were compared with the classification based on phylogeny.

Comments: 8 pages, 3 tables, 3 figures; lognormal distribution, combining independent tests of significance, plants classification systems

Subjects: **Applications (stat.AP)**

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