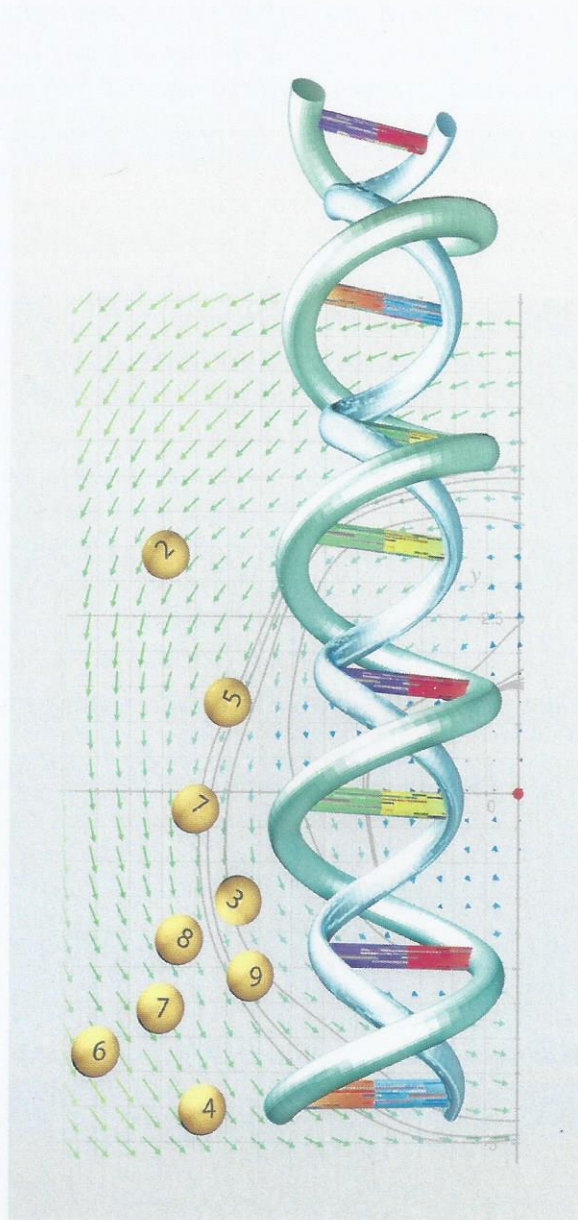


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Variation in Pb accumulate by digestive gland of octopus capture in different localities in Portugal

by

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Octopuses landed from commercial fishing were sampled in three localities of Portugal, Viana do Castelo in the north, Cascais in center and St. Luzia in south coast in autumn. The concentrations of lead were determined using PIXE (Particle-induced X-ray emission). The preliminary results of Viana and Cascais were already published (Seixas et al., 2002). The concentration and total amount in digestive gland were not correlated with weight and total length of animal, maturity and sex. The only correlation found is a negative correlation between concentration and total amount with condition factor (determined by digestive gland index).

Keywords: Lead, pollution, heavy metal, octopus

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Markov Chains Model: an application to banking sector

by

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Statistical techniques in banking fields pay an important role on clients segmentation analysis. Considering the environment where clients have a crucial function on business rentability it seems relevant to study measures and behaviour indicators in the course of time. In our work we intend to research the way to use Transition Probability Matrices based on Markov Chain classical model, in order to analyse client intern population subjected to periodical reclassification.

Keywords: Clients, Transition Probability Matrices, Limit Probabilities, Markov Chains Model

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