

Estimation of heterogeneity of general population and its application for investigation of tumour cells

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In the paper [1] new concepts of empirical distribution function and Quetelet's curve are proposed. These concepts allow us to estimate the heterogeneity of general population, i.e. to determine the number and portion of its of subpopulations. The test for heterogeneity of general population is formulated.

In addition this test is applied to the investigation of radioresistant tumour cells of Guerin's carcinoma in rats and to chemoresistant cells of squamous carcinoma of the oral cavity in humans.

References

- [1] R.I.Andrushkiw, A.German, D.A.Klyushin, Yu.I.Petunin, M.Yu.Savkina - Stratification of general populations and its applications for analysis of resistant tumour cells. *Proc. of Internat. Confer. on Math. and Engineering Techniques in Medicine and Biological Sciences , Los Vegas, USA , 1* (2003), p. 490-94.