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Research interest: Mathematical and applied statistics; Stochastic processes; Mathematical modelling in biomedicine

## Recent publications:

- [1] A. Čukušić, N. Š. Vidaček, M. Huzak, M. Ivanković, I. Rubelj "Telomere Q-PNA-FISH - Reliable results from stochastic signals", **PLoS One.** **9** (3) (2014) e92559.
- [2] J. Kralj, J. Flousek, M. Huzak, D. Ciković, Z. Dolenc "Factors affecting the goldcrest/firecrest abundance ratio in their area of sympatry", **Annales zoologicae fennici.** **50** (2013), 333-346.
- [3] R. Horvat-Bokor, M. Huzak, N. Limić "Estimation of the killing rate parameter in a diffusion model", **Math. Comm.** **17** (1) (2012), 171-185.
- [4] M. Mladinić, N. Kopjar, M. Milić, A. B. Dasović, M. Huzak, D. Željezić "Genomic instability in a healthy elderly population: a pilot study of possible cytogenetic markers related to ageing", **Mutagenesis.** **25** (5) (2010), 455 - 462.
- [5] N. Š. Vidaček, A. Čukušić, M. Ivanković, H. Fulgosi, M. Huzak, J. R. Smith, I. Rubelj "Abrupt telomere shortening in normal human fibroblast", **Exp. Gerontol.** **45** (3) (2010), 235 - 242.

## Selected publications:

- [1] Ž. Bajzer, M. Huzak, K. Neff, F. G. Pendergast "Mathematical analysis of models for reaction kinetics in intracellular environments", **Math. Biosci.** **215** (2008), 43 - 51.
- [2] D. Mitrečić, M. Huzak, M. Ćurlin, S. Gajović "An improved method for determination of gene copy numbers in transgenic mice by serial dilution curves obtained by real-time quantitative PCR assay", **J. Biochem. Bioph. Meth.** **64** (2005), 83 - 98.
- [3] M. Huzak, M. Perman, H. Šikić, Z. Vondraček "Ruin probabilities for competing claim processes", **J. Appl. Probab.** **41** (3) (2004) 679 - 690.
- [4] M. Huzak, M. Perman, H. Šikić, Z. Vondraček "Ruin probabilities and decompositions for general perturbed risk processes", **Ann. Appl. Probab.** **14** (2004) 1378 - 1397.
- [5] M. Huzak, "A general theorem on approximate maximum likelihood estimation", **Glas. Mat.** **36** (56) (2001), 139 - 153.