

STOYCHO N. METODIEV

PERSONAL INFORMATION:

Office Address:

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**Department Chair Department Genetics, Animal breeding and
Reproduction, Agricultural Faculty, Trakia University – Stara Zagora**

WORK / TEACHING EXPERIENCE:

- 2000 - to present Associated Professor of Animal Breeding
Teaching Animal Breeding BSci, Aquaculture breeding,
BSci, Livestock breeding basics, BSci, Horse breeding
MSci, Reproductive biotechnologies Msci. to students of
the Agricultural Faculty
- 2008-2010 Teaching Applied biotechnologies in Animal breeding
MSci students of Agricultural University, Plovdiv
- 2009-2011 Coordinator for Study abroad program in Bulgaria for
students from Agricultural and Veterinary Colleges of
Iowa State University -USA.
- 1983 – 2000 Assistant Professor at Department of Genetic and
Animal Breeding, Agricultural Faculty, Thracian
University, Stara Zagora (former Higher Institute of
Zootechnics and Veterinary Medicine), Stara Zagora,
Bulgaria.
Teaching Animal Breeding and Principles of Animal
Genetics and Selection to students of the Agricultural
Faculty

EDUCATION AND TRAINING:

- 1992 Ph.D. Animal Breeding, Department Genetic
and Animal Breeding, University of Zootechnics
and Veterinary Medicine, Stara Zagora, BG,
D.Sc. I. Venev, major professor.

- 1977-1982 M.Sc. Animal Sciences, with emphasis on Animal Breeding and Genetics, University of Zootechnics and Veterinary Medicine. D.Sc. I. Venev, major professor.
- 1997 Retraining and updating on Animal Breeding and Genetics (IMG TEMPUS) - Institute of Cell, Animal and Population Biology, The University of Edinburgh (2 months), D. Sc. W.G. Hill major professor.
- 1998 Postgraduate course on "The Design and Economics of Animal Breeding Strategies" Prof. Johan van Arendonk, Animal Breeding and Genetics group, Wageningen Institute of Animal Sciences, Netherlands
Warsaw Agricultural University.
- 2005 Norman E. Borlaug International Agricultural Science and Technology Fellowship Program at Iowa State University Pig Genome Laboratory. Application Molecular genetics / Genomics in Animal Breeding Prof. Max F. Rothschild – mentor. (4 weeks).

MAJOR RESEARCH INTEREST:

Genetics of reproduction in animals, genetic improvement litter size in pigs.
Gene mapping, gene markers, marker assisted selection applied to pig breeding programs
Selection experiments with laboratory animals - mice, Japanese quails.

RESEARCH EXPERIENCE:

Research project - Comparison between different methods of evaluation evaluating breeding value in boars. The project embraced comparison between on farm and station progeny test evaluation of growth and carcass traits of boars breeding value.
Research project - Genetics of reproduction in pigs, possibilities of selection on litter size in pigs. The project embraced investigation of effectiveness of different types of simulated selection on litter size in pigs - mass selection, family selection, within family selection, with different selection criteria and

at different levels of selection intensity.
Short term selection experiment in mice for selection on litter size also was part of the project.
Research project - Divergent selection experiment - selection on growth traits in Japanese quails, direct and correlated responses in carcass and reproduction traits.
Research project - Optimal breeding strategy for improving reproduction traits in Danube White breed.
Research project – Possibilities of application marker assisted selection in pig breeding programs

PROFESSIONAL AND SCIENTIFIC AWARDS:

2007 Price for High scientific achievement on the name of Acad. Stefan Kumanov - Agricultural Faculty , Trakia University Stara Zagora.

Scholarships and Grants:

1994 Scholarship for young scientists 5th World Congress on Genetics Applied to Livestock Production / Canadian International Development Agency.
1996 TEMPUS Individual Mobility Grant -Commission of the European Communities. EU
2005 Norman E. Borlaug International Agricultural Science and Technology Fellowship Program, USA

SELECTED PUBLICATIONS:

Metodiev, S. 1994. Selection for litter size in mice. *Proc. 5 th World Congress on Genetics Applied to Livestock Production*, Aug. 7-12 University of Guelph, Canada, Vol. 17, 491-494.

Metodiev, S., V. Nickolov 1998. Genetic effect on semen traits in bulls during different periods of use in AI station. *Proceedings of 8 th World Conference on Animal Production*, June 28 - July 4, Seoul National University, Korea, Contributed papers - Vol. II, 842-843.

Metodiev, S. and V. Drbohlav, 1998. Short-term divergent selection on five-week body weight in Japanese quail. Selection differentials. *Bulgarian Journal of Agricultural Sciences*, Vol. 4, 4, 491-497.

Metodiev, S. and V. Drbohlav, 1998. Short-term divergent selection on five-week body weight in Japanese quail. Selection effects. *Bulgarian Journal of Agricultural Sciences.*, Vol. 4, 6, 687-692.

Beja-Pereira, A., Luikart, G., England, P.R., Bradley, D.G., Jann, O., Bertorelle, G., Chamberlain, A. T., Nunes, T. P., **Metodiev, S.**, Ferrand, N., Erhardt, G. 2003. Gene-culture coevolution between cattle milk protein genes and human lactase genes.

Nature Genetics, Vol. 35, 4, 311-313. (IF 26.711)

Drbohlav, V., **S. Metodiev**, J. Dvorak. 2006. [Gene and genotype frequencies on RYR and ESR loci in Danube White pigs.]. *Zhivotnovudni Nauki*, 3, 50 -54.

Metodiev S., Drbohlav, V., I. Vrtkova. 2006. [Gene and genotype frequencies on FUT1 locus in Danube White pigs.]. *Zhivotnovudni Nauki*, 4, 33 -35

Metodiev, S., B. Mote and M. F. Rothschild. 2006. Mapping of the Porcine CCS and CCR7 Genes. *Bulgarian Journal of Agricultural Science*, 12, 153-157.

Stoyanova, S., Drbohlav, V., **Metodiev S.**, Dimitrov, S. 2010. [Genotypes of ESR and FUT1 loci and sperm quality traits of Danube White boars] *Zhivotnovudni Nauki*, 4, 52-57.