

Professor Stefka M. Delimitreva, PhD
 Medical university – Sofia, Department of Biology



Curriculum vitae

EDUCATION

Major specialty	Biotechnology	Faculty of Biology, University of Sofia "St. Kliment Ohridski", Sofia, Bulgaria	1997-1990
Master program	Gene and Cell Engineering	Department of Biochemistry, Faculty of Biology, University of Sofia "St. Kliment Ohridski", Sofia, Bulgaria	1990-1992
	Master Thesis	"Registration of circulating immune complexes and their antigen characteristics in patients with insulin dependent diabetes mellitus" - Laboratory of Molecular Immunology and Hybridomas, Department of Biochemistry, Faculty of Biology, University of Sofia "St. Kliment Ohridski", Sofia, Bulgaria	1992
PhD	Embryology	Department of Biology, Medical University of Sofia, Bulgaria	2001-2005
	Dissertation	"Chromosomal disorders, nuclear and cell destruction in preimplantation human embryos" - Laboratory of In Vitro Fertilization and Preimplantation Embryology, Department of Biology, Medical University of Sofia, Bulgaria	2005

INTERNATIONAL EXPERIENCE

Guest researcher at The German Primate Center, Department of Reproductive Biology, Goettingen, Germany	2005-2008
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ADDITIONAL QUALIFICATIONS

TEMPUS-course "Principles of Molecular Biology"	Medical University of Sofia	1994/95 academic year
Postgraduate qualification "Human Biology"	Medical University of Sofia	1995-1998
Modern Teaching Technologies	Medical University of Sofia	February 2000
In Vitro Maturation of Mammalian Oocytes	German Primate Center, Department of Reproductive Biology, Goettingen, Germany	January- March 2003

The cytoskeleton in development and pathology	European Cytoskeletal Forum and The Swedish Association for Cytoskeletal Research, Stockholm, Sweden	June 2010
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PROFESSIONAL HISTORY

Assistant Professor	Department of Biology, Medical University of Sofia, Bulgaria	1993
Head Assistant Professor	Department of Biology, Medical University of Sofia, Bulgaria	2002
Associate Professor	Department of Biology, Medical University of Sofia, Bulgaria	2012
Professor	Department of Biology, Medical University of Sofia, Bulgaria	2018
	Head of Department of Biology, Medical University of Sofia	2020

TEACHING EXPERIENCE

Laboratory practicals and seminars for medical, dental and pharmacy students in Bulgarian	since 1993
Lectures for medical, dental and pharmacy students in Bulgarian	since 2002
Laboratory practicals and seminars for medical, dental and pharmacy students in English	since 2002
Lectures for medical, dental and pharmacy students in English	since 2005

Teaching topics

- Biology of parasites with medical importance;
- Evolution and comparative anatomy of vertebrates;
- Molecular biology of the cell;
- Reproductive biology;
- Developmental biology;
- Genetics of populations;
- Essential immunology.

SELECTED PUBLICATIONS

- Delimitreva SM, Zhivkova RS, Vatev IT, Toncheva DI. Chromosomal disorders, nuclear and cell destruction in cleaving human embryos. *Int J Dev Biol* (2005) 49, 409-16.
- Delimitreva S, Zhivkova R, Isachenko E, Umland N, Nayudu PL. Meiotic abnormalities in in vitro-matured marmoset monkey (*Callithrix jacchus*) oocytes: development of a non-human primate model to investigate causal factors. *Hum Reprod* (2006) 21, 240-7.
- ДелIMITРЕВА С., Р. ЖИВКОВА, М. МАРКОВА, И. ВАТЕВ. Хромозомните грешки при овоцити и предимплантационни ембриони – естествена причина за ниската плодовитост при човека. *Ембриология* (2006) 1, 2, 16-22.
- ДелIMITРЕВА С. Мейотично зреење на овоцитите - взаимодействие на хроматина и цитоскелетните елементи. *Акушерство и гинекологија* (2010), 49(5):51-58.
- Tkachenko O.Y., S. Delimitreva, E. Isachenko, R.R.Valle, H.W. Michelmann, A. Berenson, P.L. Nayudu. Epidermal growth factor effects on marmoset monkey (*Callithrix jacchus*) oocyte IVM, IVF and embryo development are altered by gonadotrophin concentration during oocyte maturation. *Hum Reprod* (2010) 25(8):2047-2058.
- Nikolova V., I. Chakarova, R. Zhivkova, M. Markova, R. Dimitrov, S. Delimitreva. Comparison of in vitro matured oocytes from two inbred mouse strains and their F1 hybrids. *Embryology* (2012) 7, 1, 10-14.
- Delimitreva S., O.Y. Tkachenko, A. Berenson, P.L. Nayudu. Variations of chromatin, tubulin and actin structures in primate oocytes arrested during in vitro maturation and fertilization – what is this telling us about the relationships between cytoskeletal and chromatin meiotic defects? *Theriogenology* (2012) 77,1297-1311.
- Delimitreva S, E. Wedi, J. Bakker, O. Y. Tkachenko, V. Nikolova, P. L. Nayudu. Numerical chromosome disorders in the common marmoset (*Callithrix jacchus*) - comparison between two captive colonies. *J Med Primatol* (2013) 42, 177–185.
- Delimitreva S, Zhivkova R, Markova M. Natural causes for low human fertility – Review. *Austin J In Vitro Fertil* (2014) Volume 1, issue 2.
- Tkachenko O.Y., S. Delimitreva, M. Heistermann, J.U. Scheerer-Bernharda, E. Wedi, P.L. Nayudu. Critical estradiol dose optimization for oocyte in vitro maturation in the Common marmoset. *Theriogenology* (2015) May;83(8):1254-63
- Markova M, V Nikolova, I Chakarova, R Zhivkova, R Dimitrov, S Delimitreva. Intermediate filament distribution

- patterns in maturing mouse oocytes and cumulus cells. *Biocell* (2015), 39 (1) 1-7.
- Nikolova V, S Delimitreva, I Chakarova, R Zhivkova, V Hadzhinesheva, M Markova. Dynamics of lamins B and A/C and nucleoporin Nup160 during meiotic maturation in mouse oocytes. *Folia Biol (Prague)* 63, 6-12 (2017)
 - Nikolova V, M Markova, R Zhivkova, I Chakarova, V Hadzhinesheva, S Delimitreva. Karyosphere, the enigmatic “Surrounded nucleolus” of maturing oocytes. *Acta Morphologica et Anthropologica*, 24 (1-2) 78-84 (2017).
 - Tkachenko OY, S Delimitreva, E Wedi, U Scheerer-Bernhard, R Valle, P Nayudu. Effects of oxygen concentration in IVM/IVF on marmoset monkey oocyte maturation and embryo development. *Anim Reprod*, 14 (4) 1179-1178 (2017)
 - Tkachenko OY, JU Scheerer-Bernhard, S Delimitreva, EWedi, RR. Valle, M. Heistermann, PL Nayudu. A retrospective analysis of adverse effects of an in vivo fluoroquinolone antibiotic enrofloxacin treatment on oocyte quality in the common marmoset. *Reproductive Toxicology*, 75, 86-95 (2018)
 - Ivanovska N, S Delimitreva, P Ganova, R Zhivkova Transforming Growth Factor (TGF)-Beta Superfamily in Osteoarthritis and Ovaria: Dependent or Independent Expression. In: *Osteoarthritis. MedDocs International* 2018
 - V Hadzhinesheva, M Markova, S Delimitreva, I Chakarova, V Nikolova, R Zhivkova. Germ Cell Marker DDX4 (Vasa) Transiently Accumulates in Balbiani Body of Early Mouse Oocytes. *Acta morphologica et anthropologica*, 26, (1-2) 2019, 17-20.
 - М. Маркова, Р. Живкова и С. Делимитрева ЕВОЛЮЦИЯ НА ГРЪБНАЧНИТЕ И СРАВНИТЕЛНА АНАТОМИЯ НА СИСТЕМИТЕ ИМ. Реко, София 2019