Maya Dyankova Markova, PhD

Assoc. Prof. at the Department of Biology

Position at the Department:
2012 – present: Assoc. Prof.
2002 – 2012: Head Assist. Prof.
1994 – 2002: Assist. Prof.

Academic Degree:
PhD in Biology (Morphology).

PhD Thesis:
Cytoskeletal structures – analogs of intermediate filaments and their proteins in mammalian male gametes, presented in 2005.

Specialty:
Medical Biology, since 1998.

Education:
Master thesis: ELISA method for detection of autoantibodies associated with insulin-dependent diabetes mellitus, presented in 1994.
University education: 1989 – 1994, Sofia University St. Kliment Ohridski, Faculty of Biology, specialty Biochemistry and microbiology.
Specialization: Biochemist.
Secondary education: 1989, 19th Elin Pelin secondary school in Sofia.

Scientific interests:
In the area of cell biology, using mainly microscopic and immunocytochemical methods.

Personal site:
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Teaching materials for 1st year students:
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Selected publications:

Markova M., S. Delimitreva, A. Kolarov, R. Zhivkova. Impact of autoimmunity on oogenesis and ovarian morphology. Acta Morphol. Anthropol. 25 (1-2): 103-107. Journal site

Nikolova V., M. Markova, R. Zhivkova, I. Chakarova, V. Hadzhinesheva, S. Delimitreva (2017). Karyosphere, the enigmatic "surrounded nucleolus" of maturing oocytes: review. Acta Morphol. Anthropol. 24 (1-2): 78-84. Journal site

Nikolova V., S. Delimitreva, I. Chakarova, R. Zhivkova, V. Hadzhinesheva, M. Markova (2017). Dynamics of Lamins B and A/C and Nucleoporin Nup160 during Meiotic Maturation in Mouse Oocytes. Folia Biol. (Praha) 63 (1): 6-12. PubMed

Markova M., V. Hadzhinesheva, R. Zhivkova, V. Nikolova, I. Chakarova, S. Delimitreva (2016). Rearrangements of oocyte cytoskeleton during mammalian oogenesis. Acta Morphol. Anthropol. 23: 145-148. Journal site

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Markova M.D., I.V. Chakarova, R.S. Zhivkova, V.P. Nikolova, V.P. Hadzhinesheva, S.M. Delimitreva (2015). Genetic disorders affecting tubulin cytoskeleton. JBCR (Pleven) 8 (2): 97-103. Journal site

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Markova M., V. Nikolova, L. Chakalova, S. Salieva, Ts. Marinova (2012). Reconstruction and explanation of early artifactual microscopic observations of sperm tail. Acta Morphol. Anthropol. 18: 54-59. Journal site

Markova M.D., V.P. Nikolova, Ts.Ts. Marinova (2011). Observations of interface between tail microtubules and outer dense fibers in human necrozoospermic spermatozoa. JBCR (Pleven) 4 (2): 82-85. Journal site

Nikolova V., S. Delimitreva, R. Zhivkova, I. Chakarova, D. Dimitrova, M. Markova (2011). Cytoskeletal changes during mouse oocyte maturation revealed by a variation of nuclear matrix and intermediate filaments (NM-IF) extraction. CR Acad. Bulg. Sci. 64, No. 11, 1571-1576. Journal site

Marinova T.T., L.D. Spassov, V.I. Vlassov, V.V. Pashev, M.D. Markova, V.S. Ganev, R.S. Dzhupanova, D.N. Angelov (2009). Aged human thymus Hassall's corpuscles are immunoreactive for IGF-I and IGF-I receptor. Anat. Rec. 292: 960-965. PubMed

Marinova Ts., M. Markova, L. Aloe (2006). NGF overexpression and distribution in cortical thymic epithelial cells of mice with experimentally induced leukemia. In Vivo 20: 259-264. PubMed

Markova M.D. (2004). Electron microscopic observations of human sperm whole-mounts after extraction for nuclear matrix and intermediate filaments (NM–IF). Int. J. Androl. 27: 291-295. PubMed

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Markova M.D., T.T. Marinova (1999). EGF receptor-like determinants on human spermatozoa and their possible cytoskeletal association. Fol. Biol. 45: 143-145. PubMed

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