

First Name	<b>Marina</b>
Surname	<b>Nedelcheva-Veleva</b>
Gender	Female
Birth date	01/01/1974
Nationality	Bulgarian
Position title	Deputy director, Associate professor
Name of Institute	“Acad. Roumen Tsanev” Institute of Molecular Biology of the Bulgarian Academy of Sciences
Full address of Institute	21 “Acad. G. Bonchev” Str., Sofia 1113, Bulgaria
Tel:	+359 2 979 3689
Fax:	+359 2 8723507
E-mail:	marina@bio21.bas.bg

### **Current & previous employment**

2015.- present	Deputy Director of the Institute of Molecular Biology, Bulgarian Academy of Sciences
2015 – present	Associate professor, Institute of Molecular Biology, Bulgarian
2005 – 2015	research associate, Institute of Molecular Biology, Bulgarian
2001 – 2005	PhD student, Institute of Molecular Biology, Bulgarian Academy of Sciences, thesis supervisors: Prof. Evdokia Pasheva and Assoc. Prof. Luben Dolapchiev Ph.D. thesis title: “Coordination of Replicative Unwinding and DNA Synthesis During the S-phase Checkpoint”

### **Current & previous grants awarded**

2015 – present	Project group member of a project entitled “Dynamics, mechanisms and order of binding of DNA repair proteins in living cells”, funded by National Science Fund of Bulgaria (project No ДФНИ-Б02/16)
2014 – present	A member of the Euro-BioImaging project team in Bulgaria
2014 – present	Participant in a project for the National Roadmap for Research Infrastructures
2007 - 2013	Participant in a project under OP "Human Resources Development" 2007 - 2013 "Young Scientists - the Potential for Development of

- Science and Technology in the Field of Molecular Biology," (project No BG051RO001-3.3.04 / 58)
- 2008-2012 Project group member of a project entitled "Cordination of DNA synthesis and unwinding by replicative checkpoint", funded by ICGEB (Research Grant CRP/BUL10-03); Principal Investigator – Assoc. Prof. Stoyno Stoynov, PhD
- 2008-2012 **Project leader** of a project entitled "Study of the Influence of DNA/DNA and RNA/DNA duplexes' Thermodynamic Stability on the Transcription of RNA", funded by National Science Fund of Bulgaria (project No MU01/0137)
- 2005-2008 **Project leader** of a project funded by the National Science Fund of Bulgaria: MY-Б- 1507/05  
Title: "Investigation of the Interactions and Cellular Localization of Tof1, Csm3 and Mrc1 Subunits of the Triple S-phase Checkpoint Complex by Fluorescent Microscopy in the Living Cell"
- 2007-2009 Project group member of a project funded by the National Science Fund of Bulgaria: ИФЦ-Б-612
- 2003-2007 Project group member of a project funded by the National Science Fund of Bulgaria: K-1306/03  
Title: "Regulation of the Replicative DNA Unwinding by Rad53/Mec1 mechanism"
- 2001-2002 UNESCO (UVO-ROSTE 875.749.1 (B1)) - Project group member  
Title: "Stydies on the Restrained and Unrestrained Supercoiling of the Two Micrometer Plasmid of Saccharomyces cerevisiae at Different Stages of the Initiation of DNA Replication"

### **Selected publications**

- Nedelcheva, M., Topouzova, T. & Genova, G. (2001). Transcription of Dfos is stimulated by brain tumours of l(2)gl-deficient larvae of Drosophila melanogaster. *Int J Biochem Cell Biol* 33, 45-51
- Nedelcheva-Veleva, M. & Stoynov, S. (2004). Aplication of the chloroquine electrophoresis for detection of replicative unwinding in vivo. *Comt. Rend. Bul. Acad.* 10, 69-74
- Nedelcheva, M. N., Roguev, A., Dolapchiev, L. B., Shevchenko, A., Taskov, H. B., Francis Stewart, A. & Stoynov, S. S. (2005). Uncoupling of Unwinding from DNA Synthesis Implies Regulation of MCM Helicase by Tof1/Mrc1/Csm3 Checkpoint Complex. *J Mol Biol* 347, 509-21
- Nedelcheva-Veleva, M., Krastev, D. & Stoynov, S. (2005). Genetic Interactions Between Mutations in the Polymerase alpha/primase and S-phase Checkpoint Genes. *Comt. Rend. Bul. Acad.* 58, 833-838
- Nedelcheva-Veleva, M.N., Krastev, D.B., Stoynov, S.S. (2006) Coordination of DNA synthesis and replicative unwinding by the S-phase checkpoint pathways. *Nucleic Acids Res.* 34 (15), 4138-46

- Kraeva RI, Krastev DB, Roguev A, Ivanova A, Nedelcheva-Veleva MN, Stoynov SS (2007) Stability of mRNA/DNA and DNA/DNA duplexes affects mRNA transcription. PLoS ONE. 14;2(3):e290
- Marina Nedelcheva-Veleva, Anastas Gospodinov, Stoyno Stoynov (2008) „DNA Replication, Repair and Recombination at the Crossroad Between Genome Integrity and Genomic Instability: a Biochemical Perspective”; chapter "Harmonization of replicative unwinding with DNA synthesis during normal and perturbed replication". p 41-62. ISBN: 978-81-308-0253-4. Editors: Giovanni Maga, Pavia and Ulrich Hübscher. Publisher: Research Signpost
- Zarkov A, Vasilev A, Deligeorgiev T, Stoynov S, Nedelcheva-Veleva M (2013) Novel Fluorescent Dyes for Single DNA Molecule Techniques. Mol Imaging, 12, 90-99
- Nedelcheva-Veleva MN, Sarov M, Yanakiev I, Mihailovska E, Ivanov MP, et al. (2013) The thermodynamic patterns of eukaryotic genes suggest a mechanism for intron-exon recognition. Nat Commun 4: 2101
- Zarkov A., Stoynov S. and Nedelcheva-Veleva M., (2014), Novel glass slide preparation system for single DNA molecules analysis, Biotechnology and Biotechnological Equipment, Biotechnology & Biotechnological Equipment, 28, 112-117
- Petrova M., Molle E., Nedelcheva-Veleva M. and Genova G. (2014) Splicing Regulatory Elements and mRNA-abundance of *dlg1* and *capt*, Genetically Interacting with dFMRP in Drosophila Brain. International Journal Bioautomation, 18(3), 159-180
- Uzunova, S., Zarkov, A., Ivanova, A., Stoynov, S and Nedelcheva-Veleva, M. (2014) THE SUBUNITS OF THE S-PHASE CHECKPOINT COMPLEX MRC1/TOF1/CSM3: DYNAMICS AND INTERDEPENDENCE, Cell Division, 9: 4.
- Vasilev A, Lesev N, Deligeorgiev T, Uzunova S, Nedelcheva-Veleva M, Stoynov S, Angelova S (2015) Bright Fluorescent dsDNA Probes: Novel Polycationic Asymmetric Monomethine Cyanine Dyes Based on Thiazolopyridine-Quinolinium Chromophore, Coloration Technology, 131, 94–103

**Scientific awards:**

First award in “Young Scientist for 2007”, given by the Union of Scientists in Bulgaria