Dr. Jelena Ivanovska

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Profile

Highly adaptable, flexible researcher with extensive leadership and teaching experience. Passionate about scientific research for AI-driven medical innovation.

Professional experience

2021-Present **Science Research Specialist, CSO,** *Exazyme GmbH, (Berlin,DE)*

05-10/2020 **Research and Development Scientist**, *Tacalyx GmbH, Bayer CoLaborator (Berlin, DE)*
Development of biological assays for antibody characterization and validation by exploiting TACAs as targets.

2015-2020 **Research Scientist,** *Cell Differentiation and Tumorigenesis, MDC (Berlin, DE)*
Investigating the structural and functional basis for the involvement of C/EBPs in cellular distributions and stability of several interacting proteins critically involved in regulating the cell cycle.

2013-2015 **Research Scientist,** *Institute for Pathology, Department of Experimental TumorPathology (Erlangen-Nuremberg, DE)*
Investigated the molecular profile of actin polymerization signalling and protein-protein interactions of aggressive disseminating human tumor cells.

2008-2013 **PhD Research Candidate,** *(Erlangen-Nuremberg, DE)*
Investigated apoptotic signalling cascades, TNF-induced inflammation, protein-protein interactions (with special interest for kinases), and cytoskeleton protein signalling.

Education

2013 PhD in molecular biology, University of Erlangen-Nuremberg, Germany
2007 Graduate biochemist (diploma), Faculty of Chemistry, University of Belgrade

Publications

First author publications: 5

1. **Ivanovska J**, et al.; C/EBPβ isoform-specific control of Cyclin D1 stability and subcellular distribution. Manuscript in preparation.
2. **Ivanovska J**, Zehnder T, Lennert P, Sarker B, Boccaccini AR, Hartmann A, Schneider-Stock R, Detsch R; Biofabrication of 3D Alginate-Based Hydrogel for Cancer Research: Comparison of Cell Spreading, Viability, and Adhesion Characteristics of Colorectal HCT116 Tumor Cells. ***Tissue Eng Part C Methods.*** 2016; 22(7):708-15
3. **Ivanovska J,** Zlobec I, Forster S, Karamitopoulou E, Dawson H, Koelzer VH, Agaimy A, Garreis F, Söder S, Laqua W, Lugli A, Hartmann A, Rau TT, and Schneider-Stock R; DAPK loss in colon cancer tumor buds
– implications for migration capacity of disseminating tumor cells. ***Oncotarget.*** 2015; 6(34):36774-88.
4. **Ivanovska J,** Tregubova A, Vijayalakshmi M, Chakilam S, Gandesiri M, Benderska N, Ettle B, Hartmann A, Soeder S, Ziesche E, Fischer T, Lautscham L, Fabry B, Segerer G, Gohla A, and Schneider-Stock R; A novel multi-protein complex controls actin cytoskeleton remodeling in TNF-induced apoptosis. ***Int J Biochem Cell Biol.*** 2013;45:1720-9.
5. **Ivanovska J,** Mahadevan V, Schneider-Stock R; DAPK and cytoskeleton-associated functions-Review.

Apoptosis. 2014; 19(2):329-38.

Other contributions: 5

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6. Marchal DG, Schulz L, Schuster I, **Ivanovska J**, Paczia N, Prinz S, Zarzycki J, Erb TJ. Machine Learning-Supported Enzyme Engineering toward Improved CO_2-Fixation of Glycolyl-CoA Carboxylase. ***ACS Synth Biol.*** 2023;12(12):3521-3530.

7. Cirovic B, Schönheit J, Kowenz-Leutz E, **Ivanovska J**, Klement C, Pronina N, Bégay V, Leutz A. C/EBP-Induced Transdifferentiation Reveals Granulocyte-Macrophage Precursor-like Plasticity of B Cells. ***Stem Cell Reports.*** 2017; 8(2):346-359.

8. Benderska N, **Ivanovska J**, Rau TT, Schulze-Luehrmann J, Mohan S, Chakilam S, Gandesiri M, Ziesché E, Fischer T, Söder S, Agaimy A, Distel L, Sticht H, Mahadevan V, Schneider-Stock R; DAPK-HSF1 interaction as a positive-feedback mechanism stimulating TNF induced apoptosis in colorectal cancer cells. ***JCell Sci.*** 2014; 127(24):5273-87.

9. Gandesiri M, Chakilam S, **Ivanovska J,** Natalya B, Ocker M, Di Fazio P, Feoktistova M, Rave-Fränk M, Christiansen H, Leverkus M, Hartmann A, Schneider-Stock R; A dual role for DAPK in human colon cancercells by triggering panobinostat-induced autophagy and apoptosis. ***Apoptosis.*** 2012; 17:1300-15.

10. Benderska N, Chakilam S, Hugle M, **Ivanovska J**, Gandesiri M, Schulze-Lührmann J, Bajbouj K, CronerR, Schneider-Stock R; Apoptosis Signalling Activated by TNF in the Lower Gastrointestinal Tract - Review.***Curr Pharm Biotechnol.*** 2011; 13:2248-58.