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Contact information

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Work experience

11/2021 – present	IDBE (Inclusion/Diversity/Belonging/Equity) Committee Member, New York University, United Arab Emirates
09/2020 – present	Science Divisional Representative in Staff Council Researcher Committee, New York University, United Arab Emirates
02/2016 – present	Research associate/ Research Scientist, New York University, United Arab Emirates
09/2015 – 01/2015	Scientific internship – Technical University Dresden, Institute of Physiological Chemistry, Germany
05/2013 – 02/2016	Postdoctoral associate, Laboratory of Epigenetics of the Cell Nucleus, Biotechnology and Biomedicine Center of the Academy of Sciences and Charles University in Vestec, Czech Republic
01/2009 – 03/2009	Scientific internship – Biology Centre, Lund University, Sweden

University education

09/2009 – 05/2013	PhD in Molecular Genetics, Department of Biology of the Cell Nucleus, Institute of Molecular Genetics, ASCR, Czech Republic
09/2007 – 06/2009	MSc in Genetics, Faculty of Natural Sciences, Comenius University in Bratislava, Slovak Republic
09/2004 – 06/2007	BSc in Biology, Faculty of Natural Sciences, Comenius University in Bratislava, Slovak Republic

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Original research papers

2022 ***Venit T.***, Sapcota O., Abdrabou WS., Loganathan P., Pasricha R., Mahmood SR., El Said NH., Idaghdour Y., Magzoub M. and Percipalle P. **Regulation of oxidative phosphorylation by Nuclear myosin 1 protects cells from metabolic reprogramming and tumorigenesis in mice**. **bioRxiv**

2022 Petrusová J., Havalda R., Flachs P., ***Venit T.***, Darášová A., Hulková L., Sztacho M., Hozák P. **Focal Adhesion Protein Vinculin Is Required for Proper Meiotic Progression during Mouse Spermatogenesis. Cells**

2022 Hari-Gupta Y., Fili N., dos Santos A., Cook A. W., Gough R. E., Reed H. C. W., Wang L., Aaron J., ***Venit T.***, Wait E., Grosse-Berkenbusch A., Gebhardt J. C. M., Percipalle P., Chew T-L., Martin-Fernandez M., Toseland C. P. **Nuclear myosin VI regulates the spatial organization of mammalian transcription initiation. Nature Communications**

2021 Esposito G., Hunashal Y., Percipalle M., ***Venit T.***, Dieng MM., Fogolari F., Hassanzadeh G., Piano F., Gunsalus KC., Idaghdour Y., Percipalle P. **NMR-Based Analysis of Nanobodies to SARS-CoV-2 Nsp9 Reveals a Possible Antiviral Strategy Against COVID-19. Advanced Biololgy**

2021 Mahmood SR., Xie X., Hosny El Said N., ***Venit T.***, Gunsalus KC., Percipalle P. **β-actin dependent chromatin remodeling mediates compartment level changes in 3D genome architecture. Nature Communications**

2021 Bajusz C., Kristó I., Abonyi C., ***Venit T.***, Vedelek V., Lukácsovich T., Farkas A., Borkúti P., Kovács Z., Bajusz I., Marton A., Vizler C., Lipinszki Z., Sinka R., Percipalle P., Vilmos P. **The nuclear activity of the actin-binding Moesin protein is necessary for gene expression in Drosophila. FEBS Journal**

2020 ***Venit T.***, Semesta K., Farrukh S., Endara-Coll M., Havalda R., Hozak P., Percipalle P. **Nuclear myosin 1 activates p21 gene transcription in response to DNA damage through a chromatin-based mechanism. Communications Biology**

2020 ***Venit T.***, Dowaidar M., Gestin M., Mahmood S. R., Langel U., Percipalle P. **Transcriptional profiling reveals ribosome biogenesis, microtubule dynamics and expression of specific LncRNAs to be part of a common response to cell penetrating peptides. Biomolecules**

2018 Xie X., ***Venit T.***, Drou N., Percipalle P. **In Mitochondria β-Actin Regulates mtDNA Transcription and Is Required for Mitochondrial Quality Control. iScience**

2018 Pastorek L., ***Venit T.***, Hozák P. **Holography microscopy as an artifact-free alternative to phase-contrast. Histochemistry and Cell Biology**

2016 ***Venit T.***, Kalendová A., Dzijak R., Rohožková J., Malohlava J., Hozák P. **Nuclear myosin I regulates cell membrane tension. Scientific Reports**

2016 Kalasova I, Fáberová V, Kalendová A, Yildirim S, Uličná L, ***Venit T.***, Hozák P. **Tools for visualization of phosphoinositides in the cell nucleus. Histochemistry and Cell Biology**

2013 ***Venit T***, Dzijak R, Kalendová A, Kahle M, Rohožková J, Schmidt V, Rülicke T, Rathkolb B, Hans W, Bohla A, Eickelberg O, Stoeger T, Wolf E, Yildirim AÖ, Gailus-Durner V, Fuchs H, Hrabě de Angelis M, Hozák P. **Mouse nuclear myosin I knock-out shows interchangeability and redundancy of myosin isoforms in the cell nucleus. PLoS One**

2013 Yildirim S, Castano E, Sobol M, Philimonenko VV, Dzijak R, ***Venit T***, Hozák P. **Involvement of PIP2 in RNA Polymerase I transcription.** **Journal of Cell Science**

2013 Dzijak R., Yildirim S., Kahle M., Novak P., Hnilicova J., ***Venit T.***, and Hozak P. **Specific NLS within the light chain binding domain directs both Nuclear myosin I and Myosin IC to the cell nucleus.** **PLoS One**

Reviews and book chapters

2021 Record J., Saeed MB., ***Venit T***., Percipalle P., Westerberg LS. **Journey to the Center of the Cell: Cytoplasmic and Nuclear Actin in Immune Cell Functions.** **Frontiers in Cell and Developmental Biology**

2021 ***Venit T.,*** El Said NH., Mahmood SR., Percipalle P. **A dynamic actin-dependent nucleoskeleton and cell identity.** **Journal of Biochemistry**

2020 ***Venit T.***, Mahmood S. R., Endara-Coll M., Percipalle P. **Nuclear actin and myosin in chromatin regulation and maintenance of genome integrity.** **International review of cell and molecular biology**

2018 ***Venit T.***, Xie X., Percipalle P. **Actin in the cell nucleus.** **Nuclear architecture and dynamics,** ISBN 978-0-12-803480-4

2017 ***Venit T.***, Hozák P. **Nuclear myosin I.** **Encyclopedia of Signaling Molecules,** ISBN 978-1-4939-6800-8

Citations 315 (Google Scholar 22.8.2022)

h-index 9 (Google Scholar 22.8.2022)