



Curriculum Vitae

Personal information **Monika Valihrachova**

Work experience

GCP Inspector, State Institute for Drug Control

- start date: October 2015
- end date: present
- Country: Czechia

Research Assistant, Ph.D. student, Institute of Biotechnology of the Czech Academy of Sciences

- start date: January 2009
- end date: July 2015
- Country: Czechia

Research Assistant, Faculty of Science, Charles University in Prague

- start date: November 2009
- end date: October 2015
- Country: Czechia

Education and training

Ph.D. in Developmental and Cellular Biology, Faculty of Science, Charles University in Prague

- start date: September 2009
- end date: September 2015
- Country: Czechia

RNDr. in Developmental and Cellular Biology, Faculty of Science, Charles University in Prague

- start date: September 2009
- end date: September 2015
- Country: Czechia

MSc. in Cellular and Developmental Biology, Faculty of Science, Charles University in Prague

- start date: September 2007
- end date: September 2009
- Country: Czechia

BSc. in Biology, Faculty of Science, Charles University in Prague

- start date: September 2004
- end date: September 2007
- Country: Czechia

Additional information

Publications

- NormQ: RNASeq normalisation based on RT-qPCR derived size factors. Naraine R, Abaffy P, **Sidova M**, Tomankova S, Pocherniaieva K, Smolik O, Kubista M, Psenicka M, Sindelka R. *Comput Struct Biotechnol J*. 2020;18:1173-1181.
- The legacy of sexual ancestors in phenotypic variability, gene expression, homoeolog regulation of asexual hybrids and polyploids. Bartos O, Roslein J, Kotusz J, Paces J, Pekarik L, Petrtyl L, Halacka K, Stefkova Kasparova E, Mendel J, Boron A, Juchno D, Leska A, Jablonska O, Benes V, **Sidova M**, Janko K. *Mol Biol Evol*. 2019;36(9)1902-1920.
- Asymmetric distribution of biomolecules of maternal origin in the *Xenopus laevis* egg and their impact on the developmental plan. Sindelka R, Abaffy P, Qu Y, Tomankova S, **Sidova M**, Naraine R, Kolar M, Peuchen E, Sun L, Dovichi N, Kubista M. *Sci Rep*. 2018;8(1)8315.
- Comparison of oocyte mRNA localization patterns in sterlet *Acipenser ruthenus* and African clawed frog *Xenopus laevis*. Pocherniaieva K, **Sidova M**, Havelka M, Saito T, Psenicka M, Sindelka R, Kaspar V. *J Exp Zool Mol Dev Evol*. 2018;330(3):181-187.
- Asymmetric localization and Distribution of factors determining cell fate during early development of *Xenopus laevis*. Sindelka R, **Sidova M**, Abaffy P, Kubista M. *Results Probl Cell Differ*. 2017;61:229-241.
- Identification and characterization of *Xenopus tropicalis* common progenitors of Sertoli and peritubular myoid cell lineages. Tlapakova T, Nguyen TM, Vegrichtova M, **Sidova M**, Strnadova K, Blahova M, Krylov V. *Biol Open*. 2016;5(9):1275-1282.
- Intracellular microRNA profiles form in the *Xenopus laevis* oocyte that may contribute to asymmetric cell division. **Sidova M**, Sindelka R, Castoldi M, Benes V, Kubista M. *Sci Rep*. 2015;5:11157.
- Pre-amplification in the context of high-throughput qPCR gene expression experiment. Korenkova V, Scott J, Novosadova V, Jindrichova M, Svec D, **Sidova M**, Sjoback R. *BMC Mol Biol*.

2015;16:5.

- Effects of *post-mortem* and physical degradation on RNA integrity and quality. **Sidova M**, Tomankova S, Abaffy P, Kubista M, Sindelka R. *Biomol Detect Quantif*. 2015;5:3-9.
- Single blastomere expression profiling of *Xenopus laevis* embryos of 8 to 32-cells reveals developmental asymmetry. **Flachsova M**, Sindelka R, Kubista M. *Sci Rep*. 2013;3:2278.
- Spatial expression profile on the *Xenopus laevis* oocytes measured with qPCR tomography. Sindelka R, **Sidova M**, Svec D, Kubista M. *Methods*. 2010;51(1):87-91.

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