

Kristina Gagalova, Ph.D.

Research scientist

I am a Ph.D. graduate in Bioinformatics and I have pursued two Master's degrees in science. My research is focused in plant and evolutionary genomics. I have +3 years of work experience in industry and startups

Summary

- Double academic curriculum with Master's degrees in Bioinformatics and Biotechnology. Solid basics in molecular biology and genetics
- Deep understanding of bioinformatics algorithms and omics data analysis and multi-omics data analysis
- Knowledge of classical and modern machine learning algorithms
- Successfully completed a research-based Ph.D. in genomics, delivered with the publication of several peer-reviewed papers
- Extensive collaboration with researchers from different scientific backgrounds
- Successful project delivery in the context of omics research and data analysis

Education and training

- 2017-2022 **Ph.D. doctorate - Bioinformatics**, *University of British Columbia*, Vancouver, Canada.
- 2013-2015 **Master of science - Bioinformatics**, *Vrije University*, Amsterdam, The Netherlands.
- 2010-2013 **Master of science - Biotechnology**, *University of Bologna*, Bologna, Italy.
- 2007-2010 **Bachelor of science - Biotechnology**, *University of Bologna*, Bologna, Italy.

Work experience

- Sep 2020 - **Research scientist**, *Willow Biosciences Inc.*, Burnaby, Canada.
Oct 2022
- Sep 2018 - **Data analyst**, *BC Childrens Hospital*, Vancouver, Canada.
Aug 2020
- Mar 2016 - **Bioinformatician**, *GenomeScan*, Leiden, The Netherlands.
Dec 2016

Genome Sciences Centre - Vancouver, Canada

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Oct 2015 - **Data analyst**, *MIMETAS*, Leiden, The Netherlands.
Feb 2016

Awards and Fellowships

- 2018 ECOSCOPE graduate trainee fellowship. NSERC CREATE Graduate Training Program provides UBC graduate students with the skills needed to translate academic research into commercial and entrepreneurial activities
- 2017 4YF - 4 years fellowship. Four Year Doctoral Fellowship to support outstanding international students
- 2015 Max Planck Institute and Erasmus+ fellowship. Master's degree fellowship for international internship
- 2013 VUFP-VU. Vrije University fellowship for talented international students
- 2013 University of Bologna: Mathematical, Physical, and Natural science traveling grant - in collaboration with the Rijksuniversiteit Groningen. Master's degree fellowship for international internship
- 2013 FindAMasters fellowship. Biological Sciences Scholarship
- 2007 ER.GO education grant. Bachelor and Master's fellowship

Publications

1. Galalova, K., Warren, R., Coombe, L., Wong, J., Nip, K., Yuen, M., & (2022). Spruce giga-genomes: Structurally similar yet distinctive with differentially expanding gene families and rapidly evolving genes. *The Plant Journal*.
2. Galalova, K., Whitehill, J., Culibrk, L., Lin, D., L'evesque-Tremblay, V., & (2022). The genome of the forest insect pest *Pissodes strobi* reveals genome expansion and evidence of a *wolbachia* endosymbiont. *G*.
3. Nip, K., Hafezqorani, S., Galalova, K., Chiu, R., Yang, C., Warren, R., & Birol, I. (2022). Reference-free assembly of long-read transcriptome sequencing data with RNA-Bloom2. *bioRxiv*.
4. Galalova, K. (2022). Annotation of complex genomes for comparative genomics. *University of British Columbia*.
5. Stephenson, M., Nip, K., HafezQorani, S., Galalova, K., Yang, C., & (2021). RNA-scoop: Interactive visualization of transcripts in single-cell transcriptomes. *NAR Genomics and Bioinformatics*.
6. Teng, M., Galalova, K., Portales-Casamar, E., & Gorges, M. (2021). Pilot implementation of a clinical research data warehouse linking intra-operative physiological data with post-operative outcomes. *ANESTHESIA AND ANALGESIA*.
7. Galalova, K., Elizalde, M., Portales-Casamar, E., & Gorges, M. (2020). What you need to know before implementing a clinical research data warehouse: Comparative review of integrated data repositories in health care institutions. *JMIR Formative Research*.
8. Shvetsova, E., Sofronova, A., Monajemi, R., Galalova, K., Draisma, H., & (2019). Skewed x-inactivation is common in the general female population. *European Journal of Human Genetics*.
9. Lai, J., Galalova, K., Kuenne, C., El-Brolosy, M., & Stainier, D. (2019). Induction of interferon-stimulated genes and cellular stress pathways by morpholinos in zebrafish. *Developmental Biology*.

10. Jadhav, B., Monajemi, R., Gagalova, K., Ho, D., Draisma, H., & (2019). RNA-seq in 296 phased trios provides a high-resolution map of genomic imprinting. *BMC Biology*.
11. Lin, D., Coombe, L., Jackman, S., Gagalova, K., Warren, R., Hammond, S., & (2019). Complete chloroplast genome sequence of a white spruce (*Picea glauca*, genotype ws77111) from eastern Canada. *Microbiology Resource Announcements*.
12. Lin, D., Coombe, L., Jackman, S., Gagalova, K., Warren, R., Hammond, S., & (2019). Complete chloroplast genome sequence of an Engelmann spruce (*Picea engelmannii*, genotype Se404-851) from western Canada. *Microbiology Resource Announcements*.
13. Lai, J., Gagalova, K., & Stainier, D. (2018). Induction of interferon-stimulated genes and cellular stress pathways by morpholinos. *bioRxiv*.
14. van Dijk, F., de Klein, N., Claringbould, A., Deelen, P., Vosa, U., Verlouw, J., & (2018). Pathogenic SNPs with allelic imbalance show higher expression in the major allele. *EUROPEAN JOURNAL OF HUMAN GENETICS*.
15. Vermeulen, C., Sørensen, P., Gagalova, K., & Loeschcke, V. (2014). Flies who cannot take the heat: Genome-wide gene expression analysis of temperature-sensitive lethality in an inbred line of *Drosophila melanogaster*. *Journal of Evolutionary Biology*.
16. Vermeulen, C., Pedersen, K., Beck, H., Petersen, J., Gagalova, K., & (2013). Proteomic characterization of inbreeding-related cold sensitivity in *Drosophila melanogaster*. *PLOS One*.