

Curriculum Vitae

Personal information

Dipl.Ing. Cornelia Vesely, PhD

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Medical University of Vienna, Center for Anatomy and Cell Biology, Schwarzschanerstrasse 17, 1090 Vienna, Austria

Main research interests

RNA biology, small non-coding RNAs, immunology, cancer biology, NGS

Professional experience

02/2016 - today	Postdoc , Medical University of Vienna, Center for Anatomy and Cell Biology; <u>Projects</u> : RNA editing and inflammation.
07/2018-07/2019	Maternity leave
01/2017-10/2017	Maternity leave
04/2014 – 01/2016	Postdoc , CCRI (Children's Cancer Research Institute), Group: Leukemia Biology; Supervisor: Renate Panzer-Grümayer; <u>Project</u> : Genomic and transcriptional characterization of P2RY8-CRLF2-positive childhood acute lymphoblastic leukemia from patient samples.
12/2013-03/2014	Postdoc , University of Vienna; Supervisor: Michael Jantsch; <u>Project</u> : ADAR1 and innate immunity / Transcriptomic changes upon ADAR1 deficiency.
10/2009-10/2013	Scientific research assistant (PhD thesis) , University of Vienna; Supervisor: Michael Jantsch; <u>Projects</u> : Effect of RNA editing on microRNA abundance and processing. Regulation of Drosha expression in <i>X. leavis</i> development.
03/2009-09/2009	Scientific research assistant (Master thesis) , Medical University of Vienna; Supervisor: Egon Ogris; <u>Project</u> : Characterization of the regulation and identification of the phosphorylation sites of the B-type subunits of protein phosphatase 2A (PP2A) in <i>S. cerevisiae</i> .

Grants

2019	Austrian Science Research Fund (FWF) Zukunftskolleg B 57-28 : "Adjusting the Base: (Epi)transcriptomic RNA modification in inflammation & host-microbiome crosstalk"
2015	KAPSCH Next-Generation Sequencing Grant

Scientific Awards & Presentations

- VBC PhD Award 2014, for outstanding PhD thesis defended at the Vienna Biocenter
- Talk at the 18th annual meeting of the RNA Society, 2013, Davos, Switzerland
- Poster at the EMBO Meeting, 2011, Vienna, Austria
- Poster at the Gordon Research conference: RNA Editing, 2011, Galveston, Texas

Publications

Altaf F, **Vesely C**, Sheikh AM, Munir R, Shah STA, Tariq A. *Modulation of ADAR mRNA expression in patients with congenital heart defects*. PLoS One, 2019 Apr 30;14(4):e0200968.

Vesely C*, Frech C*, Eckert C, Cario G, Mecklenbräuker A, Zur Stadt U, Nebral K, Kraler F, Fischer S, Attarbaschi A, Schuster M, Bock C, Cavé H, von Stackelberg A, Schrappe M, Horstmann MA, Mann G, Haas OA, Panzer-Grümayer. *Genomic and transcriptional landscape of P2RY8-CRLF2-positive childhood acute lymphoblastic leukemia*. Leukemia, 2017 Jul; 31(7): 1491-1501.

Daryabeigi A, Woglar A, Baudrimont A, **Vesely C**, Rauter M, Penkner A, Jantsch MF, Jantsch V. *SUN-1 oligomerization promotes LINC complex retention in the nuclear envelope during Caenorhabditis elegans oogenesis*. Genetics, 2016 Jun; 203(2): 733-748.

Mannion NM, Greenwood SM, Young R, Cox S, Brindle J, Read D, Nellåker C, **Vesely C**, Ponting CP, McLaughlin P, Jantsch MF, Dorin J, Adams IR, Scadden ADJ, Öhman M, Keegan LP and O'Connell MA. *The RNA editing enzyme ADAR1 is a key regulator of innate immune responses to RNA*. Cell Reports, 2014 Nov; 9(4): 1482-1494.

Vesely C, Tauber S, Sedlazeck FJ, Tajaddod M, von Haeseler A, Jantsch MF. *ADAR2 induces reproducible changes in sequence and abundance of mature microRNAs in the mouse brain*. Nucleic Acids Research, 2014 Oct; 42(19): 12155-12168.

Muggenhumer D*, **Vesely C***, Tian N, Yongfeng J, Nimpf S, Jantsch MF. *DROSHA protein levels are translationally regulated during Xenopus oocyte maturation*. Mol. Biol. Cell, 2014 Jul 1; 25(13): 2094-2104

Vesely C*, Tauber S*, Sedlazeck FJ, von Haeseler A, Jantsch MF. *Adenosine deaminases that act on RNA induce reproducible changes in abundance and sequence of embryonic miRNAs*. Genome Research, 2012 Aug; 22(8): 1468-1476.

Jantsch MF and **Vesely C** (2011) *Chapter 7: RNA Binding Domains and RNA Recognition by RNA-Editing Machineries*. RNA Binding Proteins, Landes Bioscience