Curriculum vitae

Sabrina Summer, PhD

Personal Data

Contact:	University for Continuing Education Krems
	Center for Experimental Medicine
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Current Positions

Since 03/2021	Postdoctoral Researcher in the
	Project title: ImageHead Start-Bahnbrechende Computer Vision-
	Anwendungen in der Mikrowelt: Industry Research Consortium 4.0
	Funding agency: Interreg
	Principal Investigator: Univ. Prof. Dr. M. B. Fischer
	Center for Experimental Medicine, University for Continuing Education
	Krems, Austria
Work Experience	
12/2019 – 02/2021	Postdoctoral Researcher / Coordinator of RNA laboratory

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	Project title: Molecular 3D model of the human liver
	Principal Investigator: Dr. Wolfgang Weninger
	Center for Anatomy, Medical University Vienna, Austria
03/2020 - 05/2020	Research Assistant / SARS-CoV-2 diagnostic
	Routine testing of SARS-CoV-2 specimens
	Study on the minimal transport conditions of SARS-CoV-2 specimens for
	diagnostic
	Division of clinical Virology, Medical University Vienna, Austria
04/2015 - 08/2019	Postgraduate Researcher / PhD student
	Project title: Functional characterization of YBEY in mitochondrial ribosome
	assembly
	Funding agency: Doktoratskolleg RNA Biology, Austrian Science Fund (FWF)

Principal Investigator: Dr. Walter Rossmanith

Center for Cell Biology, Medical University Vienna, Austria

01/2014 –12/2014 Research Assistant / Master student

Project title: The function of type III interferons in the mucosal immune response Principal Investigator: O.Univ.-Prof. Dr.med.vet. Mathias Müller University of Veterinary Medicine Vienna, Austria

Education

04/2015 – 06/2020 PhD studies, Medical University Vienna (SFB RNA Biology PhD program) Vienna, Austria

2020 Promotion PhD

Thesis title: YBEY is an essential biogenesis factor for mitochondrial ribosome assembly

11/2020 SAP Foundation certificate, WIFI Vienna

11/2019 - 12/2019 Project Management and Team Leading, Karl-Franzens University Graz

10/2013 – 03/2015 Master studies, University Vienna

Vienna, Austria

2015 Graduation MSC

Thesis title: The role of interferons in the mucosal immune response to enteropathogens

10/2008 – 10/2013 Bachelor studies, University Vienna

Vienna, Austria

2013 Graduation BSC

Thesis title: The role of the RNA chaperone Hfq in the metabolism and virulence of Pseudomonas aeruginosa

Research Interests

- Tissue Regeneration
- Immunomodulation
- T-cell activation
- Chronic inflammatory diseases

Memberships in Professional Societies

ESAO European Society of Artificial Organs

Teaching

- Lecture for "Molecular and Statistical Analysis" (SSM2) at the Medical University Vienna, Austria.
- Supervision of bachelor and PhD students at the Medical University Vienna, Austria

Manuskripts

Rossmanith E., <u>S. Summer</u>, M. Pasztorek, C. Fiedler, M. Groeger, S. Rauscher, V. Weber, M. B. Fischer. (2022). Mesenchymal stem cells support human vascular endothelial cells to form vascular sprouts in human platelet lysate-based matrices. *BioRxiv*. 01.31.478452.

<u>Summer S</u>, Schmidt R, Herdina A, Krickl I, Madner J, Greiner G, Mayer FJ, Perkmann-Nagele N, Strassl R. (2021) Detection of SARS-CoV-2 by real-time PCR under challenging pre-analytical conditions reveals independence of swab media and cooling chain. *Sci Rep.* 11, 13592.

<u>Summer S</u>, Smirnova A, Gabriele A, Toth U, Fasemore AM, Förstner KU, Kuhn L, Chicher J, Hammann P, Mitulović G, Entelis N, Tarassov I, Rossmanith W, Smirnov A. (2020) YBEY is an essential biogenesis factor for mitochondrial ribosomes. *Nucleic Acids Research*. Vol 48,17, 25, 9762–9786.

Selected Congress Contributions

RNA SOCIETY MEETING 2018 | Berkley, CA, USA, Poster presentation "YBEY, the human homolog of a bacterial endoribonuclease, plays an essential role in human mitochondria"

Targeting Mitochondria 2016 | Berlin, Germany, Poster presentation "Characterization of p19, a potential player in mitochondrial RNA metabolism"

28th ANNUAL CONFERENCE OF THE EUROPEAN MACROPHAGE AND DENTRITIC CELL SOCIETY 2014 | Vienna, Austria, Poster presentation "The role of IFN- λ in the mucosal immune response", Poster presentation