Curriculum Vitae

Personal information

Name:	Schosserer, Markus
ORCID:	0000-0003-2025-0739
Date of birth:	04.09.1981
Nationality:	Austria
URL web site:	https://pbg.meduniwien.ac.at/en/forschung/forschung-medizinische-genetik/forschungsgruppen/schosserer-lab/

Current position

2022 – Principal Investigator / University Assistent
Institute of Medical Genetics, Center for Pathobiochemistry and Genetics, Medical University of Vienna, AT

Previous positions

2019 – 2022 Senior Scientist
Institute of Molecular Biotechnology, Department of Biotechnology, BOKU University, Vienna, AT

2014 – 2018 Postdoc/University Assistant
Department of Biotechnology, BOKU University, Vienna, AT

2016 – 2016 Visiting Scientist
Mount Desert Island Biological Laboratory (Aric Rogers lab), Bar Harbor, ME, USA

2013 – 2013 Project Manager
ACIB GmbH, AT

2012 – 2013 Postdoc
Department of Biotechnology, BOKU University, Vienna, AT

2012 – 2012 Visiting Scientist
University of Salzburg (Hannelore Breitenbach-Koller lab), Salzburg, AT

Education

2012 Dr.nat.techn. (equiv. Ph.D.)
Department of Biotechnology, BOKU University, Vienna, AT
Supervisor: Johannes Grillari

2007 Dipl.-Ing. (equiv. M.Sc.), BOKU University, Vienna, AT
Supervisor: Johannes Grillari

Funding and awards

Acquired competitive peer-reviewed funding

2020 – 2027 Christian Doppler Research Association (CDG): "CD-Laboratory for Skin Multimodal Analytical Imaging of Aging and Senescence (SKINMAGINE)"
€ 1,148,175

2023 – 2026 Austrian Science Fund (FWF): Research Group "Targeting cellular senescence based on inter-organelle communication, multi-level proteostasis and metabolic control (SENIOPROM)"
€ 269,418

2023 – 2025 Hevolution/AFAR New Investigator Award in Biology and Geroscience Research: "Targeting the epitranscriptome to promote healthy lifespan"
$ 374,628 USD

2024 – 2024 Austrian Research Promotion Agency (FFG): Summer internship support: "snoRNAs in the skin"
€ 1,200

2022 – 2024 OeAD – Agency for Education and Internationalisation: "Plant flavonoids as a tool for healthy aging – mechanisms behind their effect on aging and age-related infections"
€ 7,900

2021 – 2022 Austrian Research Promotion Agency (FFG) & ALINA GmbH: "Regenerative potential of extracts of larch bark in cell culture models of human skin"
€ 12,590

2018 – 2021 Austrian Science Fund (FWF) & Herzfelder'sche Familienstiftung: "Nsun5 in ribosome function and mammalian healthy lifespan"
€ 314,379

2018 – 2019 Hochschuljubiläumsstiftung der Stadt Wien: "The nematode *Caenorhabditis elegans* as simple and cost-effective model to test human healthspan"
€ 11,000

Awards and fellowships

2019 *Young Scientific Award 2019*, Menopause, Andropause, Anti-Aging Congress, Vienna, AT

2019 *Best Poster Award*, Gordon Research Conference "RNA Editing", Barga, IT

2018 *Best Poster Award*, 10th ÖGMBT Life Science Meeting, Vienna, AT

2017 *Best Poster Award*, Gordon Research Conference "Biology of Aging", Les

	Diablerets, CH
2016	*James L. Boyer Fellowship* for visiting Mount Desert Island Biological Laboratory, USA
2015	*Young Investigator Award*, Society for Free Radical Research – Europe (SFRR-E)
2015	*Best Poster Award*, 7th ÖGMBT Life Science Meeting, Salzburg, AT
2013	*Best Talk Award*, 5th ÖGMBT Life Science Meeting, Innsbruck, AT

Services to the scientific community

Scientific journals

2022 –	Editorial Board, "Frontiers in Aging"
2021 –	Editorial Board, "Mechanisms of Ageing and Development", Elsevier
2020 –	Editorial Board, "Experimental Gerontology", Elsevier
2015 –	Reviewer for >20 scientific journals (see Web of Science for details)
2020 – 2021	Guest Editor for two special issues, "Mechanisms of Ageing and Development", Elsevier

Reviewing for funding agencies

2018 –	Evaluation for funding agencies: Swiss National Fund (SNF), L'Agence Nationale de la Recherche (IRES), Israel Science Foundation (ISF), National Science Centre Poland, Rising Tide Foundation for Clinical Cancer Research, Impetus Grants (Norn Group), Paracelsus Medical University
2020 – 2021	Selection committee, COFUND ARDRE doctoral program, Innsbruck, AT

Organisation of conferences

2022	Chair, "Mechanisms of Aging" session at the 14th ÖGMBT annual meeting, 300 participants, AT
2022	Chair, "Cellular Senescence" session at the TERMIS-EU conference, 300 participants, PL
2022	Organizer, annual meeting "Austrian Cluster for Tissue Regeneration", 170 participants, AT

2016 Organizer, annual meeting COST Action "MouseAGE", 80 participants, AT

2016 Organizer, PACT Summer School: "Advanced Microscopy Techniques", 20 participants, AT

2010 Organizer and Chair, "Mechanisms of Aging" session at the 2nd ÖGMBT annual meeting, 300 participants, AT

Institutional responsibilities

2023 – Committee for Animal Experiments, Center for Pathobiochemistry and Genetics, Medical University of Vienna, AT

2022 – 2022 Biological Safety Officer, Department of Biotechnology, BOKU University, Vienna, AT

2021 – 2022 Deputy Scientific Head, Core Facility "Multiscale Imaging", BOKU University, Vienna, AT

2020 – 2022 Member of the Department Collegium, Department of Biotechnology, BOKU University, Vienna, AT

2014 – 2020 Scientific Advisory Board, BOKU-VIBT Imaging Facility, Vienna, AT

Scientific societies

2023 – Member, American Aging Association (AGE)

2023 – Member, Arbeitskreis Dermatologische Forschung (ADF)

2020 – Member, European Society for Dermatological Research (ESDR)

2016 – Member, Austrian Society for Geriatrics and Gerontology (ÖGGG)

2009 – Member, Austrian Association of Molecular Life Sciences and Biotechnology (ÖGMBT)

2021 – 2022 Member, Tissue Engineering and Regenerative Medicine International Society (TERMIS)

Scientific cooperations

Medical University of Vienna

- Florian Gruber, Department of Dermatology: A*ging and senescence of the skin*

- Florian Frommlet, Institute of Medical Statistics: *Statistical analysis of mouse phenotyping data*
- Petra Heffeter, Center for Cancer Research: *Raman microspectroscopy of cancer cell lines*
- Walter Berger, Center for Cancer Research: *Raman microspectroscopy of cancer cell lines*
- Bruno Podesser, Center for Biomedical Research and Translational Surgery: *Cardiac function of transgenic mice*
- Alexis Lomakin, Center for Pathobiochemistry and Genetics: *Protein synthesis in cancer cell senescence*
- Selma Osmanagic-Myers, Center for Pathobiochemistry and Genetics: *miRNAs in premature mouse aging*

National

- Pidder Jansen Dürr, University of Innsbruck: *Identification of novel senolytic compounds*
- Corina Madreiter-Sokolowski, Medical University of Graz: *Identification of novel senolytic compounds*
- Teresa Kaserer, University of Innsbruck: *Identification of novel senolytic compounds*
- Martina Marchetti-Deschmann, Technical University of Vienna: *Multimodal imaging of the skin*
- Mikolaj Ogrodnik, LBI for Traumatology: *Wound healing*

International

- Denis Lafontaine, Université Libre de Bruxelles (BEL): *RNA modifications*
- Norbert Polacek, University of Bern (CH): *Ribosome structure and function*
- Kostandin Pajcini, The University of Illinois at Chicago (USA): *T-cell maturation*
- Aric Rogers, Mount Desert Island Biological Laboratory (USA): *Caenorhabditis elegans ageing*
- Martin Kos, University of Heidelberg (GER): *2'-O-methylations of rRNA in cellular senescence*

Participation in international scientific networks

2024 – 2028 COST Action CA23119: Targeting Cell Senescence to Prevent Age-Related Diseases (SENESCENCE2030)

2022 – 2026 COST Action CA21108: European Network for Skin Engineering and Modeling (NETSKINMODELS)

2022 – 2026 COST Action CA21154: Translational control in Cancer European Network (TRANSLACORE)

2020 – 2021 COST Action CA16120: European Epitranscriptomics Network (EPITRAN)

2017 – 2018 COST Action BM1401: Raman-based applications for clinical diagnostics (Raman4clinics)

2016 – 2019 COST Action BM1408: Group of Elegans New Investigators in Europe (GENiE)

2016 – 2018 COST Action BM1402: Development of a European network for preclinical testing of interventions in mouse models of age and age-related diseases (MouseAGE)

Teaching activities

BOKU University

Courses (2013-2022):

Course number	Title	Type	Pro rata lecturing hours/semester	Number of courses held
791318	Animal cell culture (in Eng.)	VO - lecture	4,5	8
791333	Biology of aging (in Eng.)	VS - lecture/seminar	11	11
791325	Flow Cytometry and Cell Sorting in Biotechnology (in Eng.)	VO - lecture	10	10
791014	Advanced light and chemical microscopy in life science (in Eng.)	VU - lecture/practical	8	8
772322	Genetic model organisms in biotechnology (in Eng.)	VU - lecture/practical	0,6	1
791369	Practical Course in Cell Culture and Fermentation (in Eng.)	PR - practical	18,25	27
791107	Bachelor seminar	SE - seminar	2,16	4
790377	Seminar in biotechnology (in Eng.)	SE - seminar	1,5	3
791413	Instructional course IIIA - Animal Cell Culture and Technology (in Eng.)	PR - practical	3,96	6
941413	Instructional course IIC - cell imaging (in Eng.)	PR - practical	3,8	6
791016	Advanced Cellular Therapies (in Eng.) (PACT Summer School)	SE - seminar	0,18	1
791021	PACT summer school - advanced microscopy techniques (in Eng.)	SE - seminar	0,95	1

Results of students' evaluations:

Total number of evaluated courses	Type	Mean evaluation score (1 = excellent, 5 = not sufficient)
13	SE - seminar	1.5
31	PR - practical	1.4
18	VO - lecture	1.3
9	VS - lecture/seminar	1.2
9	VU - lecture/practical	1.3

Medical University of Vienna

Courses (2023 -):

Course number	Title	Type	Pro rata lecturing hours/semester	Semester
801.006	BL 3 - From Molecule to Cell	SK - seminar/practical	1.87	WS2023/24
803.026	SSM1 - The biology of aging and its relevance for medicine	SE - seminar	2.50	WS2023/24
803.003	BL 8 - Disease, Origin and Symptoms	SK - seminar/practical	0.89	WS2023/24
803.005	BL 9 - Disease, Manifestation & Perception. General Pharmacotherapy	SK - seminar/practical	1.33	WS2023/24
805.001	BL 13 - Nutrition and Digestion	SK - seminar/practical	1.78	WS2023/24
604.001	Progress Report in Medical Genetics	SE - seminar	0.13	WS2023/24
608.004	Current Topics in Cellular Metabolism and Biomedical Aging Research	SE - seminar	0.50	WS2023/24
808.008	SSM3 - Project Studies - Elective Part	SK - seminar/practical	0.25	WS2023/24
604.001	Progress Report in Medical Genetics	SE - seminar	0.13	SS2024
608.004	Current Topics in Cellular Metabolism and Biomedical Aging Research	SE - seminar	0.40	SS2024
850.612	Thesis Seminar: Anatomy and Cell Biology Seminar II	SE - seminar	0.08	SS2024
861.012	Thesis Seminar: RNA WiP SS24	SE - seminar	0.28	SS2024
861.014	Thesis Seminar: Anatomy and Cell Biology Seminar II	SE - seminar	0.08	SS2024
861.042	Thesis Seminar: Anatomy and Cell Biology Seminar II	SE - seminar	0.08	SS2024
861.401	JC & Work in Progress on RNA Modifications VI	SE - seminar	0.28	SS2024

Results of students' evaluations:

Total number of evaluated courses	Type	Mean evaluation score (1 = excellent, 5 = not sufficient)
2	SE - seminar	1.0
3	SK - seminar/practical	1.0

Supervision of students and postdoctoral fellows

2023 – Senior Supervisor, Ph.D. programs "RNA Biology" and "Molecular Signal Transduction", Medical University of Vienna

2012 – Continuous (co-)supervision of
- 3 postdoctoral fellows
- 5 Ph.D. students
>20 M.Sc. students
>10 B.Sc. students

Science communication and public outreach activities

2024 Speaker at TEDx Salzburg “Carpe Diem”, YouTube Video

2024	Interview partner and scientific advisor for the Amazon Prime documentary movie "Für Immer 29" ("Forever 29")
2024	TV interview on longevity food supplements on Austrian national television: ORF Konsumentenmagazin "Konkret"
2024	Theater am Werk – "T Fuckhead and Friends"
2023 –	Science Ambassador Program (OeAD)
2023	Girls' Day
2022	Lecture at "Pint of Science"
2014 – 2022	Lange Nacht der Forschung (Long Night of Research, bi-annual)
2017 – 2020	European Researchers Night (annual)
2017 – 2020	Kinderuni BOKU University (Childrens' University, annual)
2017 – 2019	Lectures at Vienna Planetarium (annual)
2019	Lecture at "Scientists for Future"
2019	Lecture at "Club of Logical Thinkers"
2016	Interview at Radio OE1 "Radiodoktor"

Didactic education

2024 –	Certificate Program "Medical Education Vienna" (Medical University of Vienna, AT) (ongoing)
2022	Supervision of Ph.D. Students, 2x 4 hours (Medical University of Vienna, AT)
2019	Supervision of M.Sc. and Ph.D. Students, 4 hours (BOKU University, Vienna, AT)
2019	Design of short videos for teaching, 1 day (BOKU University, Vienna, AT)
2018	Good scientific practice and prevention of plagiarism, 1 day (BOKU University, Vienna, AT)
2016 – 2017	Intensive course in didactics for university teachers, 6 days (BOKU University, Vienna, AT)
2015	Basic questions in didactics for university teachers, 2 days (BOKU University, Vienna, AT)
2014	Introduction into Moodle-based e-learning, 3x 3 hours (BOKU University, Vienna, AT)

2013 - 2015 Voice-, communication- and rhetoric-training, 4 days (BOKU University, Vienna, AT)

Publications and other scientific contributions

Metrics

52 publications including

34	original research	[3 first, 4 last, 6 corresponding authorships]
14	reviews	[4 first, 2 last, 2 corresponding authorships]
3	editorials	[3 last authorships]
1	book chapter	[1 first authorship]

total citations:	1,954	*[04.12.2024, Scopus]*
h-index:	22	*[04.12.2024, Scopus]*

2 manuscripts in preparation (2 original research with the last + corresponding authorship)

Ten most influential publications in peer-reviewed journals

Schosserer, M; Minois, N; Angerer, TB; Amring, M; Dellago, H; Harreither, E; Calle-Perez, A; Pircher, A; Gerstl, MP; Pfeifenberger, S; Brandl, C; Mohr, T; Sonntagbauer, M; Kriegner, A; Linder, A; Weinhäusel, A; Steiger, M; Mattanovich, D; Rinnerthaler, M; Karl, T; Sharma, S; Entian, KD; Kos, M; Breitenbach, M; Wilson, IBH; Polacek, N; Grillari-Voglauer, R; Breitenbach-Koller, L; Grillari, J: Methylation of ribosomal RNA by NSUN5 is a conserved mechanism modulating organismal lifespan. **Nature Communications** 2015; 6/6158; doi: 10.1038/ncomms7158

This paper establishes for the first time a causal and evolutionary well-conserved connection between RNA methylation and lifespan regulation in yeast, nematodes, and fruit flies. This work on NSUN5 initiated our research on RNA methylations in the context of aging and physiology.

Heissenberger, C; Rollins, JA; Krammer, TL; Nagelreiter, F; Stocker, I; Wacheul, L; Shpylovyi, A; Tav, K; Snow, S; Grillari, J; Rogers, AN; Lafontaine, DLJ; Schosserer, M*: The ribosomal RNA m^5C methyltransferase NSUN-1 modulates healthspan and oogenesis in Caenorhabditis elegans. **eLife** 2020; 9:e56205; doi: 10.7554/eLife.56205 (*corresponding author)

This paper further expands our previous work on the physiological roles of RNA methylations. It demonstrates that the two m^5C RNA-methyltransferases NSUN-1 and NSUN-5 distinctly modulate essential processes such as aging and development in nematodes.

Heissenberger, C; Liendl, L; Nagelreiter, F; Gonskikh, Y; Yang, G; Stelzer, EM; Krammer, TL; Micutkova, L; Vogt, S; Kreil, DP; Sekot, G; Siena, E; Poser, I; Harreither, E; Linder, A; Ehret, V; Helbich, TH; Grillari-Voglauer, R; Jansen-Dürr, P; Koš, M; Polacek, N; Grillari, J; Schosserer, M*: Loss of the ribosomal RNA methyltransferase NSUN5 impairs global protein synthesis and normal growth. **Nucleic Acids Res.** 2019; 47(22):11807-11825; doi: 10.1093/nar/gkz1043 (*corresponding author)

In this paper, we characterize the molecular function of the rRNA methyltransferase NSUN5 in mammalian cells and demonstrate the physiological consequences of methylation loss in mice.

Nagelreiter, F; Coats, MT; Klanert, G; Gludovacz, E; Borth, N; Grillari, J; Schosserer, M*: OPP

Labeling Enables Total Protein Synthesis Quantification in CHO Production Cell Lines at the Single-Cell Level. **Biotechnol J.** 2018; Apr;13(4):e1700492; doi: 10.1002/biot.201700492

This paper describes a novel protocol to quantify global protein synthesis by flow cytometry at the single-cell level in biotechnologically relevant CHO cells.

Yang, G; Schmid-Siegel, M; Heissenberger, C; Kos-Braun, I; Prechtl, M; Meca-Laguna, G; Rocha, M; Wagner-Schrittwieser, A; Pils, V; Meixner, B; Tav, K; Hengstschläger, M; Grillari, J; Kos, M; Schosserer, M*: 2'-O-ribose methylation levels of ribosomal RNA can distinguish different types of growth arrest in human dermal fibroblasts. **J Cell Sci.** 2024, 137 (3): jcs261930; doi: 10.1242/jcs.261930

This study demonstrates that 2'-O-methylations of rRNA can distinguish proliferating, quiescent, and senescent human dermal fibroblasts. Moreover, we show that the depletion of two snoRNAs that guide those modifications alters the cellular growth behavior.

Schosserer, M; Banks, G; Dogan, S; Dungel, P; Fernandes, A; Presen, DM; Matheu, A; Osuchowski, M; Potter, P; Sanfeliu, C; Tuna, BG; Varela-Nieto, I; Bellantuono, I: Modelling physical resilience in ageing mice. **Mech Ageing Dev.** 2019; 177:91-102; doi: 10.1016/j.mad.2018.10.001

This review paper introduces physical resilience as a novel readout for aging intervention studies in mice and was developed together with leading experts in the field within the "MouseAGE" COST Action.

Garschall, K; Dellago, H; Gáliková, M; Schosserer, M*; Flatt, T*; Grillari, J: Ubiquitous overexpression of the DNA repair factor dPrp19 reduces DNA damage and extends Drosophila life span. **npj Aging and Mechanisms of Disease** 2017; 3(5); doi: 10.1038/s41514-017-0005-z
(*shared corresponding authors)

This paper is one of the first reports that ectopic overexpression of a DNA repair factor can prolong an organism's lifespan. It thereby represents an extension of our previous cell culture studies on PRP19/SNEV.

Khan, A; Dellago, H; Terlecki-Zaniewicz, L; Karbiener, M; Weilner, S; Hildner, F; Steininger, V; Gabriel, C; Mück, C; Jansen-Dürr, P; Hacobian, A; Scheideler, M; Grillari-Voglauer, R; Schosserer, M*; Grillari, J*: SNEV(hPrp19/hPso4) Regulates Adipogenesis of Human Adipose Stromal Cells. **Stem Cell Reports** 2017; 8(1):21-29; doi: 10.1016/j.stemcr.2016.12.001
(*shared corresponding authors)

This paper establishes a novel causal link between DNA damage repair and adipogenic differentiation in ASCs and C. elegans. Thus, it expands our previous studies on PRP19/SNEV in endothelial cells.

Wagner, A; Schosserer, M*: The epitranscriptome in ageing and stress resistance: A systematic review. **Ageing Res Rev.** 2022; 81:101700; doi: 10.1016/j.arr.2022.101700
(*corresponding author)

This paper is the first review article summarizing the current knowledge on RNA modifications and their connection with organismal and cellular aging and stress resistance.

Schosserer, M*; Grillari, J; Breitenbach, M: The Dual Role of Cellular Senescence in Developing Tumors and Their Response to Cancer Therapy. **Front Oncol.** 2017; 7:278; doi: 10.3389/fonc.2017.00278 (*corresponding author)

This review paper describes the complex interaction between senescence and cancer and suggests potential therapeutic approaches.

Ten most important talks at conferences

1.) India|EMBO Lecture Course: Post-transcriptional regulation in ageing and age-related diseases, 2024, New Delhi, IND

2.) Skin Aging & Challenges 2024 Conference, Malta, MLT

3.) The 9th Aging Research and Drug Discovery Meeting, 2022, Kopenhagen, DEN

4.) EMBO Workshop "Ribosome synthesis", 2022, Engelberg, CH

5.) EMBL Meeting “The epitranscriptome”, 2022, Heidelberg, GER (VIRTUAL)

6.) CSHL Meeting "Mechanisms of Aging", 2020, Cold Spring Harbor, USA (VIRTUAL)

7.) Gordon Research Conference "Biology of Aging", 2019, Newry, USA

8.) 14th International Symposium on Neurobiology and Neuroendocrinology of Aging, 2018, Bregenz, AT

9.) 2nd Molecular Meeting on the Biology of Ageing, 2017, Groningen, NED

10.) Gordon Research Conference "Translation Machinery in Health & Disease", 2017, Galveston, USA

List of all publications

SCI-listed papers in peer-reviewed journals

Original research articles in top journals (top 20% of journals according to JCR)

1. Bobbili, MR; Görgens, A; Yan, Y; Vogt, S; Gupta, D; Corso, G; Barbaria, S; Patrioli, C; Weilner, S; Pultar, M; Jacak, J; Hackl, M; Schosserer, M; Grillari, R; Kjems, J; Andaloussi, SE; Grillari, J: Snorkel-tag based affinity chromatography for recombinant extracellular vesicle purification. **Journal of extracellular vesicles**. 2024, 13(10), e12523. doi: 10.1002/jev2.12523.

2. Mosca, E; Federa, A; Pirker, C; Schosserer, M; Liendl, L; Eckhard, M; Sombke, A; Dömötör, O; Kirchhofer, D; Timelthaler, G; Baier, D; Gurschka, P; Gabler, L; Reithofer, M; Chin, JM; Elsayad, K; Englinger, B; Tahir, A; Kowol, CR; Berger, W: The tyrosine kinase inhibitor Nintedanib induces lysosomal dysfunctionality: Role of protonation-dependent crystallization processes. **Chem Biol Interact.** 2024, 403:111243. doi: 10.1016/j.cbi.2024.111243.

3. Cavinato, M; Martic, I; Wedel, S; Pittl, A; Koziel, R; Weinmmüllner, R; Schosserer, M; Jenewein, B; Bobbili, MR; Arcalis, E; Haybaeck, J; Pierer, G; Ploner, C; Hermann, M; Romani, N; Schmuth, M; Grillari, J; Jansen-Dürr P: Elimination of damaged mitochondria during UVB-induced senescence is orchestrated by NIX-dependent mitophagy. **Aging Cell.** 2024, 23, e14186. doi: 10.1111/acel.14186.

4. Ring, NAR; Dworak, H; Bachmann, B; Schädl, B; Valdivieso, K; Rozmaric, T; Heimel, P; Fisher, I; Klinaki, E; Gutasi, A; Schuetzenberger, K; Leinfellner, G; Ferguson, J; Drechsler, S; Mildner, M; Schosserer, M; Slezak, P; Meyuhas, O; Gruber, F; Grillari, J; Redl, H; Ogrodnik, M: The p-rpS6-zone delineates wounding responses and the healing process. **Dev. Cell.** 2023, 5;58(11):981-992. doi: 10.1016/j.devcel.2023.04.001.

5. Gludovacz, E; Schuetzenberger, K; Resch, M; Tillmann, K; Petroczi, K; Schosserer, M; Vondra, S; Vakal, S; Klanert, G; Pollheimer, J; Salminen, TA; Jilma, B; Borth, N; Boehm, T: Heparin-binding motif mutations of human diamine oxidase allow the development of a first-in-class histamine-degrading biopharmaceutical. **Elife**. 2021, 10:e68542. doi: 10.7554/eLife.68542.

6. Narzt, MS; Pils, V; Kremslehner, C; Nagelreiter, IM; Schosserer, M; Bessonova, E; Bayer, A; Reifschneider, R; Terlecki-Zaniewicz, L; Waidhofer-Söllner, P; Mildner, M; Tschachler, E; Cavinato, M; Wedel, S; Jansen-Dürr, P; Nanic, L; Rubelj, I; El-Ghalbzouri, A; Zoratto, S; Marchetti-Deschmann, M; Grillari, J; Gruber, F; Lämmermann, I: Epilipidomics of Senescent Dermal Fibroblasts Identify Lysophosphatidylcholines as Pleiotropic Senescence-Associated Secretory Phenotype (SASP) Factors. **J Invest Dermatol**. 2021, 141(4S):993-1006.e15. doi: 10.1016/j.jid.2020.11.020.

7. Heissenberger, C; Rollins, JA; Krammer, TL; Nagelreiter, F; Stocker, I; Wacheul, L; Shpylovyi, A; Tav, K; Snow, S; Grillari, J; Rogers, AN; Lafontaine, DLJ; Schosserer, M*: The ribosomal RNA m^5C methyltransferase NSUN-1 modulates healthspan and oogenesis in

Caenorhabditis elegans. **eLife.** 2020, 9:e56205 doi: 10.7554/eLife.56205 (*corresponding author)

8. Kremslehner, C; Miller, A; Nica, R; Nagelreiter, IM; Narzt, MS; Golabi, B; Vorstandlechner, V; Mildner, M; Lachner, J; Tschachler, E; Ferrara, F; Klavins, K; Schosserer, M; Grillari, J; Haschemi, A; Gruber, F: Imaging of metabolic activity adaptations to UV stress, drugs and differentiation at cellular resolution in skin and skin equivalents - Implications for oxidative UV damage. **Redox Biol**. 2020, 101583. doi: 10.1016/j.redox.2020.101583

9. Strauss, FJ; Stähli, A; Kobatake, R; Tangl, S; Heimel, P; Apaza Alccayhuaman, KA; Schosserer, M; Hackl, M; Grillari, J; Gruber, R: miRNA-21 deficiency impairs alveolar socket healing in mice. **J Periodontol**. 2020, 91(12):1664-1672. doi: 10.1002/JPER.19-0567

10. Weinmüllner, R; Zbiral, B; Becirovic, A; Stelzer, EM; Nagelreiter, F; Schosserer, M; Lämmermann, I; Liendl, L; Lang, M; Terlecki-Zaniewicz, L; Andriotis, O; Mildner, M; Golabi, B; Waidhofer-Söllner, P; Schedle, K; Emsenhuber, G; Thurner, PJ; Tschachler, E; Gruber, F; Grillari, J: Organotypic human skin culture models constructed with senescent fibroblasts show hallmarks of skin aging. **NPJ Aging Mech Dis**. 2020, 6:4. doi: 10.1038/s41514-020-0042-x

11. Guo, S; Beleites, C; Neugebauer, U; Abalde-Cela, S; Afseth, NK; Alsamad, F; Anand, S; Araujo-Andrade, C; Aškrabić, S; Avci, E; Baia, M; Baranska, M; Baria, E; Batista de Carvalho, LAE; de Bettignies, P; Bonifacio, A; Bonnier, F; Brauchle, EM; Byrne, HJ; Chourpa, I; Cicchi, R; Cuisinier, F; Culha, M; Dahms, M; David, C; Duponchel, L; Duraipandian, S; El-Mashtoly, SF; Ellis, DI; Eppe, G; Falgayrac, G; Gamulin, O; Gardner, B; Gardner, P; Gerwert, K; Giamarellos-Bourboulis, EJ; Gizurarson, S; Gnyba, M; Goodacre, R; Grysan, P; Guntinas-Lichius, O; Helgadottir, H; Grošev, VM; Kendall, C; Kiselev, R; Kölbach, M; Krafft, C; Krishnamoorthy, S; Kubryck, P; Lendl, B; Loza-Alvarez, P; Lyng, FM; Machill, S; Malherbe, C; Marro, M; Marques, MPM; Matuszyk, E; Morasso, CF; Moreau, M; Muhamadali, H; Mussi, V; Notingher, I; Pacia, MZ; Pavone, FS; Penel, G; Petersen, D; Piot, O; Rau, JV; Richter, M; Rybarczyk, MK; Salehi, H; Schenke-Layland, K; Schlücker, S; Schosserer, M; Schütze, K; Sergo, V; Sinjab, F; Smulko, J; Sockalingum, GD; Stiebing, C; Stone, N; Untereiner, V; Vanna, R; Wieland, K; Popp, J; Bocklitz, T: Comparability of Raman Spectroscopic Configurations: A Large Scale Cross-Laboratory Study. **Anal Chem.** 2020, 92(24):15745-15756. doi: 10.1021/acs.analchem.0c02696

12. Heissenberger, C; Liendl, L; Nagelreiter, F; Gonskikh, Y; Yang, G; Stelzer, EM; Krammer, TL; Micutkova, L; Vogt, S; Kreil, DP; Sekot, G; Siena, E; Poser, I; Harreither, E; Linder, A; Ehret, V; Helbich, TH; Grillari-Voglauer, R; Jansen-Dürr, P; Koš, M; Polacek, N; Grillari, J; Schosserer, M*: Loss of the ribosomal RNA methyltransferase NSUN5 impairs global protein synthesis and normal growth. **Nucleic Acids Research**. 2019, 47(22):11807-11825. doi: 10.1093/nar/gkz1043 (*corresponding author)

13. Terlecki-Zaniewicz, L; Pils, V; Bobbili, MR; Lämmermann, I; Perrotta, I; Grillenberger, T; Schwestka, J; Weiß, K; Pum, D; Arcalis, E; Schwingenschuh, S; Birngruber, T; Brandstetter, M; Heuser, T; Schosserer, M; Morizot, F; Mildner, M; Stöger, E; Tschachler, E; Weinmüllner, R; Gruber, F; Grillari, J: Extracellular Vesicles in Human Skin: Cross-Talk from Senescent Fibroblasts to Keratinocytes by miRNAs. **J Invest Dermatol**. 2019, 139(12):2425-2436. doi: 10.1016/j.jid.2019.05.015

14. Nagelreiter, F; Coats, MT; Klanert, G; Gludovacz, E; Borth, N; Grillari, J; Schosserer, M*: OPP Labeling Enables Total Protein Synthesis Quantification in CHO Production Cell Lines at the Single-Cell Level. **Biotechnol J.** 2018, 13(4):e1700492. doi: 10.1002/biot.201700492 (*corresponding author)

15. Barwari, T; Eminaga, S; Mayr, U; Lu, R; Armstrong, PC; Chan, MV; Sahraei, M; Fernández-Fuertes, M; Moreau, T; Barallobre-Barreiro, J; Lynch, M; Yin, X; Schulte, C; Baig, F; Pechlaner, R; Langley, SR; Zampetaki, A; Santer, P; Weger, M; Plasenzotti, R; Schosserer, M; Grillari, J; Kiechl, S; Willeit, J; Shah, AM; Ghevaert, C; Warner, TD; Fernández-Hernando, C; Suárez, Y; Mayr, M: Inhibition of profibrotic microRNA-21 affects platelets and their releasate. **JCI Insight**. 2018; 3(21). doi: 10.1172/jci.insight.123335

16. Lämmermann, I; Terlecki-Zaniewicz, L; Weinmüllner, R; Schosserer, M; Dellago, H; Branco, A; Autheried, D; Sevcnikar, B; Kleissl, L; Berlin, I; Morizot, F; Lejeune, F; Fuzzati, N; Forestier, S; Toribio, A; Tromeur, A; Weinberg, L; Almaraz, J; Scheideler, M; Rietveld, M; El Ghalbzouri, A; Tschachler, E; Gruber, G; Grillari, J: Blocking negative effects of senescence in human skin fibroblasts with a plant extract. **NPJ Aging Mech Dis**. 2018; 4:4. doi: 10.1038/s41514-018-0023-5

17. Hager, S; Korbula, K; Bielec, B; Grusch, M; Pirker, C; Schosserer, M; Liendl, L; Lang, M; Grillari, J; Nowikovsky, K; Pape, VFS; Mohr, T; Szakács, G; Keppler, BK; Berger, W; Kowol, CR; Heffeter, P: The thiosemicarbazone Me2NNMe2 induces paraptosis by disrupting the ER thiol redox homeostasis based on protein disulfide isomerase inhibition, **Cell Death Dis**. 2018; 9(11):1052. doi: 10.1038/s41419-018-1102-z

18. Weinmuellner, R; Kryeziu, K; Zbiral, B; Tav, K; Schoenhacker-Alte, B; Groza, D; Wimmer, L; Schosserer, M; Nagelreiter, F; Rösinger, S; Mildner, M; Tschachler, E; Grusch, M; Grillari, J; Heffeter, P: Long-term exposure of immortalized keratinocytes to arsenic induces EMT, impairs differentiation in organotypic skin models and mimics aspects of human skin derangements. **Arch Toxicol**. 2018; 92(1):181-194. doi: 10.1007/s00204-017-2034-6

19. Garschall, K; Dellago, H; Gáliková, M; Schosserer, M*; Flatt, T*; Grillari, J: Ubiquitous overexpression of the DNA repair factor dPrp19 reduces DNA damage and extends Drosophila life span. **NPJ Aging Mech Dis**. 2017; 3(5). doi: 10.1038/s41514-017-0005 (*corresponding authors)

20. Prats Mateu, B; Harreither, E; Schosserer, M; Puxbaum, V; Gludovacz, E; Borth, N; Gierlinger, N; Grillari, J: Label-free live cell imaging by Confocal Raman Microscopy identifies CHO host and producer cell lines. **Biotechnol J**. 2017; 12(1). doi: 10.1002/biot.201600037

21. Wallner, J; Lhota, G; Schosserer, M; Vorauer-Uhl, K: An approach for liposome immobilization using sterically stabilized micelles (SSMs) as a precursor for bio-layer interferometry-based interaction studies. **Colloids and Surfaces B: Biointerfaces**. 2017; 154: 186-194. doi: 10.1016/j.colsurfb.2017.03.015

22. Schosserer, M; Minois, N; Angerer, TB; Amring, M; Dellago, H; Harreither, E; Calle-Perez, A; Pircher, A; Gerstl, MP; Pfeifenberger, S; Brandl, C; Mohr, T; Sonntagbauer, M; Kriegner, A; Linder, A; Weinhäusel, A; Steiger, M; Mattanovich, D; Rinnerthaler, M; Karl, T; Sharma, S;

Entian, KD; Kos, M; Breitenbach, M; Wilson, IBH; Polacek, N; Grillari-Voglauer, R; Breitenbach-Koller, L; Grillari, J: Methylation of ribosomal RNA by NSUN5 is a conserved mechanism modulating organismal lifespan. **Nature Communications**. 2015; 6/6158. doi: 10.1038/ncomms7158

23. Dellago, H; Preschitz-Kammerhofer, B; Terlecki-Zaniewicz, L; Schreiner, C; Fortschegger, K; Chang, MW; Hackl, M; Monteforte, R; Kühnel, H; Schosserer, M; Gruber, F; Tschachler, E; Scheideler, M; Grillari-Voglauer, R; Grillari, J; Wieser, M: High levels of oncomiR-21 contribute to the senescence induced growth arrest in normal human cells and its knock-down increases the replicative life span. **Aging Cell**. 2013; Jun;12(3):446-58. doi: 10.1111/acel.12069

Original research articles in standard journals

1. Steinkellner, H; Madritsch, S; Kluge, M., Seipel, T; Sarne, V; Huber, A; Schosserer, M; Oberle, R; Neuhaus, W; Beribisky, AV; Laccone, F: RNA Sequencing and Weighted Gene Co-Expression Network Analysis Highlight DNA Replication and Key Genes in Nucleolin-Depleted Hepatoblastoma Cells. Genes, 15(12), 1514. doi: 10.3390/genes15121514.

2. Mazidi, Z; Wieser, M; Spinu, N; Weidinger, A; Kozlov, AV; Vukovic, K; Wellens, S; Murphy, C; Singh, P; Lagares, LM; Bobbili, MR; Liendl, L; Schosserer, M; Diendorfer, A; Bettelheim, D; Eilenberg, W; Exner, T; Culot, M; Jennings, P; Wilmes, A; Novic, M; Benfenati, E; Grillari-Voglauer, R; Grillari, J: Cyclosporin A toxicity on endothelial cells differentiated from induced pluripotent stem cells: Assembling an adverse outcome pathway. **Toxicology in vitro** 2024, 105954. doi: 10.1016/j.tiv.2024.105954.

3. Yang, G; Schmid-Siegel, M; Heissenberger, C; Kos-Braun, I; Prechtl, M; Meca-Laguna, G; Rocha, M; Wagner-Schrittwieser, A; Pils, V; Meixner, B; Tav, K; Hengstschläger, M; Grillari, J; Kos, M; Schosserer, M*: 2'-O-ribose methylation levels of ribosomal RNA can distinguish different types of growth arrest in human dermal fibroblasts. **J Cell Sci.** 2024, 137 (3): jcs261930. doi: 10.1242/jcs.261930. (*corresponding author)

4. Gludovacz, E; Schuetzenberger, K; Resch, M; Tillmann, K; Petroczi, K; Vondra, S; Vakal, S; Schosserer, M; Virgolini, N; Pollheimer, J; Salminen, TA; Jilma, B; Borth, N; Boehm, T: Human diamine oxidase cellular binding and internalization in vitro and rapid clearance in vivo are not mediated by N-glycans but by heparan sulfate proteoglycan interactions. **Glycobiology**. 2021, 31(4):444-458. doi: 10.1093/glycob/cwaa090.

5. Schwarze, UY; Ni, Y; Zhou, Y; Terlecki-Zaniewicz, L; Schosserer, M; Hackl, M; Grillari, J; Gruber, R: Size changes in miR-21 knockout mice: Geometric morphometrics on teeth, alveolar bone and mandible. **Mol Med Rep**. 2021, 23(4):1-7. doi: 10.3892/mmr.2021.11924.

6. Gonskikh, Y; Gerstl, M; Kos, M; Borth, N; Schosserer, M; Grillari, J; Polacek, N: Modulation of mammalian translation by a ribosome-associated tRNA half. **RNA Biol**. 2020, 17(8):1125-1136. doi: 10.1080/15476286.2020.1744296

7. Adamla, F; Rollins, J; Newsom, M; Snow, S; Schosserer, M; Heissenberger, C; Horrocks, J; Rogers, AN; Ignatova, Z: A Novel Caenorhabditis Elegans Proteinopathy Model Shows Changes in mRNA Translational Frameshifting During Aging. **Cell Physiol Biochem**. 2019, 52(5):970-983. doi: 10.33594/000000067

8. Terlecki-Zaniewicz, L; Lämmermann, I; Latreille, J; Bobbili, MR; Pils, V; Schosserer, M; Weinmüllner, R; Dellago, H; Skalicky, S; Pum, D; Almaraz, JCH; Scheideler, M; Morizot, F; Hackl, M; Gruber, F; Grillari, J: Small extracellular vesicles and their miRNA cargo are anti-apoptotic members of the senescence-associated secretory phenotype. **Aging (Albany NY)**. 2018; 10(5):1103-1132. doi: 10.18632/aging.101452

9. Khan, A; Dellago, H; Terlecki-Zaniewicz, L; Karbiener, M; Weilner, S; Hildner, F; Steininger, V; Gabriel, C; Mück, C; Jansen-Dürr, P; Hacobian, A; Scheideler, M; Grillari-Voglauer, R; Schosserer, M*; Grillari, J*: SNEV(hPrp19/hPso4) Regulates Adipogenesis of Human Adipose Stromal Cells. **Stem Cell Reports**. 2017; 8(1):21-29. doi: 10.1016/j.stemcr.2016.12.001 (*corresponding authors)

10. Schosserer, M*; Reynoso, R*; Wally, V*; Jug, B; Kantner, V; Weilner, S; Buric, I; Grillari, J; Bauer, JW; Grillari-Voglauer, R: Urine is a novel source of autologous mesenchymal stem cells for patients with epidermolysis bullosa. **BMC Res Notes**. 2015; 8(1):767. doi: 10.1186/s13104-015-1686-7 (*equally contributing authors)

11. Löscher, M*; Schosserer, M*; Dausse, E; Lee, K; Ajuh, P; Lamond, AI; Grillari-Voglauer, R; Toulmé, JJ; Grillari, J: Inhibition of pre-mRNA splicing by a Blom7α-interacting small RNA. **PLoS ONE.** 2012; 7(10): e47497. doi: 10.1371/journal.pone.0047497 (*equally contributing authors in alphabetical order)

12. Dellago, H; Khan, A; Nussbacher, M; Gstraunthaler, A; Lämmermann, I; Schosserer, M; Mück, C; Anrather, D; Scheffold, A; Ammerer, G; Jansen-Dürr, P; Rudolph, KL; Voglauer-Grillari, R; Grillari, J: ATM-dependent phosphorylation of SNEV$^{hPrp19/hPso4}$ is involved in extending cellular life span and suppression of apoptosis. **Aging (Albany NY)**. 2012; 4(4): 290-304. doi: 10.18632/aging.100452

Reviews and editorials in top journals (top 20% of journals according to JCR)

1. Madreiter-Sokolowski, CT; Hiden, U; Krstic, J; Panzitt, K; Wagner, M; Enzinger, C; Khalil, M; Abdellatif, M; Malle, E; Madl, T; Osto, E; Schosserer, M; Binder, CJ; Olschewski, A: Targeting organ-specific mitochondrial dysfunction to improve biological aging. **Pharmacol. Ther.** 2024, 262:108710. doi: 10.1016/j.pharmthera.2024.108710.

2. Wagner, A; Schosserer, M*: The epitranscriptome in ageing and stress resistance: A systematic review. **Ageing Res Rev**. 2022, 81:101700. doi: 10.1016/j.arr.2022.101700

3. Schosserer, M*: The role and biology of senescent cells in ageing-related tissue damage and repair. **Mech Ageing Dev**. 2022, 202:111629. doi: 10.1016/j.mad.2022.111629 (*corresponding author)

4. Pils, V; Ring, N; Valdivieso, K; Lämmermann, I; Gruber, F; Schosserer, M; Grillari, J; Ogrodnik, M: Promises and challenges of senolytics in skin regeneration, pathology and ageing. **Mech Ageing Dev**. 2021, 200:111588. doi: 10.1016/j.mad.2021.111588

5. Pils, V; Terlecki-Zaniewicz, L; Schosserer, M; Grillari, J; Lämmermann, I: The role of lipid-based signalling in wound healing and senescence. **Mech Ageing Dev**. 2021, 198:111527. doi: 10.1016/j.mad.2021.111527

6. Schosserer, M; Banks, G; Dogan, S; Dungel, P; Fernandes, A; Presen, DM; Matheu, A; Osuchowski, M; Potter, P; Sanfeliu, C; Tuna, BG; Varela-Nieto, I; Bellantuono, I: Modelling physical resilience in ageing mice. **Mech Ageing Dev**. 2019, 177:91-102. doi: 10.1016/j.mad.2018.10.001

7. Cardoso, AL; Fernandes, A; Aguilar-Pimentel, JA; de Angelis, MH; Guedes, JR; Brito, MA; Ortolano, S; Pani, G; Athanasopoulou, S; Gonos, ES; Schosserer, M; Grillari, J; Peterson, P; Tuna, BG; Dogan, S; Meyer, A; van Os, R; Trendelenburg, AU: Towards frailty biomarkers: Candidates from genes and pathways regulated in aging and age-related diseases. **Ageing Res Rev**. 2018; 47:214-277. doi: 10.1016/j.arr.2018.07.004

Reviews and editorials in standard journals

1. Lushchak, O; Schosserer, M; Grillari, J: Senopathies - Diseases Associated with Cellular Senescence. **Biomolecules.** 2023, 13(6): 966. doi: 10.3390/biom13060966

2. Liendl, L; Schosserer, M*: Raman microspectroscopy: sub-cellular chemical imaging of aging. **Aging (Albany NY).** 2021, 13(23):24922-24923. doi: 10.18632/aging.203785 (*corresponding author)

3. Cavinato, M; Madreiter-Sokolowski, CT; Büttner, S; Schosserer, M*; Zwerschke, W; Wedel, S; Grillari, J; Graier, WF; Jansen-Dürr, P: Targeting cellular senescence based on interorganelle communication, multilevel proteostasis and metabolic control. **FEBS J.** 2021, 288(12):3834-3854. doi: 10.1111/febs.15631 (*corresponding author)

4. Gruber, F; Marchetti-Deschmann, M; Kremslehner, C; Schosserer, M: The Skin Epilipidome in Stress, Aging, and Inflammation. **Front Endocrinol (Lausanne).** 2021, 11:607076. doi: 10.3389/fendo.2020.607076

5. Liendl, L; Grillari, J; Schosserer, M*: Raman fingerprints as promising markers of cellular senescence and aging. **Geroscience**. 2020, 42(2):377-387. doi: 10.1007/s11357-019-00053-7 (*corresponding author)

6. Schosserer, M; Grillari, J; Wolfrum, C; Scheideler, M: Age-Induced Changes in White, Brite, and Brown Adipose Depots: A Mini-Review. **Gerontology**. 2018, 64(3):229-236. doi: 10.1159/000485183

7. Schosserer, M*; Grillari, J; Breitenbach, M: The Dual Role of Cellular Senescence in Developing Tumors and Their Response to Cancer Therapy. **Front Oncol**. 2017; 7:278. doi: 10.3389/fonc.2017.00278 (*corresponding author)

8. Schosserer, M; Grubeck-Loebenstein, B; Grillari J: Grundlagen der biologischen Alterung [principles of biological aging]. **Z Gerontol Geriatr**. 2015; 48(3):285-294. doi: 10.1007/s00391-015-0857-4

9. Schosserer, M; Grillari, J: More than 50 years of cellular senescence: From in vitro model to potential drug target? **J Gerontol Geriatr Res.** 2014; 3(5): e131. doi: 10.4172/2167-7182.1000E131

Book chapters

1. Schosserer, M; Grillari, J (2017): Biologische Grundlagen des Alterns und dessen Relevanz für die Lebensqualität, In: Likar, R; Bernatzky, G; Pinter, G; Pipam, W; Janig, H; Sadjak, A, Lebensqualität im Alter, 3-13; **Springer, Berlin, Heidelberg**; ISBN 978-3-662-53100-6

Invited seminars

1. Schosserer, M. (2024): Exploring Ribosomal RNA Modifications in Cellular and Organismal Aging. Healthy Longevity Webinar, NUS Yong Loo Lin School of Medicine, DEC 12, 2024, SINGAPORE (virtual)

2. Schosserer, M. (2023): Ribosomal RNA modifications in cellular and organismal aging. Institute for Biological Research "Sinisa Stankovic", National Institute of Republic of Serbia, University of Belgrade, NOV 15, 2023, Belgrade, SERBIA

3. Schosserer, M. (2023): Altered protein synthesis and RNA modification patterns in cellular senescence of human skin cells. Center for Anatomy and Cell Biology, Medical University of Vienna, APR 26, 2023, Vienna, AUSTRIA

4. Schosserer, M. (2023): m^5C-modifications of ribosomal RNA modulate healthy lifespan and development. Max F. Perutz Laboratories, MAR 29, 2023, Vienna, AUSTRIA

5. Schosserer, M. (2021): Ribosome heterogeneity by rRNA methylation modulates aging of cells and organisms. SynAGE Guest Lecture, NOV 03, 2021, Magdeburg, GERMANY (VIRTUAL)

6. Schosserer, M. (2021): Methylations of ribosomal RNA – Novel players in aging and cellular senescence. MDIBL Department Seminar, FEB 2, 2021, USA (VIRTUAL)

7. Schosserer, M. (2020): Methylations of ribosomal RNA modulate ribosome function and healthy ageing. Research Training Group CEMMA (cellular and molecular mechanisms in aging), JAN 31, 2020, Ulm, GERMANY

Conference & workshop proceedings
(*presenting author)

1. Schmid-Siegel, M*; Wagner, A; Yang, G; Nagelreiter, F; Tav, K; Rocha, M; Hengstschläger, M; Kos, M; Gruber, F; Schosserer, M (2023): Cellular senescence affects the epitranscriptome of skin cells. J INVEST DERMATOL. 2023; 143(5): S143.

2. Yang, G; Nagelreiter, F; Schmid-Siegel, M; Heissenberger, C; Schosserer, M* (2022): Ribosome heterogeneity by rRNA methylation in skin cell senescence. J INVEST DERMATOL. 2022; 142(12): S227.

3. Schosserer, M*; Nagelreiter, F; Yang, G; Liendl, L; Heissenberger, C; Gonskikh, Y; Polacek, N; Kos, M (2022): Heterogenous ribosomes in human dermal fibroblast senescence. Tissue Engineering Part A 2022; 28: S243-S244.

4. Gruber, F; Kremslehner, C; Miller, A; Nica, R; Nagelreiter, IM; Golabi, B; Mildner, M; Tschachler, E; Ferrara, F; Klavins, K; Schosserer, M; Grillari, J; Haschemi, A (2022): Imaging of metabolic activity adaptations to UV stress, drugs and differentiation at cellular resolution in skin and organotypic skin equivalents. Tissue Engineering Part A 2022; 28: S361-S361.

5. Nagelreiter, F; Yang, G; Heissenberger, C; Gonskikh, Y; Polacek, N; Grillari, J; Kos, M; Schosserer, M* (2019): Specialized ribosomes in human dermal fibroblast senescence. J INVEST DERMATOL. 2019; 139(9): S268-S268.

6. Schosserer, M*; Rollins, JA; Heissenberger, C; Nagelreiter, F; Snow, S; Rogers, A; Grillari, J (2017): Characterization of ribosomal RNA methylations modulating life- and healthspan of Caenorhabditis elegans. EXP GERONTOL. 2017; 94: 114-115.

7. Nagelreiter, F*; Weinmullner, R; Erker, T; Grillari, J; Schosserer, M (2017): Impact of resveratrol analogues on a 3D in vitro model of human skin. EXP GERONTOL. 2017; 94: 116-117.

8. Heissenberger, C*; Dimitrijevic, N; Gonskikh, Y; Linder, A; Grillari-Voglauer, R; Kos, M; Polacek, N; Grillari, J; Schosserer, M (2017): NSUN5 methylates ribosomal RNA and modulates ribosome function in human cells. EXP GERONTOL. 2017; 94: 115-116.

9. Fuchs, E*; Schosserer, M; Linder, A; Wilson, IBH; Grillari, J (2011): NOPSI is a novel modulator of the lifespan of Caenorhabditis elegans. EXP GERONTOL. 2011; 46(2-3): 208-209.

10. Schosserer, M*; Minois, N; Bakowska-Zywicka, K; Fuchs, E; Sekot, G; Grillari-Voglauer, R; Polacek, N; Grillari, J (2011): The novel RNA-methyl-transferase NOPSI modulates the life span of Drosophila melanogaster. EXP GERONTOL. 2011; 46(2-3): 209-209.

11. Schosserer, M*; Minois, N; Lindner, A; Sekot, G; Katinger, H; Voglauer, R; Grillari, J (2009): The novel protein Nopsi and its impact on the life span of Drosophila melanogaster. EXP GERONTOL. 2009; 44(1-2): 22.

12. Schosserer, M*; Lee, K; Loscher, M; Ajuh, P; Denegri, M; Lamond, AI; Katinger, H; Voglauer, R; Grillari, J (2007): Blom7 - a novel splicing factor involved in cellular aging.

FEBS J. 2007; 274: 361-361.

Unpublished presentations at scientific conferences and workshops (*presenting author)

1. Liendl, L; Wagner-Schrittwieser, A; Winter, C; Papp, L; Heissenberger, C; Schmid-Siegel, M; Tav, K; Hengstschläger, Schosserer, M* (2024): The role of the ribosomal RNA methyltransferase Nsun5 in aging and physiology of mice. Precision Medicine Forum: RNA Modifications and Epitranscriptomics, NOV 14-15, 2024, Brussels, BELGIUM **[poster]**

2. Wagner-Schrittwieser, A; Schmid-Siegel, M; Yang, G; Bosch, A; Tav, K; Martic, I; Kremslehner, C; Tessier, A; Gendronneau, G; Hengstschläger, M; Cavinato, M; Gruber, F; Schosserer, M* (2024): The epitranscriptome and small nucleolar RNAs in cellular senescence and skin aging. Skin Aging & Challenges Conference, NOV 5-6, 2024, San Anton, MALTA **[invited talk]**

3. Schmid-Siegel, M; Liendl, L; Tav, K; Tessier, A; Gendronneau, G; Hengstschläger, M; Gruber, F; Schosserer, M* (2024): Raman fingerprints & non-invasive methods to evaluate skin aging. Skin Aging & Challenges Conference, NOV 5-6, 2024, San Anton, MALTA **[invited talk]**

4. Liendl, L; Wagner-Schrittwieser, A; Winter, C; Papp, L; Heissenberger, C; Schmid-Siegel, M; Tav, K; Hengstschläger, Schosserer, M* (2024): The role of the ribosomal RNA methyltransferase Nsun5 in aging and physiology of mice. ÖGMBT Annual Meeting, SEP 17-19, 2024, Graz, AUSTRIA **[talk selected from abstracts]**

5. Wagner-Schrittwieser, A; Bosch, A; Schmid-Siegel, M; Tav, K; Martic, I; Kremslehner, C; Hengstschläger, M; Tessier, A; Gendronneau, G; Cavinato, M; Gruber, F; Schosserer, M* (2024): Exploring ribosomal RNA modifications and corresponding snoRNAs in human skin cell senescence. 53rd ESDR Annual Meeting, SEP 4-7, 2024, Lisbon, PORTUGAL **[poster walk presentation]**

6. Wagner-Schrittwieser, A; Bosch, A; Kremslehner, C; Martic, I; Clarke, M; Nagelreiter, I; Schmid-Siegel, M; Tav, K; Hengstschläger, M; Cavinato, M; Gruber, F; Schosserer, M* (2024): Exploring ribosomal RNA modifications in cellular and organismal aging by Nanopore direct RNA sequencing. The 11th Aging Research and Drug Discovery Meeting, AUG 26-30, 2024, Copenhagen, DENMARK **[poster]**

7. Liendl, L; Wagner-Schrittwieser, A; Winter, C; Papp, L; Heissenberger, C; Schmid-Siegel, M; Tav, K; Hengstschläger, Schosserer, M* (2024): The role of the ribosomal RNA methyltransferase Nsun5 in aging and physiology of mice. The 16th International Symposium on Neurobiology and Neuroendocrinology of Aging, JUL 12-17, 2024, Bregenz, AUSTRIA **[poster]**

8. Schosserer, M* (2024): The biology of RNA modifications and their role in cellular and organismal ageing. Vienna Aging Minisymposium: Aging across scales and systems, JUN 21, Vienna, AUSTRIA **[invited talk]**

9. Schosserer, M* (2024): The biology of RNA modifications and their role in cellular and organismal ageing. India|EMBO Lecture Course: Post-transcriptional regulation in ageing and age-related diseases, JUN 10-15, Greater Noida/New Delhi, INDIA **[invited talk]**

10. Wagner-Schrittwieser, A; Bosch, A; Kremslehner, C; Martic, I; Clarke, M; Nagelreiter, I; Schmid-Siegel, M; Tav, K; Hengstschläger, M; Cavinato, M; Gruber, F; Schosserer, M* (2024): Exploring ribosomal RNA modifications in cellular and organismal aging by Nanopore direct RNA sequencing. The 37th Annual AFAR Grantee Conference, MAY 29-31, 2024, Santa Barbara, USA **[datablitz talk/poster]**

11. Wagner-Schrittwieser, A; Schmid-Siegel, M; Yang, G; Bosch, A; Tav, K; Kremslehner, C; Hengstschläger, M; Gruber, F; Schosserer, M* (2024): Exploring ribosomal RNA modifications in human skin cell senescence. 50th ADF Annual Meeting, MAR 06-08, 2024, Düsseldorf, GERMANY **[talk selected from abstracts/poster]**

12. Wagner-Schrittwieser, A; Schmid-Siegel, M; Yang, G; Bosch, A; Tav, K; Kremslehner, C; Hengstschläger, M; Gruber, F; Schosserer, M* (2024): Exploring ribosomal RNA modifications in human skin cell senescence. 3rd NETSKINMODELS Meeting, FEB 28-MAR 01, 2024, Rome, ITALY **[poster]**

13. Wagner-Schrittwieser, A*; Schosserer, M (2023): Deciphering rRNA modification changes in cellular and organismal aging by direct RNA sequencing. Keystone Symposia: RNA Modifications in Health and Disease, DEC 12-15, 2023, Banff, CANADA **[talk selected from abstracts]**

14. Liendl, L; Wagner, A; Papp, L; Heissenberger, C; Hengstschläger, M; Schosserer, M* (2023): The role of the ribosomal RNA methyltransferase Nsun5 in aging and physiology of mice. Keystone Symposia: RNA Modifications in Health and Disease, DEC 12-15, 2023, Banff, CANADA **[poster]**

15. Schosserer, M* (2023): Exploring the epitranscriptome in cellular and organismal aging. Epigenetics Workshop, Medical University of Vienna, NOV 29, 2023, Vienna, AUSTRIA **[invited talk]**

16. Liendl, L; Wagner, A; Papp, L; Heissenberger, C; Hengstschläger, M; Schosserer, M* (2023): Deletion of the RNA methyltransferase Nsun5 reduces frailty in mice. 15th ÖGMBT Annual Meeting, SEP 19-21, 2023, Salzburg, AUSTRIA **[poster]**

17. Wagner, A*; Schosserer, M (2023): Oxford Nanopore sequencing reveals changes in ribosomal RNA modifications in a cellular skin aging model. ÖGMBT annual meeting "Life sciences and cutting-edge technologies", SEP 19-21, 2023, Salzburg, AUSTRIA **[talk selected from abstracts]**

18. Nagelreiter, F; Yang, G; Schmid-Siegel, M; Gonskikh, Y; Heissenberger, C; Tav, K; Polacek, N; Grillari, J; Kos, M; Hengstschläger, M; Schosserer, M* (2023): Altered protein synthesis in cellular senescence of human dermal fibroblasts. 2nd NETSKINMODELS Meeting, SEP 13-15, 2023, Porto, PORTUGAL **[poster]**

19. Schosserer M* (2023): Ribosome heterogeneity by rRNA methylation in skin cell senescence. Halle Aging Meeting: "Modifying Cardiovascular Ageing: From old cells to elderly patients", SEP 01-03, 2023, Halle/Saale, GERMANY **[invited talk]**

20. Schosserer M* (2023): Studying the epitranscriptome in cellular and organismal aging by direct RNA Nanopore sequencing. Halle Aging Meeting – Bioinformatics Satellite Workshop, SEP 01, 2023, Halle/Saale, GERMANY **[invited talk]**

21. Clarke, MN*; Krammer, TL; Heissenberger, C; Rubio Bellostas, P; Tasoula, A; Hengstschläger, M; Schosserer, M (2023): "Loss of RRP-8 extends healthy lifespan in Caenorhabditis elegans", The 10th Aging Research and Drug Discovery Meeting, AUG 29 - SEP 2, 2023, Copenhagen, DENMARK **[poster]**

22. Liendl, L; Wagner, A; Papp, L; Heissenberger, C; Hengstschläger, M; Schosserer, M* (2023): Deletion of the RNA methyltransferase Nsun5 reduces frailty in mice. Gordon Research Conference "Biology of Aging", JUL 02-07, 2023, Castelldefels, SPAIN **[poster]**

23. Schosserer M* (2023): Raman microspectroscopy for label-free non-invasive imaging of biological tissues. Annual Meeting of the Society for Free Radical Research – Europe (SFRR-E), JUN 07-09, 2023, Vienna, AUSTRIA **[invited talk]**

24. Liendl, L; Wagner, A; Papp, L; Heissenberger, C; Hengstschläger, M; Schosserer, M* (2023): Deletion of the RNA methyltransferase Nsun5 reduces frailty in mice. Gordon Research Conference "RNA Editing", MAR 19-24, 2023, Ventura, USA **[poster]**

25. Nagelreiter, F; Yang, G; Schmid-Siegel, M; Gonskikh, Y; Heissenberger, C; Tav, K; Polacek, N; Grillari, J; Kos, M; Hengstschläger, M; Schosserer, M* (2023): Altered protein synthesis in cellular senescence of human dermal fibroblasts. ADF Annual Meeting, FEB 23-25, 2023, Innsbruck, AUSTRIA **[poster]**

26. Nagelreiter, F; Yang, G; Schmid-Siegel, M; Gonskikh, Y; Heissenberger, C; Tav, K; Polacek, N; Grillari, J; Kos, M; Hengstschläger, M; Schosserer, M* (2023): Altered protein synthesis in cellular senescence of human dermal fibroblasts. Meeting of the Working Group "Dermato-Endocrinology", FEB 22, 2023, Innsbruck, AUSTRIA **[invited talk]**

27. Schosserer, M* (2023): Senescent dermal fibroblasts and keratinocytes contribute to human skin aging. 1st NETSKINMODELS Meeting, FEB 15-17, 2023, Bratislava, SLOVAKIA **[selected talk from abstracts]**

28. Nagelreiter, F; Yang, G; Schmid-Siegel, M; Gonskikh, Y; Heissenberger, C; Tav, K; Polacek, N; Grillari, J; Kos, M; Hengstschläger, M; Schosserer, M* (2023): Altered protein synthesis in cellular senescence. SENIOPROM Kick-Off Meeting, FEB 01-02, 2023, Innsbruck, AUSTRIA **[invited talk]**

29. Liendl, L; Wagner, A; Papp, L; Heissenberger, C; Schosserer, M* (2022): Deletion of the RNA methyltransferase Nsun5 reduces frailty in mice. Vienna RNA Conference – RNA modification and processing, OCT 26 - 29, 2022, Vienna, AUSTRIA **[invited talk]**

30. Nagelreiter, F; Yang, G; Schmid-Siegel, M; Heissenberger, C; Gonskikh, Y; Polacek, N; Grillari, J; Kos, M; Schosserer, M* (2022): Ribosome heterogeneity by rRNA methylation in skin cell senescence. 51st Anniversary ESDR Annual Meeting, SEP 28 – OCT 1, 2022, Amsterdam, NETHERLANDS **[selected talk from abstracts]**

31. Liendl, L; Wagner, A; Papp, L; Heissenberger, C; Schosserer, M* (2022): Deletion of the RNA methyltransferase Nsun5 reduces frailty in mice. The 9th Aging Research and Drug Discovery Meeting, AUG 29 - SEP 2, 2022, Copenhagen, DENMARK **[selected talk from abstracts]**

32. Liendl, L; Heissenberger, C; Wagner, A; Papp, L; Schosserer, M* (2022): Two specific m^5C-modifications of ribosomal RNA distinctly modulate healthy lifespan and development. EMBO Workshop – Ribosome Synthesis, AUG 17-21, 2022, Engelberg, SWITZERLAND **[Invited Talk]**

33. Liendl, L; Wagner, A; Papp, L; Heissenberger, C; Schosserer, M* (2022): Deletion of the RNA methyltransferase Nsun5 reduces frailty in mice. The 15th International Symposium on Neurobiology and Neuroendocrinology of Aging, JUL 15-19, 2022, Bregenz, AUSTRIA **[Poster]**

34. Liendl, L; Wagner, A; Papp, L; Heissenberger, C; Schosserer, M* (2022): Nsun5 deletion promotes healthy aging in mice. International Symposium: "Aging across species", JUL 11-12, 2022, Graz, AUSTRIA **[Invited Talk]**

35. Yang, G; Nagelreiter, F; Heissenberger, C; Gonskikh, Y; Polacek, N; Grillari, J; Kos, M; Schosserer, M* (2022): Ribosome heterogeneity by rRNA methylation in skin cell senescence. TERMIS EU-Chapter Meeting, JUN 28 – JUL 01, 2022, Krakow, POLAND **[Poster]**

36. Nagelreiter, F; Yang, G; Heissenberger, C; Gonskikh, Y; Polacek, N; Kos, M; Grillari, J; Schosserer, M* (2022): The role of protein synthesis and RNA modifications in cellular senescence. Austrian Cluster for Tissue Regeneration Annual Meeting, APR 27-28, 2022, Vienna, AUSTRIA **[Invited Talk]**

37. Schosserer, M* (2022): Ribosome heterogeneity in skin cell senescence. TERMIS Winter School 2022, MAR 05-08, 2022, Radstadt, AUSTRIA **[Invited Talk]**

38. Nagelreiter, F; Yang, G; Heissenberger, C; Gonskikh, Y; Polacek, N; Grillari, J; Kos, M; Schosserer, M* (2022): Ribosome heterogeneity by rRNA methylation in skin cell senescence. 2nd Euro Geroscience Conference, MAR 24-25, 2022, Toulouse, FRANCE **[Poster]**

39. Liendl, L; Heissenberger, C; Papp, L; Schosserer, M* (2022): Nsun5 deletion promotes healthy aging in mice. EMBO Workshop: "The epitranscriptome", FEB 9-11, 2022, Heidelberg, GERMANY (VIRTUAL) **[selected talk from abstracts]**

40. Schosserer, M* (2021): Cellular senescence and proliferation are associated with an altered ribosomal RNA methylation. RNA Biology forever - Vienna RNA Meeting 2021, SEP 28-29, 2021, Vienna, AUSTRIA **[Invited Talk]**

41. Schosserer, M* (2021): RNA modifications are novel modulators of aging and senescence. JOINT ARDRE & AGE_REG Symposium, APR 28-29, 2021, Innsbruck, AUSTRIA (VIRTUAL) **[Invited Talk]**

42. Nagelreiter, F; Yang, G; Heissenberger, C; Gonskikh, Y; Polacek, N; Grillari, J; Kos, M; Schosserer, M* (2021): Heterogenous ribosomes in human dermal fibroblast senescence. Virtual 50th Anniversary ESDR Annual Meeting, SEP 22-25, 2021, VIRTUAL **[Poster]**

43. Nagelreiter, F; Yang, G; Heissenberger, C; Gonskikh, Y; Polacek, N; Grillari, J; Kos, M; Schosserer, M* (2021): Heterogenous ribosomes in human dermal fibroblast senescence. EMBL Conference: Protein Synthesis and Translational Control, SEP 7-10, 2021, Heidelberg, GERMANY (VIRTUAL) **[Poster]**

44. Nagelreiter, F; Yang, G; Heissenberger, C; Gonskikh, Y; Polacek, N; Grillari, J; Kos, M; Schosserer, M* (2021): Heterogenous ribosomes in human dermal fibroblast senescence. The 8th Aging Research and Drug Discovery Meeting, AUG 30 - SEP 3, 2021, Copenhagen, DENMARK **[Poster]**

45. Nagelreiter, F; Yang, G; Heissenberger, C; Gonskikh, Y; Polacek, N; Grillari, J; Kos, M; Schosserer, M* (2021): Heterogenous ribosomes in human dermal fibroblast senescence. Tissue Engineering and Regenerative Medicine International Society (TERMIS) 6th World Congress, NOV 15-19, 2021, VIRTUAL **[Poster]**

46. Nagelreiter, F; Yang, G; Heissenberger, C; Gonskikh, Y; Polacek, N; Kos, M; Grillari, J; Schosserer, M* (2020): Specialized ribosomes in human dermal fibroblast senescence. Keystone Symposia: Intra- and Intercellular Mechanisms of Aging, FEB 09-13, 2020, Vancouver, CANADA **[Poster]**

47. Heissenberger, C; Krammer, TL; Stocker, I; Rollins, JA; Nagelreiter, F; Grillari, J; Lafontaine, DLJ; Rogers, A; Schosserer, M*. (2019): Two specific m5C-modifications of ribosomal RNA distinctly modulate healthy lifespan and development. 3rd Molecular Biology of Ageing Meeting (ERIBA), OCT 10-12, 2019, Groningen, NETHERLANDS **[Poster]**

48. Heissenberger, C; Krammer, TL; Stocker, I; Rollins, JA; Nagelreiter, F; Grillari, J; Lafontaine, DLJ; Rogers, A; Schosserer, M*. (2019): Two specific m5C-modifications of ribosomal RNA distinctly modulate healthy lifespan and development. 11th ÖGMBT Annual Meeting, SEP 16-18, 2019, Salzburg, AUSTRIA **[selected talk from abstracts]**

49. Heissenberger, C; Krammer, TL; Stocker, I; Rollins, JA; Nagelreiter, F; Grillari, J; Lafontaine, DLJ; Rogers, A; Schosserer, M*. (2019): Two specific m5C-modifications of ribosomal RNA distinctly modulate healthy lifespan and development. EMBO Workshop - Protein Synthesis and Translational Control, SEP 4-7, 2019, Heidelberg, GERMANY **[Poster]**

50. Heissenberger, C; Krammer, TL; Stocker, I; Rollins, JA; Nagelreiter, F; Grillari, J; Lafontaine, DLJ; Rogers, A; Schosserer, M*. (2019): Two specific m5C-modifications of ribosomal RNA distinctly modulate healthy lifespan and development. Gordon Conference "Biology of Aging", JUL 14-19, 2019, Newry, USA **[selected talk from abstracts]**

51. Heissenberger, C; Nagelreiter, F; Gonskikh, Y; Liendl, L; Koš, M; Polacek, N; Grillari, J; Schosserer, M* (2019): Loss of the ribosomal RNA methyltransferase NSUN5 impairs global protein synthesis and normal growth. Gordon Research Conference: "RNA Editing", MAR 24-29, 2019, Barga, ITALY **[Poster]**

52. Heissenberger, C; Rollins, JA; Krammer, T; Nagelreiter, F; Stelzer, E; Snow, S; Rogers, A; Grillari, J; Schosserer, M* (2018): Base methylations of ribosomal RNA modulate healthy lifespan and development in C. elegans. Cell Symposia: Aging and Metabolism, SEP 23-25, 2018, Sitges, SPAIN **[Poster]**

53. Heissenberger, C; Rollins, JA; Krammer, T; Nagelreiter, F; Stelzer, E; Snow, S; Rogers, A; Grillari, J; Schosserer, M* (2018): Ribosomal RNA methylation by rram-1 modulates healthy lifespan. ÖGMBT Annual Meeting, SEP 17-20, 2018, Vienna, AUSTRIA **[Poster]**

54. Liendl, L*; Heissenberger, C; Krammer, T; Plasenzotti, R; Grillari, J; Schosserer, M (2018): Nsun5 methylates 28S ribosomal RNA and modulates cell proliferation and aging. MouseAGE Annual Meeting, SEP 24-25, 2018, Rome, Italy **[Poster]**

55. Heissenberger, C; Rollins, JA; Krammer, T; Nagelreiter, F; Stelzer, E; Snow, S; Rogers, A; Grillari, J; Schosserer, M* (2018): Base methylations of ribosomal RNA modulate healthy lifespan and development in C. elegans. Cold Spring Harbor Laboratory Meeting: Translational Control, SEP 4-8, 2018, Cold Spring Harbor, USA **[Poster]**

56. Schosserer, M*; Heissenberger, C; Krammer, T; Nagelreiter, F; Grillari, J (2018): Ribosomal RNA methylation by rram-1 modulates healthy lifespan. 14th International Symposium on Neurobiology and Neuroendocrinology of Aging, JUL 15-20, 2018, Bregenz, AUSTRIA **[Invited Talk]**

57. Heissenberger, C; Rollins, JA; Krammer, T; Nagelreiter, F; Stelzer, E; Snow, S; Rogers, A; Grillari, J; Schosserer, M* (2018): Base methylations of ribosomal RNA modulate healthy lifespan and development in C. elegans. EMBO Workshop: C. elegans development, cell biology and gene expression, JUN 13-17, 2018, Barcelona, SPAIN **[Poster]**

58. Heissenberger, C*; Nagelreiter, F; Stelzer, E; Krammer, T; Gonskikh, Y; Koš, M; Polacek, N; Grillari, J; Schosserer, M (2018): NSUN5 methylates human and mouse 28S ribosomal

RNA and modulates cell proliferation . EMBL Conference - The Epitranscriptome, APR 25-27, 2018, Heidelberg, GERMANY **[Poster]**

59. Schosserer, M*; Heissenberger, C; Nagelreiter, F; Grillari, J (2017): Two specific rRNA base methylations modulate healthy lifespan, 2nd Molecular Meeting on the Biology of Ageing, OCT 8 - 11, 2017, Groningen, NETHERLANDS **[selected talk from abstracts]**

60. Schosserer, M*; Heissenberger, C; Nagelreiter, F; Grillari, J (2017): Two specific rRNA base methylations modulate healthy lifespan, Gordon Research Conference "Biology of Aging", JUL 9-14, 2017, Les Diablerets, SWITZERLAND **[Poster]**

61. Schosserer, M*; Heissenberger, C; Nagelreiter, F; Grillari, J (2017): Two specific rRNA base methylations modulate healthy lifespan, Gordon Research Seminar "Biology of Aging", JUL 8-9, 2017, Les Diablerets, SWITZERLAND **[selected talk from abstracts]**

62. Weinmüllner, R; Nagelreiter, F; Grillari, J; Schosserer, M* (2017): Detection of cellular senescence by Raman microspectroscopy, COST Action "Raman4Clinics" Annual Meeting, JUL 5-7, 2017, Belgrade, SERBIA **[Poster]**

63. Schosserer, M*; Heissenberger, C; Nagelreiter, F; Grillari, J (2017): Zwei spezifische Modifikationen der ribosomalen RNA modulieren die gesunde Lebensspanne, 12. Gemeinsamer Österreichisch-Deutscher Geriatriekongress "Geriatrie - Wissen und Forschung für ein gelingendes Alter(n)", APR 20-22, 2017, Vienna, AUSTRIA **[selected talk from abstracts]**

64. Schosserer, M*; Minois, N; Rollins, JA; Heissenberger, C; Nagelreiter, F; Snow, S; Pfeifenberger, S; Breitenbach-Koller, L; Rogers, A; Grillari, J (2017): Characterization of two ribosomal RNA base methylations modulating life- and healthspan, Gordon Research Conference: Translation Machinery in Health & Disease, MAR 19-24, 2017, Galveston, USA **[selected short talk as one of the two best GRS talks]**

65. Schosserer, M*; Minois, N; Rollins, JA; Heissenberger, C; Nagelreiter, F; Snow, S; Pfeifenberger, S; Breitenbach-Koller, L; Rogers, A; Grillari, J (2017): Characterization of two ribosomal RNA base methylations modulating life- and healthspan, Gordon Research Seminar (GRS): Translation Machinery in Health & Disease, MAR 18-19, 2017, Galveston, USA **[selected talk from abstracts]**

66. Nagelreiter, F*; Weinmüllner, R; Erker, T; Grillari, J; Schosserer, M (2016): Impact of resveratrol analogues on a 3D in vitro model of human skin, ÖGMBT Annual Meeting, SEP 12-14, 2016, Graz, AUSTRIA **[Poster]**

67. Schosserer, M*; Minois, N; Rollins, JA; Heissenberger, C; Nagelreiter, F; Snow, S; Pfeifenberger, S; Breitenbach-Koller, L; Rogers, A; Grillari, J (2016): Characterization of ribosomal RNA methylations modulating life- and healthspan, ÖGMBT Annual Meeting, SEP 12-14, 2016, Graz, AUSTRIA **[Poster]**

68. Nagelreiter, F*; Weinmüllner, R; Erker, T; Grillari, J; Schosserer, M (2016): Impact of resveratrol analogues on a 3D in vitro model of human skin, The Thirteenth International Symposium on Neurobiology and Neuroendocrinology of Aging, JUL 17-22, 2016, Bregenz, AUSTRIA **[Poster]**

69. Schosserer, M*; Minois, N; Rollins, JA; Heissenberger, C; Nagelreiter, F; Snow, S; Pfeifenberger, S; Breitenbach-Koller, L; Rogers, A; Grillari, J (2016): Characterization of ribosomal RNA methylations modulating life- and healthspan, Thirteenth International Symposium on Neurobiology and Neuroendocrinology of Aging, JUL 17–22, 2016, Bregenz, AUSTRIA **[Poster]**

70. Schosserer, M*; Minois, N; Rollins, JA; Heissenberger, C; Nagelreiter, F; Snow, S; Pfeifenberger, S; Breitenbach-Koller, L; Rogers, A; Grillari, J (2016): Characterization of ribosomal RNA methylations modulating life- and healthspan, Cell Symposia: Aging and Metabolism, JUL 10-12, 2016, Sitges, SPAIN **[Poster]**

71. Schosserer, M*; Rollins, JA; Heissenberger, C; Nagelreiter, F; Snow, S; Rogers, A; Grillari, J (2016): Characterization of ribosomal RNA methylations modulating life- and healthspan of Caenorhabditis elegans, European Worm Meeting (EWM) 2016, JUN 1-3, 2016, Berlin, GERMANY **[Short Talk]**

72. Schosserer, M*; Minois, N; Angerer, TB; Amring, M; Dellago, H; Harreither, E; Gerstl, MP; Pfeifenberger, S; Pircher, A; Brandl, C; Weinhäusel, A; Breitenbach, M; Wilson, IBH; Grillari-Voglauer, R; Polacek, N; Breitenbach-Koller, L; Grillari, J (2015): Methylation of ribosomal RNA by NSUN5 is a conserved mechanism modulating organismal life span. Aging: Cellular Mechanisms and Therapeutic Opportunities, a Herrenhausen Symposium, SEP 29-30, 2015, Hannover, GERMANY **[Poster]**

73. Schosserer, M*; Minois, N; Angerer, TB; Amring, M; Dellago, H; Harreither, E; Böck,T; Siena, E; Gerstl, MP; Pfeifenberger, S; Pircher, A; Brandl, C; Weinhäusel, A; Breitenbach, M; Wilson, IBH; Grillari-Voglauer, R; Polacek, N; Breitenbach-Koller, L; Grillari, J (2015): Characterization of NSUN5 in human cell lines - a novel lifespan-modulating rRNA methyltransferase. ÖGMBT Annual Meeting, SEP 9-11, 2015, Salzburg, AUSTRIA **[Poster]**

74. Schosserer, M*; Minois, N; Angerer, TB; Amring, M; Dellago, H; Harreither, E; Gerstl, MP; Pfeifenberger, S; Pircher, A; Brandl, C; Weinhäusel, A; Breitenbach, M; Wilson, IBH; Grillari-Voglauer, R; Polacek, N; Breitenbach-Koller, L; Grillari, J (2015): Methylation of ribosomal RNA by NSUN5 is a conserved mechanism modulating organismal life span. Gordon Research Seminar and Conference: "Biology of Aging", JUL 18-24, 2015, Newry, USA **[Poster]**

75. Schosserer, M*; Minois, N; Angerer, TB; Amring, M; Dellago, H; Harreither, E; Gerstl, MP; Pfeifenberger, S; Pircher, A; Brandl, C; Weinhäusel, A; Breitenbach, M; Wilson, IBH; Grillari-Voglauer, R; Polacek, N; Breitenbach-Koller, L; Grillari, J (2015): Methylation of ribosomal RNA by NSUN5 is a conserved mechanism modulating organismal life span and oxidative stress resistance. Oxygen Club of California World Congress, JUN 23-26,

2015, Valencia, SPAIN **[Poster]**

76. Dellago H*, Khan H, Monteforte R, Schosserer M, Flatt T, Grillari-Voglauer R, Grillari J (2015): The DNA repair factor SNEV/hPrp19/hPso4 regulates cellular and organismal life span and promotes adipogenic differentiation. Tomas Lindahl conference on DNA repair, JUN 17-21, 2015, Oslo, NORWAY **[Poster]**

77. Dellago H*, Khan A, Schosserer M, Flatt T, Ammerer G, Jansen-Dürr P, Rudolph KL, Grillari-Voglauer R, Grillari J. (2015): Overexpression of the DNA repair factor SNEV/hPrp19/hPso4 extends cellular and organismal life span and increases resistance to genotoxic stress. Wiener Kongress für Geriatrie und Gerontologie - 10. gemeinsamer österreichisch-deutscher Geriatriekongress, MAR 26–28, 2015, Vienna, AUSTRIA **[Poster]**

78. Schosserer, M*; Minois, N; Angerer, TB; Amring, M; Dellago, H; Harreither, E; Gerstl, MP; Pfeifenberger, S; Brandl, C; Rinnerthaler, M; Sonntagbauer, M; Linder, A; Weinhäusel, A; Breitenbach, M; Wilson, IBH; Grillari-Voglauer, R; Breitenbach-Koller, L; Grillari, J (2014): Methylation of ribosomal RNA by NSUN5 is a conserved mechanism modulating organismal life span. Zing Conference: "Biology of Human Aging", SEP 19-22, 2014, Oropesa, SPAIN **[Poster]**

79. Schosserer, M*; Dellago, H; Flatt, T; Grillari, J (2014): Overexpression of dPrp19, the fly homolog of SNEVhPrp19/hPso4, extends Drosophila life span. Keystone Symposium: Aging: Pushing the Limits of Cellular Quality Control, JAN 12-17, 2014, Steamboat Springs, USA **[Poster]**

80. Schosserer, M*; Minois, N; Angerer, TB; Amring, M; Dellago, H; Harreither, E; Gerstl, MP; Pfeifenberger, S; Brandl, C; Rinnerthaler, M; Sonntagbauer, M; Linder, A; Weinhäusel, A; Breitenbach, M; Wilson, IBH; Grillari-Voglauer, R; Breitenbach-Koller, L; Grillari, J (2014): Found in translation: Ribosome modification by Nsun5 is a conserved longevity factor. Keystone Symposium: Aging: Pushing the Limits of Cellular Quality Control, JAN 12-17, 2014, Steamboat Springs, USA **[Poster]**

81. Schosserer, M*; Minois, N; Amring, M; Angerer, TB; Harreither, E; Aichinger, C; Micutkova, L; Jansen-Dürr, P; Grillari-Voglauer, R; Breitenbach, M; Wilson, IB; Breitenbach-Koller, L; Grillari, J (2013): Ribosome modification by Nsun5 is a conserved longevity factor. 5th ÖGMBT Life Science Meeting, SEP 25-27, Innsbruck, AUSTRIA **[Short Talk]**

82. Schosserer, M*; Minois, N; Amring, M; Angerer, TB; Harreither, E; Aichinger, C; Micutkova, L; Jansen-Dürr, P; Grillari-Voglauer, R; Breitenbach, M; Wilson, IB; Breitenbach-Koller, L; Grillari, J (2012): Nsun5, a novel conserved stress-responsive RNA- methyltransferase modulates translation and animal lifespan. 2012 CSHL Meeting on Molecular Genetics of Aging, OCT, 9-13, Cold Spring Harbor, NY, USA **[Short Talk]**

83. Schosserer, M*; Minois, N; Amring, M; Angerer, TB; Harreither, E; Aichinger, C; Micutkova, L; Jansen-Dürr, P; Grillari-Voglauer, R; Breitenbach, M; Wilson, IB;

Breitenbach-Koller, L; Grillari, J (2012): Nsun5, a novel conserved stress-responsive RNA- methyltransferase modulates translation and animal lifespan. 4th ÖGMBT Annual Meeting, SEP 17-19, 2012, Graz, AUSTRIA **[Poster]**

84. Fuchs, E*; Schosserer, M; Linder, A; Wilson, IBH; Grillari-Voglauer, R; Grillari, J (2010): Nopsi is a novel conserved lifespan modulator of C. elegans. 2nd ÖGMBT Annual Meeting, SEPT 27-29, 2010, Vienna, AUSTRIA **[Poster]**

85. Schosserer, M*; Minois, N; Bakowska-Zywicka, K; Fuchs, E; Sekot, G; Grillari-Voglauer, R; Polacek, N; Grillari, J (2010): The novel RNA-methyl-transferase Nopsi modulates the lifespan of Drosophila melanogaster. 2nd ÖGMBT Annual Meeting, SEP 27-29, 2010, Vienna, AUSTRIA **[Poster]**

86. Schosserer, M*; Minois, N; Fuchs, E; Linder, A; Sekot, G; Grillari-Voglauer, R; Wilson, I; Grillari J (2010): The novel RNA-methyl-transferase Nopsi modulates the lifespan of model organisms. FEBS/SFRR-E/IUBMB Advanced Lecture Course "Protein maintenance and turnover in ageing & diseases, JUNE 4-10, 2010, Spetses, GREECE **[Poster]**

87. Schosserer M*, Minois N, Linder A, Wilson I, Sekot G, Wurzenberger J, Katinger H, Grillari-Voglauer R, Grillari J. (2009): The novel protein Nopsi elongates the life span of model organisms. 1st ÖGMBT Annual Meeting, SEP 21-23, 2009, Innsbruck, AUSTRIA **[Short Talk]**

88. Schosserer, M; Minois, N; Linder, A; Löscher, M; Wilson, IBH; Voglauer-Grillari, R; Grillari, J* (2008): Nopsi is a novel SNEV interacting protein involved in regulation of organismal life span. 6th European Congress of Biogerontology, NOV 30 - DEC 3, 2008, Noordwijkerhout, NETHERLANDS **[Poster]**

89. Schosserer, M*; Minois, N; Linder, A; Sekot, G; Katinger, H; Grillari-Voglauer, R; Grillari, G (2008): The novel protein Nopsi and its impact on the life span of Drosophila melanogaster. Joint Annual Meeting of ÖGBM, ÖGGGT, ÖGBT and ANGT, SEP 22-24, 2008, Graz, AUSTRIA **[Poster]**

90. Schosserer, M*; Lee, K; Löscher, M; Ajuh, P; Denegri, M; Lamond, AI; Katinger, H; Voglauer, R; Grillari, J (2007): Blom7 alpha is a novel protein interacting with RNA, the telomere and the replicative senescence-related proteins SNEV and Hic-5. 12th Congress of the International Association of Biomedical Gerontology (IABG), MAY 20-24, 2007, Spetses, GREECE **[Poster]**

91. Schosserer, M*; Löscher, M; Dausse, E; Toulme, JJ; von Pelchrzim, F; Schröder, R; Katinger, H; Grillari, J (2006): Identification of endogenous RNA interacting with the novel protein Blom7a. Life Science Meeting (ÖGBT/ÖGGGT/ÖGBM/ANGT), SEP 25-27, 2006, Salzburg, AUSTRIA **[Poster]**