

CURRICULUM VITAE

Assoc. Prof. DI Dr. Regina Grillari



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PROFESSIONAL CAREER / EDUCATION:

since 2015	Co-founder and scientific advisor of Danube 3D GmbH
since 2015	Co-founder and scientific advisor of Phoenestra GmbH
since 2014	Chief Technology Officer of Evercyte GmbH (www.evercyte.com)
since 2013	Co-founder and scientific advisor of TAmiRNA GmbH (www.tamirna.com)
since 2011	Co-founder of Evercyte GmbH, Senior Vice President Cell Line Development
since 2010	Associate Professor, Department of Biotechnology, University of Natural Resources and Life Sciences Vienna, (BOKU), Austria
12/2008	Venia docendi in Cell Biology, BOKU, Vienna, Austria <i>"Establishment, immortalization and characterization of cell lines: producers, products and model systems"</i>
since 2000	Principal Investigator, IAM, BOKU, Vienna, Austria Field of activity: animal cell culture, flow cytometry Leader of the working group "Immortalization and cell line establishment"
1999-2000	"University Assistant, IAM, BOKU, Vienna, Austria Field of activity: animal cell culture, flow cytometry
1996-1999	Scientific assistant, IAM, BOKU, Vienna, Austria
1996-2000	Ph.D.-study and Ph.D.-thesis at Institute of Applied Microbiology (IAM), BOKU, Vienna, Austria; <i>"Immortalization of human cells and recombinant protein expression"</i> , (Supervision: Prof. H. Katinger, Prof. R. Kunert)
1996-1997	Postgraduate study (industrial management, economics, law), Technical University of Vienna, Austria

1989-1996	Diploma-thesis, General Hospital (AKH) of Vienna; Study of Biotechnology, BOKU, Vienna, Austria; <i>"Retinoids in combination with Interferon-α influence the ras-signal transduction cascade in human melanoma"</i> , (Supervision: Prof. B. Jansen, Prof. H. Katinger)
1981-1989	Wirtschaftskundliches Realgymnasium, Kreuzschwesternschule, Linz, Austria

PRIZES

- Houska 2015, 3rd price, award by B&C Privatstiftung for translational research
- Mercur 2014 in the category Life Sciences, award by the Austrian Economic Chamber, Vienna
- Evercyte GmbH ranked 5th best young company in Austria by "Gewinn" (out of >1.600), 2013
- Best presentation award, 21st Annual Congress of the European Association of Tissue Banks (EATB), Vienna, Austria, 2012
- Phönix 2012, award by the Austrian Federal Ministry for Science and Research for innovative researcher and translational research (spin-offs)
- 1st Poster prize, 22nd ESACT Meeting, Vienna, Austria, 2011
- Award from the "Professor Anton Kurir foundation" for outstanding habilitation, 2009, University of Natural Resources and Life Sciences, Vienna, Austria
- 1st Poster prize, European conference on Aging "ECONAG 2006", Innsbruck, Austria, 2006
- FEMS young scientist meeting award, 2005
- 1st Poster prize, 2004 EMBO/Harden conference on "Ubiquitin and Proteasome system in health and disease"

PUBLICATIONS – PATENTS - TALKS:

- > 60 SCI publications; h-factor 22, total IF ~300; total citations ~1700; 4,8 IF/publication, 18,8 citations per publication on average
 - 3 book chapters
 - 4 contributions to conference proceedings
 - 5 patents
 - More than 150 conference contributions (posters and oral presentations)
 - About 15 talks for laymen, newspaper contributions, lectures at schools
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Regino Grillone

May 2016

1. Schosserer M, Minois N, Angerer TB, Amring M, Dellago H, Harreither E, Calle-Perez A, Pircher A, Peter Gerstl M, Pfeifenberger S, Brandl C, Sonntagbauer M, Kriegner A, Linder A, Weinhäusl A, Mohr T, Steiger M, Mattanovich D, Rinnerthaler M, Karl T, Sharma S, Entian KD, Kos M, Breitenbach M, Wilson IB, Polacek N, **Grillari-Voglauer R**, Breitenbach-Koller L and Grillari J Corrigendum: Methylation of ribosomal RNA by NSUN5 is a conserved mechanism modulating organismal lifespan, *Nat. Commun.* (2016)
2. Weilner S, Schraml E, Wieser M, Messner P, Schneider K, Wassermann K, Micutkova L, Fortschegger K, Maier AB, Westendorp R, Resch H, Wolbank S, Redl H, Jansen-Dürr P, Pietschmann P, **Grillari-Voglauer R** and Grillari J Secreted microvesicular miR-31 inhibits osteogenic differentiation of mesenchymal stem cells, *Aging Cell* (2016)
3. Maioli M, Basoli V, Santaniello S, Cruciani S, Delitala AP, Pinna R, Milia E, **Grillari-Voglauer R**, Fontani V, Rinaldi S, Muggironi R, Pigiariu G and Ventura C Osteogenesis from Dental Pulp Derived Stem Cells: A Novel Conditioned Medium Including Melatonin within a Mixture of Hyaluronic, Butyric, and Retinoic Acids, *Stem Cells Int.* (2016)
4. Monteforte R, Beilhack GF, Grausenburger R, Mayerhofer B, Bittner R, **Grillari-Voglauer R**, Sibilia M, Dellago H, Tschachler E, Gruber F and Grillari J, SNEV(P) (rp19/) (PSO) (4) deficiency increases PUVA-induced senescence in mouse skin, *Exp. Dermatol.* (2016)
5. Weilner S, Keider V, Winter M, Harreither E, Salzer B, Schraml E, Messner P, Pietschmann P, Hildner F, Gabriel C, Redl H, **Grillari-Voglauer R**, and Grillari J Vesicular Galectin-3 levels decrease with donor age and contribute to the reduced osteo-inductive potential of human plasma derived extracellular vesicles, *Aging (Albany NY)*, (2016)
6. Schosserer M, Reynoso R, Wally W, Jug B, Weilner S, Buric J, 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)
7. Weilner S, Skalicky S, Salzer B, Keider V, Wagner M, Hildner F, Gabriel C, Dovjak P, Pietschmann P, **Grillari-Voglauer R**, Grillari J, Hack M. Differentially circulating miRNAs after recent osteoporotic fractures can influence osteogenic differentiation. *Bone* (2015).
8. Fliedl L, Kast F, Grillari J, Wieser M, **Grillari-Voglauer R***. Optimization of a quantitative PCR based method for plasmid copy number determination in human cell lines. *N Biotechnol.* (2015)
9. Schosserer M., Minois N., Angerer T.B., Amring M., Dellago H., Harreither E., Calle-Perez A., Pircher A., Gerstl M.P., Pfeifenberger S., Brandl C., Sonntagbauer M., Kriegner A., Linder A., Weinhäusl A., Mohr T., Steiger M., Mattanovich D., Rinnerthaler M., Karl T., Sharma S., Entian K.D., Kos M., Breitenbach M., Wilson I.B., Polacek N., **Grillari-Voglauer R.**, Breitenbach-Koller L., and Grillari J. Methylation of ribosomal RNA by NSUN5 is a conserved mechanism modulating organismal life span, *Nature Comm* (2015)
10. Reynoso R., Laufer N., Hackl M., Skalicky S., Monteforte R., Turk G., Carobene M., Quarleri J, Cahn P., Werner R., Stoiber H., **Grillari-Voglauer R.**, and Grillari J. MicroRNAs differentially present in the plasma of HIV elite controllers reduce HIV infection in vitro. *Sci Rep.* (2014)
11. Fliedl L., Grillari J, and **Grillari-Voglauer R***. Human cell lines for the production of recombinant proteins. *N Biotechnol.* 2015, 32 (6):673-9.
12. Weilner S., **Grillari-Voglauer R.**, Redl H., Grillari J., Nau T. The role of microRNAs in cellular senescence and age-related conditions of cartilage and bone. *Acta Orthop.* 2014 Sep 1:1-8.
13. Waaijter M.E.C., Wieser M., **Grillari-Voglauer R.**, van Heemst D, Grillari J, and Maier A.B. MicroRNA-663 induction upon oxidative stress in cultured human fibroblasts depends on the chronological age of the donor. *Biogerontology.* 2014, 15(3): 269-78.
14. Fliedl L., Wieser M., Manhart G., Gerstl M., Khan AH, Grillari J., and **Grillari-Voglauer R***. Controversial role of gamma-glutamyl transferase activity in cisplatin nephrotoxicity. *ALTEX.* 2014, 31(3): 269-78.
15. Fliedl L., Manhart G., Kast F., Katinger H., Kunert R., Grillari J., Wieser M., **Grillari-Voglauer R.** Novel human Renal Proximal Tubular Cell Line for the Production of complex proteins, *J Biotech* 176, 29-39 (2014)
16. Harreither E., Rydberg H.A., Åmand H., Jadhav V., Fliedl L., Benda C., Esteban M.A., Pei D., Borth N., **Grillari-Voglauer R.**, Hommerding O., Edenhofer F., Nordén B., Grillari J. Characterization of a novel cell penetrating peptide derived from human Oct4. *Cell Regen.* 2014, 3(1): 2.
17. Aschauer L., Gruber LN, Pfaller W, Limonciel A, Athersuch TJ, Cavill R, Khan AH, Gstraunthaler G, Grillari J, **Grillari-Voglauer R.**, Hewitt P, Leonard MO, Wilmes A. and Jennings P. Delineation of the key aspects in the regulation of epithelial monolayer formation. *Mol Cell Biol.* 2013 Jul;33(13):2535-50. doi: 10.1128/MCB.01435-12.
18. 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 lifespan, *Aging Cell*, 2013 Jun;12(3):446-58.
19. Weilner S., Schraml E., Redl H., **Grillari-Voglauer R.**, and Grillari J., Secretion of microvesicular miRNAs in cellular and organismal aging, *Exp. Gerontol.* 2013 Jul;48(7):626-33.
20. Zhou T, Benda C., Dunzinger S., Huang Y., J.C. Ho, Yang J., Wang Y, Zhang Y., Zhang P., Bao X., Tse HF, Grillari J, **Grillari-Voglauer R**, Pei D., and Esteban MA., Generation of human induced pluripotent stem cells from urine samples, *Nature Protocols* 2012 Dec;7(12):2080-9.
21. Löscher M., Schosserer M., Dausse E., Lee K., Ajuh P., **Grillari-Voglauer R.**, Lamond A.I., Toulmé JJ, and Grillari J.* Inhibition of pre-mRNA splicing by a synthetic Blom7a-interacting small RNA, *PLOS one* (2012)
22. Benda C, Zhou T, Wang X, Tian W, Grillari J, Tse HF, **Grillari-Voglauer R**, Pei D, Esteban MA. Urine as a Source of Stem Cells. *Adv Biochem Eng Biotechnol.* 2012 Oct
23. Reynoso R, Wieser M, Ojeda D, Bönisch M, Kühnel H, Bolcic F, Quendler H, Grillari J, **Grillari-Voglauer R**, Quarleri J. HIV-1 Induces Telomerase Activity in Monocyte-Derived Macrophages, Possibly Safeguarding One of Its Reservoirs. *J Virol.* 2012 Oct;86(19):10327-37
24. Xu J, Wang B, Xu Y, Sun L, Tian W, Shukla D, Barod R, Grillari J, **Grillari-Voglauer R**, Maxwell PH, Esteban MA. Epigenetic regulation of HIF-1α in renal cancer cells involves HIF-1α/2α binding to a reverse hypoxia-response element. *Oncogene.* 2012 Feb 23;31(8): 1065-72. doi: 10.1038/onc.2011.305.
25. 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 SNEVhPrp19/hPso4 is involved in extending cellular life span and suppression of apoptosis. *Aging (Albany NY).* 2012 Apr;4(4):290-304.
26. Xu J, Wang B, Xu Y, Sun L, Tian W, Shukla D, Barod R, Grillari J, **Grillari-Voglauer R**, Maxwell PH, Esteban MA. Epigenetic regulation of HIF-1α in renal cancer cells involves HIF-1α/2α binding to a reverse hypoxia-response element. *Oncogene*, 2012, 23; 31 (8):1065-72.

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28. Dellago H, Löscher M, Ajuh P, Ryder U, Kaisermayer C, **Grillari-Voglauer R**, Fortschegger K, Gross S, Gstraunthaler A, Borth N, Eisenhaber F, Lamond A, Grillari J. Exo 70, a subunit of the exocyst complex, interacts with SneVPrp19/hPso5 and is involved in pre-mRNA splicing. *Biochem J*, 2011, 15;438(1):81-91.
29. Zhou T, Benda C, Duzinger S, Huang Y, Li X, Li Y, Guo X, Cao G, Chen S, Hao L, Chan YC, Ng KM, Ho JC, Wieser M, Wu J, Redl H, Tse HF, Grillari J, **Grillari-Voglauer R***, Pei D, Esteban MA. Generation of induced pluripotent stem cells from urine. *J Am Soc Nephrol*. 2011 Jul;22(7):1221-8. Epub 2011 Jun 2.
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31. Grillari J and **Grillari-Voglauer R**. Novel modulators of senescence, aging and longevity: Small non-coding RNAs enter the stage. *Exp Gerontol*, 2010, 54(4): 302-311.
32. Kronsteiner B, Peterbauer-Scherb A, **Grillari-Voglauer R**, Redl R, Gabriel C, van Griensven M, Wolbank S. Human mesenchymal stem cells and renal tubular epithelial cells differentially influence monocytic-derived dendritic cell differentiation and maturation. *Cell Immunol*, 2011; 267(1):30-8.
33. Laschober GT, Ruli D, Hofer E, Muck C, Carmona-Gutierrez D, Ring J, Hutter E, Ruckstuhl C, Micutkova L, Brunauer R, Jamnig A, Trimmel D, Herndler-Brandstetter D, Brunner S, Zenzmaier C, Sampson N, Breitenbach M, Fröhlich KU, Grubeck-Loebenstein B, Berger P, Wieser M, **Grillari-Voglauer R**, Thallinger GG, Grillari J, Trajanoski Z, Madeo F, Lepperdinger G, Jansen-Dürr P. Identification of evolutionary conserved genetic regulators of cellular aging. *Aging Cell*, 2010, 9(6):1084-97.
34. Grillari J, Hackl M, **Grillari-Voglauer R**. miR-17-92 cluster: ups and downs in cancer and aging. *Biogerontology*, 2010, 11(4):501-6.
35. Hackl M, Brunner S, Fortschegger K, Schreiner C, Micutkova L, Mück C, Laschober G, Lepperdinger G, Sampson N, Berger P, Herndler-Brandstetter D, Wieser M, Kühnel H, Strasser A, Breitenbach M, Rinnerthaler M, Eckhard L, Tschachler E, Papak C, Scheideler M, Trajanoski Z, **Grillari-Voglauer R**, Grubeck-Loebenstein B, Jansen-Dürr P, Grillari J. miR-17 and miR-19b are downregulated in human aging, accepted for publication. *Aging Cell*, 2010, 9(2): 291-296.
36. Gutternigg M, Dubravko R, **Voglauer R**, Iskratsch T, Wilson IBH. Mammalian cells contain a second nucleocytoplasmic hexosaminidase. *Biochem J*, 2009, 419: 83-90.
37. Wolbank S, Stadler G, Peterbauer A, Gillich A, Karbiener M, Streubel B, Wieser M, Katinger H, van Griensven M, Redl H, Gabriel C, Grillari J, **Grillari-Voglauer R***. Telomerase immortalized human amnion and adipose-derived mesenchymal stem cells: maintenance of differentiation and immunomodulatory characteristics. *Tissue Eng*, 2009, 15(7): 1843-54.
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39. Grillari J, Löscher M, Denegri M, Lee K, Fortschegger K, Eisenhaber F, Ajuh P, Lamond A, Katinger H, **Grillari-Voglauer R**. Blom7alpha is a novel heterogenous nuclear ribonucleoprotein (hnRNP) K homology domain protein involved in pre-mRNA splicing that interacts with SNEVPrp19/Pso4. *J Biol Chem*, 2009, 284(42): 29193-204.
40. Stadler G, Wieser M, Streubel B, Stift A, Friedl J, Gnant M, Niederle B, Katinger H, Pfragner R, Grillari J, **Voglauer R***. Low telomerase activity: possible role in the progression of human medullary thyroid carcinoma. *Eur J Cancer*, 2008, 44: 866-875.
41. Schraml E, **Voglauer R**, Fortschegger K, Sibilina M, Stelzer I, Grillari J, Schauenstein K. Haploinsufficiency of mSNEV causes self-renewal capacity defects of hematopoietic stem cells. *Stem Cell Dev*, 2008, 17: 355-366
42. Wieser M, Stadler G, Jennings P, Streubel B, Pfaller W, Ambros P, Riedl C, Katinger H, Grillari J, **Grillari-Voglauer R***. hTERT alone immortalizes epithelial cells of renal proximal tubules without changing their functional characteristics. *Am J Physiol Renal Physiol*, 2008, 295: F1365-1375.
43. Jursik C, Prchal M, **Grillari-Voglauer R**, Drbal K, Fuertbauer E, Jungfer H, Alberts WH, Steinhuber E, Hemetsberger T, Grillari J, Stockinger H, Katinger H. Large-Scale Production and Characterization of Novel CD4+ Cytotoxic T Cells with Broad Tumor Specificity for Immunotherapy. *Mol Cancer Res*, 2008, 7: 339-353.
44. Wolbank S, Peterbauer A, Wassermann E, Hennerbichler S, **Voglauer R**, van Griensven M, Gabriel C, Redl H. Labelling of human adipose derived stem cells for non-invasive in vivo cell tracking. *Cell Tissue Bank* 2007, 8: 163-177.
45. Voglmeir J, **Voglauer R**, Wilson IBH. XT-II, the second isoform of human peptide-o-xylosyltransferase, displays enzymatic activity. *JBC* 2007, 282 (9): 5984-5990.
46. Fortschegger K, Wagner B, **Voglauer R**, Sibilina M, Katinger H, Grillari J. SNEV^{Prp19/Pso4} knock-out is early embryonic lethal. *Mol Cell Biol* 2007, 27 (8): 3123-3230.
47. Unterluggauer H, Huetter E, **Voglauer R**, Grillari J, Voeth M, Bereiter-Hahn J, Jansen-Dürr P, Jendrach M. Identification of cultivation-independent markers of human endothelial cell senescence in vitro. *Biogerontology*, 2007, 8: 383-397.
48. Stadler G, Wieser M, Steindl F, Grillari J, Katinger H, Pfragner R, **Voglauer R***. Development of standardized cell culture conditions for tumor cells with potential clinical application. *Cytotherapy*, 2007, 9: 488-498.
49. Grillari J, Katinger H, **Voglauer R**. Contribution of interstrand cross link repair to aging of cells and organism. *Nucleic Acids Res*, 2007, 35(22): 7566-7576.
50. **Voglauer R**, Chang M, Dampier B, Wieser M, Baumann K, Sterovsky T, Schreiber M, Katinger H, Grillari J. SNEV overexpression extends the life span of human endothelial cells. *Exp Cell Res* 2006, 312: 746-759.
51. Wieser M, Stadler G, Böhm E, Borth N, Katinger H, Grillari J, **Voglauer R***. Nuclear Flow FISH: Isolation of cell nuclei improves the determination of telomere lengths. *Exp Gerontol* 2006, 41: 230-235.
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56. **Voglauer R***, Grillari J, Fortschegger K, Wieser M, Sterovsky T, Günsberg P, Katinger H, Pfragner R. Establishment of human fibroma cell lines from a MEN1 patient by introduction of either hTERT of SV40 early region. *Int J Oncol* 2005, 26(4): 961-970.

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60. Böhm E, Grillari J, **Voglauer R**, Gross S, Ernst W, Ferko B, Kunert R, Borth N, Katinger H. Establishment of a strategy for the rapid generation of a monoclonal antibody against the human protein SNEV (hNMP200) by flow cytometric sorting. *J Immunol Meth* 2005, 307: 13-23.

61. Kunert R, Wolbank S, Chang M, **Voglauer R**, Borth N, Katinger H. Control of key parameters in developing mammalian production clones. *BioProcess International* 2004, 2: 54-59.

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BOOK CHAPTERS:

Wolbank S, van Griensven M, **Grillari-Voglauer R**, Peterbauer_Scherb A. Alternative sources of adult stem cells: human amniotic membrane, *Adv Biochem Eng Biotechnol*, 2010.

Grillari J, **Grillari-Voglauer R**, Jansen-Dürr P. Post-translational modifications of cellular proteins by ubiquitin and ubiquitin-like molecules: role of cellular senescence and aging. Landes Biosciences, Edt. Tavernarakis N, 2009.

Grillari J, Katinger H, **Voglauer R**. SNEV^{Prp19/Pso4} is a conserved, multifaceted E3 ligase involved in replicative senescence, DNA repair, and pre-mRNA splicing. Targeted Protein Database, 2007.

CONFERENCE PROCEEDINGS:

1. Borth N, Böhm E; Grillari J, Löscher M, Gross S, **Voglauer R**, Ferko B, Kunert R, Katinger H: From gene to monoclonal antibody: efficient screening by cell sorting. In: *Animal Cell Technology meets Genomics*, Proceedings of the 18th ESACT Meeting, May 11 - 14, 2003, Granada, Spain, Editors: Francesc Gòdia and Martin Fussenegger, 501-504 (2003).

2. **Voglauer R**, Jursik C, Prchal M, Jungfer, Grillari J, Katinger H: Establishment and characterization of CD4+ Killer-T-cells (KTCs). In: *Animal Cell Technology meets Genomics*, Proceedings of the 18th ESACT Meeting, May 11 - 14, 2003, Granada, Spain, Editors: Francesc Gòdia and Martin Fussenegger, 289-292 (2003).

3. Stadler G, **Voglauer R**, Wieser M, Katinger, Pfragner R: Establishment and characterization of human medullary thyroid carcinoma cell lines for immunotherapy. In: *Animal Cell Technology meets Genomics*, Proceedings of the 18th ESACT Meeting, May 11 - 14, 2003, Granada, Spain, Editors: Francesc Gòdia and Martin Fussenegger, 245-248 (2003).

4. Pfragner R, **Voglauer R**, Stadler G, Friedl J, Stift A, Niederle B, Gnant M: Medullary Thyroid Carcinoma cell lines for Dendritic Cell Based Immunotherapy. In: *MEN2004 - Multiple Endocrine Neoplasia Meeting*, June 20 - 23, 2004, Bethesda, Maryland, USA, Editors: Constantine Stratakis and Stephen Marx, *Journal of Internal Medicine*, 255(6): 709-710 (2004).

PATENTS:

1. **Grillari R.**, Grillari J, Kanzler O. Panels of immortalized mammalian cells and their use. Patent filed April 2010; PCT/EP2011/056641.

2. Grillari J., Schraml E., **Grillari R.**, Fortschegger K. Compositions for use in treating or preventing bone disorders and/or cardiovascular disorders Patent filed May 2010, EP10163604.1

3. Esteban M.A., Grillari J., **Grillari R.**, Pei D., Zhou T., Method for generating induced pluripotent stem cells from cells contained in urine. Patent filed Dec. 2010, EP11152519.2

4. Grillari J., Weilner S., Hackl M., **Grillari R.**, Schraml E., Compositions and methods for the treatment of osteoporosis, filed June 2014, EP14172354.4

5. Grillari J., Weilner S., Hackl M., **Grillari R.**, Schraml E., Compositions and methods for the treatment of osteoporosis, filed June 2014, EP14172354.4