



Curriculum Vitae



Name : Sabine Marie Podmirseg
Titles : Mag.^a biol, Dr.^a rer.nat.
Date & Place of birth: 3rd June 1983, Rum in Tirol (A)
Nationality: Austria/France

Current Work Address

Work address: Institute of Microbiology
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Scientific Experience:

During the last years I have gained a lot of scientific experience and project management skills, have participated in the phases of project fund acquisition and project coordination, integration into international scientific networks, co-organised a conference (ISAM8) and contributed to project reports and scientific outputs. I have worked in projects funded by: FWF, FFG, alpS GmbH, D. Swarovski & Co, ACIB, WERF, TWF and HRSM in the research field of microbial resource management. My research focuses mainly on wastewater treatment (anammox and bioaugmentation), anaerobic digestion (process monitoring and -optimization) and molecular techniques that enable reliable characterisation of microbial consortia. The peculiar group of anaerobic fungi (Neocallimastigomycota) has attracted my attention since 2012 and has become one of my main research disciplines. I am responsible for the UIBK anaerobic fungi culture collection.

Education

04/2018-	University assistant at the Institute of Microbiology, University of Innsbruck, Austria
01/2017-03/2018	Maternal leave
02/2014-	University assistant at the Institute of Microbiology, University of Innsbruck, Austria
10/2011-01/2014	Post-doctoral Researcher at the Institute of Microbiology, University of Innsbruck, Austria
02/2008-10/2011	PhD Studies (Microbiology) at the University of Innsbruck, Austria
03/2005-11/2007	Master-studies (Microbiology) at the University of Innsbruck, Austria
10/2001-03/2005	Bachelor-studies (Biology), at the University of Innsbruck, Austria

Qualifications

07 th October 2011	Doctor of natural sciences (Microbiology); "Microbial communities in organic waste- and waste water management – with a special focus on bioaugmentation of nitrifiers, mesophilic biogas reactors and digestate application to soil"; graduation with distinction;
27 th November 2007	Master in Biology (Mag. ^a biol. Microbiology); „Characterization of the microbial gut community of <i>Lumbricus rubellus</i> by PCR-DGGE and cloning“; graduation with distinction;
11th April 205	Bachelor of natural sciences ; BNatSc (Biology)

Ongoing Projects

03/2019-	DACH-HiPoAF (Lead) Unleashing the hidden potential of anaerobic fungi (Neocallimastigomycota) in cooperation with LfL Freising, ZHAW Zürich, TUM Munich, CeBiTec Bielefeld, IAPG Prague and IBERS Aberystwyth
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Completed Projects

02/2014- 07/2018	MicrobeEnergy Project (Lead) HRSM : Evaluation and comparison of pretreatment strategies and their effect on biomethanisation with a special focus on anaerobic fungi; In cooperation with the Management Centre Innsbruck (MCI) and the University of Applied Sciences Upper Austria (FH Wels)
05.2015- 07.2016	ACIB Project (scientific partner): "Balancing flocs and granules for activated sludge process intensification"; research project of the ACIB (Austrian Centre of Industrial Biotechnology)
10.2015- 07.2016	ACIB Project (project leader): "Rumen fluid as source for novel enzymes and amendment to biogas reactors"; feasibility study of the ACIB (Austrian Centre of Industrial Biotechnology)
04.2015- 09.2015	ACIB Project (scientific partner): "Taming Polymer-Oxidoreductases and – Hydrolases"; (Austrian Centre of Industrial Biotechnology)

- 09.2011-
03.2013 **alpS GmbH**
BiEne C- Anammox Project: "Monitoring of the first Anammox-biomass-enrichment in the mainstream of a WWTP (Strass, A) for improved Energy-and cost-balance." Comet-Centre alpS-GmbH in Cooperation with the University of Innsbruck (Mikrobiology) and ARAconsult GmbH
- 07.2012-
12.2013 **FFG**
Fesibility-study: "Anaerobic Fungi for the process optimization of Biogas plants (Fungi4Gas)." Austrian Research promoting agency
- 10.2010-
04.2011 **D. Swarovski & Co**
Project: "The effect of wood ash on biogas production." Aktion D. Swarovski & Co
- 12.2008-
11.2009 **TWF**
Project: "Nitrifier-bioaugmentation in a WWTP." Tyrolean Research Fund.

Grants/Awards

- 2014 Pümpel, T. and **Podmirseg, S.**: "Verfahren zur Ermittlung der Menge an Anammox-Bakterien. Austrian Patent Office; A50579/2014;
- 11.2014-
03.2015 **Scholoraship for short-term research trainings abroad** (France). University of Innsbruck
- 07.2014-
10.2014 **Scholoraship for short-term research trainings abroad** (Great Britain). University of Innsbruck
- 2011 **Best Scientific Talk** at the ISAM7. International Symposium on Anaerobic Microbiology; Smolenice (SK) 15.06.2011-18.06.2011
- 02.2010 **Scholoraship for short-term research trainings abroad** (France). University of Innsbruck
- 09.2008-
02.2010 **Doctoral fellowship**; "Microbial Communities in biological waste treatment processes." University of Innsbruck; Office of the vice-rector for research;
- 2004 **Performance scholarship** for the study year 2003/2004 (Bachelor-studies) University of Innsbruck
- 2003 **Performance scholarship** for the study year 2002/2003 (Bachelor-studies) University of Innsbruck

Stays abroad / Workshops

- 11/2014-04/2015
06/2015 **National Research Institute of Science and Technology for Environment and Agriculture (IRSTEA)**, IRSTEA, Antony, France; Focus: Metatranscriptomics and Metagenomics of Anaerobic fungi
- 07/2014-10/2014 **Institute of Biological, Environmental and Rural Sciences (IBERS)**, University of Aberystwyth (UK); Focus: Cultivation and Detection of Anaerobic fungi
- 07/2012 **Institute of Animal Physiology and Genetics**, Laboratory of Anaerobic Microbiology, Prague (CZ) Focus: Cultivation of anaerobic Fungi
- 05/2012 **Lab Microbial Systems Ecology**, Technische Universität München (D) International FISH Workshop – Fluoreszenz *in situ* Hybridisierung (Lead: Dr. Natuschka Lee)
- 02/2010 **Laboratoire Microorganismes: Génome et Environnement** - Université Blaise Pascal, Clermont-Ferrand (F) Focus: Microarray

Teaching Experience

- Course 718786 Molecular microbial ecology (Lecture VO1)
- Course 718291 Microbiological Techniques (Lecture VO1)
- Course 718712 Biodegradation (Lab Course UE3)
- Course 718722 Biogas (Lab Course UE3)
- Course 718112 Basic Lab Course Microbiology (UE3)
- Course 718771 Microbial Ecology (Lab Course VU4)

Conference Organisation

Organising co-chair 8th International Symposium on Anaerobic Microbiology (ISAM8): No oxygen – still vigorous, 12.-15.06.2013, Innsbruck, Austria

Session chair, Session: Emerging Methods, 8th International Symposium on Anaerobic Microbiology (ISAM8): No oxygen – still vigorous, 14.06.2013, Innsbruck, Austria

Editorial and Peer Reviewing Activities

- Advisory Board Member Elsevier Journal **MethodsX** (Research field: Environmental Sciences)
- Editorial Board Member HOAJ Journal **Renewable Bioresources**
- Guest-Editor **Anaerobe**; Special Issue: No oxygen - still vigorous (Anaerobe 29 (2013))
- Guest-Editor **Waste Management & Research**; Special Issue: Biological Waste Treatment (Waste Management & Research 31 (2013))

Review activities for: *Ecological Engineering, Waste Management and Research, Applied Soil Ecology, Bioresource Technology, Water Research, Antonie van Leeuwenhoek, MethodsX, Fungal Ecology, General Physiology and Biophysics, Anaerobe, BMC Research Notes, Bioinformatic, Renewable Bioresource, BioEnergy Research;*

Supervision of Bachelor/Master/PhD Theses:

Bachelor Theses:

Alessandro Fuchs (Co-supervisor) 10/2016

"Charakterisierung der Rumen Protisten"

Peter Höck (Co-supervisor) 10/2016

"Hydrolytische Enzyme im Microbiom Rumen"

Theresa Hofmeister (Main-supervisor) 08/2013

"Kultivierung von anaeroben Pilzen (Neocallimastigomycota)"

Master Theses:

Markus Mayr, BSc (Main-supervisor) 05/2018-ongoing

„Investigation of different pre-treatment strategies of lignocellulose-rich biomass (corn-straw) for optimized biomethansation potential“;

Caterina Eberle, BSc. (Main-supervisor) 05/2016-11/2017

"Biologische in-situ Sanierung einer Perchlorethylen (PER) Belastung von Boden und Grundwasser"

Pia Plattner, BSc. (Main supervisor) 02/2016-08/2018

"Biomethanisation of cattle manure under typical and atypical temperature conditions, with a special focus on the specific methanogen activity."

Katja Kozek, BSc. (Main supervisor) 08/2015-01/2017

"Rumen fluid as source for novel enzymes and amendment to biogas reactors"

Bettina Nothegger, Bsc. (Co-supervisor) 09/2013-11/2015

"*Neocallimastigomycota* in anaerobic digestion of cattle manure and their contribution to degradation"

Philipp Dresch, Bsc. (Co-supervisor)

08/2012-12/2014

"Anaerobic Fungi and their potential to widen the bottleneck of hydrolysis for biomethanisation"

Stefanie Leis, Bsc. (Co-supervisor)

07/2012-09/2013

"Characterisation of anaerobic fungi (Neocallimastigomycota) and their associated methanogens isolated from the capricorn (Capra ibex)"

Markus Muik, Bsc. (Co-supervisor)

04/2012-08/2013

"Characterisation of anammox- and nitrifier-populations in a full scale mainstream deammonification process"

PhD Theses:

Magdalena Nagler, MSc. 02/2014- ongoing

Anaerobic fungi as amendment for biogas plants and pre-treatment strategies for optimized biogas yield

Sebastian Hupfau, Msc. 04/2015- ongoing

Anaerobic digestion under atypical temperature conditions: psychrophilic conditions and the temperature gap in between meso- and thermophilic conditions

Examination Board Member

Master Defense:

- Pia Plattner, BSc „Biomethanisation of cattle manure under typical and atypical temperature conditions, with a special focus on the specific methanogen activity.“ (Erstprüferin); 14/08/2018
- Caterina Eberle, BSc "Biologische in-situ Sanierung einer Perchlorethylen (PER) Belastung von Boden und Grundwasser" (1st examiner); 11/01/2017
- Katja Kozjek, BSc "Rumen fluid as amendment to anaerobic digesters and source of lignocellulose degrading microbes" (1st examiner); 11/01/2017
- Caroline Hatz, BSc "Interaktionen vom EHEC-Virulenzfaktor Shigatoxin 2 mit neutrophilen Granulozyten" (2nd examiner); 14/08/2015
- Bettina Nothegger, BSc „*Neocallimastigomycota in anaerobic digestion of cattle manure and their contribution to degradation*“ (1st examiner); 16/11/2015

Habilitation panel:

- Georg Franz Leitinger, Dr. (non-professorial teaching staff candidate) 2016

Publications

- Mamimin C., Probst M., Gómez-Brandón M., **Podmirseg S.M.**, Insam H., Reungsang A., O-Thong S. (2018) Trace metals supplementation enhanced microbiota and biohythane production by two-stage thermophilic fermentation. *International Journal of Hydrogen Energy* **44**:3325-3338.
IF 4.23
- Hupfauf S., Plattner P., Wagner A.O., Kaufmann R., Insam H., **Podmirseg S.M.** (2018) Temperature shapes the microbiota in anaerobic digestion and drives efficiency to a maximum at 45 °C. *Bioresource Technology* **269**:309-318.
IF 5.80
- Walter A., Probst M., Franke-Whittle I.H., Ebner C., **Podmirseg S.M.**, Etemadi-Shalamzari M., Hupfauf S., Insam H. (2018) Microbiota in anaerobic digestion of sewage sludge with and without co-substrates. *Water and Environment Journal*, doi:10.1111/wej.12392
IF 1.22
- Nagler M., **Podmirseg S.M.**, Griffith G.W., Insam H., Ascher-Jenuß J. (2018) The use of extracellular DNA as a proxy for specific microbial activity. *Applied Microbiology and Biotechnology*, doi.org/10.1007/s00253-018-8786-y
IF 3.42
- Insam H., Delgado-Granados H., Nagler M., Waldhuber S., **Podmirseg S.M.**, Quideau S. (2017) Soil microbiota along Ayoloco glacier retreat area of Iztaccíhuatl volcano, Mexico. *Catena* **153**:83-88.
IF 3.191
- Wett B.**, **Podmirseg S.M.**, Gómez-Brandón M., Hell M., Nyhuis G., Bott C., Murthy S. (2015) Expanding DEMON sidestream deammonification technology towards mainstream application. *Water and Environmental Research* **87**(12):2084-2089.
IF 1.000
- Dollhofer V., **Podmirseg S.M.**, Callaghan T.M., Griffith G.W., Fliegerova K. (2015). Anaerobic Fungi and Their Potential for Biogas Production, in Guebitz GM, Bauer A, Bochmann G, Gronauer A, Weiss S, eds. *Biogas Science and Technology*, Springer International Publishing. **151**:41-61.
IF 1.660
- Podmirseg S.M.**, Gadermaier M., Franke-Whittle I., Wett B., Insam H., Goberna M. (2015) Prokaryotic community dynamics during the start-up of a full-scale BIO4GAS digester. *Journal of Environmental Engineering*, [10.1061/\(ASCE\)EE.1943-7870.0001011](https://doi.org/10.1061/(ASCE)EE.1943-7870.0001011).
IF 1.221
- Callaghan T.M., **Podmirseg S.M.**, Hohlweck D., Edwards J.E., Puniya A.K., Singh S.D., Griffith G.W. (2015) A new genus of anaerobic fungus: *Buwchfawromyces* isolated from buffalo faeces. *MycoKeys* **9**:11-28.
IF 1.846
- Podmirseg S.M.**, Pümpel T., Markt R., Murthy S., Bott C., Wett B. (2015) Comparative evaluation of multiple methods to quantify and characterise granular anammox biomass. *Water Research* **68**:194-205.
IF 5.323

Jabornig, S. and **Podmirseg S.M.** (2015) A Novel Fixed Fibre Biofilm Membrane Process for On-site Greywater Reclamation requiring no fouling control. *Biotechnology and Bioengineering* **112**(3):484-493. doi: 10.1002/bit.25449.

IF 4.164

Insam H., Franke-Whittle I.H., **Podmirseg S.M.** Agricultural Waste Management in Europe, with an Emphasis on Anaerobic Digestion. (2014) *Journal of Integrated Field Science* **11**:13-17.

Insam H., **Podmirseg S.M.**, Wagner A., Simunek J. (2014) No oxygen-still vigorous: 8th International Symposium on Anaerobic Microbiology (ISAM 8) Innsbruck, Austria. *Anaerobe* **29**:1-2.

IF 2.364

Leis, S., Dresch P., Peintner U., Fliegerova K., Sandbichler A.M., Insam H., **Podmirseg S.M.** (2014) Finding a robust strain for biomethanation: Anaerobic fungi (Neocallimastigomycota) from the Alpine ibex (*Capra ibex*) and their associated methanogens. *Anaerobe* **29**:34-43.

IF 2.364

Wett B., Omari A., **Podmirseg S.M.**, Han M., Akintayo O.; Gómez-Brandón M., Murthy S., Bott C., Hell M., Takács I., Nyhuis G., O'Shaughnessy M. (2013) Going for mainstream deammonification from bench- to full-scale for maximized resource efficiency. *Water Science & Technology* **68**(2):283-9.

IF 1.212

Hell K., Edwards A., Zarsky J., **Podmirseg S.M.**, Girdwood S., Pachebat J., Insam H., Sattler B. (2013) The dynamic bacterial communities of a melting High Arctic glacier snowpack. *The ISME Journal* **7**(9):1814-1826.

IF 9.267

Gómez-Brandón M. and **Podmirseg S.M.** (2013) Biological Waste Treatment. *Waste Management & Research*; **31**(8):773-774; DOI: 10.1177/0734242X13497685.

IF 1.114

Podmirseg S.M., Seewald M.S.A., Knapp B.A., Bouzid O., Petit-Biderre C., Peyret P., Insam H. (2013) Wood ash amendment to biogas reactors as an alternative to landfilling? A preliminary study on the changes in chemistry and biology. *Waste Management & Research* **31**(8):829-842.

IF 1.114

Fliegerova K., Mrazek J., Kajan M., **Podmirseg S.M.**, Insam H. (2012) The Effect of Maize Silage as Co-Substrate for swine manure on the bacterial community structure in biogas plants *Folia Microbiologia* **57**:281-284.

IF 0.791

Goberna M., **Podmirseg S.M.**, Waldhuber S., Knapp B.A., García C., Insam H. (2011) Pathogenic bacteria and mineral N in soils following the land spreading of biogas digestates and fresh manure *Applied Soil Ecology* **49**:18-25.

IF 2.368

Podmirseg S.M., 2011. Microbial communities in organic waste- and wastewater management *with a special focus on the bioaugmentation of nitrifiers, mesophilic biogas reactors and digestate application to soil*. Doctoral Thesis at the Institute of Microbiology, University of Innsbruck, Austria.

Podmirseg S.M., Schoen M.A., Murthy S., Insam H., Wett B. (2010) Quantitative and qualitative effects of bioaugmentation on ammonia oxidizers at a two-step WWTP. *Water Science and Technology* **61**(4):1003-1009.

IF 1.056

Knapp B.A., **Podmirseg S.M.**, Seeber J., Meyer E., Insam H. (2009) Diet-related composition of the gut microbiota of *Lumbricus rubellus* as revealed by a molecular fingerprinting technique and cloning. *Soil Biology and Biochemistry* **41**:2299-2307.

IF 2.978

Knapp B.A., Seeber J., **Podmirseg S.M.**, Rief A., Meyer E., Insam H. (2009) Molecular fingerprinting analysis of the gut microbiota of *Cylindroiulus fulviceps* (Diplopoda). *Pedobiologia* **52**(5):325-336.

IF 2.414

Knapp B.A., Seeber J., **Podmirseg S.M.**, Meyer E., Insam H. (2008) Application of denaturing gradient gel electrophoresis for analysing the gut microflora of *Lumbricus rubellus* Hoffmeister under different feeding conditions. *Bulletin of Entomological Research* **98**:271-279.

IF 1.415

Podmirseg S.M., 2007. Characterization of the microbial gut community of *Lumbricus rubellus* by PCR-DGGE and cloning. Master Thesis at the Institute of Microbiology, University of Innsbruck, Austria.

Posters

Nagler M., Jäger A., Hupfauf B., Insam H., **Podmirseg S.M.** Defining the best pretreatment method for biomethanisation of sewage sludge and corn straw. 6th International Conference on Sustainable Solid Waste Management, Naxos Island, Greece, 13.06.2018.

Hupfauf S., Plattner P., Insam H., **Podmirseg S.M.** Effect of temperature on the anaerobic digestion process. ISAM 2017 – The 10th International Symposium on Anaerobic Microbiology, Liblice, Czech Republic, 13.06.2017.

Bachmann B., **Podmirseg S.M.**, Pümpel T., Insam H., Wett B. Balancing flocs and granules for activated sludge process intensification, ESIB (European Summit of Industrial Biotechnology), Graz, Austria; 14.11-16.11.2016.

Nagler M., Kozjek K., Insam H., **Podmirseg S.M.** Bovine rumen as potent amendment to biogas-reactors for degradation of lignocellulose-rich biomass, 35. Jahrestagung der ÖGHMP, Zell am See, Austria; 30.05.-02.06.2016.

Kozjek K., Nagler M., Insam H., **Podmirseg S.M.** Rumen content as amendment to anaerobic digesters and source of lignocellulose degrading microbes, 35. Jahrestagung der ÖGHMP, Zell am See, Austria; 30.05.-02.06.2016.

Nagler M., Jäger A., Hupfauf B., Insam H., **Podmirseg S.M.** Defining the best pre-treatment for sewage sludge and corn straw biomethanisation. ISAM9, Portorož; Slovenia 25-27.06.2015.

- Podmirseg S.M.**, Waldhuber S., Knapp B.A., García C., Insam H., Goberna M., Soil amendment with anaerobically digested or fresh cattle manure and its impact on microbial diversity and activity. Soil Biodiversity Conference, Dijon, France; 02-05.12.2014.
- Nothegger B., Nagler M., Dresch P., Fliegerova K., Mrazek J., Leis S., Peintner U., Insam H., **Podmirseg S.M.** Neocallimastigomycota in anaerobic digestion of cattle manure and their contribution to degradation. Biogas Science Conference, Vienna, Austria; 26-30.10.2014.
- Dresch P., Leis S., Peintner U., Insam H. Mrazek J., Fliegerova K., **Podmirseg, S.M.** Implementation of anaerobic fungi in anaerobic digestion – a way to improve biogas plants? ISAM-8, 8th International symposium of anaerobic microbiology, Innsbruck, Austria; 12-15.06.2013.
- Muik M., Gómez-Brandón M., Sandbichler A.M., Insam H., Wett B., **Podmirseg S.M.** Characterization of anammox granules from a full-scale WWTP by microscopic techniques and a novel particle tracking method; ISAM-8, 8th International symposium of anaerobic microbiology; Innsbruck, Austria; 12-15.06.2013.
- Podmirseg S.M.**, Seewald M.S.A., Knapp B.A., Insam H. The effect of wood ash on performance and the methanogenic community of mesophilic biogas reactors. ASH, Stockholm, Sweden; 25-27.06.2012.
- Goberna M., **Podmirseg S.M.**, Waldhuber S., Knapp B.A., García C., Insam H.; Soil microbial communities and N percolation in soil columns amended with fresh or digested cattle excreta. ISME13, Seattle, USA, 22.-27.08.2010.
- Knapp B.A., Seeber J., **Podmirseg S.M.**, Rief A., Meyer E., Insam H.; Structural composition of the gut microbiota of *Lumbricus rubellus* and *Cylindroiulus fulviceps* as revealed by a molecular fingerprinting technique and cloning. 3rd FEMS Congress of European Microbiologists, Gothenburg, 28.06.2009– 02.07.2009.
- Podmirseg S.M.**, Gadermaier M., Goberna M., Franke-Whittle I., Insam H.; Community shifts of Methanogens during the start-up of a mesophilic biogas Reactor treating cattle manure. ISAM 2009. 6th International Symposium of Anaerobic Microbiology, Liblice, 18.06.2009 - 20.06.2009.
- Knapp B.A., Seeber J., **Podmirseg S.M.**, Rief A., Insam H., Meyer E.; Molecular fingerprinting analysis of the gut microbiota of *Cylindroiulus fulviceps* (Diplopoda). Deutsche Entomologentagung 2009, Entomological Conference of the German Entomological Society, Göttingen, 16.03.2009 - 19.03.2009.
- Knapp B.A., Seeber J., **Podmirseg S.M.**, Meyer E., Insam H.; Diet-related composition of the gut microflora of *Lumbricus rubellus* and *Cylindroiulus fulviceps* as revealed by molecular fingerprinting analysis. 9th Symposium on Bacterial Genetics and Ecology (Bageco 9), Wernigerode, 23.06.2007 - 27.06.2007.
- Podmirseg S.M.**, Knapp B.A., Seeber J., Meyer E., Insam H.; Characterizing the gut community of *Lumbricus rubellus* by a cloning approach. 9th Symposium on Bacterial Genetics and Ecology (Bageco 9), Wernigerode, 23.06.2007 – 27.06.2007.

Oral presentations

Podmirseg SM Die Mikrobiologie der Biogaserzeugung; BioÖkonomieTage (EurA Consult AG), Frankfurt am Main (D) 17.10.2013-18.10.2013.

Podmirseg SM Microbial community changes during start-up of a BIO4GAS® reactor and field application of the digestate. ISAM7. International Symposium on Anaerobic Microbiology, Smolenice (SK) 15.06.2011-18.06.2011.

Podmirseg SM Nitrifier shifts in a two step WWTP after sidestream-bioaugmentation at different temperatures and pumping rates. ASPD5. Specialised Conference on Microbial Population Dynamics in Biological Wastewater Treatment, Aalborg (DK) 24.05.2009 - 27.05.2009.

Podmirseg SM Using DGGE to analyse microbial communities in Oligochaetes. MTI Symposium "Molecular approaches to study trophic interactions: Current progress and future directions", Innsbruck (A) 01.03.2007 - 03.03.2007.

For references please contact:

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Dr. Kate Fliegerová

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