

Publication List

Total number of citations according to ISI Web of Science (as of August 2017): 6,877

h-Index: 35

Publications in Peer-Reviewed Journals

(* indicates corresponding authorship)

1. Kits KD, Sedlacek CJ, Lebedeva EV, Han P, Bulaev A, Pjevac P, Daebeler A, Romano S, Albertsen M, Stein LY, **Daims H***, Wagner M (2017). Kinetic analysis of a complete nitrifier reveals an oligotrophic lifestyle. *Nature*, in press.
2. Pjevac P, Schauburger C, Poghosyan L, Herbold CW, van Kessel MAHJ, Daebeler A, Steinberger M, Jetten MSM, Lüscher S, Wagner M, **Daims H*** (2017). *AmoA*-targeted polymerase chain reaction primers for the specific detection and quantification of comammox *Nitrospira* in the environment. *Front. Microbiol.* 8:1508.
3. Schulz F*, Yutin N, Ivanova NN, Ortega DR, Lee TW, Vierheilig J, **Daims H**, Horn M, Wagner M, Jensen GJ, Kyrpides NC, Koonin EV, Woyke T (2017). Giant viruses with an expanded complement of translation system components. *Science* 356: 82-85.
4. Oswald K, Graf JS, Liftmann S, Tierken D, Brand A, Wehrli B, Albertsen M, **Daims H**, Wagner M, Kuypers MMM, Schubert CJ, Milucka J* (2017). *Crenothrix* are major methane consumers in stratified lakes. *ISME J.*, in press.
5. **Daims H***, Lüscher S, Wagner M (2016). A new perspective on microbes formerly known as nitrite-oxidizing bacteria. *Trends Microbiol.* 24: 699-712.
6. Hemp J*, Lüscher S, Schott J, Pace L, Johnson J, Schink B, **Daims H**, Fischer W (2016). Genomics of a phototrophic nitrite oxidizer: Insights into the evolution of photosynthesis and nitrification. *ISME J.* 10: 2669-2678.
7. Hüpeden J, Wegen S, Off S, Lüscher S, Bedarf Y, **Daims H**, Kühn C, Spieck E* (2016). Relative abundance of *Nitrotoga* in a biofilter of a cold freshwater aquaculture plant appears to be stimulated by slightly acidic pH. *Appl. Environ. Microbiol.* 82: 1838-1845.
8. **Daims H**, Lebedeva EV, Pjevac P, Han P, Herbold C, Albertsen M, Jehmlich N, Palatinszky M, Vierheilig J, Bulaev A, Kirkegaard RH, von Bergen M, Rattei T, Bendinger B, Nielsen PH, Wagner M* (2015). Complete nitrification by *Nitrospira* bacteria. *Nature* 528: 504-509.
9. Koch H, Lüscher S, Albertsen M, Kitzinger K, Herbold C, Spieck E, Nielsen PH, Wagner M, **Daims H*** (2015). Expanded metabolic versatility of ubiquitous nitrite-oxidizing bacteria from the genus *Nitrospira*. *Proc. Natl. Acad. Sci. USA* 112: 11371-11376.
10. Palatinszky M, Herbold C, Jehmlich N, Pogoda M, Han P, von Bergen M, Lagkouvardos I, Karst SM, Galushko A, Koch H, Berry D, **Daims H**, Wagner M* (2015). Cyanate as an energy source for nitrifiers. *Nature* 524: 105-108.
11. Schaffner I, Hofbauer S, Krutzler M, Pirker KF, Bellei M, Stadlmayr G, Mlynek G, Djinovic-Carugo K, Battistuzzi G, Furtmüller PG, **Daims H**, Obinger C* (2015). Dimeric chlorite dismutase from the nitrogen-fixing cyanobacterium *Cyanothece* sp. PCC7425. *Mol. Microbiol.* 96: 1053-1068.
12. Nowka B, Off S, **Daims H**, Spieck E* (2015). Improved isolation strategies allowed the phenotypic differentiation of two *Nitrospira* strains from widespread phylogenetic lineages. *FEMS Microbiol. Ecol.* 91: fiu031.
13. Hofbauer S, Hagmüller A, Schaffner I, Mlynek G, Krutzler M, Stadlmayr G, Pirker KF, Obinger C, **Daims H**, Djinovic-Carugo K*, Furtmüller PG* (2015). Structure and heme-binding properties of HemQ (chlorite dismutase-like protein) from *Listeria monocytogenes*. *Arch. Biochem. Biophys.* 574: 36-48.

14. Gruber-Dorninger C, Pester M, Kitzinger K, Savio DF, Loy A, Rattei T, Wagner M, **Daims H*** (2015). Functionally relevant diversity of closely related *Nitrospira* in activated sludge. *ISME J.* 9: 643-655.
15. Lückner S*, Schwarz J, Gruber-Dorninger C, Spieck E, Wagner M, **Daims H** (2015). *Nitrotoga*-like bacteria are previously unrecognized key nitrite oxidizers in full-scale wastewater treatment plants. *ISME J.* 9: 708-720.
16. Nowka B, **Daims H**, Spieck E (2015). Comparative oxidation kinetics of nitrite-oxidizing bacteria: nitrite availability as key factor for niche differentiation. *Appl. Environ. Microbiol.* 81: 745-753.
17. Koch H, Galushko A, Albertsen M, Schintlmeister A, Gruber-Dorninger C, Lückner S, Pelletier E, Le Paslier D, Spieck E, Richter A, Nielsen PH, Wagner M, **Daims H*** (2014). Growth of nitrite-oxidizing bacteria by aerobic hydrogen oxidation. *Science* 345: 1052-1054.
18. Sorokin DY*, Vejmekova D, Lückner S, Streshinskaya GM, Rijpstra I, Sinnighe Damsté J, Kleerebezem R, Van Loosdrecht M, Muyzer G, **Daims H** (2014). *Nitrolancea hollandica* gen. nov., sp. nov., a chemolithoautotrophic nitrite-oxidizing bacterium from a bioreactor belonging to the phylum Chloroflexi. *Int. J. Syst. Evol. Microbiol* 64: 1859-1865.
19. Remus-Emsermann MNP*, Lückner S, Müller DB, Potthoff E, **Daims H**, Vorholt JA (2014). Spatial distribution analyses of natural phyllosphere-colonizing bacteria on *Arabidopsis thaliana* revealed by fluorescence in situ hybridization. *Environ. Microbiol.* 16: 2329-2340.
20. Pester M, Maixner F, Berry D, Rattei T, Koch H, Lückner S, Nowka B, Richter A, Spieck E, Lebedeva E, Loy A, Wagner M, **Daims H*** (2014). NxrB encoding the beta subunit of nitrite oxidoreductase as functional and phylogenetic marker for nitrite-oxidizing *Nitrospira*. *Environ. Microbiol.* 16: 3055-3071.
21. Almstrand R, Persson F, **Daims H**, Ekenberg M, Christensson M, Wilén BM, Sörensson F, Hermansson M* (2014). Three-dimensional stratification of bacterial biofilm populations in a moving bed biofilm reactor for nitrification anammox. *Int. J. Mol.Sci.* 15: 2191-2206.
22. Hofbauer S, Gysel, K, Bellei M, Hagmueller A, Schaffner I, Mlynek G, Kostan J, Pirker K, **Daims H**, Furtmüller P, Battistuzzi G, Djinojic-Carugo K, Obinger C* (2014). Manipulating conserved heme cavity residues of chlorite dismutase: effect on structure, redox chemistry and reactivity. *Biochemistry* 53: 77-89.
23. Lopez-Vazquez CM*, Kubare M, Saroj DP, Chikamba C, Schwarz J, **Daims H**, Brdjanovic D (2014). Thermophilic biological nitrogen removal in industrial wastewater treatment. *Appl. Microbiol. Biotechnol.* 98: 945-956.
24. Almstrand R, **Daims H**, Persson F, Sörensson F, Hermansson M* (2013). New methods for analysis of spatial distribution and coaggregation of microbial populations in complex biofilms. *Appl. Environ. Microbiol.* 79(19):5978-5987.
25. Lückner S, Nowka B, Rattei T, Spieck E, **Daims H*** (2013). The genome of *Nitrospina gracilis* illuminates the metabolism and evolution of the major marine nitrite oxidizer. *Front. Microbiol.* 4: 27.
26. Lebedeva EV, Hatzepichler R, Pelletier E, Schuster N, Hauzmayer S, Bulaev A, Grigoreva NV, Galushko A, Schmid M, Palatinszky M, Le Paslier D, **Daims H**, Wagner M* (2013). Enrichment and genome sequence of the group I.1a ammonia-oxidizing archaeon "*Ca. Nitrosotenuis uzonensis*" representing a clade globally distributed in thermal habitats. *PLoS One* 8: e80835.
27. Musmann M*, Ribot M, von Schiller D, Merbt S, Augpurger C, Karwautz C, Winkel M, Battin T, Marti E, **Daims H** (2013). Colonization of freshwater biofilms by nitrifying bacteria from activated sludge. *FEMS Microbiol. Ecol.* 85(1):104-115.
28. Kostanjšek R*, Pasic L, **Daims H**, Sket B (2013). Structure and community composition of sprout-like bacterial aggregates in a Dinaric karst subterranean stream. *Microb. Ecol.* 66: 5-18.

29. Dolinšek J, Lagkouvardos I, Wanek W, Wagner M, **Daims H*** (2013). Interactions of Nitrifying Bacteria and Heterotrophs: Identification of a *Micavibrio*-like Putative Predator of *Nitrospira* spp. *Appl. Environ. Microbiol.* 79:2027-2037.
30. Dolinšek J, Dorninger C, Lagkouvardos I, Wagner M, **Daims H*** (2013). Depletion of unwanted nucleic acid templates by selective cleavage: LNAzymes, catalytically active oligonucleotides containing locked nucleic acids, open a new window for detecting rare microbial community members. *Appl. Environ. Microbiol.* 79: 1534-1544.
31. Hofbauer S, Bellei M, Sündermann A, Pirker K, Hagmueller A, Mlynek G, Kostan J, **Daims H**, Furtmüller P, Djinović-Carugo K, Oostenbrink C, Battistuzzi G, Obinger C* (2012). Redox thermodynamics of high-spin and low-spin forms of chlorite dismutases with diverse subunit and oligomeric structures. *Biochemistry* 51: 9501-9512.
32. Ribot M*, Martí E, von Schiller D, Sabater F, **Daims H**, Battin TJ (2012). Nitrogen processing and the role of stream benthic biofilms downstream of a wastewater treatment plant. *Freshwater Science* 31: 1057-1069.
33. Hofbauer S, Gysel K, Mlynek G, Kostan J, Hagmueller A, **Daims H**, Furtmueller PG, Djinović-Carugo K, Obinger C* (2012). Impact of subunit and oligomeric structure on the thermal and conformational stability of chlorite dismutases. *Biochim. Biophys. Acta* 1824:1031-1038.
34. Sorokin DY, Lückner S, Vejmelkova D, Kostrikina NA, Kleerebezem R, Rijpstra WIC, Sinninghe Damsté JS, Le Paslier D, Muyzer G, Wagner M, van Loosdrecht MCM, **Daims H*** (2012). Nitrification expanded: Discovery, physiology, and genomics of a nitrite-oxidizing bacterium from the phylum *Chloroflexi*. *ISME J.* 6:2245-2256.
35. Schillinger C, Lux R, Riep B, Kikhney J, Petrich A, Friedmann A, Wolinsky LE, Göbel UB, **Daims H***, Møter A* (2012). Co-localized or randomly distributed? Pair cross correlation of in vivo grown subgingival biofilm bacteria quantified by digital image analysis. *PLoS One* 7: e37583.
36. Mußmann M, Brito I, Pitcher A, Damsté JSS, Hatzenpichler R, Richter A, Nielsen JL, Nielsen PH, Müller A, **Daims H**, Wagner M*, Head IM (2011). Thaumarchaeotes abundant in refinery nitrifying sludges express *amoA* but are not obligate autotrophic ammonia oxidizers. *Proc. Natl. Acad. Sci. USA* 108: 16771-16776.
37. Mlynek G, Sjöblom B, Kostan J, Füreder S, Maixner F, Gysel K, Furtmüller PG, Obinger C, Wagner M, **Daims H***, Djinović-Carugo K* (2011). Unexpected diversity of chlorite dismutases: A catalytically efficient dimeric enzyme from *Nitrobacter winogradskyi*. *J. Bacteriol.* 193: 2408-2417.
38. **Daims H*** and Wagner M (2011). *In situ* techniques and digital image analysis methods for quantifying spatial localization patterns of nitrifiers and other microorganisms in biofilm and flocs. *Methods Enzymol.* 496: 185-215.
39. Hall E*, Maixner F, Franklin O, Richter A, **Daims H**, Battin T (2011). Linking microbial and ecosystem ecology using ecological stoichiometry: a synthesis of conceptual and empirical approaches. *Ecosystems* 14: 261-273.
40. Lebedeva EV, Off S, Zumbärgel S, Kruse M, Shagzhina A, Lückner S, Maixner F, Lipski A, **Daims H**, Spieck S* (2011). Isolation and characterization of a moderately thermophilic nitrite-oxidizing bacterium from a geothermal spring. *FEMS Microbiol. Ecol.* 75: 195-204.
41. Hall EK*, Singer GA, Pölzl M, Hämmerle I, Schwarz C, **Daims H**, Maixner F, Battin T (2011). Looking inside the box: Using Raman microspectroscopy to deconstruct microbial biomass stoichiometry one cell at a time. *ISME J.* 5: 196-208.
42. Lückner S, Wagner M, Maixner F, Pelletier E, Koch H, Vacherie B, Rattei T, Sinninghe Damsté JS, Spieck E, Le Paslier D, **Daims H*** (2010). A *Nitrospira* metagenome illuminates the physiology and evolution of globally important nitrite-oxidizing bacteria. *Proc. Natl. Acad. Sci. USA* 107: 13479-13484.

43. Kostan J, Sjöblom B, Maixner F, Mlynek G, Furtmüller PG, Obinger C, Wagner M, **Daims H***, Djinović-Carugo K* (2010). Structural and functional characterisation of the chlorite dismutase from the nitrite-oxidizing bacterium "*Candidatus Nitrospira defluvii*": Identification of a catalytically important amino acid residue. *J. Struct. Biol.* 172(3):331-342.
44. Stoecker K, Dorninger C, **Daims H**, Wagner M* (2010). Double-labeling of oligonucleotide probes for fluorescence *in situ* hybridization (DOPE-FISH) improves signal intensity and increases rRNA accessibility. *Appl. Environ. Microbiol.* 76: 922–926.
45. Augspurger C, Karwautz C, Mussmann M, **Daims H**, Battin T* (2010). Drivers of bacterial colonization patterns in stream biofilms. *FEMS Microbiol. Ecol.* 72(1):47-57.
46. **Daims H*** (2009). Use of fluorescence *in situ* hybridization and the *daime* image analysis program for the cultivation-independent quantification of microorganisms in environmental and medical samples. *Cold Spring Harb. Protoc.* doi:10.1101/pdb.prot5253.
47. Schwitalla P, Mennerich A, Austermann-Haun U, Müller A, Dorninger C, **Daims H**, Holm NC, Rönner-Holm SG* (2008). NH₄⁺ ad-/desorption in sequencing batch reactors: simulation, laboratory and full-scale studies. *Water Sci. Technol.* 58(2):345-350.
48. Hoshino T, Yilmaz S, Noguera DR, **Daims H***, Wagner M (2008). Quantification of target molecules needed to detect microorganisms by fluorescence in situ hybridization (FISH) and catalyzed reporter deposition-FISH. *Applied Environ. Microbiol.* 74(16):5068-5077.
49. Maixner F, Wagner M*, Lückner S, Pelletier E, Schmitz-Esser S, Hace K, Spieck E, Konrat R, Le Paslier D, **Daims H** (2008). Environmental Genomics Reveals a Functional Chlorite Dismutase in the Nitrite-Oxidizing Bacterium "*Candidatus Nitrospira defluvii*". *Environ. Microbiol.* 10(11): 3043–3056.
50. Biasi C, Meyer H, Rusalimova O, Hämmerle R, Kaiser C, Baryani C, **Daims H**, Lashchinsky N, Barsukov P, Richter A* (2008). Initial effects of experimental warming on carbon exchange rates, plant growth and microbial dynamics of a lichen-rich dwarf shrub tundra in Siberia. *Plant Soil* 307(1-2):191-205.
51. Reigstad LJ, Richter A, **Daims H**, Urich T, Schwark L, Schleper C* (2008). Nitrification in terrestrial hot springs of Iceland and Kamchatka. *FEMS Microbiol. Ecol.* 64(2):167-174.
52. Hatzenpichler R, Lebedeva EV, Spieck E, Stoecker K, Richter A, **Daims H**, Wagner M* (2008). A moderately thermophilic ammonia-oxidizing crenarchaeote from a hot spring. *Proc. Natl. Acad. Sci. U.S.A.* 105(6):2134-2139.
53. Lebedeva EV, Alawi M, Maixner F, Jozsa PG, **Daims H**, Spieck E* (2008). Physiological and phylogenetical characterization of a new lithoautotrophic nitrite-oxidizing bacterium '*Candidatus Nitrospira bockiana*' sp. nov. *Int. J. Syst. Evol. Microbiol.* 58:242-250.
54. Huang WE, Stoecker K, Griffiths R, Newbold L, **Daims H**, Whiteley AS*, Wagner M (2007). Raman-FISH: Combining stable-isotope Raman spectroscopy and fluorescence in situ hybridization for the single cell analysis of identity and function. *Environ. Microbiol.* 9: 1878-1889.
55. **Daims H*** and Wagner M (2007). Quantification of uncultured microorganisms by fluorescence microscopy and digital image analysis. *Appl. Microbiol. Biotechnol.* 75(2):237-248.
56. Battin TJ*, Sloan WT, Kjelleberg S, **Daims H**, Head IM, Curtis T, Eberl L (2007). Microbial landscapes: New paths to biofilm research. *Nature Rev. Microbiol.* 5(1):76-81.
57. **Daims H***, Taylor MW, Wagner M (2006). Wastewater Treatment: A Model System for Microbial Ecology. *Trends Biotechnol.* 24(11): 483-489.
58. Meyer H, Kaiser C, Biasi C, Hämmerle R, Rusalimova O, Lashchinsky N, Baranyi C, **Daims H**, Barsukov P, Richter A* (2006). Soil carbon and nitrogen dynamics along a latitudinal transect in Western Siberia, Russia. *Biogeochemistry* 81(2):239-252.
59. Maixner F, Noguera DR, Anneser B, Stoecker K, Wegl G, Wagner M, **Daims H*** (2006). Nitrite concentration influences the population structure of *Nitrospira*-like bacteria. *Environ. Microbiol.* 8: 1487-1495.

60. **Daims H***, Maixner F, Lückner S, Stoecker K, Hace K, Wagner M (2006). Ecophysiology and niche differentiation of *Nitrospira*-like bacteria, the key nitrite oxidizers in wastewater treatment plants. *Water Sci. Tech.* 54(1): 21-27.
61. Strous M, Pelletier E, Mangenot S, Rattei T, Lehner A, Taylor MW, Horn M, **Daims H**, 27 other authors, Wagner M*, Le Paslier D (2006). Deciphering the evolution and metabolism of an anammox bacterium from a community genome. *Nature* 440: 790-794.
62. Stoecker K, Bendinger B, Schöning B, Nielsen PH, Nielsen JL, Baranyi C, Toenshoff ER, **Daims H**, Wagner M* (2006). Cohn's *Crenothrix* is a filamentous methane oxidizer with an unusual methane monooxygenase. *Proc. Natl. Acad. Sci. U.S.A.* 103: 2363-2367.
63. Wagner M*, Nielsen PH, Loy A, Nielsen JL, **Daims H** (2006). Linking microbial community structure with function: fluorescence in situ hybridization-microautoradiography and isotope arrays. *Curr. Opin. Biotechnol.* 17: 83-91.
64. Spieck E*, Hartwig C, McCormack I, Maixner F, Wagner M, Lipski A, **Daims H** (2006). Selective enrichment and molecular characterization of a previously uncultured *Nitrospira*-like bacterium from activated sludge. *Environ. Microbiol.* 8(3): 405-415.
65. **Daims H***, Lückner S, Wagner M (2006). *daime*, a novel image analysis program for microbial ecology and biofilm research. *Environ. Microbiol.* 8(2): 200-213.
66. Ginige M, Hugenholtz P, **Daims H**, Wagner M, Keller J, Blackall LL (2004). Use of stable-isotope probing, full-cycle rRNA analysis, and fluorescence *in situ* hybridization-microautoradiography to study a methanol-fed denitrifying microbial community. *Appl. Environ. Microbiol.* 70(1): 588-596.
67. Wagner M*, Horn M, **Daims H** (2003). Fluorescence in situ hybridisation for the identification of prokaryotes. *Curr. Opinion Microbiol.* 6: 302-309.
68. Wagner M*, Loy A, Nogueira R, Purkhold U, Lee N, **Daims H** (2002). Microbial community composition and function in wastewater treatment plants. *Antonie van Leeuwenhoek* 81: 665-680.
69. **Daims H**, Nielsen JL, Nielsen PH, Schleifer K-H, Wagner M* (2001). *In situ* characterization of *Nitrospira*-like nitrite-oxidizing bacteria active in wastewater treatment plants. *Appl. Environ. Microbiol.* 67(11): 5273-5284.
70. **Daims H**, Ramsing NB, Schleifer K-H, Wagner M* (2001). Cultivation-independent, semiautomatic determination of absolute bacterial cell numbers in environmental samples by fluorescence *in situ* hybridization. *Appl. Environ. Microbiol.* 67(12): 5810-5818.
71. **Daims H**, Purkhold U, Bjerrum L, Arnold E, Wilderer PA, Wagner M* (2001). Nitrification in sequencing biofilm batch reactors: lessons from molecular approaches. *Water Sci. Tech.* 43(3): 9-18.
72. **Daims H**, Nielsen PH, Nielsen JL, Juretschko S, Wagner M* (2000). Novel *Nitrospira*-like bacteria as dominant nitrite-oxidizers in biofilms from wastewater treatment plants: diversity and *in situ* physiology. *Water Sci. Tech.* 41: 85-90.
73. **Daims H**, Brühl A, Amann R, Schleifer K-H, Wagner M* (1999). The domain-specific probe EUB338 is insufficient for the detection of all *Bacteria*: Development and evaluation of a more comprehensive probe set. *System. Appl. Microbiol.* 22: 434-444.

Book Chapters and Other Publications

1. Lückner L and **Daims H** (2014). The Family *Nitrospiraceae*. In *The Prokaryotes*, pp. 231-237. (Rosenberg E, DeLong EF, Lory S, Stackebrandt E, Thompson F, eds.). Springer, New York.
2. **Daims H** (2014). The Family *Nitrospiraceae*. In *The Prokaryotes*, pp. 733-749. (Rosenberg E, DeLong EF, Lory S, Stackebrandt E, Thompson F, eds.). Springer, New York.
3. **Daims H** and Wagner M (2010). The microbiology of nitrogen removal. In *The microbiology of activated sludge*, pp. 259-280. (Seviour RJ, Nielsen PH, eds.). IWA Publishing, London, UK.

4. **Daims H**, Lücker S, Le Paslier D, Wagner M (2010). Diversity, environmental genomics, and ecophysiology of nitrite-oxidizing bacteria. *In* Nitrification, pp. 295-322. (Ward BB, Arp DJ, Klotz MG, eds.). ASM Press, Washington, DC.
5. **Daims H**, Maixner F, Schmid MC (2009). The nitrifying microbes: Ammonia oxidizers, nitrite oxidizers, and anaerobic ammonium oxidizers. *In* FISH Handbook for Biological Wastewater Treatment: Identification and quantification of microorganisms in activated sludge and biofilms by FISH, (Nielsen PH, **Daims H**, Lemmer H, eds.). IWA Publishing, London, UK. pp. 9-17.
6. **Daims H** (2009). Quantitative FISH for the cultivation-independent quantification of microbes in wastewater treatment plants *In* FISH Handbook for Biological Wastewater Treatment: Identification and quantification of microorganisms in activated sludge and biofilms by FISH, (Nielsen PH, **Daims H**, Lemmer H, eds.). IWA Publishing, London, UK. pp. 85-92.
7. **Daims H**, Stoecker K, Wagner M (2005). Fluorescence *in situ* hybridization for the detection of prokaryotes. *In* Advanced Methods in Molecular Microbial Ecology, Taylor & Francis, Abingdon, U.K., pp. 213-239.
8. **Daims H** (2005). Molecular analyses of microbial community structure and function of flocs. *In* Flocculation in Natural and Engineered Environmental Systems, (Droppo IG, Leppard GG, Liss SN, Milligan TG, eds.), CRC Press, Boca Raton, pp. 317-338.
9. Loy A, **Daims H**, Wagner M (2002). Activated sludge: Molecular techniques for determining community composition. *In* The Encyclopedia of Environmental Microbiology, (Bitton G, ed.), Wiley, New York, pp. 26-43.
10. **Daims H**, Schleifer K-H, Wagner M (2002). Halbautomatische und kultivierungs-unabhängige Quantifizierung von Bakterien in komplexen Umweltproben. *Laborwelt* **1/2002**: 10-14.