

List of Publications

Numbers in square brackets give number of citations using Web of Science (W) or Google Scholar (GS), updated 16/02/201. h-index 25(GS), 20(W).

Five most cited papers

1. Turner, P., Mamo, G., & Nordberg Karlsson, E. Potential and utilization of thermophiles and thermostable enzymes in biorefining. (2007) *Microb cell fact*, **6**: 9 (doi:10.1186/1475-2859-6-9) [Highly accessed] [162W, 305GS]
2. Abou Hachem, M., Nordberg Karlsson, E., Bartonek-Roxå, E., Raghothama, S., Simpson, P. J., Gilbert, H. J., Williamson, M.P. and Holst, O. (2000) Carbohydrate binding modules from a thermostable *Rhodothermus marinus* xylanase: Cloning, expression and binding studies. *Biochem. J.* **345**, 53-60 [76W, 87GS]
3. Åkesson, M., Nordberg Karlsson E., Hagander, P., Axelsson, J.-P. and Tocaj, A. (1999) Acetate formation and dissolved oxygen responses to feed transients in *Escherichia coli* cultivations. *Biotechnol. Bioeng.* **64**, 590-598 [73W, 101GS]
4. Turner, C., Turner, P., Jacobson, G., Waldebäck, M., Sjöberg, P., Nordberg Karlsson, E., and Markides, K. (2006) Subcritical water extraction and beta-glucosidase-catalyzed hydrolysis of quercetin in onion waste. *Green Chemistry* **8**, 949-959 [63W, 78GS]
5. Deraz, S. F., Nordberg Karlsson, E., Hedström, M., Andersson, M.M., and Mattiasson, B. (2005) Purification and characterization of acidocin D20079, a bacteriocin produced by *Lactobacillus acidophilus* DSM20079. *J. Biotechnol.* **117**, 343-354 [58W, 111 GS]

Original papers

1. Tania Pozzo, Javier Romero-García, Magda Faijes Antoni Planas, Eva Nordberg Karlsson. (2016) Construction of the first thermostable β -glucosynthase derived from glycoside hydrolase family 3. *Glycobiology* (accepted)
2. Peter Falck, Javier A. Linares-Pastén, Patrick Adlercreutz, Eva Nordberg Karlsson. Characterization of a family 43 β -xylosidase from the xylooligosaccharide utilizing putative probiotic *Weissella* strain 92. *Glycobiology* (2016) **26** (2): 193-202, online October 22, 2015 doi:10.1093/glycob/cwv092.
3. Rather, MY, Ara KZG, Nordberg Karlsson E, Adlercreutz P. (2015) Characterization of cyclodextrin glycosyltransferases (CGTases) and their application for synthesis of alkyl glycosides with oligomeric head group. *Process Biochemistry*, **50**: 722-728 (doi:10.1016/j.procbio.2015.02.016) [5GS]
4. Paul CJ, Leemhuis H, Dobruchowska J M., Grey C., Onnby L., van Leeuwen S S., Dijkhuizen L, and Nordberg Karlsson, E. (2015) A GH57 4- α -glucanotransferase of hyperthermophilic origin with potential for alkyl glycoside production. *Appl Microbiol Biotechnol*, **99** (17), 7101-7113 DOI 10.1007/s00253-015-6435-2 [3GS]
5. Rather, MY, Nordberg Karlsson E, Adlercreutz P. (2015) Complexation of alkyl glycosides with α -cyclodextrin can have drastically different effects on their conversion by glycoside hydrolases. *J Biotechnol*, **200**: 52-58 (doi: 10.1016/j.biotech.2015.02.019) [4GS]
6. Ara KZG, Lundemo P, Fridjonsson OH, Hreggvidsson GO, Adlercreutz P, Nordberg Karlsson E. (2015) A CGTase with high coupling activity using γ -cyclodextrin from a novel strain clustering under the genus *Carboxydocella*. *Glycobiology*, **25** (5): 514-523 (doi:10.1093/glycob/cwu182). [6GS]
7. Faryar R, Linares-Pastén JA, Immerzeel P, Mamo G, Andersson M, Stalbrand H, Mattiasson B, Nordberg Karlsson E (2015) Production of prebiotic xylooligosaccharides from alkaline extracted wheat straw using the K80R-variant of a thermostable alkali-tolerant xylanase *Food and Bioprocess Processing* **93**: 1-10 (doi:10.1016/j.fbp.2014.11.004) [2W, 2GS]
8. von Schantz L, Schagerlöf H, Nordberg-Karlsson E, Ohlin M. (2014) Characterization of the substitution pattern of cellulose derivatives using carbohydrate-binding modules. *BMC Biotechnol*, **14**:113 [1GS]
9. von Schantz L, Håkansson M, Logan DT, Nordberg Karlsson E, Ohlin M. (2014) Carbohydrate binding module recognition of xyloglucan through CH- π interactions and polar interactions with branching xyloses. *Proteins*, **82**, 3466-3475 [3W, 5GS]
10. Falck P, Aronsson A, Grey C, Stålbrand H, Nordberg Karlsson E, Adlercreutz P (2014) Production of arabinoxylan-oligosaccharide mixtures of varying composition from rye bran by combination of process conditions and type of xylanase. *Bioresource technol*, **174**, 118-125 [2W, 3GS]

11. Berger K, Falck P, Karlsson C, Nilsson U, Axling U, Grey C, Stålblbrand H, Nordberg Karlsson E, Nyman M, Holm C, Adlercreutz P. (2014) Cereal by-products have prebiotic potential in mice fed a high-fat diet. *J Agr Food Chem*, **62** (32), 8169–8178 [4W, 5GS]
12. Lundemo P, Nordberg Karlsson E, Adlercreutz P. (2014) Preparation of two glycoside hydrolases for use in micro-aqueous media. *J Mol Catal B Enz*, **108**, 1-6. [3GS]
13. Pozzo T, Plaza M, Romero-García J, Fajies M, Nordberg Karlsson E, Planas A. (2014) Glycosynthases from *Thermotoga neapolitana* β -glucosidase 1A: A comparison of α -glucosyl fluoride reactions with reactions using exogenous nucleophile. *J Mol Catal B Enz*, **107**, 132-139 [2W, 3GS]
14. Immerzeel P, Falck P, Galbe M, Adlercreutz P, Nordberg Karlsson E, Stålblbrand H (2014) Extraction of water-soluble xylan from wheat bran and utilization of enzymatically produced xylooligosaccharides by *Lactobacillus*, *Bifidobacterium* and *Weissella* spp. *LWT-Food Sci Technol*. **56**: 321-327 [9W, 11GS]
15. Reddy SK, Rosengren A, Klaubauf S, Kulkarni T, Nordberg Karlsson E, de Vries R, Stålblbrand H (2013) Phylogenetic analysis and substrate specificity of GH2 β -mannosidases from *Aspergillus* species. *FEBS Letters*, 587, 3444–3449 [10W, 9GS]
16. Falck P, Precha-atsawan S, Grey C, Immerzeel P, Stålblbrand H, Adlercreutz P, Nordberg Karlsson E. (2013) Xylooligosaccharides from Hardwood and Cereal Xylans produced by a thermostable xylanase as Carbon Sources for *Lactobacillus brevis* and *Bifidobacterium adolescentis*. *J Agr Food Chem*. **61**: 7333-7340. [18W, 22GS]
17. Ekman A, Campos M, Lindahl S, Co M, Börjesson P, Nordberg Karlsson E, Turner C. (2013) Value addition in bioresource utilization by sustainable technologies in new biorefinery concepts. *J Cleaner Prod*. **57**: 46-58. [22W, 26GS]
18. Patel A, Falck P, Shah N, Immerzeel P, Adlercreutz P, Stålblbrand H, Prajapati JB, Holst O, Nordberg Karlsson E (2013) Evidence for xylooligosaccharides and xylan utilization in *Weissella* strains isolated from Indian fermented foods and vegetables *FEMS Microbiol Letters* **346**: 20-28. [5W, 13GS]
19. Lundemo P, Adlercreutz P, Nordberg Karlsson E. (2013) Improved transferase/hydrolysis ratio through rational design of a family 1 β -glucosidase from *Thermotoga neapolitana*. *Appl Environ Microbiol*. **79**:11 3400-3405 [5W, 9GS]
20. Lindahl S, Liu J, Khan S, Nordberg Karlsson E, Turner C (2013) An on-line method for pressurised hot water extraction and enzymatic hydrolysis of quercetin glucosides from onions. *Analyt Chim Acta* **785**: 50-59. [9W, 10GS]
21. Cabero K., Pozzo, T., Liden G, Nordberg Karlsson E. (2012) A cellulolytic Hypocrea strain isolated from South American Brave Straw produces a modular xylanase. *Carbohydrate Research* **356**: 215-223 [5W, 5GS]
22. von Schantz L, Håkansson M, Logan DT, Walse B, Österlin J, Nordberg-Karlsson E, Ohlin M. (2012) Structural basis for carbohydrate specificity - a comparative assessment of two engineered carbohydrate binding modules. *Glycobiology* **22**(7): 948-961 [8W, 15GS]
23. Khan S, Lindahl, S, Turner C, Nordberg Karlsson E. (2012) Immobilization of thermostable β -glucosidase variants on acrylic supports for processing at high temperature using hot water extraction. *J Molecular Catalysis B* **80**: 28-38 [8W, 8GS]
24. Crespo, C., Pozzo, T., Nordberg Karlsson, E., Alvarez, M.T., Mattiasson, B. (2012) *Caloramator boliviensis* sp. nov., a novel thermophilic, ethanol-producing bacterium isolated from a natural sauna in Bolivia. *Int J Syst Evol Microbiol*. doi:10.1099/ijs.0.032664-0 (published ahead of print sept 2011) **62**, 1679-1686 [4W, 8GS]
25. Khan, S, Pozzo, T, Megyeri, M., Lindahl, S, Sundin A, Turner C, and Nordberg Karlsson, E. (2011) Aglycone specificity of *Thermotoga neapolitana* β -glucosidase 1A modified by mutagenesis, leading to increased catalytic efficiency in quercetin-3-glucoside hydrolysis. *BMC Biochemistry*, **12**:11[Highly accessed] [9W, 14GS]
26. Salomonsson E., Carlsson, M.C., Osla, V., Hendus-Altenburger, R., Kahl Knutsson, B., Öberg, C.T., Sundin, A., Nilsson, R., Nordberg-Karlsson, E., Nilsson, U.J., Karlsson, A., Rini, J.M. and Leffler, H. (2010) Mutational tuning of galectin-3 specificity and biological function. *J. Biol. Chem*. **285**: 35079-3509 [35W, 44GS]
27. Pozzo, T., Linares Pasten, J., Nordberg Karlsson, E., and Logan, D.T. (2010) Structural and functional analysis of beta-glucosidase 3B from *Thermotoga neapolitana*: a thermostable 3-domain representative of glycoside hydrolase family 3. *J Mol Biol*. **397**, 724-739 [49W, 67GS]
28. Immerstrand T, Deraz, S, Rosenqvist, A, Paul, C.J, Böök Mårtensson, O, Ljungh, Å, Blücher, A, Öste, R, Holst, O, and Nordberg Karlsson, E. (2010) Characterization of the properties of *Pediococcus parvulus* for probiotic or protective culture use. *J. Food Protect*. **73**, 960-966 [6W, 9GS]

29. Gullfot, F., Tan, T-C., von Schantz, L., Nordberg Karlsson, E., Ohlin, M., Brumer, H., Divne, C. (2010) The crystal structure of XG-34, an evolved xyloglucan-specific carbohydrate-binding module. *Proteins: Struct, Funct, Bioinform* **78**, 785-789 [8W, 13GS]
30. Lindahl, S., Ekman, A., Khan, S., Wennerberg, C., Börjesson, P., Sjöberg, P.J.R., Nordberg Karlsson, E., Turner, C. Exploring the possibilities to use a thermostable mutant of β -glucosidase for rapid hydrolysis of quercetin glucosides in hot water (2010) *Green Chemistry* **12**, 159–168 [23W, 30GS]
31. Graeber, M., Rundback, F, Andersson, M., Pozzo, T., Nordberg Karlsson, E. and Adlercreutz, P (2010) A novel direct screening method for evaluation of alkyl glucoside producing β -glucosidases. *J. Biotechnol.* **145**, 186–192 [4W, 7GS]
32. von Schantz, L, Gullfot, F., Scheer, S., Filonova, L., Cicortas Gunnarsson, L., Flint, J.E., Geoffrey, D., Nordberg Karlsson, E., Brumer, H., Ohlin, M. (2009) Affinity maturation generates greatly improved xyloglucan-specific carbohydrate binding modules. *BMC Biotechnol.* **9**:92 [15W, 22GS]
33. Labes, A, Nordberg Karlsson, E., Fridjonsson, O, Turner, P., Hreggvidsson, G., Kristjansson, J., Holst, O., and Schönheit, P. (2008) Isolation of new members of glycoside hydrolase family 13 derived from environmental DNA. *Appl. Environ. Microbiol.* **74**, 1914-1921 [10W, 15GS]
34. Cicortas-Gunnarsson, L, Montanier, C., Tunncliffe, R.B., Williamson, M.P., Gilbert, H.J., Nordberg Karlsson, E., and Ohlin, M. (2007) Novel xylan-binding properties of an engineered family 4 carbohydrate-binding module. *Biochem. J.* **406**, 209–214 [20W, 25GS]
35. Turner, P., Pramhed, A., Kanders E., Hedström, M., Nordberg Karlsson, E., and Logan, D. (2007) Expression, purification, crystallization and preliminary X-ray diffraction analysis of *Thermotoga neapolitana* beta-glucosidase B. *Acta Cryst.* **F63**, 802-806 [6W, 6GS]
36. Deraz, S.F., Hedström, M., Nordberg Karlsson, E., Linse S., Khalil, A., and Mattiasson B. (2007) Production and physicochemical characterization of acidocin D20079, a bacteriocin produced by *Lactobacillus acidophilus* DSM 20079. *World J. Microbiol. Biotechnol.* **23**, 911-921 [5W, 11GS]
37. Turner, P, Svensson D, Adlercreutz, P, and Nordberg Karlsson E (2007) A novel variant of *Thermotoga neapolitana* B-glucosidase B is an efficient catalyst for the synthesis of alkyl glucoside by transglycosylation. *J Biotechnol.* **130**, 67-74 [38W, 57GS]
38. Deraz, S.F., Nordberg Karlsson, E., Khalil, A.A., Mattiasson, B. (2007) Mode of action of acidocin D20079, a bacteriocin produced by the potential probiotic strain, *Lactobacillus acidophilus* DSM20079. *J. Ind. Microbiol. Biotechnol.* **34**, 373-379 [18W, 33GS]
39. Deraz, S.F., Plieva, F., Galaev, I.Y., Nordberg Karlsson E. and Mattiasson, B. (2007) Capture of bacteriocins directly from non-clarified fermentation broth using macroporous monolithic cryogels with phenyl ligands. *Enz. Microbial Technol.* **40**, 786-793 [15W, 19GS]
40. Cicortas Gunnarsson, L., Zhou, Q., Montanier, C., Nordberg Karlsson E., Brumer III, H., and Ohlin, M. (2006) Engineered xyloglucan specificity in a carbohydrate-binding module. *Glycobiology.* **16**, 1171-1180 [23W, 34GS]
41. Turner, C., Turner, P., Jacobson, G., Waldebäck, M., Sjöberg, P., Nordberg Karlsson, E., and Markides, K. (2006) Subcritical water extraction and beta-glucosidase-catalyzed hydrolysis of quercetin in onion waste. *Green Chemistry* **8**, 949-959 [62W, 78GS]
42. Nilsson, C., Nilsson, F., Turner, P, Sixtensson, M, Nordberg Karlsson, E., Holst, O, Cohen, A., and Gorton, L. (2006) Characterization of two novel cyclodextrinases using microdialysis sampling on-line with HPAEC-PAD. *Analytical and Bioanalytical Chemistry* **385**, 1421-1429 [3W, 4GS]
43. Ramchuran S.O, Vargas V, Hatti-Kaul, R. and Nordberg Karlsson E. (2006) Production of a lipolytic enzyme originating from *Bacillus halodurans* LBB2 in the methylotrophic yeast *Pichia pastoris*. *Appl. Microbiol. Biotechnol.* **71**, 463-472 [11W, 14GS]
44. Khalil AA, Mohamed SS, Taha FS, Nordberg Karlsson E. (2006) Production of functional protein hydrolysates from Egyptian breeds of soybean and lupin seeds. *Afr. J. Biotechnol.* **5**, 907-916 [9W, 15GS]
45. Cicortas Gunnarsson, L, Dexlin, L, Nordberg Karlsson, E., Holst, O, and Ohlin, M. (2006) Evolution of a carbohydrate binding module into a protein specific binder. *Biomolecular Engineering* **23**, 111-117 [11W, 20GS]
46. Crennell, S.J., Cook, D., Minns, A., Svergun, D., Andersen, R.L., Nordberg Karlsson, E. (2006) Dimerisation and an increase in active site aromatic groups as adaptations to high temperatures: X-ray solution scattering and substrate-bound crystal structures of *Rhodothermus marinus* endoglucanase Cel12A. *J. Mol. Biol.* **356**, 57-71 [10W, 18GS]
47. Turner, P., Labes, A., Fridjonsson, O.H., Hreggvidsson, G.O., Schönheit, P., Kristiansson, J.K., Holst, O., and Nordberg Karlsson, E. (2005) Two novel cyclodextrin-degrading enzymes from thermophilic bacteria,

- exhibit differences in activity profile and oligomeric state. *J. Biosci. Bioeng*, Vol. 100, No. 4., p. 380-390 [16W, 24GS]
48. de Mare, L., Velut, S., Ledung, E., Cimander, C., Norrman, B., Nordberg Karlsson, E., Holst, O. and Hagander P. (2005) A feeding strategy for *E. coli* fed-batch cultivations operating close to the maximum oxygen transfer capacity of the reactor. *Biotechnol. Letters*, Vol. 27, 983 – 990 [14W, 21GS]
 49. Ramchuran, S. O., Holst, O., Nordberg Karlsson, E. (2005) Effect of postinduction nutrient feed composition and use of lactose as inducer during production of thermostable xylanase in *Escherichia coli* glucose-limited fed-batch cultivations *J. Biosci. Bioeng.* 99, 477-484 [20W, 26GS]
 50. Deraz, S. F., Nordberg Karlsson, E., Hedström, M., Andersson, M.M., and Mattiasson, B. (2005) Purification and characterization of acidocin D20079, a bacteriocin produced by *Lactobacillus acidophilus DSM20079*, *J. Biotechnol.* 117, 343-354 [57W, 99GS]
 51. Ramchuran S.O, Mateus, B., Holst O, Nordberg Karlsson E. (2005) The methylotrophic yeast *Pichia pastoris* as a host for the expression and production of thermostable xylanase from *Rhodothermus marinus*. *FEMS Yeast Research*, 5, 839-850 [16W, 24GS]
 52. Turner, P., Holst, O., and Nordberg Karlsson, E. (2005) Optimized expression of soluble cyclomaltodextrinase of thermophilic origin in *E.coli* by using a soluble fusion-tag and by tuning of inducer concentration *Protein expression and purification*, 39, 54-60 [31W, 52GS]
 53. Nordberg Karlsson, E., Abou Hachem, M., Ramchuran, S.O., Costa, H., Holst O., Fex Svenningsen Å and Hreggvidsson, G. O. (2004) The modular xylanase Xyn10A from *Rhodothermus marinus* is cell-attached, and its C-terminal domain has several putative homologues among cell-attached proteins within the phylum Bacteroidetes. *FEMS Microbiol. Letters*, 241, 233-242 [13W, 18GS]
 54. Cicortas Gunnarsson, L., Nordberg Karlsson E., Albrekt A., Andersson, M., Holst, O., and Ohlin, M. (2004) A carbohydrate binding module as a diversity-carrying scaffold. *PEDS* 17: 213-221 [35W, 55GS]
 55. Gunnarsson L.C., Karlsson E.N., Albrekt A.S, Andersson, M., Holst, O. and Ohlin, M. (2004) A xylanase carbohydrate binding module as a scaffold for molecular diversity, *Glycobiology* 14, 1185.
 56. Abou-Hachem M., Olsson, F., and Nordberg Karlsson E. (2003) Probing stability of the modular thermostable xylanase Xyn10A, *Extremophiles* 7, 483 – 491 [20W, 28GS]
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 58. Ramchuran, S., Nordberg Karlsson E., Velut, S., de Maree, L., Hagander, P., and Holst, O. (2002) Production of heterologous thermostable glycoside hydrolases and the presence of host-cell proteases in substrate limited fed-batch cultures of *Escherichia coli* BL21(DE3) *Appl. Microbiol. Biotechnol.*, 60, 408-416 [21W, 34GS]
 59. Crennell, S.J., Hreggvidsson, G.O. and Nordberg Karlsson, E. (2002) The structure of *Rhodothermus marinus* Cel12A, a highly thermostable family 12 endoglucanase, at 1.8 Å resolution. *J.Mol. Biol.*, 320, 883-897 [27W, 41GS]
 60. Pfabigan, N., Nordberg Karlsson, E., Ditzelmueller, G., and Holst, O., (2002) Prebleaching of kraft pulp with full-length and functional domains of a thermostable xylanase from *Rhodothermus marinus*. *Biotechnol. Lett.* 24, 1191-1197 [4W, 7GS]
 61. Simpson, P.J., Jamieson, S.J., Abou-Hachem M., Nordberg Karlsson, E., Gilbert, H.J., Holst, O., and Williamson, M.P. (2002) The solution structure of the CBM4-2 carbohydrate binding module from a thermostable *Rhodothermus marinus* xylanase. *Biochemistry*, 41, 5712-5719 [48W, 54GS]
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 65. Nandakumar, M.P., Nordberg Karlsson, E., and Mattiasson, B. (2001) Variations in plasmid content during *Escherichia coli* cultivations detected by on-line flow injection processing. *Biotechnol. Lett.* 23, 1135-1140 [3W, 6GS]

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69. Abou Hachem, M., Nordberg Karlsson, E., Bartonek-Roxå, E., Raghothama, S., Simpson, P. J., Gilbert, H. J., Williamson, M.P. and Holst, O. (2000) Carbohydrate binding modules from a thermostable *Rhodothermus marinus* xylanase: Cloning, expression and binding studies. *Biochem. J.* 345, 53-60 [75W, 86GS]
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72. Nordberg Karlsson, E., Bartonek-Roxå, E., and Holst, O. (1998) Evidence for substrate binding of a recombinant thermostable xylanase originating from *Rhodothermus marinus*. *FEMS Microbiol Lett.* 168, 1-7. [14W, 18GS]
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Reviews, Book chapters/Books

75. Plaza M, Pozzo T, Liu J, Ara KZG, Turner C, Nordberg Karlsson E. (2014) Substituent effects on *in vitro* antioxidizing properties, stability and solubility in flavonoids. *J.Agr.Food Chem.* 62: 3321-3333 [18W, 25GS]
76. Linares-Pastén JA, Andersson M, Karlsson EN. (2014) Thermostable glycoside hydrolases in biorefinery technologies. *Curr Biotechnol* 2014; 3(1): 26-44 [4GS]
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78. Mamo G, Faryar R, Nordberg Karlsson E (2013) Microbial glycoside hydrolases for biomass utilization in biofuels application. In: *Biofuel Technologies: Recent Developments* (Eds: Gupta VK, Tuhoy MG), Springer. (ISBN 978-3-642-34518-0) pp. 171-188 [5GS]
79. Björn Regnell, Maria Stanfors, Per Runeson, Daniel Sjöberg, Kirk Scott, Eva Nordberg-Karlsson, Mats Gustafsson (2010) Den osynliga forskargruppen – ledarskap i och kring akademins verksamhetsbärande enheter. *AKKA III rapport* (book-chapter in Swedish – not listed in W)
80. Nordberg Karlsson, E., Johansson, L., Holst, O., and Lidén, G. (2010) *Escherichia coli* as a well-developed host for metabolic engineering (In C. D. Smolke (ed.), *The Metabolic Pathway Engineering Handbook-Fundamentals*, CRC Press, Boca Raton, Print ISBN: 978-1-4398-0296-0, eBook ISBN: 978-1-4398-0297-7, DOI: 10.1201/9781439802977.ch21
81. Turner, P., Mamo, G., & Nordberg Karlsson, E. Potential and utilization of thermophiles and thermostable enzymes in biorefining. (2007) *Microb cell fact*, 6: 9 (doi:10.1186/1475-2859-6-9) [Highly accessed] [157W, 286GS]
82. Nordberg Karlsson E. (1999) Xylan degradation by the thermophilic bacterium *Rhodothermus marinus*: Characterization and function of a thermostable xylanase (Doctoral thesis) [1W]

Reviewed conference proceedings

83. Nordberg Karlsson E & Turner C (2012) Sustainable Resource Technology (SuReTech). Proceedings of NWBC 2012 - The 4th Nordic wood biorefinery conference. VTT Technology 53. pp323-324 (ISBN 978-951-38-7880-1)
84. Hreggvidsson GO, Fridjonsson OH, Petursdóttir SK, Aevarsson A, Altenbuchner J, Fotheringham I, Defretin-Huchette S, Dijkhuizen L, Diminic J, Dobruchowska J, Gudmundsdottir E, Hranueli D, Kamerling JP, Kristjánsson JK, Nordberg-Karlsson E, Maubourguet S, Starcevic A, Zucko J (2011) Amyloenzymes captured by targeted Metagenomics. CBM2011_Abstracts [1GS]
85. Nordberg Karlsson, E., Labes, A., Turner, P, Fridjonsson, O.H, Wennerberg, C., Pozzo, T., Hreggvidsson, G.O, Kristjánsson, J.K., Schonheit, P. (2008) Differences and similarities in enzymes from the neopullulanase subfamily isolated from thermophilic species. *Biologia*, 63/6, 1006-1014. [5W]
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87. Cicortas Gunnarsson, L, Nordberg Karlsson, E., Andersson, M, Holst O, Ohlin, M (2006) Molecular engineering of a thermostable carbohydrate binding module. *Biocat. Biotrans.* 24, 31-37 [2W, 6GS]
88. Turner, P., Nilsson, C., Svensson, D., Holst, O., Gorton, L., and Nordberg Karlsson, E. (2005) Monomeric and dimeric cyclomaltodextrinases reveal different modes of substrate degradation. *Biologia, Bratislava* 2005, Volume 60, Supplement No. 16, 79-87. [5W, 8GS]
89. Turner, C, Turner, P, Jacobsen, G, Nordberg Karlsson, E, Waldebäck, M, Markides, K. (2005) Pressurized hot water extraction and enzyme-catalyzed conversion of polyphenolic glycosides in onion waste. *International Society for the Advancement of Supercritical Fluids*, Colmar. pp12-14 (3GS)
90. Abou Hachem, M, Olsson, F, Williamson, M.P., Linse S., Crennell, S.J., Hreggvidsson, G.O., Kristjánsson J.K., Holst, O., and Nordberg Karlsson, E. (2003) The modular organisation and stability of a thermostable family 10 xylanase *Biocat. Biotrans.* 21, 253-260. [4W, 5GS]
91. NordbergKarlsson, E., Linå Jørgensen, P., Dahlberg, L. and Holst, O. (1996) Cloning of xylanolytic activities from *Rhodothermus marinus*. In: Srebotnik, E. and Messner, K. (eds) *Biotechnology in the Pulp and Paper Industry:Recent Advances in Applied and Fundamental Research*.Facultas-Univ.-Verl., Vienna, Austria 513 – 516. [3W, 3GS]

Reports

92. Lange L, Björnsdóttir B, Brandt A, Hildén K, Hreggviðsson GÓ, Jacobsen B, Jessen A, Karlsson EN, Lindedam J, Mäkelä M, Smáradóttir SE, Vang J, Wentzel A (2016) Development of the Nordic Bioeconomy: NCM reporting: Test centers for green energy solutions - Biorefineries and business needs). København, Nordisk Ministerråd. <http://dx.doi.org/10.6027/TN2015-582>
93. Håkansson M, Logan DT, von Schantz L, Nordberg Karlsson E, Ohlin M. (2010) Non-specific CBM4-2 variant X-2 L110F–apo, xylopentaose, cellopentaose structures. *MAX-Lab Activity Report*, 338-339
94. Håkansson M, Logan DT, von Schantz L, Nordberg Karlsson E, Ohlin M. (2008) Engineered CBM4-2 variant X-2–apo, xylootetrose, xylopentose structures. *MAX-Lab Activity Report*, 368-369
95. Paul CJ, Pozzo T, Nordberg Karlsson E. Challenges in Directed Enzyme Engineering and Production. Greenchem Annual report 2009.
96. Holst O, Nordberg Karlsson E, Börjesson P. Education efforts in environmentally sound technologies related to green chemistry and biotechnology. Greenchem Annual report 2008. pp 6-7.
97. Nordberg Karlsson E. Greenchem - A catalyst for new research in green chemistry in Sweden. Greenchem Annual report 2007, p16.
98. Nordberg Karlsson, E. Development of novel biocatalysts. Greenchem Annual report, 2006 pp18-19.
99. Adlercreutz, P., Nordberg Karlsson, E., Ulvenlund, S. Meeting the challenges for biosurfactant synthesis. Greenchem Annual report, 2005, pp16-17.
100. Nordberg Karlsson E. Extrema enzymer för grön kemi. Greenchem Årsrapport 2004, pp8-9.

Patents

1. A: Wicher, Kryzysztof B., Holst, Olof Peder, Abou Hachem, Maher Youssef, Karlsson, Eva Margareta Nordberg, Hreggvidsson, Gudmundur O. (Prokaria Ehf., Iceland). Production of thermostable Cel12A cellulase variants from *Rhodothermus marinus*. Patent. **US patent 2004** (6812018) – **EP Patent 2003** (1297004) -WO/2001/096382. [1W, 11GS]
B: Wicher K B, Holst O P, Hachem M Y A, Karlsson E M N, Hreggvidsson G O. (Prokaria Ehf) Novel thermostable variant cellulase which is truncated such that amino terminal hydrophobic region and

linker group of corresponding full length enzyme is deleted, has improved catalytic properties and/or stability. **WO2001**196382-A ; EP1297004-A ; WO200196382-A2 ; AU200164212-A ; EP1297004-A2 ; WO200196382-A3.

- C: Wicher K B, Holst O P, Hachem M Y A, Karlsson E M N, Hreggvidsson G O. Novel isolated nucleic acid encoding a polypeptide having thermostable cellulase activity, useful for producing thermostable cellulase polypeptide and as probes for isolating homologous sequences. **US2002**102699-A1 ; US6812018-B2
2. A: Crennell, S.J, Karlsson E M N; Hreggvidsson, G.O., Kristjansson J.K., Aevarsson, A. (Prokaria Ltd, Iceland) Crystallised thermostable glycosyl hydrolase and use thereof for modifying structurally related enzymes. **Patent WO/2003/089633**
- B: Susan Crennell, Eva Karlsson, Gudmundur Hreggvidsson, Jakob Kristjansson, Arnthor Aevarsson. Crystal and structure of a thermostable glycosol hydrolase and use thereof, and modified proteins. **US2003**0199072 US Patent App. 10/294,444 [4GS].
- C: Crennell S J, Karlsson E M N, Hreggvidsson G O, Kristjansson J K, Aevarsson A, Nordberg Karlsson E M, Kristjansson J, Nordberg K E M. Crystallizable composition having thermophilic family 12 glycosyl hydrolase protein, useful for comparing the structure with other known enzymes for determining structural features conferring thermostability. **US2003**199072-A1 ; **WO2003**089633-A2 ; **AU2003**262376-A1 ; AU2003262376-A8 ; WO2003089633-A3
3. Adlercreutz, P., Svensson D, Mathew, S., and Karlsson EN. Synthesis of long-chain alkyl glycosides. (Patent **WO/2010/097421**)

Deposited 3D-structures (ProteinDataBank)

1. PDB-code 5IDI: Structure of beta glucosidase 1a from Thermotoga neapolitana. Kulkarni T, Nordberg Karlsson E, Logan DT
2. PDB code 2Y6H: Von Schantz, L; Hakansson, M; Logan, DT; Walse, B; Osterlin, J; Nordberg Karlsson, E; Ohlin, M. (2012) X-2 L110F CBM4-2 Carbohydrate Binding Module from a Thermostable Rhodothermus marinus Xylanase.
3. PDB code 2Y6J: Von Schantz, L; Hakansson, M; Logan, DT; Walse, B; Osterlin, J; Nordberg Karlsson, E; Ohlin, M. (2012) X-2 engineered mutated CBM4-2 Carbohydrate Binding Module from a Thermostable Rhodothermus marinus Xylanase.
4. PDB code 2Y6L: Von Schantz, L; Hakansson, M; Logan, DT; Walse, B; Osterlin, J; Nordberg Karlsson, E; Ohlin, M. (2012) Xylopentaose binding X-2 engineered mutated CBM4-2 Carbohydrate Binding Module from a Thermostable Rhodothermus marinus Xylanase.
5. PDB code 2Y64: Von Schantz, L; Hakansson, M; Logan, DT; Walse, B; Osterlin, J; Nordberg Karlsson, E; Ohlin, M. (2012) Xylopentaose binding mutated (X-2 L110F) CBM4-2 Carbohydrate Binding Module from a Thermostable Rhodothermus marinus Xylanase.
6. PDB code 2Y6G: Von Schantz, L; Hakansson, M; Logan, DT; Walse, B; Osterlin, J; Nordberg Karlsson, E; Ohlin, M. (2012) Cellopentaose binding mutated (X-2 L110F) CBM4-2 Carbohydrate Binding Module from a Thermostable Rhodothermus marinus Xylanase.
7. PDB code 2Y6K: Von Schantz, L; Hakansson, M; Logan, DT; Walse, B; Osterlin, J; Nordberg Karlsson, E; Ohlin, M. (2012) Xylotetraose bound to X-2 engineered mutated CBM4-2 Carbohydrate Binding Module from a Thermostable Rhodothermus marinus Xylanase
8. PDB code 2X42: Pozzo T; Logan, DT; Karlsson, EN. (2010) : Structure Of Beta-Glucosidase 3B From Thermotoga Neapolitana In Complex With Alpha-D-Glucose [1W]
9. PDB code 2X41: Pozzo T; Logan, DT; Karlsson, EN. (2010) : Structure Of Beta-Glucosidase 3B From Thermotoga Neapolitana In Complex With Glucose [1W]
10. PDB code 2X40: Pozzo T; Logan, DT; Karlsson, EN. (2010) : Structure Of Beta-Glucosidase 3B From Thermotoga Neapolitana In Complex With Glycerol [1W]
11. PDB code 2BWC: Crennell SJ; Nordberg-Karlsson, E. (2005) Structure Of Endoglucanase 12a (Cel12A) From Rhodothermus Marinus In Complex With Cellopentaose (5 Minute Soak). [1W]
12. PDB code 2BWA: Crennell SJ; Nordberg-Karlsson, E. (2005) Structure Of Endoglucanase 12a (Cel12A) From Rhodothermus Marinus In Complex With Cellopentaose, 20 Minute Soak. [1W]

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13. PDB code 2BW8: Crennell SJ; [Nordberg-Karlsson, E.](#) (2005) Native Structure Of Endoglucanase 12a (Cel12A) From *Rhodothermus Marinus* [1W]
14. PDB code 1H0B: Crennell SJ; Herggvidsson GO; [Nordberg-Karlsson, E.](#) (2003) Native Structure Of Endoglucanase 12a (Cel12A) From *Rhodothermus Marinus* [1W]
15. PDBcode 1K42: Simpson, PJ; Jamieson, SJ; Abou-Hachem, M; [Nordberg-Karlsson, E.](#); Gilbert, HJ; Holst, O; Williamson, MP (2002) The Solution Structure of the CBM4-2 Carbohydrate Binding Module from a Thermostable *Rhodothermus marinus* Xylanase [1W]
16. PDBcode 1K45: Simpson, PJ; Jamieson, SJ; Abou-Hachem, M; [Nordberg-Karlsson, E.](#); Gilbert, HJ; Holst, O; Williamson, MP (2002) The Solution Structure of the CBM4-2 Carbohydrate Binding Module from a Thermostable *Rhodothermus marinus* Xylanase [1W]

Deposited genes (GenBank) and Proteins (Uniprot)

1. GenBank X87417 *Rhodothermus marinus*, xyn10A, partial gene
2. GenBank CAA72323.2 *Rhodothermus marinus*, xyn10A, complete gene
3. UniProt: P96988: *Rhodothermus marinus*, GH10, xylanase, Xyn10A
4. GenBank: CAD10743, *Thermus aquaticus*, glta, complete gene
5. Uniprot: Q8VLZ3: *Thermus aquaticus*, citrate synthase
6. GenBank: AAX29991 *Anoxybacillus flavithermus*, Cda13, complete gene
7. Uniprot: Q5BLZ6 *Anoxybacillus flavithermus*, GH13, cyclomaltodextrinase
8. Genbank: AAX29990 *Laceyella sacchari*, Cda13, complete gene
9. Uniprot: Q5BLZ7, *Laceyella sacchari*, GH13, cyclomaltodextrinase
10. GenBank: ABI29899 *Thermotoga neapolitana* DSM4359, beta-glucosidase encoding gene
11. Uniprot: Q0GC07 *Thermotoga neapolitana* DSM4359, GH3, beta-glucosidase, Bgl3B
12. GenBank: GU116592 *Pediococcus parvulus* strain 2.6 16S ribosomal RNA gene, partial sequence
13. Genbank: JN798592, *Tricoderma* sp BLT1C, 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence
14. GenBank: JQ806366, *Hypocrea lixii* (BLT1C) 18S ribosomal RNA gene, partial sequence
15. GenBank: in progress, *Hypocrea lixii* strain BLT4A, 18S ribosomal RNA gene, partial sequence
16. GenBank: in progress, *Hypocrea lixii* strain BLT4A, internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, partial sequence.
17. GenBank: KJ806554.1, *Carboxydocella*, CGTase encoding gene
18. Genbank, KJ806553.1, *Carboxydocella*, 16S rDNA gene
19. GenBank: in progress, *Weissella* sp, GH43 xylosidase
20. GenBank: in progress, *Hypocrea lixii* BCS8A, 18S ribosomal RNA gene, partial sequence
21. GenBank: in progress, *Hypocrea lixii* BCS8A, internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, partial sequence
22. GenBank: in progress, *Bionectria* sp, strain BDR25B, 18S ribosomal RNA gene, partial sequence
23. GenBank: in progress, *Bionectria* sp, strain BDR25B, internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, partial sequence

Selected contributions as speaker

1. *ALAMY_6, Smolenice, Slovakia invited (accepted, 11-15 sept-2016).*
2. *Extremophile CAzymes glycoside synthesis, invited, FASEB, West Palm Beach US (accepted, 15-19 June-2016)*
3. Enzymatic production of prebiotic xylooligosaccharides from agricultural by products, invited keynote, SASM 2016, Umhlanga, South Africa (16-20/1 - 2016).
4. Biomass valorization at Biotechnology, LU. Nordic Bioeconomy Network (NCM) Reykjavik (4/3-2015)
5. Nordbio-network: Research at Biotechnology, Örnsköldsvik (5/5-2015) and Trondheim (15/9-2015)

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6. Why proteins in Biotechnology? **13/10-2015** (lecture, science faculty LU, KEMC03 Experimental protein chemistry)
7. A brief update on biofuel research at Lund University **26/6-2015**, EERA-workshop Brussels, Belgium
8. Oligosaccharide degrading enzymes from a putative probiotic *Weissella* strain **8/5-2015** invited (CBM-satellite workshop DTU, Kongens Lyngby, Denmark)
9. Enzymatic modification of polyphenolic antioxidants. **27/11- 2014**. Univ Maribor, Slovenia. (invited)
10. Bio-resources for innovative and sustainable non-food uses. Workshop on Bioeconomy **16/6-2014**, Alnarp, Sweden
11. Enzymatic modification of glycosyl groups in polyphenolic antioxidants. Workshop on enzymatic and sustainable biomass valorization, Lund Sweden, **11 dec, 2013**. (invited)
12. Green Chemicals from Renewable Feedstocks. Processing Biomass **29/11-2013** SLU, Uppsala, Sweden.
13. Amylolytic enzymes from new genera isolated via genetic tools: characterization of the first cyclomaltodextrin-glucoamylase from *Carboxydocella* sp. ALAMY-5, Smolenice, Slovakia, 21 oct **2013** (Flash presentation)
14. Extreme enzymes in Biotechnology (**15/10-2013**), lecture at Science faculty, LU, KEMC03 Experimental protein chemistry
15. Glycosidases from thermophiles - properties and potential as synthesis tools (Copenhagen University, **29/8-2013** (invited))
16. Thermostable Glucosidases – structure, function and applications. CMPS Symposium, Lund University, Sweden, 24 may **2013**. (invited)
17. The GH3 Family Enzymes in *Rhodothermus marinus*: Biochemical and Structural Characterization, Satellite workshop to CBM10, DTU, Kongens Lyngby, Danmark 18 april **2013**. (invited)
18. Molecular Biology approaches in enzyme research & Structure functional insights into development of a thermostable beta-galactosidase, Hanoi National University of Education, Hanoi, Vietnam, March 7-9, **2011** (invited)
19. Recombinant production of an archaeal family 57 α -glucanotransferase, and its use in alkyl glycoside production, 4th international conference on the alpha-amylase family, Smolenice, Slovakia, Sept, **2010**
20. Some structure and function analyses on GH1 and GH3 β -glucosidases from *Thermotoga neapolitana*. DTU Enzyme and Protein Chemistry , Kongens Lyngby, Danmark 27 aug **2010** (invited)
21. Effektivare etanolproduktion med extrema mikroorganismer. Sveriges Energiting (session 10), Stockholm, Sverige, 16 march **2010** (invited)
22. Glycoside hydrolases from extremophiles for sustainable processes/processing, SASM_Bio2Biz (invited keynote), Durban, South Africa, sept 19-23, **2009**
23. Greenchem – speciality chemicals from renewable resources JSPS_colloquium, Stockholm Sweden, May 25 **2009**. (invited)
24. Microbial glycoside hydrolases from extremophiles Sweden/Japan Cellwall workshop (invited keynote), Stensnas conference center, Stockholm Sweden, May 26-27 **2009**.
25. A glance at Lund University and research at the division of Biotechnology, Durban University of Technology, South Africa, Sept 18, **2008**
26. Differences and similarities in members of the neopullulanase subfamily. 3rd international conference on the alpha-amylase family. Smolenice, Slovakia, Sept 24-27, **2007**.
27. Enzymes and solvents for green chemistry. Analytical chemistry Alumni seminars, BMC, Uppsala University, Dec 14, **2006**. (invited)
28. Strategies for production of foreign proteins. Invited speaker at BioVitrum, Stockholm and at Pfizer, Strängnäs, April 28 **2006**.
29. Thermophilic glucanase and xylanase from *Rhodothermus marinus*. oral presentation at Swedish Wood Enzymology Workshop, Lund University, Lund, June 8-10th **2004**.
30. Investigations on organisation and stability, and possibilities of affinity diversification, using the thermostable xylanase Xyn10A from *R. marinus*. 4th NorFA-workshop on "Biology of thermophiles", University of Bath, UK, Sept 12-14, **2003**. by E Nordberg Karlsson
31. The modular organisation and stability of a thermostable family 10 xylanase. 5th Carbohydrate Bioengineering Meeting, Universtiy of Groningen, The Netherlands, April 6-9, **2003**
32. Hydrolases from the thermophilic bacterium *Rhodothermus marinus*: Enzyme stability and Applications. Oral presentation at Royal Swedish Academy of Engineering Sciences, Stockholm, Sweden, 26 jan. **1999**

33. CBDs of Xyn1 from *Rhodothermus marinus*. oral presentation at University of Sheffield, Dept. of Molecular Biology and Biotechnology, Sheffield, UK, 23 April, **1998**.

Outreach activities to the public:

1. Apr 15, 2016 EU Virus-X Consortium Awarded \$9M to Mine Viral Biological Diversity (www.genomeweb.com)
2. Enzymer från Lund erövrar världen. (<http://www.lum.lu.se/english/enzymes-from-lund-set-to-take-over-the-world/> by Ingela Björck, Lunds Universitets Magasin nr 2, Feb28, 2014 (article about enzyme research by Eva Nordberg Karlsson related to the projects AMYLOMICS and SuReTEch, and collaboration with the company Prokazyme)
3. Hälsobefrämjande kolhydrater. Populärvetenskapliga föredrag i kemi, Kemiska Institutionen, Lund Sweden, 4 dec **2013**. (seminar by Eva Nordberg Karlsson)
4. **BIOREFINING**: Biomass conversion to food, chemicals, materials and energy. Fascination of plants day, May 18 **2013**, Botanical garden Lund Sweden. (poster and information on research projects SureTech and AMYLOMICS by Eva Nordberg Karlsson)
5. Uppväxten i Urshult väckte Evas naturintresse.(av Emelie Olsson) Smålandsposten **2013**-03-27, p8 (article on the research and professorship of Eva Nordberg Karlsson, including use of byproducts for value addition)
6. Nya professorer med hållbar utveckling i fokus. **2013**-02-13, **Kemiska institutionens nyhetsarkiv** (<http://www.kilu.lu.se/arkiv/>) on the professorships of Charlotta Turner and Eva Nordberg Karlsson, with sustainable development in focus.
7. Green Chemistry, Bioresource utilization, **2011** (© Anna Thorbjornsson) International Innovation.pp 41-42 (www.researchmedia.eu) (article on the research program SuReTech)
8. Bioteknik och hållbar energi (14 okt **2011**), Skolstaden,Nicolai, Helsingborg (seminar by Eva Nordberg Karlsson)
9. Grön Kemi-ett biotekniskt perspektiv (24 sept **2011**) LTH 50 år, KILU, Lund. (seminar by Eva Nordberg Karlsson)
10. Hållbara tekniker /koncept för värdeökning på biomassa förnybara produkter kan hämtas från land och hav. (21 juli **2011**) Simrishamn (Marint Centrum), Sweden (seminar by Eva Nordberg Karlsson)
11. Samlad kraft för hållbar energi, Temadag om energi och klimat, Tekniken och sjöfartens hus, Malmö 26 mars **2011** (seminar by Eva Nordberg Karlsson)
12. "Lökligt för hjärnan" An article in Modern psykologi (no3, may **2010** by AnnaBritta Stål) citing Eva Nordberg Karlsson, on the effects of antioxidants from red onions.
13. Avfall från Skogs och jordbruk ska få ökat värde: Lökskal kan bli läkemedel (by Mats Nygren) Lunds Universitets Magasin nr2 **2010**. (article on the research program SureTech)
14. P Adlercreutz, J Ahlqvist, P Börjesson, R Hatti-Kaul, O Holst, B Mattiasson, L J Nilsson, E Nordberg Karlsson and A Svanberg. Slösa inte bort försprånget i industriell Bioteknik. **Dagens Industri**, 21 oktober 2010
15. *Greenchem* -Ett forskningsprogram med naturen som bas för kemikalieproduktion. Studentseminarium "BUS", Lund University, Lund, Sweden, Sept 30, **2006**. (seminar by E Nordberg Karlsson)
16. Gröna Kemikalier. "Aktiva seniorer", Tingsryd, Sweden, 14 nov, **2005** (evening seminar by E Nordberg Karlsson)
17. Forskning om bakterier från varma källor. Zonta, Malmö, Sweden, **18 nov, 2004**. (evening seminar by E Nordberg Karlsson)
18. Proteiner – Är det något man äter? (seminar by E Nordberg Karlsson) LTH 40th year jubilee, Kulturen, Lund, Sweden 11 oct , **2001**.
19. Thermophilic microorganisms. (seminar by E Nordberg Karlsson) Institute of Geology, Lund University, Lund, Sweden, 14 march, **1997**