

Publication list for 2008-2011

- 2008 **Aachmann, F.L. and Skjåk-Bræk, G.** ^1H , ^{15}N , ^{13}C resonance assignment of the AlgE6R1 subunit from the *Azotobacter vinelandii* mannuronan C5-epimerase. *Biomol NMR Assign, elektronisk versjon*, **3p. B1201**
- 2008 **Aune, T.E.V.** High level recombinant protein production in *Escherichia coli* by engineering broad-host-range plasmid vectors containing the *Pm/xyIS* expression cassette. Thesis. *Norwegian University of Science and Technology* **B1174**
- 2008 **Aursand, I.G., Gallart-Jornet, L., Erikson, U., Axelson, D.E. and Rustad, T.** Water distribution in brine salted cod (*Gadus morhua*) and salmon (*Salmo salar*): A low-field ^1H NMR study. *Journal of Agricultural and Food Chemistry* **56**, 6252–6260. **B1188**
- 2008 **Ballance, S., Kristiansen, K.A., Holt, J. and Christensen, B.E.** Interactions of polysaccharides extracted by mild acid hydrolysis from the leaves of *Sphagnum papillosum* with either phenylhydrazine, o-phenylenediamine and its oxidation products or collagen. *Carbohydr. Polym.* **71**, 550–558. **B1161**
- 2008 **Bar, N.S. and Lale, R.** Modeling and control of the protein synthesis process in eukaryotic cells. *47th IEEE Proceedings: Conference on Decision and Control (CDC)* **179-184. B1218**
- 2008 **Brautaset, T., Sletta, H., Nedal, A., Borgos, S.E.F., Degnes, K.F., Bakke, I., Volokhan, O., Sekurova, O.N., Treshalin, I.D., Mirchink, E.P., Dikiy, A., Ellingsen, T.E. and Zotchev, S.B.** Improved antifungal polyene macrolides via engineering of the nystatin biosynthetic genes in *Streptomyces noursei*. *Chemistry & Biology* **15**, 1198–1206. **B1210**
- 2008 **Bredholt, H., Fjærvik, E., Johnsen, G. and Zotchev, S.B.** Actinomycetes from sediments in the Trondheim Fjord, Norway: Diversity and biological activity. *Mar. Drugs* **6**, 12–24. **B1165**
- 2008 **Breivik, Å.S., Aachmann, F.L., Sal, L.S., Kim, W.-Y., Del Conte, R., Gladyshev, V.N. and Dikiy, A.** ^1H , ^{15}N and ^{13}C NMR assignments of mouse methionine sulfoxide reductase B2. *Biomol NMR Assign* **2**, 199–201. **B1207**
- 2008 **Böcker, U., Kohler, A., Aursand, I.G. and Ofstad, R.** Effects of brine salting with regard to raw material variation of Atlantic Salmon (*Salmo salar*) muscle investigated by Fourier Transform Infrared microspectroscopy. *Journal of Agricultural and Food Chemistry* **56**, 5129–5137. **B1182**
- 2008 **Caffrey, P., Aparicio, J.F., Malpartida, F. and Zotchev, S.B.** Biosynthetic engineering of polyene macrolides towards generation of improved antifungal

- and antiparasitic agents. *Current Topics in Medicinal Chemistry* **8**, 639-653. **B1186**
- 2008 Cederkvist, F.H., Parmer, M.P., Vårum, K.M., Eijsink, V.G.H. and Sørli, M.** Inhibition of a family 18 chitinase by chitooligosaccharides. *Carbohydr. Polym.* **74**, 41–49. **B1183**
- 2008 Christensen, B.E., Vold, I.M.N. and Vårum, K.M.** Chain stiffness and extension of chitosans and periodate oxidised chitosans studied by size-exclusion chromatography combined with light scattering and viscosity detectors. *Carbohydr. Polym.* **74**, 559–565. **B1189**
- 2008 Davis, T.A., Pinheiro, J.P., Grasdalen, H., Smidsrød, O. and Van Leeuwen, H.P.** Stability of lead(II) complexes of alginate oligomers. *Environmental Science and Technology* **42**, 1673–1679. **B1167**
- 2008 Draget, K.I.** Editorial: Eighth International Hydrocolloids Conference, Trondheim, June 2006. *Food Hydrocolloids* **22**, 1. **B1157**
- 2008 Duun, A.S.** Superchilling of muscle food - Storage stability and quality aspects of salmon (*Salmo salar*), cod (*Gadus Morhua*) and pork. Thesis. *Norwegian University of Science and Technology* **B1177**
- 2008 Duun, A.S., Hemmingsen, A.K.T., Haugland, A. and Rustad, T.** Quality changes during superchilled storage of pork roast. *LWT - Food Science and Technology* **41**, 2136-2143. **B1193**
- 2008 Duun, A.S. and Rustad, T.** Quality of superchilled vacuum packed Atlantic salmon (*Salmo salar*) fillets stored at -1.4 and -3.6 °C. *Food Chemistry* **106**, 122–131. **B1142**
- 2008 Dybvik, A.I., Falch, E. and Rustad, T.** Solid phase extraction as a tool to separate lipid classes and study deterioration of marine lipids. *J. Aquat. Food Prod. T.* **17**, 39-59. **B1178**
- 2008 Eijsink, V.G.H., Vaaje-Kolstad, G., Vårum, K.M. and Horn, S.J.** Towards new enzymes for biofuels: lessons from chitinase research. *Trends in Biotechnology* **26**, 228-235. **B1175**
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- 2008 Evjemo, J.O., Tokle, N., Vadstein, O. and Olsen, Y.** Effect of essential dietary fatty acids on egg production and hatching success of the marine copepod *Temora longicornis*. *Journal of Experimental Marine Biology and Ecology* **365**, 31–37. **B1205**

- 2008 Fjellheim, A.J., Skjermo, J. and Vadstein, O.** Evaluation of probiotic bacteria for Atlantic cod (*Gadhus morhua* L.) larvae. *World Aquaculture* **39**, 6p. **B1202**
- 2008 Fuglseth, E., Sundby, E., Bruheim, P. and Hoff, B.H.** Asymmetric reduction using (*R*)-MeCBS and determination of absolute configuration of *para*-substituted 2-fluoroarylethanol. *Tetrahedron: Asymmetry* **19**, 1941–1946. **B1196**
- 2008 Hakvåg, S., Fjærvik, E., Josefsen, K.D., Ian, E., Ellingsen, T.E. and Zotchev, S.B.** Characterization of *Streptomyces* spp. isolated from the sea surface microlayer in the Trondheim fjord, Norway. *Mar. Drugs* **6**, 620-635. **B1214**
- 2008 Hess-Erga, O.-K., Attramadal, K.J.K. and Vadstein, O.** Biotic and abiotic particles protect marine heterotrophic bacteria during UV and ozone disinfection. *AQUATIC BIOLOGY* **4**, 147–154. **B1213**
- 2008 Holme, H.** Depolymerization mechanisms and polyelectrolyte complexes of alginate and chitosan. Thesis. *Norwegian University of Science and Technology* **B1180**
- 2008 Holme, H.K., Davidsen, L., Kristiansen, A. and Smidsrød, O.** Kinetics and mechanisms of depolymerization of alginate and chitosan in aqueous solution. *Carbohydr. Polym.* **73**, 656–664. **B1212**
- 2008 Høy, M., Mozuraityte, R., Segtnan, V., Storrø, I., Mevik, B.H., Rustad, T. and Næs, T.** The use of experimental design methodology for investigating a lipid oxidation rate assay. *Chemometrics and Intelligent Laboratory Systems* **91**, 164–172. **B1170**
- 2008 Jacobsen, C., Undeland, I., Storrø, I., Rustad, T., Hedges, N. and Medina, I.** Preventing lipid oxidation in seafood. In *Improving seafood products for the consumer*. Edited by Børresen, T. Woodhead publishing limited. **425-460. B1191**
- 2008 Jakobsen, A.N.** Compatible solutes and docosaheptaenoic acid accumulation of thraustochytrids of the *Aurantiochytrium* group. Thesis. *Norwegian University of Science and Technology* **B1179**
- 2008 Jakobsen, A.N., Aasen, I.M., Josefsen, K.D. and Strøm, A.R.** Accumulation of docosaheptaenoic acid-rich lipid in thraustochytrid *Aurantiochytrium* sp. strain T66: effects of N and P starvation and O₂ limitation. *Appl. Microbiol. Biotechnol.* **80**, 297–306. **B1190**
- 2008 Jakobsen, Ø.M.** Study and engineering of methanol assimilation and L-lysine production in the thermotolerant bacterium *Bacillus methanolicus*. Thesis. *Norwegian University of Science and Technology* **B1198**

- 2008 Kawamura, S., Chijiwa, Y., Minematsu, T., Fukamizo, T., Vårum, K.M. and Torikata, T. The role of Arg114 at subsites E and F in reactions catalyzed by hen egg-white lysozyme. *Biosci. Biotechnol. Biochem.* **72**, 823–832. B1171
- 2008 Marsich, E., Borgogna, M., Donati, I., Mozetic, P., Strand, B.L., Salvador, S.G., Vittur, F. and Paoletti, S. Alginate/lactose-modified chitosan hydrogels: A bioactive biomaterial for chondrocyte encapsulation. *J. Biomed. Mater. Res. Part A* **84A**, 364-376. B1172
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- 2008 Mozuraityte, R., Rustad, T. and Storrø, I. The role of iron in peroxidation of polyunsaturated fatty acids in liposomes. *Journal of Agricultural and Food Chemistry* **56**, 537–543. B1163
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- 2008 Mørch, Y.A., Holtan, S., Donati, I., Strand, B.L. and Skjåk-Bræk, G. Mechanical properties of C-5 epimerized alginates. *Biomacromolecules* **9**, 2360–2368. B1197
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- 2008 Riebrooy, S., Benjakul, S., Visessanguan, W., Erikson, U. and Rustad, T. Comparative study on acid-induced gelation of myosin from Atlantic cod (*Gadus morhua*) and burbot (*Lota lota*). *Food Chemistry* **109**, 42–53. B1181
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- 2008 Solgaard, G.** *Calanus finmarchicus* as a potential basic feed ingredient. Thesis. Norwegian University of Science and Technology **B1194**
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- 2008 Zotchev, S.B.** Editorial. *Current Topics in Medicinal Chemistry* **8**, 616. **B1187**
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- 2009 Eysturskard, J., Haug, I.J., Elharfaoui, N., Djabourov, M. and Draget, K.I.** Structural and mechanical properties of fish gelatin as a function of extraction conditions. *Food Hydrocolloids* **23** **1702–1711**. **B1231**
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