

Curriculum Vitae

PERSONAL

Name: Morten Sørlié Date of Birth: 12th March 1969
Citizenship: Norwegian Gender: Male
Marital Status: Married, five children

ADDRESSES

Work: Department of Chemistry, Biotechnology, and Food Science (IKBM), the Norwegian University of Life Sciences (UMB). PB5003, N-1432 Ås.
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EDUCATION

- (1995-1998) Ph.D., Chemistry at Utah State University, "Thermodynamics of Biological Electron Transfer and Related Reactions. Applications of Isothermal Titration Calorimetry and Stopped Flow Spectrophotometry" GPA 4.0.
- (1993-1994) Master of Science, Chemistry at the University of Oslo, "Mechanistic Studies of the Oxidation of [TpRu(CO)₂]₂ in Different Solvents".
- (1989-1992) Bachelor of Science, Chemistry Major at the University of Oslo.
- (1985-1988) High School Graduate, Science Major at Porsgrunn High School.

EDUCATIONAL TRAINING

- (2001) "University and College Education", Agricultural University of Norway.
- (1996) "Teaching Assistant Workshop", Utah State University.
- (1994) "Group Psychology", Psychology for Natural Sciences, University of Oslo.

TEACHING

- (2001-) Physical Chemistry (Chem. 230). Responsible for Lectures, Laboratory Exercises, and Recitations at UMB.
- (2003-) Pre-Course in Chemistry for Beginner Students at UMB. Responsible for Lectures, Laboratory Exercises, and Recitations.
- (2003-) Introductory Course in Biotechnology and Basic Science (BIO101) at UMB
- (2004-) General Chemistry (Chem. 100). Responsible for Lectures.
- (2001-2002) Organic Chemistry (Chem. 112/113). Responsible for Laboratory Exercises.
- Developed a Course in Physical Chemistry including a Lecture and Laboratory Series for Undergraduates.
- Developed a Pre-Course in Chemistry for Beginner Students at AUN.
- Developed an Introductory Course in Biotechnology and Basic Science at AUN.
- Developed a Course in General Chemistry

WORK EXPERIENCE

- (2007-) Professor, Department of Chemistry, Biotechnology, and Food Science, the Norwegian University of Life Sciences, Ås, Norway. Research Area: Physical Chemistry, Physical Biochemistry.
- (2000-2007) Associate Professor, Department of Chemistry, Biotechnology, and Food Science, The Norwegian University of Life Sciences, Ås, Norway. Research Area: Physical Chemistry, Physical Biochemistry.
- (2000) Post Doctoral Researcher for Dr. K. Kristoffer Andersson, Department of Biochemistry, University of Oslo, Oslo, Norway. Research Area: Physical Biochemistry.

- (1998-2000) Post Doctoral Researcher for Dr. Brian Hales, Department of Chemistry, Louisiana State University, Baton Rouge, Louisiana, USA. Research Area: Physical Biochemistry.
- (1995-1998) Research Assistant for Dr. Vernon D. Parker in Cooperation with Dr. Lance C. Seefeldt and Dr. John L. Hubbard in the Department of Chemistry and Biochemistry, Utah State University, Logan, Utah, USA. Research Area: Organometallic Chemistry, Physical Biochemistry.
- (1997-1998) Teaching Assistant, Department of Chemistry and Biochemistry, Utah State University, Logan, UT. Responsibilities: Supervised an Undergraduate Laboratory for Advanced Inorganic Synthesis and Administered and Taught Recitation Classes in General Chemistry.
- (1992-1994) Research Assistant in the lab of Dr. Mats Tilset, Department of Chemistry, University of Oslo, Oslo, Norway. Research Area: Organometallic Chemistry, Physical Chemistry.
- (1993-1994) Teaching Assistant, Department of Chemistry, University of Oslo, Oslo, Norway. Responsibilities: Supervised Undergraduate Laboratories in General and Organic Chemistry Classes. Administered and Taught Recitation Classes in General Chemistry.
- (1994) Teaching Assistant, Department of Dentistry, University of Oslo, Oslo, Norway. Administered and Taught Recitation Classes and Supervised Undergraduate Laboratories.
- (1994) Physical Education and Science Teacher, Tåsen Middle School, Oslo, Norway. Administered Taught and Evaluated Students in Physical Education and Science Classes.
- (1994) Fundraiser, the Norwegian Blind Association, Oslo, Norway.
- (1988-1989) Military Service, Military Police Investigation Corporal, Norwegian Armed Forces.

ORGANIZATION AND ADMINISTRATION

- (2009-) Prorector of Education, UMB.
- (2009-) Chair of the Committee of Education, UMB.
- (2008-) Member of the Management Committee of the COST Action CM0701, Cascade Chemoenzymatic Processes – New Synergies Between Chemistry and Biochemistry
- (2008-2009) Vice Chair of the Committee of Research at UMB.
- (2008-2009) Chair of the Study Program Committee for Chemistry Studies at IKBM, UMB.
- (2007-2009) Member of the Committee of Research at UMB.
- (2007-2009) Head of Research and Chair of the Committee of Research at IKBM, UMB.
- (2007-2008) Project Leader for the Evaluation of the Study Programs at IKBM (BSc Chemistry, BSc Biotechnology, BSc Food Science, MSc Chemistry, MSc Biotechnology, MSc Food Science, MSc Microbiology, and MSc Bioinformatics and Applied Statistics), UMB.
- (2006-2007) Chair of the Study Program Committee for Biotechnology Studies, IKBM, UMB.
- (2007) Member of the Study Program Committee for Biology Studies, Department of Plant and Environmentally Sciences, UMB.
- (2006-2007) Head of Education and Chair of the Committee for Education at IKBM, UMB.
- (2006-2007) Member of the Committee of Education at UMB.
- (2004-2007) Member of the Committee of Education at IKBM, UMB.
- (2004-2007) Member of the Study Program Committee for Education and Natural Science Studies, Department of Mathematical Sciences and Technology, UMB.
- (2006) Member of the Committee for “PhD Study Regulation at UMB), UMB.
- (2006) Chair of the Working Committee for “Bachelor and Master Programs in Biology at UMB”, UMB.
- (2005-2006) Deputy Representative Committee of Education at UMB.
- (2005-2006) Vice Chair Committee of Education at IKBM, UMB.
- (2005) Member of the Nomination Committee for Selecting Members to the Board of IKBM, UMB.
- (2005) Administrator of the Ph.D. Defense Committee for Gustav Vaaje-Kolstad, UMB.
- (2005) Administrator of the Ph.D. Defense Committee for Sigrid Gåseidnes, UMB.
- (2004) Member of the Committee for the Science Qualifying Program, UMB.
- (2004) Administrator of the Ph.D. Defense Committee for Even Manseth, Agricultural University of Norway (AUN).

- (2001-2003) Member of the Committee of Education for the Department of Chemistry and Biotechnology, AUN.
- (2001-2003) Member of the Committee of Education for the Food Science Program, AUN.
- (2003) Administrator of the Ph.D. Defense Committee for Eva Veiseth, AUN.
- (2003) Member of the Interim Committee of Education at IKBM, AUN.
- (2003) Member of the Nomination Committee for Selecting Members to the Board of IKBM, AUN.
- (2003) Member of the Planning Committee of “Introductory Course in Biotechnology and Natural Sciences”, AUN.
- (2002-2003) Member of the Committee for “Basic Courses for the Natural Sciences”, AUN.
- (2002) Chair of the Working Committee for “Microbiology in the Food Science Program”, AUN.
- (2001-2003) Cofounder and Member of the Network of Young Researchers at Ås (NUFÅ)
- (2002) Chair of the Planning Committee ”Revision of the Chemistry Courses at Agricultural University of Norway “
- (2002) Chair of the Planning Committee “Pre-Course in Chemistry”, AUN.
- (1997) Student Spoke person Department of Chemistry and Biochemistry, Utah State University
- (1993-1994) Student Spoke person Department of Chemistry, University of Oslo
- (1989) Squad Leader, Military Police Station, Akershus Festning
- (1988) Athletic Coordinator, Military Police Company

REFEREE WORK

- Have been referee for following journals: Journal of Biological Chemistry, Carbohydrate Research, Biotechnology Progress, Protein Science, Biochimica.

ATTRACTED FUNDING AND AWARDS

- (2009) Education Award, the Norwegian University of Life Sciences “Educational Initiatives to Activate Students in General Chemistry and Statistics” (2 100 kNkr)
- (2009) Funding for Pilot Studies, Norwegian Research Council, Norwegian University of Life Sciences, National Veterinary Institute, Norwegian School of Veterinary Science “Mycotoxin Platform” (100 kNkr).
- (2008) Ph.D. Research Assistance Scholarship, “Chitooligosaccharides in Inflammation Amelioration”, Ministry of Education and Research (1 800 kNkr)
- (2007) Two Ph.D. Research Assistance Scholarships, “Environmentally Friendly Fungicides, Combinatorial Synthesis and Screening of Chitooligosaccharides”, Norwegian Research Council, 4 200 kNkr).
- (2007) Ph.D. Research Assistance Scholarship, “Fatty Acid Metabolites’ Effect on Cell Proliferation and Apoptosis as Studied by the Use of Quantitative Proteomics Methods”, Department of Chemistry, Biotechnology, and Food Science, UMB (1 627 kNkr)
- (2007) Research Expenses, “Enzymatic Processing of Chemical Components”, Norwegian Research Council, 120 kNkr).
- (2006) Two Excellence in Teaching Awards, Department of Chemistry, Biotechnology, and Food Science (2 x 5 kNkr)
- (2006) Ph.D. Research Assistance Scholarship, “Utilization of Enzyme Technology to Produce Bioactive Oligosaccharides” Ministry of Education and Research (1 627 kNkr) (co-applicant, principal applicant: Professor Vincent Eijsink)
- (2006) Ph.D. Research Assistance Scholarship, “Anti Microbial Effect of Chitosan/Chitooligosaccharides”, Ministry of Education and Research (1 627 kNkr) (co-applicant, principal applicant: Professor Arne Tronsmo).
- (2005) Differential Scanning Calorimeter, Equipment to Investigate Biological Interactions, Norwegian Research Council (1 250 kNkr)
- (2005) UMB Research Fund (9 kNkr)

- (2004) Micro Wave Oven for Organic Synthesis, Micro Weight, and Micro Reactor Systems, Equipment to Synthesize Bioactive Compounds, Agricultural University of Norway, (750 kNkr) (co-applicant, principal applicant: Associate Professor Solveig Flock)
- (2004) Biacore 3000, Equipment to Investigate Biological Interactions (Norwegian Research Council, 160515/V30) (2 250 kNkr) (co-applicant, principal applicant: Professor Sigve Håvarstein)
- (2004) Lecturer of the Year Award, Agricultural University of Norway (25 kNkr)
- (2004) Excellence in Teaching Award, Department of Chemistry, Biotechnology, and Food Science (5 kNkr)
- (2003) Isothermal Titration Calorimeter, Equipment to Investigate Biological Interactions (Norwegian Research Council, 155518/420 (1 270 kNkr)
- (2003-2007) Ph.D. Research Assistance Scholarship, "Structure-Function Investigation of Chitinase Enzymes with Emphasis on their Binding Reactions with Substrates and Inhibitors", Ministry of Education and Research (1 627 kNkr)

SUPERVISORY EXPERIENCE

Present:

PhD Students

- (2006-) Henrik Zakariassen, UMB (co-advisor).
- (2007-) Øyvind Busk, UMB.
- (2007-) Anne Line Norberg, UMB.
- (2007-) Hafizur Rahman, UMB (co-advisor).
- (2007-) Anette Dybvik, NTNU (co-advisor).
- (2008-) Linn Wilhelmsen, UMB.
- (2009-) Kristine Bistrup Eide, UMB

Master Students

- (2007-) Per O. Isdahl, UMB.
- (2008-) Anna Sønnerland, UMB.
- (2008-) Christine Rønneberg, UMB.
- (2008-) Margrethe Udjus, UMB.
- (2008-) Anne Grethe Hamre, UMB.
- (2008-) Lisbeth Skånøy, UMB.
- (2009-) Silje Thoresen Lundmark, UMB.

Past:

PhD Students

- (2003-2007) Henning Cederkvist, "Chitinase-Chitooligosaccharide Interactions as Seen through the Eyes of Mass Spectrometry and Calorimetry"

Master Students

- (2007-2009) Laila Klemetsen, "Competitive Inhibition of Processive Family 18 Chitinases" UMB.
- (2007-2009) Kristine B. Eide, "Substrate-binding preferences and processivity in the human chitotriosidase" UMB.
- (2007-2009) A. Rita Lindbom, "Substrate-binding preferences and processivity in the human chitotriosidase" UMB.
- (2008-2009) Marianne Løken, "What Governs Oligosaccharide Dissociation from Family 18 Chitinases?" UMB.
- (2006-2008) Lene Halvorsen, UMB, "Proteomic Studies of Peroxisome Proliferator-Activated Receptor- γ : Induced Apoptosis in the Caco-2 Cell Line Studied by Stable Isotope Labelling with Amino Acids in Cell Culture (SILAC)"

- (2006-2008) Mona C. Hansen, UMB, "Active Site Characterization of Chitinases from *Serratia Marcescens* with Respect to Substrate Hydrolysis and Inhibition"
- (2005-2007) Marthe Petrine Parmer, UMB, "Inhibition of a Family 18 Chitinase by Chitooligosaccharides"
- (2005-2007) Maje Jøranli, UMB, "Transglycosylation Activity for Family 18 Chitinases"
- (2004-2006) Henrik Zakariassen, UMB, "Heat Capacity Changes in Heme Protein – Ligand Interactions"
- (2003-2006) Inger-Mari Krokeide, UMB "Development of Natural Substrate Assays for Chitinases; Determination of k_{cat} and K_m "
- (2003-2005) Vigdis Karlsen, UMB, "Thermodynamic Studies of the Binding of Chitin and Chitin Fragments to Metals and Enzymes, Utilization of ITC in Environmental Science and Biotechnology".
- (2003-2005) Ingrid Bakke, UMB, "Construction and Application of Hexa Histidine Tagged Chitinases from *Serratia marcescens*".
- (2003-2005) Silje Fatnes Saua, UMB, "Purification, Binding, and Processivity of Chitinase B of *Serratia marcescens*"
- (2003-2004) Anne Line Nordberg, AUN "Characterization of Substrate and Product Specificity of Wild Type and Mutant Chitinases from *Serratia marcescens*."

ORAL PRESENTATIONS

1. (Feb 1996) Utah State University, Departmental Seminar, "Oxidative Metal-Metal Bond Cleavage in $Tp_2Ru_2(CO)_4$ (Tp Hydridotris(pyrazolyl)borate)" Logan, UT, USA.
2. (May 1997) Utah State University, Departmental Seminar, "Thermodynamics of Biological Electron Transfer Reactions" Logan, UT, USA.
3. (Jun 1998) Nitrogen Fixation, Gordon Research Conference, "EPR Signals Observed with the H195Q Mutant MoFe Protein of Nitrogenase During Enzymatic Turnover in the Presence of Acetylene or Carbon Monoxide" New England, NH, USA.
4. (Jun 2000) University of Oslo, "Acetylene Binding to the Nitrogenase MoFe Protein during Enzymatic Turnover" Oslo, Norway.
5. (Jun 2000) University of Bergen, "Thermodynamics of Biological Electron Transfer and Related Reactions. Applications of Isothermal Titration Calorimetry and Stopped-Flow Spectrophotometry" Bergen, Norway.
6. (Sep 2001) 12th International Conference on Cytochrome P450, "EPR Studies of Tetrahydrobiopterin-Derivatives in Generation of Intermediates in Nitric Oxide Synthase Catalysis" La Grande Motte, France.
7. (Dec 2001) SINTEF Norway, "Substrate and Inhibitor Binding to the Nitrogenase Protein" Oslo, Norway.
8. (Mar 2002) Agricultural University of Norway, "The Use of Principals in Physical Chemistry to Solve Biological and Chemical Problems" Ås, Norway.
9. (Jul 2002) EUROBIC-6, "Detection of Fe(II)NO Complex as Intermediate In Nitrogen Oxide Synthase Reaction Cycle", Lund, Sweden/ Copenhagen, Denmark.
10. (Nov 2002) Human Frontiers of Science Project, "EPR Studies of Intermediates in Nitric Oxide Synthase Catalysis", Paris, France.
11. (Nov 2002) Agricultural University of Norway, "Solving Biological Problems Using Isothermal Titration Calorimetry", Ås, Norway.
12. (May 2003) Research Seminar, Department of Chemistry and Biotechnology, AUN, "Detection of Intermediates in Nitric-Oxide Synthase Reaction Cycle, Ås, Norway.
13. (January 2006) The Norwegian Biochemical Society 42nd Contact Meeting. "Thermodynamics of Allosamidin Binding to Chitinase B of *Serratia Marcescens*" Storefjell, Norway.

14. (September 2007) The 8th International Conference of the European Chitin Society. "Chitinase – Chitooligosaccharide Interactions as Seen Through the Eyes of Mass Spectrometry" Antalya, Turkey.
15. (January 2008) Organic Chemical Winter Meeting. "Chitooligosaccharides; Inhibitors of Chitinases" Geilo, Norway.
16. (August 2008) XXIV International Carbohydrate Symposium. "Chitooligosaccharides as Inhibitors of Family 18 Chitinases" Oslo, Norway.
17. (November 2008) Department of Biochemistry Lecture Series, University of Groningen. "Chitooligosaccharides as Inhibitors of Family 18 Chitinases", Groningen, the Netherlands.
18. (January 2009) NBS Contact Meeting. "Analysis of substrate binding to a family 18 chitinase by isothermal titration calorimetry and surface plasmon resonance to map subsite affinities and the kinetics that underly processivity" Røros, Norway.
19. (May 2009) 9th International Conference of the European Chitin Society. "Kinetic and Thermodynamic Analysis of Substrate Binding to Family 18 chitinases", San Servolo, Italy.

POSTER PRESENTATIONS

1. (Jan 1994) Norwegian Chemical Society Annual Organic Chemistry Meeting, Sørli, M.; Tilset, M. "Mechanistic Studies of the Oxidation of [TpRu(CO)₂]₂ in Different Solvents" Geilo, Norway.
2. (Jun 1997) 25th Steenbock Symposium, University of Wisconsin-Madison, Sørli, M.; Seefeldt, L.C.; Parker, V.D. "Thermochemistry of Biological Electron Transfer Reactions. Application of Isothermal Titration Calorimetry" Madison, WI, USA.
3. (Aug 1998) Inorganic Biochemistry Summer Workshop 98, Sørli, M.; Christiansen, J.; Dean, D.R.; Hales, B.J. "EPR Signals Observed with the H195Q Mutant MoFe Protein of Nitrogenase During Enzymatic Turnover in the Presence of Acetylene or Carbon Monoxide" Athens, GA, USA.
4. (Aug 1998) Inorganic Biochemistry Summer Workshop 98, D'Souza, V.M.; Bennet, B.; Sørli, M.; Parker, V.D.; Holtz, R.C. "Studies on the Di-Cobalt Active Site of the Methionine Aminopeptidase from *Escherichia coli*" Athens, GA, USA
5. (Nov 1998) American Chemical Society Regional Meeting, Sørli, M.; Christiansen, J.; Dean, D.R.; Hales, B.J. "Acetylene Induced EPR Signals During Enzymatic Turnover for the Mutant α -H195Q of Nitrogenase" Baton Rouge, LA, USA.
6. (Jul 1999) International Conference on Bioinorganic Chemistry 99, Sørli, M.; Christiansen, J.; Dean, D.R.; Hales, B.J. "Detection of a New Radical and FeMo-Cofactor EPR Signal During Acetylene Reduction by the α -H195Q Mutant of Nitrogenase" Minneapolis, MN, USA.
7. (Jul 1999) International Conference on Bioinorganic Chemistry 99, Maskos, Z.; Sørli, M.; Fisher, K.; Newton, W.E.; Hales, B.J. "EPR Studies of the MoFe Proteins of Nitrogenase During Enzymatic Turnover in the Presence of Carbon Monoxide" Minneapolis, MN, USA.
8. (Jul 1999) International Conference on Bioinorganic Chemistry 99, Broach, R.B.; Sørli, M.; Hales, B.J. "Study of N₂ Inhibition of Proton Reduction by Nitrogenase with Respect to Electron Flux" Minneapolis, MN, USA.
9. (Jul 1999) International Conference on Bioinorganic Chemistry 99, Lee, H-I.; Cameron, L.M.; Sørli, M.; Pollock, R.C.; Christie, P.D.; Christiansen, J.; Ryle, M.J.; Peters, J.W.; DeRose, V.D.; Seefeldt, L.C.; Newton, W.E.; Dean, D.R.; Orme-Johnsen, W.H.; Hales, B.J.; Hoffmann, B.M. "Study of Substrate/Inhibitor Interactions in Nitrogenase MoFe Protein by Advanced Paramagnetic Resonance" Minneapolis, MN, USA.
10. (Jan 2000) Metals in Biology, Gordon Research Conference, Sørli, M.; Lee, H-I.; Christiansen, Song, R.; J.; Dean, D.R.; Hoffman, B.M.; Hales, B.J. "Acetylene Binding to the Nitrogenase MoFe Protein during Enzymatic Turnover" Ventura, CA, USA.
11. (Mar 2002) Research Seminar, Department of Chemistry and Biotechnology, AUN, Sørli, M.; Terland, O.; Andersson, K.K.; Flatmark, T. "The Catecholamine Semiquinone Free Radical Is Responsible for Catecholamine Toxicity As Determined by Inhibition of the Chromaffin Granule H⁺-atpase" Ås, Norway.

12. (Feb 2003) Nitric Oxide, Gordon Research Conference, Sørлие, M.; Gorren, A.; Lange, R.; Mayer, B.; Andersson, K.K. "Detection of Fe(II)NO Complex as Intermediate In Nitric-Oxide Synthase Reaction Cycle" Ventura, CA, USA.
13. (Jan 2004) 16th Norwegian Symposium in Chromatography, Norberg, A.L.; Bærheim, J.; Sørлие, M.; Synstad, B.; Horn, S.J.; Eijsink, V.G.H "Characterization of *Serratia Marcescens* ChiB Subsite Mutants" Sandefjord, Norway.
14. (Jan 2004) Norwegian Biochemical Society Contact Conference, Norberg, A.L.; Bærheim, J.; Sørлие, M.; Synstad, B.; Horn, S.J.; Eijsink, V.G.H "Characterization of *Serratia Marcescens* ChiB Subsite Mutants" Hafjell, Norway.
15. (May 2004) Human Frontiers of Science Program, Andersson, K.K., Sørлие, M., Hersleth, H.P., Cederkvist, F.H., Agasøster, A.V., Marchal, S., Gorren, A.C.F., Mayer, B., Uchida, T., Görbitz, C.H., Kitagawa, T., Shimizu, T. Lange, R. "Characterization of radical and iron intermediates in the reaction cycle of the heme- and biopterin-dependent nitric-oxide synthase and of a model", Hakone Japan.
16. (June 2004) Summer Course Glycoscience, Norberg, A.L.; Bærheim, J.; Sørлие, M.; Synstad, B.; Horn, S.J.; Eijsink, V.G.H "Characterization of *Serratia Marcescens* ChiB Subsite Mutants", Wageningen, Netherlands.
17. (June 2004) Summer Course Glycoscience, F. Henning Cederkvist, Inger-Mari Krokeide, Vigdis Karlsen, Silje F. Saua, Svein J. Horn, Bjørnar Synstad, Vincent G.H. Eijsink, Morten Sørлие. "Thermodynamic and Kinetic Studies of Substrate and Inhibitor Binding to Chitinase B of *Serratia Marcescens*", Wageningen, Netherlands.
18. (April 2005) 6th Carbohydrate Bioengineering Meeting, Morten Sørлие, Anne-Line Norberg, Bjørnar Synstad, Vincent G.H. Eijsink, Svein J. Horn. "Comparisons Of The Chitinases of *Serratia Marcescens*: Subsites and Inhibitor Binding", Barcelona, Spain.
19. (April 2005) 6th Carbohydrate Bioengineering Meeting, F. Henning Cederkvist, Silje F. Saua, Vigdis Karlsen, Inger-Mari Krokeide, Ingrid Bakke, Gustav Vaaje-Kolstad, Vincent G.H. Eijsink, Morten Sørлие. "Thermodynamic Study of Chitoooligosaccharide Binding to Chitinase B of *Serratia Marcescens*", Barcelona, Spain.
20. (January 2006) Sørлие, M.; Norberg, A.L. Synstad, B.; Eijsink, V.G.H.; Horn, S.J. "Comparison of the Chitinases of *Serratia Marcescens*: Subsites and Inhibitor Binding" The Norwegian Biochemical Society 42nd Contact Meeting, Storefjell, Norway.
21. (January 2006) Cederkvist, F.H.; Zamfir, A.; Eijsink, V.G.H.; Sørлие, M.; Katalanic-Peter, J.; Peter, M: "Identification of a High-Affinity Binding Oligosaccharide by (+) Nanoelectrospray Quadrupole Time-of-Flight Tandem Mass Spectrometry of a Non-Covalent Enzyme-Ligand Complex" The Norwegian Biochemical Society 42nd Contact Meeting, Storefjell, Norway.
22. (January 2006) Horn, S.J.; Sørbotten, A.; Synstad, B.; Sørлие, M.; Sikorski, P.; Vårum, K.M.; Eijsink, V.G.H. "Degradation of Chitosan and Chitin with Three Family 18 Chitinases from *Serratia Marcescens*" The Norwegian Biochemical Society 42nd Contact Meeting, Storefjell, Norway.
23. (January 2006) Zakariassen, H.; Sørлие, M. "Heat Capacity Changes in Heme Protein-Ligand Interactions" The Norwegian Biochemical Society 42nd Contact Meeting, Storefjell, Norway.
24. (January 2006) Saua, S.F.; Cederkvist, F.H.; Sakuda, S.; Eijsink, V.G.H. Sørлие, M. "Thermodynamics of Allosamidin Binding to Chitinase B of *Serratia Marcescens*" The Norwegian Biochemical Society 42nd Contact Meeting, Storefjell, Norway.
25. (January 2006) Krokeide, I-M.; Synstad, B.; Cederkvist, F.C.; Horn, S.J.; Eijsink, V.G. H.; Sørлие, M. "Natural Substrate Assay for Chitinases Using High Performance Liquid Chromatography: Determination of k_{cat} and K_m " The Norwegian Biochemical Society 42nd Contact Meeting, Storefjell, Norway.
26. (April 2007) Cederkvist, F.H.; Zamfir, A.; Eijsink, V.G.H.; Sørлие, M.; Katalanic-Peter, J.; Peter, M: "Identification of a High-Affinity Binding Oligosaccharide by (+) Nanoelectrospray Quadrupole Time-of-Flight Tandem Mass Spectrometry of a Non-Covalent Enzyme-Ligand Complex" Carbohydrate Bioengineering Meeting 7, Braunschweig, Germany.

27. (April 2007) Cederkvist, F.H.; Mormann, M.; Fröesch, M.; Peter, M.; Eijsink, V.G.H.; Sørлие, M.; Peter-Katalinić, J. "High Resolution Mass Spectrometry for the Simultaneous Probing of Multiple Concurrent Non-Covalent Enzyme-Ligand Interactions" Carbohydrate Bioengineering Meeting 7, Braunschweig, Germany.
28. (April 2007) Cederkvist, F.H.; Parmer, M.; Vårum, K.M.; Eijsink, V.G.H.; Sørлие, M. "Inhibition of a Glycoside Hydrolase Family 18 by Chitooligosaccharides: A Structure -and Function Analysis by MALDI TOF/TOF MS" Carbohydrate Bioengineering Meeting 7, Braunschweig, Germany.
29. (September 2007) Cederkvist, F.H.; Mormann, M.; Fröesch, M.; Peter, M.; Eijsink, V.G.H.; Sørлие, M.; Peter-Katalinić, J. "High Resolution Mass Spectrometry for the Simultaneous Probing of Multiple Concurrent Non-Covalent Enzyme-Ligand Interactions" The 8th International Conference of the European Chitin Society, Antalya, Turkey.
30. (September 2007) Cederkvist, F.H.; Parmer, M.; Vårum, K.M.; Eijsink, V.G.H.; Sørлие, M. "Inhibition of a Glycoside Hydrolase Family 18 by Chitooligosaccharides: A Structure -and Function Analysis by MALDI TOF/TOF MS" The 8th International Conference of the European Chitin Society, Antalya, Turkey.
31. (September 2007) Horn, S.J.; Sørбotten, A.; Sikorski, P.; Synstad, B.; Sørлие, M.; Vaaje-Kolstad, G.; Vårum, K.M.; Eijsink, V.G.H. "On the Processivity in Enzymatic Degradation of Chitin", The 8th International Conference of the European Chitin Society, Antalya, Turkey.
32. (August 2008) Cederkvist, F.H.; Parmer, M.; Vårum, K.M.; Eijsink, V.G.H.; Sørлие, M. "Inhibition of a Glycoside Hydrolase Family 18 by Chitooligosaccharides: A Structure -and Function Analysis by MALDI TOF/TOF MS", XXIV International Carbohydrate Symposium, Oslo, Norway.
33. (August 2008) Cederkvist, F.H.; Mormann, M.; Fröesch, M.; Peter, M.; Eijsink, V.G.H.; Sørлие, M.; Peter-Katalinić, J. "High Resolution Mass Spectrometry for the Simultaneous Probing of Multiple Concurrent Non-Covalent Enzyme-Ligand Interactions", XXIV International Carbohydrate Symposium, Oslo, Norway.
34. (August 2008) Hansen, M.C.; Krokeide, I-M.; Zakariassen, H.; Synstad, B.; Eijsink, V.G.H.; Sørлие M. "Active Site Analysis of Chitinase B from *Serratia marcescens*", XXIV International Carbohydrate Symposium, Oslo, Norway.
35. (August 2008) Horn, S.J.; Sørбotten, A.; Sikorski, P.; Synstad, B.; Sørлие, M.; Vaaje-Kolstad, G.; Vårum, K.M.; Eijsink, V.G.H. "On the Processivity in Enzymatic Degradation of Chitin", XXIV International Carbohydrate Symposium, Oslo, Norway.

PUBLICATIONS WITH REFEREE

1. Sørлие, M.; Tilset, M. "Oxidative Metal-Metal Bond Cleavage in $\text{Tp}_2\text{Ru}_2(\text{CO})_4$ (Tp Hydridotris(pyrazolyl)borate)" *Inorg. Chem.* **1995**, *34*, 5199.
2. Elcesser, W.L.; Sørлие, M.; Hubbard, J.L. "Structure and Reactivity of $(\eta^5\text{-C}_5\text{R}_5)\text{Mo}(\text{NO})_2$ Halide,-Halomethyl, and -Alkyl Complexes: Consecutive Aerobic Methylene and Nitrosyl Oxidation." *Organometallics*, **1996**, *15*, 2534.
3. Schock, T.K.; Hubbard, J.L.; Zoch, C.R.; Yi, G-B.; Sørлие, M. "Synthesis and Structures of the Ru(II) Complexes $[(\eta^5\text{-C}_5\text{Me}_5)\text{Ru}(\text{NO})(\text{bipy})]^{2+}$ and $(\eta^5\text{-C}_5\text{Me}_5)\text{Ru}(\text{NO})(\text{dppz})^{2+}$. DNA Cleavage by an Organometallic dppz Complex. (bipy + 2,2'-bipyridine; dppz = dipyrido[3,2-a:2',3'-c]phenazine)" *Inorg. Chem.* **1996**, *35*, 4383.
4. Reilly, C.A.; Sørлие, M.; Aust, S.D. "Evidence for a Protein-Protein Complex during Ion Loading into Ferritin by Ceruloplasmin" *Arch. Biochem. Biophys.* **1998**, *354*, 165.
5. Sørлие, M.; Christiansen, J.; Dean, D.R.; Hales, B.J. "Detection of a New Radical and FeMo-Cofactor EPR Signal During Acetylene Reduction by the $\alpha\text{-H195Q}$ Mutant of Nitrogenase" *J. Am. Chem. Soc.* **1999**, *121*, 9457-9458.
6. Lee, H-I.; Sørлие, M.; Christiansen, Song, R.; J.; Dean, D.R.; Hales, B.J.; Hoffman, B.M. "Characterization of an Intermediate in the Reduction of Acetylene by the Nitrogenase $\alpha\text{-Gln}^{195}$ MoFe Protein by Q-Band EPR and ^{13}C , ^1H ENDOR" *J. Am. Chem. Soc.* **2000**, *122*, 5582-5587.

7. Sørli, M.; Seefeldt, L.C.; Parker, V.D. "Use of Stopped-Flow Spectrophotometry to Establish Midpoint Potentials for Redox Proteins" *Anal. Biochem.* **2000**, *287*, 118-125.
8. Sørli, M.; Lemon, B.; Christiansen, J.; Dean, D.R.; Peters, J.W.; Hales, B.J. "Mechanistic Features of and Structure of the Nitrogenase α -Gln¹⁹⁵ MoFe Protein" *Biochemistry*, **2001**, *40*, 1540-1549.
9. Sørli, M.; Chan, J.M.; Seefeldt, L.C.; Wang, H.; Parker, V.D. "Elucidating Thermodynamic Parameters for Electron Transfer Proteins Using Isothermal Titration Calorimetry: Application to the Nitrogenase Fe Protein." *J. Biol. Inorg. Chem.* **2003**, *8*, 560–566.
10. Hong-In Lee, Linda M. Cameron, J. Christiansen, Patricia D., Christie, Robert C. Pollock, Rutian Song, Morten Sørli, W. H., Orme-Johnson, Dennis R. Dean, Brian J. Hales, Brian M. Hoffman "Paramagnetic Resonance of Metallobiomolecules" *ACS Symposium Series*, **2003**, *858*, 150-178.
11. Sørli, M.; Gorren, A.F.C.; Marchal, S.; Shimizu, T.; Lange, R.; Andersson, K.K.; Mayer, B. "Single-Turnover Studies of Nitric-Oxide Synthase in the Presence of 4-Amino-Tetrahydrobiopterin. Evidence for a Role of Tetrahydrobiopterin as a Proton Donor" *J. Biol. Chem.* **2003**, *278* (49), 48602-48610.
12. Marchal, S.; Gorren, A.C.F.; Sørli, M.; Andersson, K.K.; Mayer, B.; Lange, R. "Evidence of Two Distinct Oxygen Complexes of Reduced Endothelial Nitric Oxide Synthase" *J. Biol. Chem.* **2004**, *279*, 19824–19831.
13. Marchal, S.; Lange, R.; Sørli, M.; Andersson, K.K.; Gorren, A.C.F.; Mayer, B. "CO Exchange Studies on the Oxyferrous Complexes of the Oxygenase Domain of Endothelial Nitric-Oxide Synthase in the Presence of 4-Amino-Tetrahydrobiopterin." *J. Inorg. Biochem.*, **2004**, *98*, 1217-1222.
14. Gorren, A.C.F.; Sørli, M.; Andersson, K.K.; Marchal, S.; Lange, R.; Mayer, B. "Tetrahydrobiopterin as combined electron and proton donor in nitric oxide biosynthesis: Cryogenic UV/Vis and EPR detection of reaction intermediates." *Method. Enzymol.* **2005**, *396*, 456-466.
15. Maskos, Z.; Fisher, K.; Sørli, M.; Newton, W.; Hales, B.J. "Variant MoFe Proteins of *Azotobacter vinelandii*: Effects of Carbon Monoxide on Electron Paramagnetic Resonance Spectra Generated During Enzyme Turnover." *J. Biol. Inorg. Chem.* **2005**, *10*, 394-406.
16. Lee, H-I.; Sørli, M.; Christiansen, J.; Yang, T-C.; Shao, J.; Dean, D.R.; Hales, B.J.; Hoffman, B.M. "Electron Inventory, Kinetic Assignment (E_n), Structure, and Bonding of Nitrogenase Turnover Intermediates with C₂H₂ and CO" *J. Am. Chem. Soc.* **2005**, *127*, 15880-15890.
17. Horn, S. J.; Sørbotten, A.; Synstad, B.; Sikorski, P.; Sørli, M.; Vårum K. M.; Eijsink, V.G.H. "Endo/exo mechanism and processivity of family 18 chitinases produced by *Serratia marcescens*" *FEBS Journal*, **2006**, *273*, 491–503.
18. Cederkvist, F.H.; Zamfir, A.; Eijsink, V.G.H.; Sørli, M.; Katalanic-Peter, J.; Peter, M: "Identification of a High-Affinity Binding Oligosaccharide by (+) Nanoelectrospray Quadrupole Time-of-Flight Tandem Mass Spectrometry of a Non-Covalent Enzyme-Ligand Complex" *Ang. Chemie. Int. Ed. Engl.*, **2006**, *45*(15), 2429-2434.
19. Gorren, A.C.F.; Marchal, S.; Sørli, M.; Andersson, K. K.; Lange, R.; Meyer, B. "High-pressure studies of the reaction mechanism of nitric-oxide synthase" *Biochim. Biophys. Acta*, **2006**, *1764*(3), 578-585.
20. Horn, S.J.; Sørli, M.; Vaaje-Kolstad, G.; Norberg, A.L.; Synstad, B.; Vårum, K.M.; Eijsink, V.G.H."Comparative studies of chitinases A, B and C from *Serratia marcescens*." *Biotransfor.* **2006**, *24*(1/2), 39-53.
21. Terland, O.; Almås, B.; Flatmark, T.; Andersson, K.K.; Sørli, M." One-electron oxidation of catecholamines generates free radicals with an in vitro toxicity correlating with their lifetime" *Free Radical Bio. Med.* **2006**, *41*, 1266-1271.
22. Horn, S.J.; Sikorski, P.; Cederkvist, J.B.; Vaaje-Kolstad, G.; Sørli, M. Synstad, B.; Vriend, G.; Vårum, K.M.; Eijsink, V.G.H. "Enzymatic degradation of recalcitrant polysaccharides: costs and benefits of processivity" *Proc. Nat. Acad. Sci.* **2006**, *103*, 18089-18094.
23. Halvorsen, H.; Skramstad, J.; Sørli, M. "Oligothiophenes. IV. Formation and Characterization of Stable Radicals from Novel Bis- and Tris-Bithiophene Methanes" *Tetrahedron Letters* **2007**, *48*, 281-283.

24. Krokeide, I.-M.; Synstad, B.; Gåseidnes, S.; Horn, S.J.; Eijsink, V.G.H.; Sørli, M. "Natural Substrate Assay for Chitinases Using High Performance Liquid Chromatography: Determination of k_{cat} and K_m " *Anal. Biochem* **2007**, *363*, 128-134.
25. Krokeide, I.-M.; Eijsink, V.G.H.; Sørli, M. "Enzyme Assay for Chitinase Catalyzed Hydrolysis of Tetra-*N*-acetylchitotetraose by Isothermal Titration Calorimetry" *Thermochim. Acta* **2007**, *454*, 144-146.
26. Zakariassen, H.; Sørli, M. "Heat Capacity Changes in Heme Protein-Ligand Interactions" *Thermochim. Acta* **2007**, *464*, 24-28.
27. Cederkvist, F.H.; Saua, S.F.; Karlsen, V.; Sakuda, S.; Eijsink, V.G.H.; Sørli, M. "A thermodynamic analysis of allosamidin binding to a family 18 chitinase" *Biochemistry* **2007**, *47*, 12347-12354.
28. Herslet, H.-P.; Agasøster, A.V.; Harbitz, E.; Røhr, A.K.; Schmidt, P.P.; Sørli, M.; Cederkvist, F.H.; Marchald, S.; Gorren, A.C.F.; Mayer, B.; Uchida, T.; Schünemann, V.; Kitagawa, T.; Trautweini, A.X.; Shimizu, T.; Lange, R.; Görbitz, C.H.; Andersson, K.K. "Reactive Complexes in Myoglobin and Nitric Oxide Synthase" *Inorg. Chim. Acta.* **2008**, *361*, 831-843.
29. Synstad, B.; Horn, S.J.; Vaaje-Kolstad, G.; Saua, S. F.; Cederkvist, F.H.; Eijsink, V.G.H.; Sørli, M. "Expression and characterization of endochitinase C from *Serratia marcescens* and its purification by a one-step "general" chitinase purification method" *Biosci. Biotechnol. Biochem.* **2008**, *72*, 715-723.
30. Zakariassen, H.; Cederkvist, F.H.; Harbitz, E.; Shimizu, T.; Lange, R.; Mayer, B.; Gorren, A.C.F.; Andersson, K.K.; Sørli, M. "Thermodynamic Analysis of L-Arginine and N^ω-hydroxy- L-Arginine Binding to Nitric Oxide Synthase" *Biochim. Biophys. Acta.* **2008**, *1784*, 806-810.
31. Cederkvist, F.H.; Parmer, M.; Vårum, K.M.; Eijsink, V.G.H.; Sørli, M. "Inhibition of a Glycoside Hydrolase Family 18 by Chitooligosaccharides" *Carbohydr. Polym.* **2008**, *74*, 41-49.
32. Granum, S.; Andersen, T.C.B.; Sørli, M.; Jørgensen, M.; Koll, L.; Berge, T.; Lea, T.; Fleckenstein, B.; Spurkland, A.; Sundvold-Gjerstad, V. "Modulation of Lck function through multi-site docking to T cell specific adapter protein" *J. Biol. Chem.* **2008**, *283*, 21909–21919.
33. Zakariassen, H.; Aam, B.B.; Vårum, K.M.; Sørli, M.; Eijsink, V.G.H.; "The contribution of aromatic substrate-binding residues to processivity and biomass-converting efficiency of Chitinase A from *Serratia marcescens*" *J. Biol Chem.* **2009**, *284*, 10610-10617.
34. Karlsen, V.; Heggset, E.; Sørli, M "The Use of Isothermal Titration Calorimetry to Determine the Thermodynamics of Metal Ion Binding to Low-Cost Sorbents" *Thermochim. Acta.* **2010**, *501*, 119-121.
35. Zakariassen, H.; Eijsink, V.G.H.; Sørli, M. "Signatures of activation parameters reveal substrate-dependent rate determining steps in polysaccharide turnover by a family 18 chitinase" *Carbohydr. Polym.* **2010**, *81*, 14-20.
36. Aam, B. B.; Heggset, E. B.; Norberg, A.L.; Sørli, M.; Vårum, K.M.; Eijsink, V.G.H. "Production of Chitooligosaccharides and Their Potential Applications in Medicine" *Marine Drugs*, **2010**, *Accepted*.
37. Baban, J.; Sakuda, S.; Eijsink, V.G.H.; Sørli, M. "Comparison of Allosamidin Binding to the Three Chitinases of *Serratia Marcescens*, Differences in the Thermodynamic Signatures" *J. Phys. Chem. B*, **2010**, *Accepted*.
38. Zakariassen, H.; Klemetsen, L.; Sakuda, S.; Vårum, K.M.; Sørli, M.; Eijsink, V.G.H. "The interplay between processivity and competitive inhibition in two family 18 chitinases" *Submitted Carbohydr. Polym.*
39. Norberg, A.L.; Zakariassen, H.; Karlsen, V.; Hoel, I.A.; Bakke, I.; Vårum, K.M.; Eijsink, V.G.H.; Sørli, M. "Analysis of substrate binding to a family 18 chitinase by isothermal titration calorimetry and surface plasmon resonance to map subsite affinities and the kinetics that underly processivity" *Submitted J. Am. Chem. Soc.*
40. Cederkvist, F.H.; Mormann, M.; Fröesch, M.; Peter, M.; Eijsink, V.G.H.; Sørli, M.; Peter-Katalinić, J. "High Resolution Mass Spectrometry for the Simultaneous Probing of Multiple Concurrent Non-Covalent Enzyme-Ligand Interactions" *Submitted ACS Chem. Biol.*

41. Heggset, E. B.; Dybvik, A. I.; Hoell, I. A.; Norberg, A.L.; Eijsink, V. G. H.; Sørli, M.; Vårum, K.M. "Chitosan Degradation with Chitosanase Q9RJ88 (Chito88) from *Streptomyces coelicolor* A3(2)" *Submitted FEBS J.*
42. Dybvik, A.I.; Norberg, A.L.; Schute, V.; Soltwisch, J.; Mormann, M.; Dreisewerd, K.; Berkenkamp, S.; Peter- Katalinić, J.; Vårum, K.M. Eijsink, V.G.H.; Sørli, M. "Analysis of Non-Covalent Chitinase-Chitooligosaccharide Complexes by the Use of IR-MALDI and Nano-ESI Mass Spectrometry" *Submitted Anal. Chem.*
43. Norberg, A.L.; Eide, K.B.; Lindbom, A.R.; van Aalten, D.M.F.; Vårum, K.M.; Eijsink, V.G.H.; Sørli, M. "Substrate-binding preferences and processivity in the human chitotriosidase" *Submitted J. Biol. Chem.*
44. Zakariassen, H.; Hansen, M.C.; Jøranli, M.; Parmer, M.P.; Eijsink, V.G.H.; Sørli, M. "Transglycosylation Activities of Chitinases from *Serratia Marcescens*" *Manuscript in Preparation.*
45. Busk, Ø.L.; Halvorsen, L.K.; Lea, T.E.; Skaugen, M.; Sørli, M.; "Proteomic studies of peroxisome proliferator-activated receptor γ (PPAR- γ): ligand-induced apoptosis in the Caco-2 cell line studied by stable isotope labelling by amino acids in cell culture (SILAC)" *Manuscript in Preparation.*

OTHER PUBLICATIONS

1. Broach R, Sørli M, Hales B. "Study of N₂ Inhibition of Proton Reduction by Nitrogenase with Respect to Electron Flux" *J. Inorg. Biochem.* **1999**, *74*, 83.
2. Maskos Z, Sørli M, Fisher K, Newton WE, Hales BJ. *J. Inorg. Biochem* **1999**, *74*, 224.
3. Lee HI, Cameron LM, Sørli M, Pollock RC, Christie PD, Christiansen J, Ryle MJ, Peters JW, DeRose VJ, Seefeldt LC, Newton WE, Dean DR, Orme-Johnson WH, Hales BJ, Hoffman BM *J. Inorg. Biochem.* **1999**, *74*, 202.
4. Sørli, M.; Christiansen, J.; Dean, D.R.; Hales, B.J. "Detection of a New Radical and FeMo-Cofactor EPR Signal During Acetylene Reduction by the a-H195Q Mutant of Nitrogenase" *J. Inorg. Biochem.* **1999**, *74*.
5. Sørli, M. A.C.F. Gorren, P.P. Schmidt, R. Lange, B. Mayer and K.K. Andersson (2001) EPR Studies of Tetrahydrobiopterin-derivatives in generation of intermediates in Nitric Oxide Synthase Catalysis. 12th International Conference on Cytochrome P450 Biochemistry, Biophysics and Molecular Biology. La Grand Motte **2001**, France, 160.
6. Morten Sørli "Undervisning i fysikalsk kjemi ved institutt for kjemi og bioteknologi"/ "Teaching Physical Chemistry at the Department of Chemistry and Biotechnology, Agricultural University of Norway" Educational Program, **2001**, AUN. <http://www.nlh.no/pfp/publikasjoner/fagdidakt.htm#01>.
7. Sørli M., A.C.F. Gorren, A. V. Agasøster, B. Mayer and K. K. Andersson. "Detection of Fe(II)NO complex as intermediate in nitrogen oxide synthase reaction cycle," Proceedings of the 6th European Biological Inorganic Chemistry Conference, Lund, Sweden/ Copenhagen, Denmark **2002**, 21.
8. Morten Sørli, Anne-Line Norberg, Bjørnar Synstad, Vincent G.H. Eijsink, Svein J. Horn. "Comparisons Of The Chitinases of *Serratia Marcescens*: Subsites And Inhibitor Binding" 6th Carbohydrate Bioengineering Meeting, Barcelona, Spain, **2005**, P153.
9. F. Henning Cederkvist, Silje F. Sæua, Vigdis Karlsen, Inger-Mari Krokeide, Ingrid Bakke, Gustav Vaaje-Kolstad, Vincent G.H. Eijsink, Morten Sørli.. "Thermodynamic Study of Chitooligosaccharide Binding To Chitinase B of *Serratia Marcescens*" 6th Carbohydrate Bioengineering Meeting, Barcelona, Spain, **2005**, P155.
10. S.J. Horn, A. Sørbotten, J. Bærheim, A.L. Norberg, M. Sørli, B. Synstad, D.M.F. van Alten, D.R. Houston, C. Netter, P. Sikorski, B.T. Stokke, J.E. Nielsen, K.M. Vårum, V.G.H. Eijsink. "The Action of Family 18 Chitinases on Chitin and Chitosans: Substrate-Binding, Catalysis, Processivity, and Production of Oligosaccharides" 6th Carbohydrate Bioengineering Meeting, Barcelona, Spain, **2005**, L35.
11. Cederkvist, F.H.; Zamfir, A.; Eijsink, V.G.H.; Sørli, M.; Katalanic-Peter, J.; Peter, M: "Identification of a High-Affinity Binding Oligosaccharide by (+) Nanoelectrospray Quadrupole

- Time-of-Flight Tandem Mass Spectrometry of a Non-Covalent Enzyme-Ligand Complex” The Norwegian Biochemical Society 42nd Contact Meeting, Storefjell, Norway, **2006**, M20.
12. Cederkvist, F.H.; Saua, S.F.; Karlsen, V.; Fjeld, S.; Sakuda, S.; Eijsink, V.G.H.; Sørli, M. “Thermodynamic Study of Chitooligosaccharide Binding to Chitinase B of *Serratia Marcescens*” The Norwegian Biochemical Society 42nd Contact Meeting, Storefjell, Norway, **2006**, M51.
 13. Zakariassen, H.; Cederkvist, F.C.; Eijsink, V.G.H.; Sørli, M. “Detection of Protein-Ligand Interactions Using Surface Plasmon Resonance Technology” The Norwegian Biochemical Society 42nd Contact Meeting, Storefjell, Norway, **2006**, P63.
 14. Krokeide, I-M.; Cederkvist, F.C.; Horn, S.J.; Eijsink, V.G. H.; Sørli, M. “Natural Substrate Assay for Chitinases Using High Performance Liquid Chromatography: Determination of k_{cat} and K_m ” The Norwegian Biochemical Society 42nd Contact Meeting, Storefjell, Norway, **2006**, P66.
 15. Horn, S.J.; Sørbotten, A.; Synstad, B.; Sørli, M.; Sikorski, P.; Vårum, K.M.; Eijsink, V.G.H. ”Degradation of Chitosan and Chitin with Three Family 18 Chitinases from *Serratia Marcescens*” The Norwegian Biochemical Society 42nd Contact Meeting, Storefjell, Norway, **2006**, P114.
 16. Sørli, M.; Norberg, A.L. Synstad, B.; Eijsink, V.G.H.; Horn, S.J. ”Comparison of the Chitinases of *Serratia Marcescens*: Subsites and Inhibitor Binding” The Norwegian Biochemical Society 42nd Contact Meeting, Storefjell, Norway, **2006**, P115.
 17. Cederkvist, F.H.; Zamfir, A.; Eijsink, V.G.H.; Sørli, M.; Katalanic-Peter, J.; Peter, M: “Identification of a High-Affinity Binding Oligosaccharide by (+) Nano-electrospray Quadrupole Time-of-Flight Tandem Mass Spectrometry of a Non-Covalent Enzyme-Ligand Complex” Carbohydrate Bioengineering Meeting 7, Braunschweig, Germany, **2007**, .
 18. Cederkvist, F.H.; Mormann, M.; Fröesch, M.; Peter, M.; Eijsink, V.G.H.; Sørli, M.; Peter-Katalinić, J. “High Resolution Mass Spectrometry for the Simultaneous Probing of Multiple Concurrent Non-Covalent Enzyme-Ligand Interactions” Carbohydrate Bioengineering Meeting 7, Braunschweig, Germany, **2007**, .
 19. Cederkvist, F.H.; Parmer, M.; Vårum, K.M.; Eijsink, V.G.H.; Sørli, M. “Inhibition of a Glycoside Hydrolase Family 18 by Chitooligosaccharides: A Structure -and Function Analysis by MALDI TOF/TOF MS” Carbohydrate Bioengineering Meeting 7, Braunschweig, Germany, **2007**, .
 20. Cederkvist, F.H.; Mormann, M.; Fröesch, M.; Peter, M.; Eijsink, V.G.H.; Sørli, M.; Peter-Katalinić, J. “High Resolution Mass Spectrometry for the Simultaneous Probing of Multiple Concurrent Non-Covalent Enzyme-Ligand Interactions” The 8th International Conference of the European Chitin Society, Antalya, Turkey, **2007**, P106.
 21. Cederkvist, F.H.; Parmer, M.; Vårum, K.M.; Eijsink, V.G.H.; Sørli, M. “Inhibition of a Glycoside Hydrolase Family 18 by Chitooligosaccharides: A Structure -and Function Analysis by MALDI TOF/TOF MS” The 8th International Conference of the European Chitin Society, Antalya, Turkey, **2007**, P105.
 22. Horn, S.J.; Sikorski, P.; Cederkvist, J.B.; Vaaje-Kolstad, G.; Sørli, M. Synstad, B.; Vriend, G.; Vårum, K.M.; Eijsink, V.G.H. “Enzymatic degradation of recalcitrant polysaccharides: costs and benefits of processivity” The 8th International Conference of the European Chitin Society, Antalya, Turkey, **2007**, 09-03.
 23. Cederkvist, F.H.; Zamfir, A.; Mormann, M.; Parmer, M.P.; Fröesch, M.; Bahrke, S.; Vårum, K.M.; Peter, M.; Eijsink, V.G.H.; Peter-Katalinić, J.; Sørli, M. “Chitinase – Chitooligosaccharide Interactions as Seen Through the Eyes of Mass Spectrometry” Antalya, Turkey, **2007**, 03-02.