

## **Annex 1:**

### **Publications and Dissemination**

- **Papers**
- **Oral presentations**
- **Posters**
- **Interviews and articles**

## **Annex 1: Publications and dissemination**

### **Papers:**

1. Bruhn A, Dahl J, Nielsen HB, Nikolaisen LS, Rasmussen MB, Markager S, Olesen B, Arias C, Jensen PD 2011. Bioenergy potential of *Ulva lactuca*: growth yield, methane production and combustion. *Bioresource Technology* 102, 2595-2604.
2. Nielsen MM, Bruhn A, Rasmussen MB, Olesen B, Larsen MM, Møller HB. Cultivation of *Ulva lactuca* with manure for simultaneous bioremediation and biomass production. Accepted to *Journal of Applied Phycology*.
3. Bruhn A, Rasmussen MB, Nikolaisen L, Jensen PD, Balsby T, Larsen MM, Sander B. Flue gas carbon source for cultivation of the green macroalgae *Ulva lactuca*. In preparation for *Journal of Applied Phycology*.
4. Ravn HW, Lauridsen L, Rasmussen, MB, Markager, SS and Bruhn, A. Three new methods for determination of monosaccharides in *Ulva lactuca* for biofuel production. In preparation for *Journal of Planar Chromatography*.
5. Nadja Schultz-Jensen, Anders Thygesen, Sune Tjalfe Thomsen, Christian Roslander, Frank Leipold, Anna Belinda Bjerre, Guido Zacchi. Investigation of different pretreatment technologies for the macroalgae *Chaetomorpha linum* for the production of bioethanol. In preparation.
6. Kadar Z, Bjerre AB. Liquid biofuel production from *Ulva lactuca*. In preparation.
7. Nielsen HB, Heiske S. Anaerobic digestion of macro algae: Methane potentials, pretreatment, inhibition and co-digestion. In preparation for *Water Science and Technology*.
8. Albert Kr, Ambus P. Significance of N<sub>2</sub>O emission from living macro algae are mediated by nitrate and light. Results from laboratory incubations of *Ulva lactuca*. In preparation.

### **Oral presentations:**

1. Reducer stanken – kom en alge i tanken. Michael Bo Rasmussen. 16 May 2008. Biologisk Instituts Årsmøde, Aarhus University.
2. Alger og bioethanol. Michael Bo Rasmussen. March 2008, Aarhus University, Mikrobiologisk Seminar.
3. Anvendelse af marine alger til fremstilling af biobrændstof. Rasmussen, MB et al. 15. Danske havforsker møde 27-29 January 2009, Helsingør.
4. Energiproduktion fra marin biomasse. Makroalgen søsalat (*Ulva lactuca*). Nikolaisen, L. EnergiForsk2009 møde den 16 June 2009 in Copenhagen.
5. Bioenergi fra alger. Annette Bruhn, Ungdommens Naturvidenskabelige forening (UNF), Aarhus, 8 October 2009.
6. Alger – den blå biomasse. Annette Bruhn. Århus Maskinmester Skole, 4 November 2009.
7. Alger - fremtidens energikilde. Michael Bo Rasmussen, Rotary, 18 November 2009.

8. Bioenergi og alger. Annette Bruhn, Folkeuniversitetet Aarhus. 18 November 2009.
9. Marine biomass. The Danish Ulva lactuca project. Bruhn A, Rasmussen MB, Nikolaisen LS, Nielsen HB, Thomsen AB, Sander B and Ravn E. XX International Seaweed Symposium. Ensenada, Baja California, Mexico. 22-26 February 2010.
10. Karin Svane Bech. Foredrag ved Folkeuniversitet, 25 February 2010: Alger – brændstof til mennesker, biler og dyr.
11. Alger – den blå biomasse. Annette Bruhn. Aarhus Maskinmester Skole, 16 March 2010.
12. Bioenergi fra alger. Bruhn A. and Rasmussen, MB. Forskningens døgn. Via University college, Horsens, 23 April 2010.
13. Bioenergi fra alger. Bruhn A. and Rasmussen, MB. Forskningens døgn. Via University college, Ringkøbing Rådhus, 23 April 2010.
14. Energy Production from Sea Lettuce (*Ulva lactuca*). Lars Nikolaisen; Jonas Dahl; Karin Svane Bech; Annette Bruhn, Michael Bo Rasmussen, Anne Belinda Thomsen, Henrik Bangsø Nielsen, Bo Sander. 18<sup>th</sup> Biomass Conference in Lyon, 3-7 May 2010.
15. Akvatisk biomasse som ny ressource til energi, foder og fødevarer. Lars Nikolaisen. Dansk Kemiingeniørkonference. DTU CHEC. 16-17 June 2010.
16. Energipotentialet i Alger. Jonas Dahl. Opening of AlgeCenter Denmark, 21 September 2010.
17. Dyrkning af alger i Danmark. Michael Bo Rasmussen, Senior Advicer and Annette Bruhn, Researcher, Danmarks Miljøundersøgelser at Aarhus University. Opening of AlgeCenter Denmark, 21 September 2010.
18. Tang til fødevarer, energikilde og til vandrensning. Annette Bruhn. Vision day. Lemvig Kommune, 7 October 2010.
19. Cultivation of *Ulva lactuca* for bioenergy. Bruhn A, Rasmussen MB, Dahl J, Nikolaisen LS, Nielsen HB, Thomsen AB, Sander B and Ravn E. Malmö, 29 November 2010. Biogas and Chemicals from Marine and Agricultural Biomasses.
20. Tangs anvendelse – fra konsum til energi. Annette Bruhn. Samsø Akademi, Ballen, Samsø. Series of lectures about seaweed.
21. Tang til energi. Annette Bruhn. Tangnetværket. Danisco Copenhagen, 9 February 2011.
22. Kádár, Zs., Jensen, A.E., Coppalo, F., Thomsen, A.B., Nielsen, H.B., Schmidt, J.E. (2011) Liquid biofuels from blue biomass. Oral presentation at Risø International Energy Conference 2011, 10-12 May, Roskilde, Denmark.
23. CO<sub>2</sub> bioremediation – flue gas carbon source for cultivation of the green macroalgae *Ulva lactuca*. A. Bruhn, M.B. Rasmussen, L. Nikolaisen, P.D. Jensen, M.M. Larsen, C. Stedmore, E.R. Schmidt. 4<sup>th</sup> Congress at the International Society for Applied Phycology, 19-24 June 2011. Halifax Canada.
24. Energy Production from Sea Lettuce (*Ulva Lactuca*). Anne Belinda Bjerre. 19<sup>th</sup> European Biomass Conference, Berlin, 6-10 June 2011.
25. Energy Production from Sea Lettuce (*Ulva Lactuca*). Lars Nikolaisen. Macroalgae Conference, Grenaa. 12 October 2011.

26. Alger – bioenergi og miljøforbedring. Annette Bruhn. Biologilærerforeningen, 31 September 2011.

#### Posters:

1. Coppalo, F., Kádár, Zs., Thomsen A.B. (2008) Bioethanol potentials from macroalgae. Poster presentation at Pacific Rim Summit on industrial biotechnology and bioenergy, 10-12 September 2008, Vancouver (CA).
2. Farming of aquatic biomass for energy - growth potential of the marine seaweed *Ulva lactuca*. Bruhn, A., Rasmussen, M.B. and Olesen, B. 17<sup>th</sup> international Biomass Conference, Hamburg, 29 June – 3 July 2009 (Poster award).
3. Energy production from marine biomass. Bech K.S., Jensen P.D. 17<sup>th</sup> international Biomass Conference, Hamburg, 29 June – 3 July 2009 and International Algae congress, Hamburg, December 2009.
4. Energy Production by Thermal Conversion of Seaweed – characterization. Dahl, J, Jensen, P.D., Nikolaisen, L, Bech K.S. 17<sup>th</sup> international Biomass Conference, Hamburg, 29 June – 3 July 2009 and International Algae congress, Hamburg, 1 December – 2 December 2009.
5. Aquatic biomass for biofuels. Bruhn, A., Rasmussen MB et al. The IARU International Scientific Congress on Climate Change Copenhagen, 2009 and Beyond Kyoto: Addressing the Challenges of Climate Change, Aarhus, 2009.
6. Nielsen, H.N., Coppola, F., Kádár, Zs., Schmidt, J.E., Thomsen, A.B. (2009) Conversion of macroalgae to bioethanol and biogas. Poster presentation at The 2nd Annual World Congress of Industrial Biotechnology, 5-7 April 2009, Seoul, South Korea.
7. Algae as a valuable ingredient in food, feed and fuel. Bech K.S. AACC International (American Association of Cereal Chemists) Conference, Baltimore, USA, September 2009
8. Energy Production from Sea Lettuce (*Ulva Lactuca*). Anne Belinda Bjerre. 19<sup>th</sup> European Biomass Conference, Berlin, 6-10 June 2011.
9. Kádár, Zsófia; Jensen, Annette Eva; Thomsen, Anne Belinda. Biofuel production from macroalgae - emphasize on butanol production. The Fourth Annual Workshop of COST FP0602 Biotechnology for lignocellulose biorefineries, 22-24 September 2010, Izmir, Turkey (Poster award).
10. Cultivation of *Ulva lactuca* on pig manure for simultaneous bioremediation and biomass production. M.M. Nielsen, A. Bruhn, M.B. Rasmussen, B. Olesen. 4<sup>th</sup> Congress at the International Society for Applied Phycology, 19-24 June 2011. Halifax Canada.
11. Kádár, Zs., Borch, M.M., Nielsen, H.B., Schmidt, J.E. (2011) Combined Acetone-Butanol-Ethanol (ABE) and biogas production from macroalgae. Poster presentation at 33rd Symposium on Biotechnology for Fuels and Chemicals, 2-5 May, Seattle, WA, USA.
12. Albert KR, Ambus P. GHG balance of *Ulva lactuca* – N<sub>2</sub>O emission vs. CO<sub>2</sub> uptake. Konferencen: Makroalger fra forskning til morgendagens industri, 12-13 November 2011 in Grenaa, Denmark.

13. Nielsen MM, Bruhn A, Olesen B, Rasmussen MB, Gerlich K, Egholm TQ, Frandsen ER, Møller HB (2011). Dyrkning af søsalat på gylle. Dansk Havforsker møde 2011.

### Interviews and articles

1. Algae soup may be the fuel of the future. Torben Skøtt. FIB Bioenergy research, 2008. 5
2. Danske forskere dyrker alger til biobrændstof med kraftværkrøg. Ingeniøren 4 January 2008.
3. Fra søsalat til bioethanol. Børsen, 26 March 2008.
4. Bilerne på salatbar. Jyllandsposten (Erik Norby), 13 May 2008.
5. Den Blå Biomasse. Peter Daugbjerg Jensen og Annette Bruhn. Aktuel Naturvidenskab no. 6, 2008.
6. Søsalat giver 45 tons tørstof/hektar. Bech K.S. Forskning i Bioenergi no. 29. september 2009.
7. Røggas giver mere søsalat. Michael Bo Rasmussen og Annette Bruhn. Forskning i Bioenergi, December 2009/January 2010.
8. Viborg Stiftstidende 11 January 2010. Nu skal der tænkes I tang. Interview with Michael Bo Rasmussen and Annette Bruhn.
9. Viborg Stiftstidende 11 January 2010. Stor midtjysk tang-satsning på vej. Interview with Michael Bo Rasmussen and Annette Bruhn.
10. P4 Østjylland Nyheder 14. juli 2010. Interview with Annette Bruhn. <http://www.dr.dk/Regioner/Aarhus/Nyheder/Lyt/>
11. TV2 Østjylland 14 July 2010. Interview with Karin Svane Bech, Lone Mouritsen and Annette Bruhn. <http://www.tv2regioner.dk/player.aspx?id=555218&r=7>
12. P4 Østjylland Nyheder. 6 September 2010. Interview with Annette Bruhn.
13. Akvatisk biomasse som ny ressource. Lars Nikolaisen. Dansk Kemi. October 2010.
14. Artikel i Børsens månedsmagasin, 2 December 2010. Interviews with Lars Nikolaisen and Anne-Belinda Thomsen.
15. Interview in Radio Østjylland in December 2010 from the DTI biomass laboratory with Lars Nikolaisen at Danish Technological Institute, Aarhus.
16. Om Energi. Energinet.dk. October 2011. Alger = energi. Interview with Annette Bruhn.
17. P1 morgen. 14 October 2011. Interview with Annette Bruhn about the conference in Grenaa.
18. P4 nyheder. 14 October 2011. Interview with Annette Bruhn about the conference in Grenaa.
19. Nøglen til succes kræver et bredt perspektiv. Article in Forskning i Bioenergi, October 2011. About the conference in Grenaa.