



## 72<sup>nd</sup> IIRB Congress – 22-24 June 2010 Poster Programme

### Beet plant potential

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| 1.1  | Cariolle, M., A. Lellahi<br>Montarges, C. Malaval,<br>A. Tailleur, F. Lejealle,<br>T. Modemann | Energy consumption and greenhouse gas emission assessment<br>of sugar beet seeds production paths, in France   |
| 1.2  | Beitzen-Heinecke, C.,<br>C. Becker   | From field to digester – the processing chain for sugar beets as a substrate<br>for biogas production  |
| 1.3  | Ciuffreda, G., S. Lunghi,<br>M. Silvagni   | Utilization of leaves and tops of sugar beet in biogas production  |
| 1.4  | Potyondi, L., M. Eszterle,<br>J. Kimmel  | Sugar beet as a potential energy crop in Hungary   |
| 1.5  | Starke, P., C. Hoffmann  | Impact of variety and N application on quality of sugar beet<br>used as biogas substrate   |
| 1.6  | Loel, J., C. Hoffmann  | Frost hardiness of winter sugar beets – Pre-winter development<br>of different sugar beet hybrids  |
| 1.7  | Reinsdorf, E., H.-J. Koch  | Effects of crop management on winter hardiness and yield of bolting winter<br>beet cultivated for anaerobic digestion                                  |
| 1.8  | Bürcky, K., J. Maier   | Storage of sugar beet in field clamps during ever-longer campaigns –<br>losses and their reduction   |
| 1.9  | Büsching, S., R. Hoffmann  | Experiences with practical oriented long-term storage of sugar beets –<br>Results of 6 years trials  |
| 1.10 | Zavanella, M.,<br>G. Campagna, M. Silvagni,<br>M. Fattori                                      | Storage of sugar beet in pile in mediterranean condition:<br>4-year experience in the Po valley  |
| 1.11 | Wauters, A.  | Respirometry measurements as a tool for testing the storability<br>of commercial varieties in Belgium  |
| 1.12 | Legrand, G.,<br>J.-P. Vandergeten  | Sugar beet clamps: frost protection and cleaning by loading machines<br>in Belgium   |
| 1.13 | Weber, U., A. Wagner,<br>M. Scholtissek,<br>H. Auerbach, F. Weissbach                          | Preservation of sugar beets in large plastic bags  |
| 1.14 | Becker, C.   | Defoliation of sugar beet – technique, cost, utility   |
| 1.15 | Wollenweber, D.,<br>D. Töppe, B.C. Schäfer   | Yield and quality of the harvest technology defoliation compared<br>to standard topping  |
| 1.16 | Eigner, H., F. Kempl,<br>F. Emerstorfer, W. Hein   | Marc content of different sugar beet varieties in Austrian growing areas   |
| 1.17 | Fares, K., A. Baouch   | Effects of the high concentrations of nitrogen compounds in sugar beet<br>and juices in Morocco on the sugar recovery                                  |
| 1.18 | Emerstorfer, F., W. Hein   | Application of natural antibacterials in pressed pulp silage production<br>part II: combined use of natural antibacterials and silage starter cultures |



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### Plant protection challenges

- 2.1 Boetel, M.A., R. Dregseth, A. Schroeder, A. Majumdar Insecticidal seed treatments to manage springtails and wireworms in sugar beet
- 2.2 Piszczek, J., D. Górski, A. Ulatowska Occurrence of a large population of third generation Mangold flies (*Pegomya hyoscyami*) in Poland
- 2.3 Windt, A. Monitoring of nematodes (*H. schachtii*) in sugar beets at Nordzucker in Germany
- 2.4 Sigl, G., H. Eigner, F. Kempl, F. Grundler Occurrence of *Heterodera schachtii* in the Austrian sugar beet production area
- 2.5 Sigl, G., H. Eigner, F. Kempl Climatic change in the Austrian sugar beet growing area
- 2.6 Legrand, G. Cartographic illustration of the advisory service on sugar beet leaf diseases in Belgium
- 2.7 Hansen, A.L., R. Olsson, J. Nyholm Thomsen Increased growth rate and effect of leaf disease control in sugar beet in DK and SE
- 2.8 Schneider, J.H.M., P.M.S. van Oorschot, A.H.L. Schone Verticillium, the causal agent of “yellow necrosis” of sugar beet in the Netherlands
- 2.9 Olsson, A., L. Persson Oil seed radish and mustard for biofumigation of soil borne pathogens in sugar beet rotations
- 2.10 Persson, L., Å. Olsson Persistence of inoculum of soilborne diseases in the Nordic countries
- 2.11 Bolton, M.D., M. Khan Temperature, moisture, and fungicide effects in managing Rhizoctonia root and crown rot of sugar beet
- 2.12 Apfelbeck, R., G. Simeth, G. Wagner Methodical trials for an optimised testing of Rhizoctonia tolerant varieties
- 2.13 Taguchi, K. QTL analysis for the Aphanomyces root rot resistance
- 2.14 Fischer, D., K. Köller Increasing the machined acreage by mechanical weed control in sugar beet cultivation
- 2.15 Royer, C., M. Fallet Combined mechanical weed control: Possibilities to reduce herbicide quantities in the sugar beet crop
- 2.16 Tanji, A. Survey of weeds and weed control practices in 50 Doukkala sugarbeet fields, Morocco
- 2.17 Thiel, H., C. Kluth, M. Varrelmann A new method for rapid detection of the metamitron target site D1 Ser264Gly mutation in *Chenopodium album*
- 2.18 Mishutkina, Y., A. Kamionskaya, K. Skryabin Developing Phosphinothricin-resistant transgenic sugar beet plants



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### Soil, seed and management improvements

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| 3.1  | Arvidsson, J.  | Effects of compaction during seeding on yield of sugar beets   |
| 3.2  | Zavanella, M., A. Vacchi,<br>A. Fabbri, G. Campagna  | Technique of soil preparation for sugar beet with ridge:<br>6 years of experience in northern Italy (2004-2009)  |
| 3.3  | Nielsen, O., H. Lakkenborg<br>Kristensen             | Strip tillage for sugar beets  |
| 3.4  | Sander, G.   | Strip till drilling of sugar beets   |
| 3.5  | Hergert, G., R. A. Nielsen                           | Comparison of strip tilled versus broadcast-applied N for sugar beets  |
| 3.6  | Duval, R.  | Leguminous plants used as a cover crop before sugar beet   |
| 3.7  | Olsson, A., A. Gunnarsson,<br>L. Persson             | Oil seed radish and white mustard as nitrogen catching intercrops in<br>sugar beet rotations   |
| 3.8  | Muskolus, A., H.-J. Koch                             | Is oilseed rape a suitable pre-crop for sugar beet? - Effects on yield,<br>management of volunteer crop plants, and impact on nematodes<br>( <i>Heterodera schachtii</i> ) |
| 3.9  | Kempl, F., H. Eigner                                 | Development of the nutrient content of soils in the Austrian beet<br>growing area from 2001 to 2008  |
| 3.10 | Eigner, H., F. Kempl                                 | Application of carbonation lime on a clay soil –<br>effects on yield and selected chemical soil parameters   |
| 3.11 | Bentini, M., G. Campagna,<br>C. Caprara, R. Martelli | Effects of carbonatation lime distribution on clay loam soils  |
| 3.12 | Wasner, J., H. Eigner,<br>F. Kempl, P. Liebhard      | Application of carbonation lime on calcareous soils –<br>effects on yield and selected chemical soil parameters  |
| 3.13 | Wasner, J., H. Eigner,<br>F. Kempl, P. Liebhard      | Application of carbonation lime on calcareous soils –<br>effects on selected physical soil parameters  |
| 3.14 | Loibl, B.  | Direct drilling of sugar beet – investigations on the working quality of<br>different machinery  |
| 3.15 | Wauters, A., G. Legrand                              | Reaction of sugar beet varieties to different nitrogen levels in Belgium   |
| 3.16 | Bürcky, K., D. Horn,<br>F. Fürstenfeld               | Has the optimal N-fertilization rate changed to sugar beets? –<br>Results of 25 years field trials   |
| 3.17 | Bürcky, K., D. Horn,<br>D. Steffens                  | Influence of lime content of soils on the availability of boron  |
| 3.18 | Moughli, L.  | Optimization of sugar beet potassium fertilization in the Doukkala<br>perimeter in Morocco   |
| 3.19 | Saadaoui, N., K. Fares                               | Sustainable solution for the use of lime sludge for<br>sugar beet crop in Morocco  |



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| 3.20 | Mittler, S., E. Blumenberg,<br>A. Voss                                | High sugar yield secured – the basic yield as significant parameter to ensure yield and raw material  |
| 3.21 | Heyes, V.R.J., S. Harper,<br>K. Bigger                                | Advances in seed priming technologies for sugar beet  |
| 3.22 | Podlaski, S.Z., Z. Chrobak,<br>H. Wzorek                              | Effects of sugar beet seeds priming   |
| 3.23 | Bennani, M.   | Generalisation of the use of monogerm sugar beet varieties in Morocco – constraints and solutions   |
| 3.24 | Kitazaki, K., Y. Nomoto,<br>A. Aoshima, T. Mikami,<br>T. Kubo         | A mitochondrial gene involved in cytochrome c maturation (ccmC) is expressed as a precursor with a long NH <sub>2</sub> -terminal extension in sugar beet |
| 3.25 | Kubo, T., D. Cheng,<br>Y. Yoshida, Y. Honma,<br>T. Mikami             | Mitochondrial genome diversity of cultivated beets  |
| 3.26 | Panella, L.W., A. Fenwick,<br>L. Frese, B. Hellier,<br>C.M. Richards  | Genetic diversity within and among populations of <i>Beta nana</i>  |
| 3.27 | Richardson, K.L.  | A molecular approach to germplasm improvement at the US Agricultural Research Station in Salinas, California  |
| 3.28 | Sauvenier, X., M. Bajikar,<br>J.-N. Evrard                            | Evaluation of sugar beet varieties under different agro-climatic zones and soil types in Maharashtra (India)  |
| 3.29 | Escriou, H.   | Comparing leaf development of varieties by 'passive remote sensing'   |
| 3.30 | Maupas, F.  | Combining modelling and non-destructive field measurements to forecast sugarbeet yield  |
| 3.31 | Nagl, N., I. Maksimovic,<br>Z. Curcic, M. Putnik-Delic,<br>L. Kovacev | Effect of induced water deficit on sugar beet micropropagation  |
| 3.32 | Ober, E., C.J.A. Clark,<br>A. Perry                                   | Sugar beet hybrids differ in ability to recover following drought   |
| 3.33 | Barbanti, L., G. Bettini,<br>G. Ciuffreda, A. Fabbri,<br>E. Gabellini | Enhancing irrigation water use efficiency to reinforce sugar beet competitiveness in Northern Italy   |
| 3.34 | Aylaj, M.   | Impact of the salinity of water on the chlorophyll content of two sugar beet varieties  |
| 3.35 | Honarvar, M., M. BazrAfshan   | Effective factors on technology quality of sugar beet in relation to sugar yield efficiency (Orumieh sugar factory – Iran)                                |