

3rd *Tuber* Genome Consortium Workshop

University of Parma – Centro Congressi Santa Elisabetta

November 27-28, 2008

Thursday, November 27

8:30 – Welcome address

S Ottonello (University of Parma) & F Martin (INRA-Nancy)

8:45 – First glimpse on the structure of the *Tuber melanosporum* genome sequence

O Jaillon (Géoscope-Evry)

9:15 – Symbiont inventions – Genomes of the basidiomycete *Laccaria bicolor* and the ascomycete *Tuber melanosporum* reveal evolutionary insights into mycorrhizal symbiosis

F Martin (INRA-Nancy)

9:45 – Analysis of repetitive DNA distribution patterns in the *Tuber melanosporum* genome

S Ghignone & C Murat (University of Torino & INRA-Nancy)

10:15 – Coffee Break

10:45 – The transcriptome landscape of *Tuber melanosporum*

E Morin & A Kohler (INRA-Nancy)

11:10 – *In silico* and functional identification of transcription factors

B Montanini (University of Parma)

11:30 – Signal transduction pathways

S Duplessis (INRA-Nancy)

11:50 – Genes involved in light transduction and chromatin modifiers

A Brenna & P Ballario (University of Roma)

12:10 – Lunch break

13:30 – Tuber and Nitrogen: are there any specificities that can be highlighted by the genome sequence?

A Brun (INRA-Nancy Université)

13:50 – Metal homeostasis genes

A Bolchi & R Ruotolo (University of Parma)

14:10 – Major pathways of carbohydrate metabolism

M Bufalini (University of Urbino)

14:30 – Manual and tool-assisted annotation of the Tm genome: identification and classification of vitamin B6 dependent enzymes

R Percudani (University of Parma)

15:00 - Coffee Break

15:30 – Sulfur Metabolism

S Ottonello (University of Parma)

15:50 – Auxin, ethylene and volatile organic compounds in truffles

R Splivallo (Uni of Göttingen) & A Mello (IPP-CNR, University of Torino)

16:10 – Identification of key genes for mating and pheromone signal transduction pathway

A Rubini & F Paolucci (University of Perugia)

16:30 – Cell wall, morphology-related proteins and the machinery of hyphal growth

R. Balestrini (IPP-CNR, University of Torino) & A. Amicucci (University of Urbino)

17:00 – *Tuber melanosporum* copper and non-copper oxidoreductases and cell cycle genes

M Miranda et al. (Università dell'Aquila)

17:20 – Heat shock proteins and stress response genes

E Zampieri (University of Torino)

17:40 – Ankyrin repeat protein family and Vegetative incompatibility in *T. melanosporum*

M Iotti (University of Bologna)

18:00 – End of the session

Friday, November 28

8:30 – Assessing the microbial web of a truffle-ground ecosystem

A Mello (IPP-CNR, University of Torino)

8:50 – The [Apollo Genome Annotation Curation Tool](#)

J Anselm (URGI-Evry) & B Setterblad (Génoscope)

9:30 – Manual curation: Artemis Frequently Asked Questions & Practicals

E Morin (INRA-Nancy)

10:15 - *Coffe break*

10:45 – Wrap-up session & Open discussion by members of the Tuber Genome Consortium: Other follow-up programs (proteomics, metabolomics, genome-based phylogeography and comparative analysis with other truffles). **Publication issues. Plan for future meetings**

12:00 - *Lunch*

13:00 – End of the meeting

The *Tuber melanosporum* genome sequence has been determined and machine-annotated by Genoscope (CNS, Evry)

INRA-Nancy (Champenoux) is in charge of data management and Consortium coordination (Francis Martin)

The manual annotation and functional genomics work that is being carried out at the University of Parma (Department of Biochemistry and Molecular Biology; Coordinator: Simone Ottonello) is supported by grants from the Fondazione Cariparma and Ministero dell'Istruzione, dell'Università e della Ricerca (MIUR)

