

# ***POSTER PRESENTATIONS***

**2015** EAPR Breeding and Varietal Assessment  
Section and EUCARPIA Section Potatoes

## **18<sup>TH</sup> JOINT MEETING**

*Vico Equense, Italy - November 15th – 18th, 2015*

## P1 Investigation of the potato virus Y status in seed potatoes in Romania (preliminary studies)

Bădărău CL<sup>1,2</sup>, Rakosy E<sup>3</sup>, Damşa F<sup>1</sup>, Olteanu G<sup>1</sup>, Chiru SC<sup>1</sup>

<sup>1</sup> National Institute of Research and Development for Potato and Sugar Beet Brasov, <sup>2</sup> Fundaturii, 500470 Brasov, Romania, tel. 0040268476795, fax: 0040268476608, e-mail: badarau\_carmen14@yahoo.com

<sup>2</sup> Faculty of Food and Tourism, Transilvania University, Braşov, Romania

<sup>3</sup> Faculty of Biology, Babeş-Bolyai University, Cluj-Napoca, Romania

The cultivar's selection is one of the most important critical component in the PVY control. Potato varieties with demonstrate some resistance to PVY can be managed effectively in most regions and maintain their certification status. However, knowledges regarding each cultivar's reaction to PVY and the various strains of PVY (especially the necrotic one) are criticals. This preliminary studies investigating the status of the Potato virus Y (PVY) during two years (2014 and 2015), in five main seed potato growing areas of Romania, revealed large differences in PVY incidence. The samples tested were from the following cultivars: Christian, Roclas (romanian cv.), Riviera, Carrera, Bellarosa, Jelly, Hermes and Red Lady. Serological investigations by DAS ELISA showed that 49.5% of the PVY positive samples in 2014 and 68.4% in 2015, viruses belonging to the PVYN group were found. A selection of 126 samples collected in 2014 and all 72 serological positive PVY<sup>N</sup> samples collected in 2015 were further typified by molecular tests and by biological assays on tobacco and potato plants. The tests largely confirmed the predominance of the PVY<sup>N</sup> group and within this group, the prevalence of recombinant PVY<sup>NTN</sup>, with 79.4% and 88.6% in 2014 and 2015, respectively.

**Keywords:** potato virus Y, seed potato, necrotic strains.

**Acknowledgements.** This work was supported by a grant of the Romanian National Authority for Scientific Research, CNDI-UEFISCDI, PN-II-PT-PCCA-2013-4-0452, project number 178/2014.

## P2 Repression of catalase activity by Antisens and co-suppression strategies accelerated dormancy breakage and sprouting of potato tubers (*Solanum tuberosum* L.)

Bettaieb T<sup>1</sup>, Chikh-Rouhou H<sup>2</sup>, M'Hamdi M<sup>3</sup>, Bajji M<sup>4</sup> con Du Jardin P<sup>4</sup>

<sup>1</sup> Institut National Agronomique de Tunis. Cité Mahrajène, Tunisia.

<sup>2</sup> Centre de Recherches en Horticulture et Agriculture Biologique, Chott-Mariem, Tunisia.

<sup>3</sup> Institut Supérieur Agronomique de Chott-Mariem. 4042 Sousse. Tunisia.

<sup>4</sup> Unite de Biologie Végétal, Faculté Universitaire des Sciences Agronomiques de Gembloux, Belgium

Potato (*Solanum tuberosum* L.) is the fourth most important food crop in the world mainly due to its starch content and high quality protein, substantial amounts of essentials vitamins, minerals and very low fat content. At harvest and for a finite period thereafter, potato tubers will not sprout and are both pre-and post-harvest conditions. Excessively long dormancy poses a problem in sprouting of seed tubers for early crop installation. Controlling the length of dormancy period could therefore be of considerable importance. In several vegetable species a relationship between the metabolism of active oxygen species and breakage of dormancy has been established. However, scarce information is available on the role of oxidative stress in potato tubers. The aim of the present investigation is to study the effect of catalase activity on the dormancy and the sprouting of potato, by generation of transgenic plants deficient in their CAT activity. Two constructs *pCat2AS* (*Cat2*, antisense orientation) and *pCatGH* (*GH2*, sense orientation) were mobilised into *Agrobacterium tumefaciens* (strain C58) and used to transform internodal explants of potato, cv. Désirée. The genes *Cat2* from *Nicotiana plumbaginifolia* and *GH2* from *Gossypium hirsutum*, both coding for the CAT2 isoform were used for suppression of catalase activity by antisense approach (2AS lines) or gene silencing by co-suppression approach (lines GH). The repression of CAT activity was associated with Ascorbate peroxidase (APX) accumulation and a decrease in the Hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>) in potato tubers. The sprouting of transgenic tubers was accelerated as compared to the non-transformed control and was associated with an increase of APX activity.



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# BOOK OF ABSTRACTS

**2015** EAPR Breeding and Varietal Assessment  
Section and EUCARPIA Section Potatoes

## 18<sup>TH</sup> JOINT MEETING

*Vico Equense, Italy - November 15th – 18th, 2015*

*Local organising committee:* Riccardo Aversano, Amalia Barone, Maria Raffaella Ercolano, Edgardo Filippone, Luigi Frusciante (University of Naples Federico II, Dept. Agricultural Sciences)

*Scientific committee:* Glenn Bryan, Domenico Carputo, Finlay Dale, Luigi Frusciante, Dan Milbourne, Vanessa Prigge

*Dear Participants,*

It is a great pleasure to welcome you to the 18<sup>th</sup> Triennial Meeting of the EAPR Section 'Breeding and Varietal Assessment' and the EUCARPIA Section 'Potatoes' in Vico Equense, Italy. This meeting has been designed to bring experts and students together from disciplines covering all relevant aspects of modern potato genetics and breeding. We hope the relaxing environment stimulates new proficuous collaborations.

We are very glad that so many delegates are coming from all over the world to share their knowledge and expertise. There will be 6 keynote lectures, 33 oral presentations and several posters. The meeting will also have a special session on the occasion of Dr. Christiane Gebhardt's retirement, a great opportunity for the entire potato community to celebrate her exemplary career.

We would like to thank EAPR, EUCARPIA, the Department of Agricultural Sciences of the University of Naples Federico II and all the sponsors for their financial contribution, the Scientific Committee for continuous support and useful suggestions, PlantGeM and PQS for assistance in the organization of the meeting. Last but not least, many thanks to all of you for participating.

We hope you enjoy the scientific program as well as the unique environment of the Sorrento Peninsula!

***The Local Organizing Committee***

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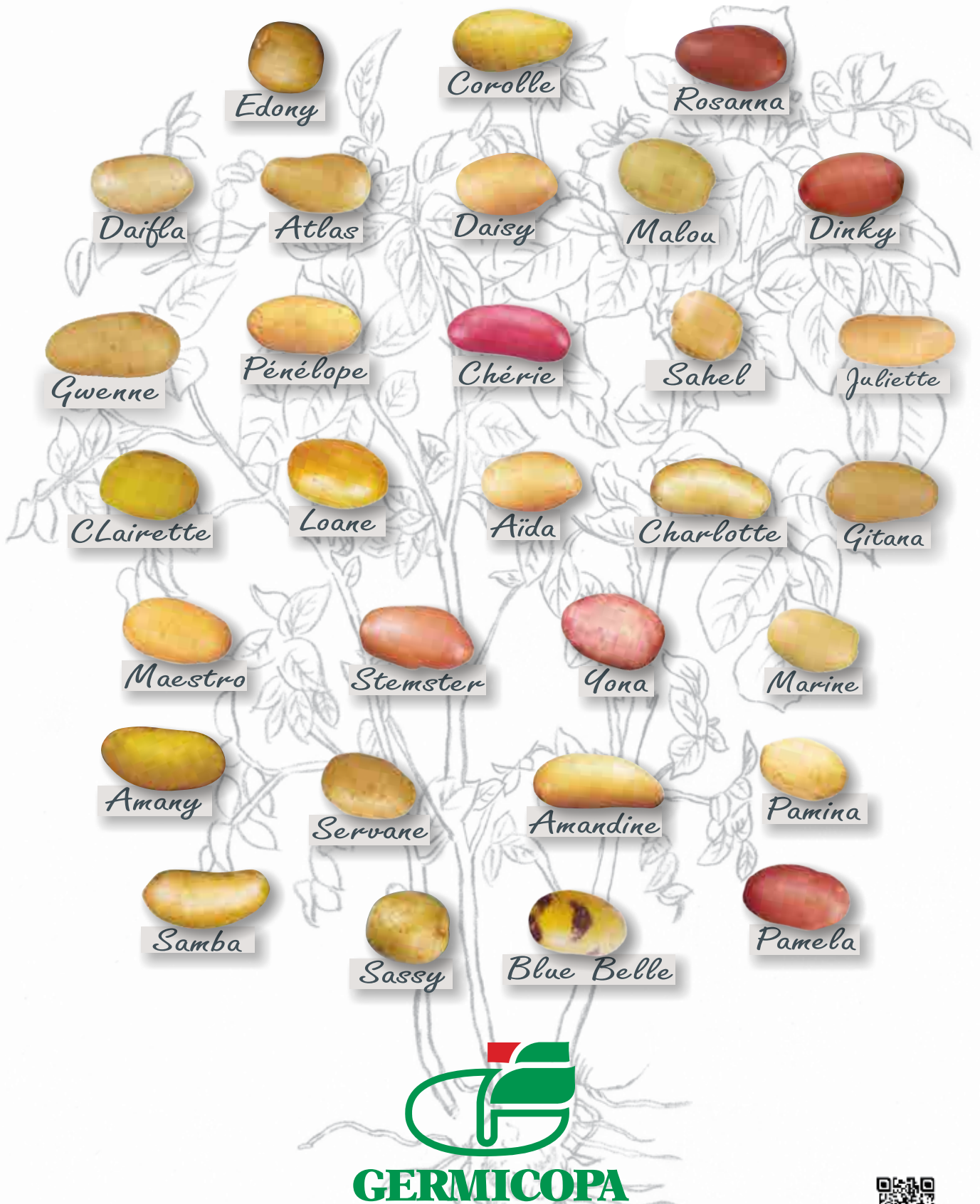
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# La création, source d'innovation !



  
**GERMICOPA**

CRÉATEUR VARIÉTAL DE POMME DE TERRE  
POTATO VARIETIES CREATOR



SCIENTIFIC PROGRAMME

**MONDAY, NOVEMBER 16**

*Opening ceremony*

08.30 - 09.00

**09:00 - 12:40 Session 1 – BIOTIC INTERACTIONS**

*Chairpersons: Prigge Vanessa, Visser Richard*

09.00 - 09.30

**Keynote Lecture**

*Bradeen James*

Borrowing from neighbors: comparative genomics approaches for resistance gene discovery and deployment

09.30 - 09.50

*Chen Xinwei*

Application of novel enrichment and sequencing approaches for rapid marker development and fine-mapping of a broad-spectrum blight resistance locus from *S. verrucosum*

09.50 - 10.10

*Fadina Oksana*

Late blight resistance genes in complex interspecific potato hybrids

10.10 - 10.30

*Hutten Ronald*

*Rpi*-gene mediated late blight resistance in potato tubers

10.30 - 10.50

*Vossen Jack*

Novel R gene differential set plants for monitoring virulence in *P. infestans*

10.50 -11.20

**COFFEE BREAK AND POSTER DISPLAY**

**Session 1 – BIOTIC INTERACTIONS (cont.)**

11.20 - 11.40

*Milbourne Dan*

Stability of resistance conferred by pyramiding two QRLs for *G. pallida* Pa2/3

11.40 - 12.00

*Valls Marc*

Molecular and genomic insights on potato resistance to bacterial wilt

12.00 - 12.20

*Jacobs Jeanne*

Soft rot resistance in potato lines derived from a somatic hybrid with *Solanum palustre*

12.20 -12.40

*Discussion*

12.40 -14.30

**LUNCH**

**14.30 - 16.00 Session 2 - QUALITY TRAITS**

*Chairpersons: Milbourne Dan, Mosquera Teresa*

14.30 - 15.00

**Keynote Lecture**

*Sliwka Jadwiga*

Most QTL for leaf sucrose content map to positions similar to positions of QTL for tuber starch content in diploid potato

15.00 - 15.20

*Mandolino Giuseppe*

Identification of new alleles for carotenoid biosynthesis and degradation in a collection of potato varieties

15.20 - 15.40

*Diretto Gianfranco*

Metabolic engineering of carotenoids in potato affects ABA metabolism and tuber shelf-life

15.40 - 16.00

*Ngobese Nomali*

Evaluating the yield and tuber quality performance of eight European cultivars in Pietermaritzburg to improve potato production in South Africa

A selection of our  
**Promising varieties**

PRIMARY USE:



**TRADITIONAL**



RODEO



FABULA



FARIDA



FLAMENCO

PRIMARY USE:



SALAD

**RETAIL FRESH**



SYLVANA



PANAMERA



SIFRA



MEMPHIS

PRIMARY USE:



**FRENCH FRIES**



ANNABELLE



PANTHER



MOZART



SUNITA

PRIMARY USE:



**CRISPS**



GIOCONDA



MARILYN



COLOMBA



FORTUS

PRIMARY USE:



**PEELED**



LEONARDO



FELSINA



INNOVATOR



VICTORIA

The **HZPC** Companies



NLD



ESP



PRT



ITA



GBR



CAN



POL



FRA



RUS



FIN



DEU



CHL



ARG



CHN



IND



HERACLEA



TAURUS



CRISPS4ALL



ANNABELLE



SAGITTA



SALINE



CHALLENGER

**16.00 -16.30** **COFFEE BREAK AND POSTER DISPLAY**

**16.30 - 18.20 Session 3 - ABIOTIC STRESSES**

*Chairpersons: Zimnoch-Guzowska Ewa, Jacobs Jeanne*

16.30 - 17.00 **Keynote Lecture**  
*Visser Richard*  
Unraveling drought stress in potato

17.00 - 17.20 *Aversano Riccardo*  
Stress-tolerant *Solanum commersonii*: genome sequence and manipulation

17.20 - 17.40 *Hosang Laura*  
Selection method for salt tolerance in potato

17.40 - 18.00 *Prashar Ankush*  
Sensing the plants: can we detect stress

18.00 - 18.20 *Discussion*

**20:30 DINNER**

**TUESDAY, NOVEMBER 17**

**08.30 - 12.40 Session 4 - DIVERSITY, BREEDING AND SELECTION - 1**

*Chairpersons: Douches David, Van Eck Herman*

08.30 - 09.00 **Keynote Lecture**  
*Lindhout Pim*  
Be aware: diploid hybrid potatoes are coming!

09.00 - 09.30 **Keynote Lecture**  
*Jansky Shelley*  
Progress toward the development of recombinant inbred lines

09.30 - 09.50 *Douches David*  
Progress in diploid potato breeding with self-compatibility

09.50 - 10.10 *Greplová Marie*  
Somatic hybrids in sexual hybridization of potato

10.10 - 10.30 *Smyda-Dajmund Paulina*  
Genetic diversity and composition of *S. x michoacanum* (+) *S. tuberosum* somatic hybrids and 4x *S. x michoacanum* evaluated by Diversity Array Technology and PCR markers

10.30 - 10.50 *Iwama Kazuto*  
Genotypic differences in solar radiation used efficiency intercepted by plant canopy and its relation to early tuber bulking in a CxE diploid potato population

**10.50 - 11.20 COFFEE BREAK AND POSTER DISPLAY**

**Session 4 – DIVERSITY, BREEDING AND SELECTION - 1 (cont.)**

11.20 . 11.40 *Visser Richard*  
Towards durable resistance against *P. infestans*

11.40 - 12.00 *Rogozina Elena*  
New superior parental material developed by pre-breeding from potato collection at the Vavilov Research Institute of Plant Industry (VIR)

12.00 - 12.20 *D'Amelia Vincenzo*  
New insights into the role of anthocyanin duplicated genes in response to cold stress in the potato plant

12.20 - 12.40 *Discussion*

**12.40 - 14.30 LUNCH**





**MICROGEM**  
laboratory research

**DALLA PREPARAZIONE DEL CAMPIONE**

**ALL'ANALISI BIOINFORMATICA DEI DATI**

## **1 Sequencing**

**Sequenziamento Sanger:** Sequenziamento di prodotti di PCR - Sequenziamento di vettori plasmidici - Walking primer

**Next Generation Sequencing:** Sequenziamento de novo di genomi batterici - Caratterizzazione metagenomica di campioni complessi - Rilevazione di patogeni - Identificazione di SNPs - Analisi Epigeniche e di Metilazione - Sequenziamento Whole Genome - Sequenziamento Trascrittoma

## **2 Microarray**

Profili di espressione genica - profili di espressione di miRNA - Interazione proteina /DNA Chip-on-chip - Metilazione del DNA mediante immunoprecipitazione meDIP-chip - Genomica Comparativa CGH

## **3 Oligo Synthesis**

Sintesi di DNA/RNA primers, DNA probes, siRNA

## **4 Protein Expression**

profili di espressione di oltre 900 proteine in un singolo esperimento

## **5 Sample Processing**

Estrazione di DNA/RNA da campioni biologici, RT-PCR, QPCR

**Per informazioni:**  
**Tel: 081 6107431**  
**02 38234211**

**mail: [ml@microgem.it](mailto:ml@microgem.it)**

**14.30 - 16.45 Session 5 – SPECIAL SESSION ON THE OCCASION OF THE  
RETIREMENT OF DR. C. GEBHARDT**

*Chairpersons: Bryan Glenn, Carpato Domenico*

- 14.30 - 15.00 *Salamini Francesco*  
Christiane Gebhardt: what I do remember
- 15.00 - 15.30 *Mosquera Teresa*  
Potato genetic studies in *Solanum tuberosum* group Phureja
- 15.30 - 16.00 *Debener Thomas*  
Transcriptome sequencing as a tool to study the potato wart interaction
- 16.00 - 16.45 *Gebhardt Christiane*  
Molecular diagnostics of complex agronomic traits in tetraploid potato
- 16.45 - 17.15**  
**17.15 - 18.00**  
**20.30**
- COFFEE BREAK AND POSTER DISPLAY**  
**Section Meeting**  
**Social Dinner**

**WEDNESDAY, NOVEMBER 18**

**09.00 - 13.00 Session 6 – DIVERSITY, BREEDING AND SELECTION - 2**

*Chairpersons: Bradeen James, Sliwka Jadwiga*

- 09.00 - 09.30 **Keynote Lecture**  
*Bryan Glenn*  
Analysis of potato traits in crosses and association panels
- 09.30 - 09.50 *Van Eck Herman*  
Haplotype reconstruction in tetraploids using sequence read based alignments
- 09.50 - 10.10 *Lemm Jana*  
A simple approach to score SNP markers in a dosage-dependent fashion in tetraploid potato
- 10.10 - 10.30 *Rodriguez Luis Ernesto*  
Yellow diploid potato breeding through participatory selection for food security in Colombia
- 10.30 - 10.50 *del Rio Alfonso*  
Use of potato genetic diversity to challenge abiotic stresses in the high Andes of Peru
- 10.50 - 11.20**  
**COFFEE BREAK AND POSTER DISPLAY**

**Session 6 – DIVERSITY, BREEDING AND SELECTION - 2 (cont.)**

- 11.20 - 11.40 *Ruiz de Arcaute Roberto*  
Accelerated breeding choosing best parentals for chip quality
- 11.40 - 12.00 *Slater Tony*  
Improving the selection efficiency in potato breeding
- 12.00 - 12.20 *Getahun Baye*  
Assessment of genetic diversity and relationships for agronomic nitrogen use efficiency and related traits in potato (*Solanum tuberosum* L.) under contrasting N regimes
- 12.20 - 12.40 *Young Vanessa*  
James Hutton Limited: The link between molecular marker development and commercialisation
- 12.40 - 13.00 *Discussion and closing ceremony*
- 13.00**  
**LUNCH**

# We transform data into knowledge

## What's your research goal? We can help you to achieve it

Sequentia is a bioinformatics company that supports scientists working on plant genetics. Our services are genomics, transcriptomic, epigenetics, DNA-Protein interactions, custom bioinformatics tools and NGS sequencing.

### Top latest publications

Aversano, R., Contaldi, F., Ercolano, M. R., Grosso, V., Iorizzo, M., Tatino, F., et al. (2015). *The Solanum commersonii Genome Sequence Provides Insights into Adaptation to Stress Conditions and Genome Evolution of Wild Potato Relatives*. *The Plant Cell*, tpc.114.135954-60.

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Takahashi, N., Hirata, Y., Aihara, K., & Mas, P. (2015). *A Hierarchical Multi-oscillator Network Orchestrates the Arabidopsis Circadian System*. *Cell*, 163(1), 148-159.

**Headquarters**  
Barcelona Science Park  
Phone +34 93 010 73 68  
[www.sequentiabiotech.com](http://www.sequentiabiotech.com)

# **ORAL PRESENTATIONS**

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