



#### THE EFFECTS OF POLYAMINE DURING THE POLARIZED CELL GROWTH OF POLLEN TUBE

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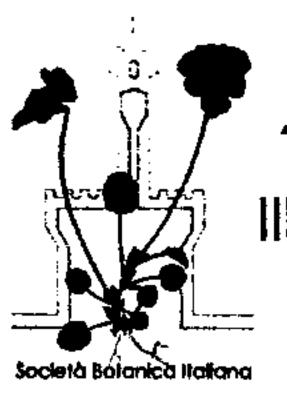
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## 111° Congresso della Società Botanica Italiana onlus III INTERNATIONAL PLANT SCIENCE CONFERENCE (IPSC)

Roma, Tor Vergata, 21 - 23 September 2016

### Programme

#### Wednesday 21 September 2016

8:30-09:30 Registration and welcome cofee 9:30-11:00 Opening Ceremony

#### General Session

(chairpersons A. Canini and C. Siniscalco)

11:00-11:45 • Federica Brandizzi, Michigan State University, USA (40 + 5 min)

Dynamic of secretory membrane traffic in plant cells

11:45-12:30 • Carl Belerkuhnlein, Bayreuth University, Germany (40 + 5 min)
Plant responses to climatic changes - The role of extreme events

12:30-14:00 Lunch

#### Symposium 1

# FILLING GAPS IN SYSTEMATICS AND CONSERVATION OF THE MEDITERRANEAN FLORA: RECENT OUTCOMES AND FUTURE CHALLENGES (chairpersons D. Gargano and L. Peruzzi)

14:00-17:30

- Juan Arroyo, University of Sevilla, Spain (30 + 5 min)
   Using systematics for conservation of biodiversity and underlying ecological and evolutionary processes
- Félix Forest, Royal Botanic Gardens, Kew, UK (30 + 5 min) integrating evolutionary patterns in biodiversity science and conservation

#### Communications

- E. Sullis, G. Bacchetta, D. Cogoni, G. Fenu (12 + 3 min)
  Global and local demographic analysis of Helianthemum caput-fells populations along the western Mediterranean basin
- G. Astuti, L. Peruzzi (12 + 3 min)
  Providing identification tools for a proper conservation of European bladderworts (Utricularia L.)
- **S. Orsenigo**, D. Gargano, C. Montagnani, L. Peruzzi, T. Abell, A. Alessandrini, N.M.G. Ardenghi, G. Astuti, G. Bacchetta, F. Bartolucci, L. Bernardo, M. Bovio, S. Brullo, A. Carta, M. Casteilo, D. Cogoni, F. Conti, G. Domina, G. Fenu, B. Foggi, M. Gennai, R. Gentili, M. Iberite, S. Magrini, G. Nicolella, L. Poggio, F. Prosser, A. Santangelo, A. Selvaggi, I. Vagge, M. Villani, R.P. Wagensommer, T. Wilhalm, C. Blasi, G. Rossi (12+3 min)

  New Red List of the Italian vascular flora: nearing the end
- B. Marazzi, M. Moretti, N. Schönenberger (12 + 3 min)
  What about facultative ant-plant interactions mediated by extraflora nectaries in temperate
  zones? New insights from the southern Alps
- G. Pellegrino, F. Bellusci, A.M. Palermo (12 + 3 min)

  Effect on population structure of pollen flow, clonality rates and reproductive success in fragmented Seraplas lingua populations
- A. Trinco, A. Carta, D. Ciccarelli, M. Ruffini Castiglione, L. Peruzzi, G. Astuti (12 + 3 min)

  Adaptive responses to human impacts in the threatened Webb's hyacinth (Bellevalia webbiana Parl., Asparagaceae)

- T. Abell, S. Orsenigo (12 + 3 min)
  Recognizing the role of ecological studies in plant translocation: review and perspectives
- L. Rosati, E. Farris, S. Fascetti, A. Coppi, F. Selvi (12 + 3 min)
   Phylogenetic affinity and systematic position of the Italian populations of Gymnospermium (Berberidaceae)
- 17:30-18:00 Presentation of the book "Orti botanici, eccellenze Italiane", Ed. Associazione Nuove Direzioni Cittadino e Viaggiatore, Firenze, (M. Clauser, P. Pavone)
- 18:00-19:30 Poster session (Botanic Gardens Tor Vergata University)
- 19:30- 22:00 Welcome Cocktall (Botanic Gardens Tor Vergata University)

#### Thursday 22 September 2016

#### Symposium 2

# Plant CELL Plasticity in GROWTH AND STRESS RESPONSES (chairpersons G. Faiasca and L. Sanità di Toppi)

09:30-13:00

- Aart van Bel, University of Giessen, Germany (30 + 5 mln)
   Phioem as a communication network between locations of emerging stress and sites of response
- Michael Riemann, Karlsruhe institute of Technology, Germany (30 + 5 mln)

  Jasmonate a versatile phytohormone and its functions in the ablotic stress response of rice

#### Communications

- M.C. Sorrentino, F. Capozzi, S. Glordano, V. Spagnuolo (12 + 3 min)
  Genotoxic effects of cadmium and lead in the moss Sphagnum palustre L.
- C. Fagliarone, C. Mosca, C. Verseux, D. Bill (12 + 3 min)
   Oxidative stress response in Chroococcidiopsis sp.
- L. Lombardi, E. De Vita, **A. Andreucci** (12 + 3 mln)
  The Universal Stress Protein of *Populus alba* "Villafranca" clone: preliminary characterization
- L. Bruno, I. Forgione, M. Pacenza, A. Muto, M. Greco, F. Araniti, A. Chiappetta, M. R. Abenavoli, M. Van Lijsbettens, M.B. Bitonti (12 + 3 mln)
   An omics approach to unravel the relationship between methylation status and plant growth plasticity in the drm1drm2cmt3 mutant of Arabidopsis thaliana
- I. Aloisi, **G. Cai**, L. Navazio, S. Del Duca (12 + 3 min)
  The effects of polyamines during polarized cell growth of pollen tubes
- A. Ceci, F. Russo, O. Maggi, C. Riccardi, L. Pierro, M. Pletrangell Papini, M. Cernik, A.M. Persiani (12 + 3 min)
   Stress response and tolerance to hexachlorocyclohexane: soil fungal species isolated from contaminated areas of Italy and Czech Republic and their potential in fungal bioremediation
- S. Novelli, A. Gismondi, L. Canuti, G. Di Marco, A. Canini (12 + 3 mln) Interactions between host plants and pathogens: the case of Xylella fastidiosa
- M. Chialva, A. Salvioli, S. Daghino, P. Bagnaresi, F. Neri, M. Novero, D. Spadaro, S. Perotto, P. Bonfante (12 + 3 mln)
   A next generation approach reveals the impact of soil microbiota on gene and protein profile of tomato
- L. Fattorini, A. Ricci, E. Rolli, F. Brunoni, L. Dramis, E. Sacco, B. Ruffoni, C. Díaz-Sala, M. M. Altamura (12 + 3 min)
- Roles of 1,3-dl(benzo[d]oxazol-5-yl)urea, an urea derivative, in carob and pine cuttings: adventitious rooting versus xylogenesis

#### Symposium 3

#### PLANT BIODIVERSITY AND ECOSYSTEM SERVICES WITHIN URBAN AREAS

(chalrpersons C. Biasl and M. Marchetti)

#### 14:30-18:00

- Francisco Diaz Pineda, Complutense University of Madrid (30 + 5 min)
  Relationship current vegetation and soil uses-socioeconomy around a big metropolis
- **Stefan Zerbe**, Free University of Bozen-Bolzano(30 + 5 min)

  Flora and vegetation in urban ecosystems: services and disservices with particular regard to human health

#### Communications

- F. Manes, F. Marando, E. Salvatori, L. Fusaro, G. Capotorti, C. Blasi (12 + 3 min). Nature-based solutions to improve air quality in metropolitan areas
- E. Roccotiello, K. Perini, L. Cannatà, M.G. Mariotti (12 + 3 min)
  Air pollution mitigation via urban green interactions with particulate matter
- L. Gratani, M.F. Crescente, L. Varone, F. Tarquini, G. Puglielli, R. Catoni, F. Lucchetta, S. Sangiorgio (12 + 3 min)
   Ecosystem services: the role of plants in urban parks
- G. Capotorti, L. Zavattero, B. Mollo, M.M. Alòs Orfi, C. Blasi (12 + 3 min)
  Proposal for an urban green infrastructure in the metropolitan city of Rome
- M. D'Arco, L. Ferroni, M. Speranza (12 + 3 min)
   How important is the choice of plant species for the green roof's cooling effect? Comparison of the behavior of two CAM-facultative species and two C3 species under drought conditions
- M. Salinitro, A. Alessandrini, A. Tassoni (12 + 3 min)
  The spontaneous vascular flora of the city of Bologna and its changes over 120 years
- \$. Ciccarello, F. Scafidi, E. Di Gristina, G. Domina (12 + 3 mln) Study of the allen flora of the urban area of Palermo (Sicily)
- F. Bartoll, L. Traversetti, G. Caneva (12 + 3 min)
   Ecological context of Hedera helix L. In Roman archaeological sites

18:30 Assembly of the Italian Botanical Society (members only)

20:30 Congress social dinner

#### Friday, 23 September 2016

#### Symposium 4

PLANTS: A RICH SOURCE OF HEALTHY COMPOUNDS (chairpersons N. De Tommasi and C. Bicchi)

#### 09:00-12:30

- Hemman Stuppner, University of Innsbruck, Austria (30 + 5 min)
   Identification of novel hit and lead compounds inspired by nature
- Orazio Taglialatela-Scatati, University Federico II, Naples, Italy (30 + 5 min)
   Malaria and plant metabolites: present and future of a long-standing relationship

#### Communications

L. Miletta, D. Russo, I. Faraone, L. Vignola, P.B. Andrade, E.C. Fernandez, N. De Tommasi (12 + 3 min)
 Biological activity and phytochemical profile of genetically different yacon genotypes

- C. Villano, A. Rinaldi, C. Lanzillo, D. Carputo, R. Garramone, R. Aversano (12 + 3 min)
  Metabolic and transcript profiling of phenolics accumulation in Aglianico grape berries
- A. Marengo, A. Maccioni, A. Maxia, C. Bertea, C. Cagliero, C. Sanna, P. Rubiolo (12 + 3 min) Phytochemical and biomolecular analyses of four wild edible Carduus species from Sardinia
- C. Frezza, A. Venditti, F. Maggi, S. Foddai, M. Nicoletti, A. Bianco, M. Serafini (12 + 3 min)
   Study on the evolution of some Lamiaceae based upon phytochemistry
- C. Sanna, M. Scognamiglio, E. Tramontano, M. Mandrone, M. Ballero, A. Maxia, A. Maccioni, A. Marengo, L. D'Aiello, F. Antognoni, F. Poli, A. Fiorentino, F. Esposito (12 + 3 min)
   Hypericum scrugili, a species endemic to Sardinia as a source of potential HIV-1 integrase inhibitors
- F. Conforti, M. Marrelli, M. Nicoletti, F. Menichini (12 + 3 min)
   Capsicum annuum L.: a new source of antioxidant compounds and inhibitors of pancreatic lipase
- G. Certo, D. Forestieri, M.P. Germanò, N. Malafronte, T.M. Bauab, B.V. Bonifácio, K.M. Silveira Negri, L. Perez de Souza, W. Vilegas, A. Rapisarda, N. De Tommasi (12 + 3 min)
   Effects on vivo angiogenesis of extracts from Astronium fraxinifolium Schott and A. urundeuva (Fr. All.) Engl. (Anacardiaceae)
- M. De Leo, D. Dolci, A. Braca, N. De Tommasi, G. Flamini, P.L. Cioni, L. Peruzzi (12 + 3 min)
  A systematic and chemical study of *Polygala flavescens* (Polygalaceae), endemic to Italy

12:30-13:30	Closure Ceremony
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13:30-14:30 Lunch

## Post Congress, open conferences (in parallel)

#### "COMUNICAZIONE E ORTI BOTANICI"

14:30-15:00	R. Braglia, F. Scuderi, E.L. Redi, L. Zanella, F. Imperi, P. Palermo, A. Montoro, A. Canini. (25 + 5 min) Orti Botanici e Comunicazione nell'epoca 4.0
15:00-15:30	G. Rinaldi, F. Zonca (25 + 5 min) Dall'Osmunda alla sicurezza alimentare esercizi di comunicazione da Orto Botanico.

- P. Menegoni, S. Pignatti, R. Guarlno, F. Colucci, M. D'Andrea, V. Inanilli, F. Lecce, A. Paolini, L. Pietrelli, M. Sighicelli, C. Trotta, A. Marotta, E. Redondi, F. Genovese. (25 + 5 min) Comunicare la scienza per conservare la natura: storie da un percorso di ricerca botanica e di comunicazione scientifica.
- 16:00-16:30 Comunicazione (FAI) (25 + 5 min)

(MIPAAF, SBI, SOI, SIGA)

#### LE PIANTE MEDICINALI FRA BOTANICA FARMACEUTICA, AGRONOMIA E GENETICA: LE INTERAZIONI NECESSABLE

	LE PIANTE MEDICINALI FRA BOTANICA FARMACEUTICA, AGRONOMIA E GENETICA: LE INTERAZIONI NECESSARIE
14:40-15:00	Introduzione: le piante medicinali, fra fitochimica, agronomia e genetica
15:00-15:20	Il progetto di fillera sulle piante officinali (MIPAAF)
15:20-15:40	Le principali esperienze agronomiche italiane sulle plante officinali (SOI)
15:40-16:00	Le principali esperienze genetiche italiane sulle piante officinali (SIGA)
16:00-16:20	Le principali esperienze italiane sulle piante officinali (SBI)
16:20-16:35	Comunicazione breve (12 + 3 m) (SOI)
16:35-16:50	Comunicazione breve (12 + 3 m) (SIGA)
16:50-17:05	Comunicazione breve (12 + 3 m) (SBI)
17:05-17:30	Tavola rotonda: Prospettive di collaborazione scientifiche nel settore delle piante officinali