Tuesday 2 September 2014

13:00-19:00  Registration
14:00-15:00  Opening Ceremony

Keynote lecture

15:00-15:30
- Chiara Tonelli, Milano IT (ERC Representative)
  (title to be announced)

(Topic I) Global Change, Biodiversity and Adaptation

Plant responses to climate change
(Symposium I)

15:30-19:00
- Giampiero Maracchi, Firenze IT (20 + 5 min)
  Climate changes and scenarios
- Terry Callaghan, Sheffield UK (20 + 5 min)
  Ecosystem change or stability and multiple causes
- F. Stuart Chapin III, Fairbanks USA (20 + 5 min)
  Ecosystem stewardship: sustainability strategies for a rapidly changing planet

Communications

- Simon Pierce
  Understanding the response of plant biodiversity to environmental perturbation using Grime’s CSR theory
- Consolata Siniscalco
  Phenological analysis provides insights on the spatial distribution and on response to snowmelt of plant functional types in subalpine grassland
- Michele Dalle Fratte
  Relationships between climate and phenology of high elevation plants. A 7-years snow and phenology monitoring in the Italian Central Alps
- Luca Bragazza
  Persistent extreme climatic events reduce carbon accumulation in peatlands: mechanisms and quantification
- Andrea Mondoni
  Effects of climate change on seed germination and recruitment success of alpine plants
Giovanna Aronne  
From cold mountains to warm coastal cliffs: insights for the future of a Primula species

Francesco Malfasi  
Long-term vegetation dynamic in relation to climate change in the Italian Central Alps

Wednesday 3 September 2014

(Topic I) Global Change, Biodiversity and Adaptation

09:00-10:00

- Giovanni Vendramin, Firenze IT (20 + 5 min)  
  Molecular markers, population genomics and adaptation to climate change of forest tree species

- Sandy Knapp, London UK (20 + 5 min)  
  Botanical collections for understanding environmental change

(Topic II) Plant and Cell Biology

10:00-13:00

- Donato Chiatante, Varese IT (20 + 5 min)  
  Development of the hidden half: primary and secondary roots

- Silvia Coimbra, Oporto PT (20 + 5 min)  
  AGPs cross-talk in Arabidopsis pollen-pistil interaction

- Fabio Fornara, Milano IT (20 + 5 min)  
  Network controlling seasonal flowering in rice

Communications

- Stefano Del Duca  
  Factors involved in pollen tube growth and their importance in allergic sensitization

- Alessandro Manzo  
  Characterization of volatile emission of Italian populations of orchids with different reproductive strategies

- Maria Adele Signorini  
  Investigations on Oxalis pes-caprae in Italy. Morphological, anatomical and ultrastructural features of stigma and style and their possible relations with self-incompatibility

- Giampiero Cai  
  Effects of acute heat stress on the female reproductive apparatus of Lycopersicon esculentum cv micro-tom

- Livio Trainotti  
  A golven-like peptide at the crossroad between auxin and ethylene during peach ripening

- Simona Masiero  
  Transcriptional regulation of egg cell specific genes in Arabidopsis thaliana
13:00-14:00 Lunch

(Topic II) Plant and Cell Biology

Plant cell dynamics and plasticity
(Symposium 2)

14.00-17.00

- **Chris Hawes**, Oxford UK (20 + 5 min)
  Shaping the endoplasmic reticulum
- **Alessandro Vitale**, Milano IT (20 + 5 min)
  Endoplasmic reticulum as protein storage compartment

Communications

- **Simone Sello**
  Integration of plastids in the plant calcium signaling network revealed by the targeting of aequorin chimeras to chloroplast subcompartments
- **Giacomo Bartoli**
  Apoptotic hallmarks support the role of PCD in aerenchyma ontogenesis of *Egeria densa* Stem
- **Daniele Nocentini**
  Diversity of floral nectar composition in the tribe *Lithospermeae* (Boraginaceae)
- **Marco Mucciarelli**
  In vitro morphogenesis of *Arabidopsis* to search for novel endophytic fungi modulating plant growth
- **Andrea Andreucci**
  In vitro functional characterization of AQUA1: a new poplar (*Populus x eurameriana* clone I-214) aquaporin involved in zinc stress
- **Antonio Slaviero**
  The use of ligninase enzymes to target the scarification of the seed coat: application for the propagation of the orchids *Himantoglossum adriaticum* and *Anancamptis morio*

17.00-19.00 Meeting of SBI Working Groups

Thursday 4 September 2014

(Topic III) Biotechnology and Natural Resources

Plant biotechnology for agriculture and environment
(Symposium 1)

09:00-11:00

- **Michele Morgante**, Udine IT (20 + 5 min)
  From one to the many genomes of a plant: the evolution of the grapevine pan-genome
- **Graziella Berta**, Alessandria IT (20 + 5 min)
  Reclamation of polluted or disturbed sites by revegetation and use of beneficial microrganisms
• Robert Verpoorte, Leiden NE (20 + 5 min)
  Metabolomic and Botany

Communications
• Monica Ruffini Castiglione
  *Vicia faba*: a model organism for plant cell biology studies assessing environmental pollution and bioremediation processes
• Elisabetta Sgarbi
  In vitro propagation of *Quercus robur* by plant form bioreactor

(20 + 5 min)

(Topic III) Biotechnology and Natural Resources

**Bioactive natural resources**

(Symposium 2)

11:00-13:30

• Nunziatina de Tommasi, Salerno IT (20 + 5 min)
  Plant chemical diversity in target identification and drug discovery

Communications
• Barbara Sgorbini
  Aromatic plants: from the aroma to herbal teas
• Giacomo Mele
  Secreted material and antimicrobial activity of *Salvia cacaliaefolia*
• Alessandra Guerrini
  HP-TLC bioautographyc assay as a preliminary research tool to match chemical and biological properties of official plant extracts
• Cinzia Sanna
  Preliminary study of endemic plants of Sardinia as a source of new antiviral agents
• Filomena Conforti
  *Origanum vulgare* subsp. *viridulum*: a phytoalimurgic plant with inhibitory against human cancer cell proliferation
• Alessandra Braca
  Flavonoids and phenylpropanoids form *Phlomis kurdica* (Lamiaceae) as inhibitors of lactate dehydrogenase
• Giovanna Certo
  *Entada africana* (Mimosaceae) as a source of skin whitening agents
• Manuela Mandrone
  Phytochemical profile and biological activities evaluation of three species of *Hypericum*

13:30-14:30 Lunch

14.30-18.00 General Assembly of SBI members and other related celebrations

20.00 Social Dinner (Botanical Garden “Giardino dei Semplici” - Via Lamarmora, 2)
Session 1

(Topic IV) Landscape and Biogeography

Vegetation and Ecology
(Symposium 1)

9:00-11:00

- Carlo Blasi, Roma IT (20 + 5 min)
  Mapping and assessment of ecosystems in Italy: the contribution of modern vegetation science
- Frank Berendse, Wageningen NE (20 + 5 min)
  Ecosystem functions and the mechanisms that control the species diversity in plant communities

Communications

- Anna Maria Mercuri
  Palynology applied to the study of climate change and human impact: pollen from archaeological sites as tool for the assessment of long-term local impact and human induced environments
- Lara Reale
  Reed-beds decline: new occurrences of a dramatic threat to biodiversity in Central Italy
- Anna Guglielmo
  Diacronic landscape changes: a case study on SE Sicily salt marshes
- Sabina Burrascano
  A dynamic key to integrate grassland and forest sustainable management in a global change perspective

(Topic IV) Landscape and Biogeography

Biogeography and Taxonomy
(Symposium 2)

11:00-13:00

- Elena Conti, Zürich CH (20+ 5 min)
  Diversification in Primulaceae s.s.: elucidating the roles of breeding systems and climatic cycles in evolutionary dynamics at different temporal and geographic scales
- Federico Selvi, Firenze IT (20 + 5 min)
  The family Boraginaceae: deep phylogeny, character evolution and still open taxonomic problems

Communications

- Lorenzo Peruzzi
  Recent advances in evolution and taxonomy of Liliaceae
- Flavia Domizia Nardi
  Traditional and molecular cytogenetic characterization of Solidago (Asteraceae) in Italy
• Assunta Esposito
  Analysis of *Olea europaea* subsp. *europaea* biodiversity from Cilento, Vallo di Diano and Alburni National Park

**Session 2**
*(Topic V) Historic Gardens and Vegetation*

9:00-11:00

• **Luigi Zangheri**, Firenze IT (20 + 5 min)
  Trees and the cultural landscapes of World Heritage List

• **Massimo De Vico Fallani**, Roma IT (20 + 5 min)
  Trees of archaeological parks. History and types

• **Francesco Ferrini**, Firenze IT (20 + 5 min)
  “Historic gardens ecosystems”: can one provide public use and maintain the ecological balance?

**Communications**

• **Paola Capone**, Salerno IT (10 + 5 min)
  From Salerno’s Minerva Garden to the illuminated herbarium of the Circa instans: a path with no boundaries

• **Maria Chiara Pozzana**, Firenze IT
  Presentation of “Giardino Bardini” and its restoring

11:00-13:00  **Visit to “Giardino Bardini”**

14:30-18:00  **Visit to “Giardino di Boboli”** (World Heritage List)
  **Meeting point “Entrata Annalena”** (Via Romana, 37)