On the occasion of the 150th anniversary of the birth of Carlotta Strampelli, countess Parisani (1868-1926), wife and collaborator of Nazareno Strampelli, the Accademia Nazionale delle Scienze detta dei XL and ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development) have launched the first edition of the Carlotta Award, in recognition of the significant contribution of women scientists to the advancement of knowledge in the field of wheat genetics and breeding research. The Carlotta Award 2018 is assigned by an International Jury composed by Hélène Bergès, Paola Bonfante, Emilia Chiancone, Kellye Eversole, Patrizia Galeffi, Wendy Harwood, Elisabetta Lupotto, Stefania Masci, Monica Mezzalama, Conxita Royo.

The Wheats & Women International Conference aims to present and share the latest research experiences, new approaches and technologies in wheat research. Wheat varieties are going to face increasing challenges, including climate changes, production must be economically and ecologically sustainable, harvest must be safe and possess nutritional and technological qualities. The Wheats & Women International Conference provides the ideal framework for the first edition of the Carlotta Award.

**Scientific Committee:** Amedeo Alpi, Paola Bonfante, Emilia Chiancone, Patrizia Galeffi, Simon Griffiths, Peter Langridge, Marina Carcea, Enrico Porceddu, Matthew Reynolds, Conxita Royo, Roberto Tuberosa.

**Organizing Secretariat:**
Accademia Nazionale delle Scienze detta dei XL
Via L. Spallanzani 7 00161 Rome Italy
wheatsandwomen@accademialxl.it
www.wheatswomen-carlotta2018.com
Thursday, June 14th

9.00: Welcome addresses
EMILIA CHIANCONE
President, Italian National Academy of Sciences
ALDO CERIOTTI
Director, IBBA, Italian National Research Council
MASSIMO IANNOTTA
Head of Biotechnologies and Agroindustry Division, ENEA, IT
ANDREAS BOERNER
President Designate, EUCARPIA

10.00 Opening lecture
The Wheat Initiative and its role in coordinating global wheat research
ALISA-NAOMI SIEBER, JKI, DE

10.30 – 10.50 Coffee break

Session 1: Breakthrough discoveries that will shape research on wheat
Chairpersons: PATRIZIA GALEFFI, MICHELE MORGANTE

10.50 – 11.30 The reference sequence of wheat and IWGSC phase II: ensuring a full genomics toolbox for wheat
HÉLÈNE BERGÈS, International Wheat Genome Sequencing Consortium

11.30 – 12.10 Genome engineering in wheat - from GM to gene editing
WENDY HARWOOD, John Innes Centre, UK

11.50 – 12.05 Coffee break

12.05 – 12.20 The durum wheat genome reveals the signature of 10,000 years of selection
LUIGI CATTIVELLI, Genomics Research Centre, Council for Agricultural Research and Economics, IT

12.20 – 12.35 Genome size reduction following allopolyploidization events in wheat
INBAR BARIAH, Ben-Gurion University, IL

13.05 – 14.30 LUNCH BREAK

Programme

3: Improving wheat quality for processing, health and nutritional value
Chairpersons: EMANUELE MARCONI, STEFANIA MASCI

10.00 – 10.40 Plant genetic resources for improving wheat quality
ANDREAS BOERNER, IPK Gatersleben, DE

10.40 – 11.20 The nutritional value of the Triticum species
MARINA CARCEA, Council for Agricultural Research and Economics, IT

11.20 – 11.50 Coffee break

11.50 – 12.05 Breeding and quality of soft-textured durum wheat
LAURA GAZZA, Council for Agricultural Research and Economics, IT

12.05 – 12.20 Comparative physiological response of winter wheat varieties under Fhb stress
VALENTINA SPANIC, Agricultural Institute Osijek, HR

12.20 – 12.35 The carotenoid biosynthetic and catabolic genes in wheat and association with yellow pigments
PASQUALINA COLASCONNO, University of Bari “Aldo Moro”, IT

Friday, June 15th

Session 3: Improving wheat quality for processing, health and nutritional value
Chairpersons: EMANUELE MARCONI, STEFANIA MASCI

10.00 – 10.40 Plant genetic resources for improving wheat quality
ANDREAS BOERNER, IPK Gatersleben, DE

10.40 – 11.20 The nutritional value of the Triticum species
MARINA CARCEA, Council for Agricultural Research and Economics, IT

11.20 – 11.50 Coffee break

11.50 – 12.05 Breeding and quality of soft-textured durum wheat
LAURA GAZZA, Council for Agricultural Research and Economics, IT

12.05 – 12.20 Comparative physiological response of winter wheat varieties under Fhb stress
VALENTINA SPANIC, Agricultural Institute Osijek, HR

12.20 – 12.35 The carotenoid biosynthetic and catabolic genes in wheat and association with yellow pigments
PASQUALINA COLASCONNO, University of Bari “Aldo Moro”, IT

12.35 – 14.00 LUNCH BREAK

Session 4: Agriculture and 2030 Agenda (the future of farming)
Chairpersons: HÉLÈNE BERGÈS, ENRICO PORCEDDU

14.00 – 14.15 Genetic study of Fusarium Head Blight (FHB) resistance in durum wheat
ANGELICA GIANCASPRO, University of Bari “Aldo Moro”, IT

14.15 – 14.55 Towards sustainable food and agriculture systems
ANDREA SONNINO, Biotechnologies and Agroindustry Division, ENEA, IT

14.55 – 15.35 Market-Based value chains and farming technologies
ROBERTO RANIERI, Openfields, IT

15.35 – 15.50 Boosting a healthier agriculture: identification of resistance genes for durum wheat cultivars more resistant to rust diseases
ANNA MARIA MASTRANGELO, Council for Agricultural Research and Economics, IT

15.50 – 16.05 Polymorphisms in the A and B genome copies of the DRF1 gene are able to cluster a collection of durum wheat lines
CRISTINA CANTALE, Biotechnologies and Agroindustry Division, ENEA, IT

16.10 – 17.10 Carlotta Award 2018
Emilia Chiancone, President, Italian National Academy of Sciences
Roberto Lorenzetti, Director, Rieti State Archives, MiBACT
A Representative of the Carlotta Parisani Strampelli family will award the prize

Winner talk
Wheat genomics and immunity
KSENIA KRASILEVA, Norwich Research Park, UK

17.10 Conclusions