




XL SICA Congress

CONCILIATING SUSTAINABILITY, RESILIENCE, AND FOOD QUALITY

*New challenges for a
2030 agriculture*

5-7 September 2022 

Department of Agriculture, Food and Environment
(University of Pisa)
Pisa, Italy 

 sica.2022@agr.unipi.it

 <https://sica2022.azuleon.org>



Welcome to the XL SICA Congress

On behalf of the Italian Society of Agricultural Chemistry (SICA) we are delighted to invite you to the XL annual meeting, entitled **Conciliating sUstaiNability, resilience, and Food qualityY: new challenges for a 2030 agriculture (UNIFY)**.

**The meeting will be held on the 5-7 September 2022
at the Department of Agriculture, Food and Environment
(University of Pisa)**

The meeting offers the unique opportunity to reconcile basic and applied research in the fields of plant biochemistry, soil and environmental sciences with a wide-spectrum approach of integration and collaboration to propose new solutions to the problems raised by modern agriculture.

The scientific programme is structured in three sessions that cover the issues related to the soil/plant/environment system following a transversal, multidisciplinary and integrative approach, with the point of view and heritage of senior keynote speakers who have contributed to the scientific and cultural development of our society. Younger researchers will bring their contribution aimed at constructively feeding the scientific debate to propose real solutions to concrete problems.

With these aims, "UNIFY" proposes to amalgamate the three main research fields that have distinguished our Society through a generational harmonization, both essential aspects of a modern research in agriculture.

The intense scientific programme does not preclude the possibility to enjoy the artistic, landscape and historical heritage of the monumental city of Pisa, with its leaning tower known all over the world and the medieval wall walk, a journey through the history and a vantage point for spectacular views across the city.

The organizing committee
The Agricultural Chemistry Group



* You can refer to the activities suggested in the dedicated [web page](#).

Programme

Tuesday 06 September, 08:30 – 17:30

08:30 – 09:30

Registration



Session 2

Chairs: Dr. Begoña Miras-Moreno and Dr. Fabrizio Araniti

Advances in plant responses to environmental change and food quality improvement

09:00 – 09:45

Keynote lecture - Prof. Roberto Pinton (*Università degli Studi di Udine*)

Challenges in plant nutrition research for food quality and security

09:45 – 10:00

P. Ganugi, A. Fiorini, F. Ardeni, T. Caffi, P. Bonini, E. Taskin, E. Puglisi, V. Tabaglio, M. Trevisan, L. Lucini

Nitrogen use efficiency, rhizosphere bacterial community, and root metabolome reprogramming due to maize seed treatment with microbial biostimulants

10:00 – 10:15

M. Alzate, S. Monterisi, Y. Rouphael, G. Colla, L. Lucini, S. Cesco, Y. Pii

Plant-derived biostimulants differentially mitigate salinity stress in lettuce and tomato plants

10:15 – 10:30

F. Fragalà, I. Puglisi, E. La Bella, E. Padoan, E. Montoneri, A. Baglieri

Biobased biopolymers derived from municipal biowaste: agricultural applications

Coffee break and poster viewing

11:30 – 11:45

M. Brecchia, E. Buscaroli, I. Braschi

Effect of seasonality, mycorrhization and clinoptilolite applications on Trace Elements (TE) uptake by melon plants

11:45 – 12:00

L. B. Ebinezer, I. Battisti, N. Sharma, L. Ravazzolo, L. Ravi, A. R. Trentin, G. Barion, A. Panozzo, S. Dall'Acqua, T. Vamerali, S. Quaggiotti, G. Arrigoni, A. Masi

Perfluorinated alkyl substances induced changes in physiology and root proteome of hydroponically grown maize plants

12:00 – 12:15

C. Muratore, F. Araniti, L. Espen, B. Prinsi

Comparison of physiological, biochemical and proteomic responses to nitrate or amino acids availability in maize

12:15 – 12:30

I. Allegretta, G. Squeo, C.E. Gattullo, C. Porfido, F. Caponio, S. Cesco, C. Nicoletto, R. Terzano

TXRF spectral information enhanced by multivariate analysis: a new strategy for food and seed traceability

12:30 – 12:45

L. Ruggiero, C. Amalfitano, N. Dalal, E. Guerrera, P. Adamo

Non-destructive determination of quality properties of "Pomodoro del Piennolo del Vesuvio PDO" tomato using Near Infrared Spectroscopy combined with chemometrics

Lunch break

14:30 – 15:00

Award ceremony for the best Ph.D. theses and publications

15:00 – 17:00

SICA Plenary session

17:00 – 19:30

*Cultural activities **

20:30

Social dinner

** You can refer to the activities suggested in the dedicated [web page](#).*



Programme

Wednesday 07 September, 08:30 – 15:30

08:30 – 09:30 | Registration



Session 3

Chairs: Prof. Daniela Pezzolla and Prof. Vito Armando Laudicina

Strategies for improving soil management and quality in sustainable agriculture

09:00 – 09:45

Keynote lecture - Prof. Maria Antonietta Rao – (Università degli Studi di Napoli)
Agricultural soil management: the delicate balance between sustainable practices and food security

09:45 – 10:00

L. Maretto, S. Deb, S. Ravi, M. C. Della Lucia, G. Campagna, A. Squartini, S. Nardi, G. Concheri, P. Stevanato

Microbiome profiling of soils under long-term conventional and organic management

10:00 – 10:15

S. Paliaga, V.A. Laudicina, L. Badalucco

A high CO₂ pressure-based method for soil microbial cells disruption

10:15 – 10:30

A. Ciurli, G. Di Biase, S. Rapisarda, C. Ciavatta & L. Cavani

Evaluation of agronomic quality and impact on soil fertility of fertilizers from beef slaughterhouse biogas digested sludge

Coffee break and poster viewing

11:30 – 11:45

S. Martinengo, M. Schiavon, V. Santoro, D. Said-Pullicino, L. Celi, M. Martin

Soil-plant interactions governing phosphorus availability in paddy soils

11:45 – 12:00

G. Galluzzi, C. Plaza, B. Giannetta, S. Priori, C. Zaccane

Soil organic carbon sequestration and dynamics along two climo-chronosequences

12:00– 12:15

M. Mazzon, P. Gioacchini, D. Montecchio, C. Ciavatta, C. Marzadori

Shift from perennial to annual crops: the fate of the sequestered soil carbon in a long-term field experiment

12:15 – 12:30

A. Giordano, E. Padoan, F. Ajmone Marsan, M. Malandrino

Geochemical patterns and contamination aspects of rare earth elements (REEs) in soils of Northwestern Italy

12:30– 12:45

M. Verrillo, G. Rossi, S. Cangemi, F. Scognamiglio, R. Spaccini

Methods of Soil Organic Matter analysis in forest soils: LIMCHEME project

Lunch break

14:30 – 15:00

Award for the best poster and oral presentations

15:00 – 15:30

Closing workshop



Registration

To participate in the SICA 2022 meeting attendees will be required to register and activate their personal account through the online platform available on the website **<https://sica2022.azuleon.org>**. Using the provided credentials, participants can access the reserved area, where they can register for the meeting and submit their abstracts.

- Through the reserved personal area on the website, participants will also be able to:
- submit and edit their abstract(s) at any time (until the submission deadline)
 - download the Certificate of Attendance
 - download the Book of Abstracts

Registration fees

	Standard fee (deadline: 26 August)
SICA members	400 €
Non SICA members	450 €
Students*	250 €
Accompanying persons **	250 €
Agronomists ***	100 € ***

* Bachelor’s, Master’s, and Ph.D. students, as well as post-doc and research fellows. Their supervisors must confirm their student status as indicated in the reserved area during registration.

** The accompanying person should not register through the website, but they should contact the organizers (sica.2022@agr.unipi.it) and the secretary (stefania.lazzeri@unipi.it) for instructions.

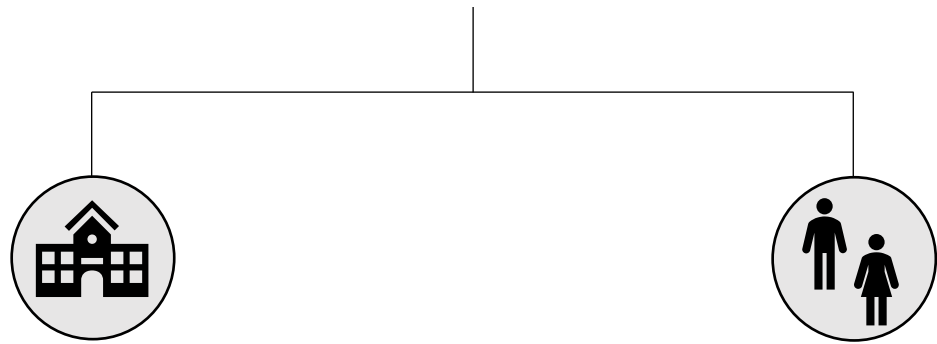
***Agronomists are warmly welcome! Therefore, we have foreseen a 100 euros registration fee per day (social dinner excluded) for those who want to participate in the congress to get formative credits. The day(s) they intend to attend the congress must be communicated to the organizers via email after registration.

The registration fee includes the access to the 3-days congress, the participant kit, meals and coffee breaks at the Congress venue, and the social dinner.



Payment

Early and standard fees can be paid exclusively through one of the following two methods:



For public entities

For private entities and persons
(not employees of public entities)

Employees of public bodies can only register by sending an order form to scienteagrarie@pec.unipi.it, and payment must be made ON RECEIPT of the electronic invoice.
The bank details will be visible in the mySICA reserved area.

Payment must be made via PagoPA system (the participant must request the payment notice from stefania.lazzeri@unipi.it). In the email, please indicate:

- Name e Surname
- Date and place of birth, or Organisation
- Fiscal code
- Address
- Email address

Beneficiary

Dipartimento di Scienze Agrarie, Alimentari e Agro-Ambientali Ente 601
Via del Borghetto n. 81 56126 Pisa
Codice Fiscale 80003670504
Partita IVA 00286820501
Codice IPA Ufficio JJUBC8

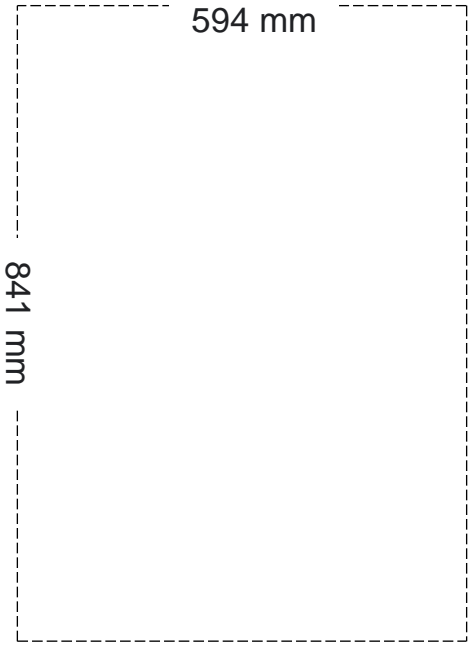


Poster preparation

The posters should be prepared according to the dimensions below.

Feel free to contact the organizers through the email address **sica.2022@agr.unipi.it** for further information.

A1 format



Posters dimensions



Congress Venue

The XL Sica Congress will be held at the

**Department of Agriculture, Food and Environment
UNIVERSITY OF PISA**

<https://www.agr.unipi.it/>

Via del Borghetto, 55124 PISA (PI) - Italy



Accomodation – Hotels



PISA TOWER PLAZA
★★★★★
Via Caduti del Lavoro 46, 56122 Pisa
info@pisatowerplaza.com

HOTEL REPUBBLICA MARINARA

discount for
conference participants!

★★★★★
Via Matteucci 81, 56124 Pisa
info@hotelrm.it



HOTEL NH PISA
★★★★★
Piazza Stazione 2, 56125 Pisa
nhpisa@nh-hotels.com

HOTEL ALESSANDRO DELLA SPINA

★★★★★
Via A. Della Spina 2, 56125 Pisa
info@hoteldellaspina.it



HOTEL NOVECENTO
★★★★★
Via Roma 37 56126, Pisa
info@hotelnovecento.pisa.it

discount for
conference participants!



Accomodation – B&B



B&B DI CAMILLA

Via S. Francesco 45, 56127 Pisa
info@bbdicamilla.it

RINASCIMENTO BED & BREAKFAST

discount for
conference participants!

Piazza Donati 13, 56126 Pisa
info@rinascimentopisa.it



FIVE ROSES BED & BREAKFAST

Corso Italia 156, 56125 Pisa
info@fiveroses.it

RELAIS DEI MERCANTI B&B AND SUITES

discount for
conference participants!

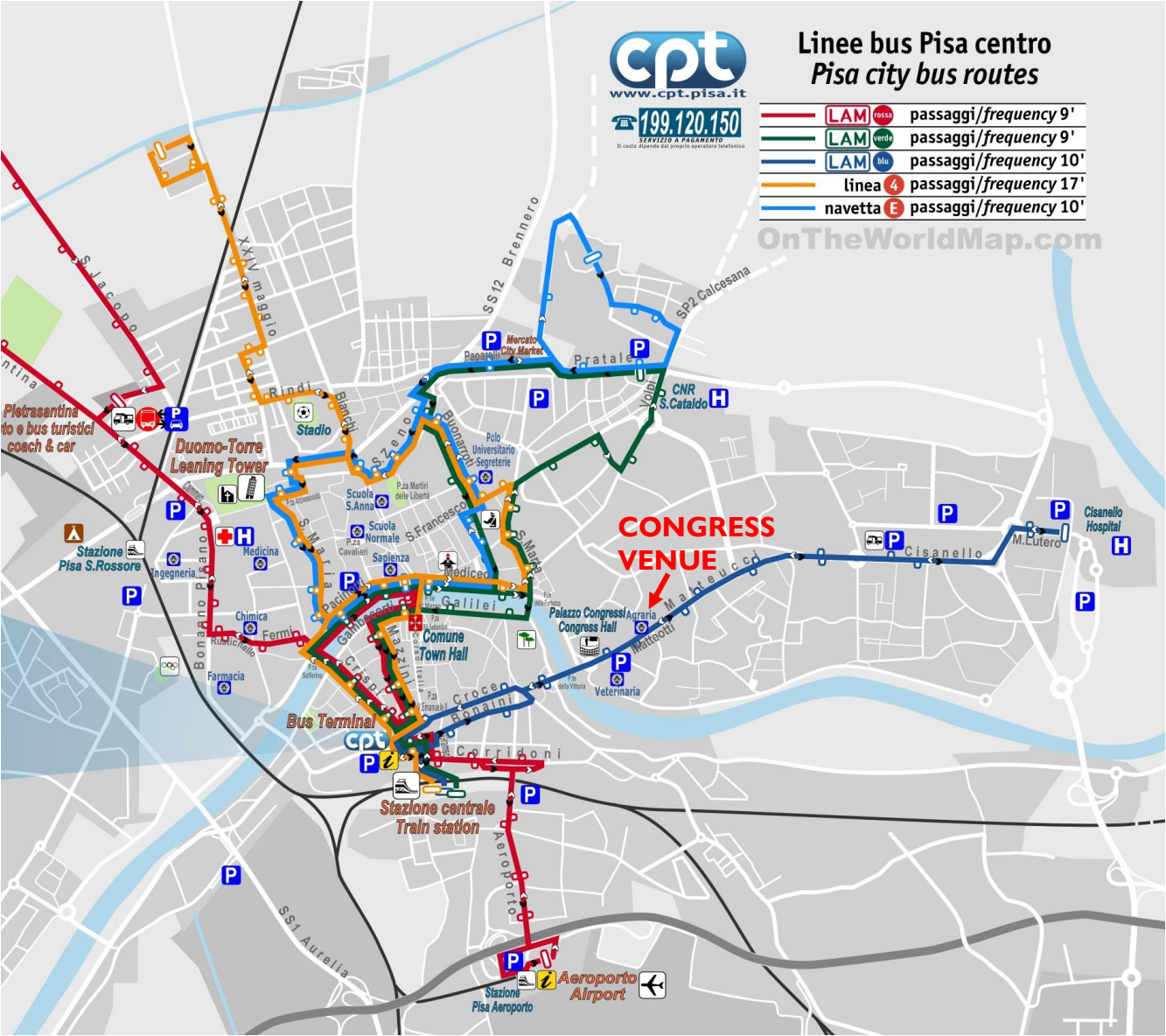
Piazza Sant'omobono 16, 56126 Pisa
relaisdeimercanti@gmail.com



Urban transports

Please take care of your accommodation as early as possible (end of the holiday season!). Consider the transport possibilities from your hotel to the congress venue! You can find the routes and timetables at the following link:

https://www.at-bus.it/it/orari.html#modTimetables_collapseUrbanLine



Cultural activities

Famed for a leaning tower, the Tuscan city of Pisa is one of Italy’s most visited cities. Be inspired by our proposals to discover what the city on the river Arno has to offer!

More info on the Congress webpage.



The botanic garden



The “Palazzo Blu” Museum



The exhibition of “Le Navi Antiche di Pisa”, in the Medicean Arsenal



The National Museum of San Matteo

And don’t miss the tour on Pisa's Medieval Walls!

The walkway of the Pisa’s Walls, with its 11 meters high, gives to the public the possibility to observe the city from an original perspective. A pleasant walk to admire from above the typical Pisan overview, from Piazza dei Miracoli to Piazzetta Del Rosso.



Social dinner

The Social Dinner will take place on **Tuesday September 6th at 20:30** in the historical restaurant **Le Arcate**, inside the prestigious location of **Villa Poschi**.

The organizing committee will provide the buses for the transport of the participants to the location!
Further details will be given during the congress.



Villa Poschi
 RELAIS & RISTORANTE

Via Statale Abetone, 212, 56017,
 San Giuliano Terme, PISA (PI), Italy

<https://www.relaisvillaposchi.it/>

The restaurant Le Arcate is located in the beautiful countryside that separates Lucca from Pisa towards the Serchio river. Here you can taste the typical Tuscan dishes, surrounded by the frescoed walls of the enchanting Villa Poschi.



ORGANIZING COMMITTEE



Roberto Cardelli
Antonella Castagna
Lucia Guidi
Marco Landi
Beatrice Pezzarossa
Mike Frank Quartacci
Annamaria Ranieri
Marco Santin

Michelangelo Becagli
Costanza Ceccanti
Giulia Lauria
Alessia Mannucci
Maria Calogera Sciampagna



SCIENTIFIC COMMITTEE

Fabrizio Araniti
Roberto Cardelli
Antonella Castagna
Luisella Celi
Stefano Cesco
Concetta Eliana Gattullo

Giovanni Gigliotti
Lucia Guidi
Marco Landi
Vito Armando Laudicina
Begoña Miras-Moreno
Beatrice Pezzarossa

Daniela Pezzolla
Youry Pii
Mike Frank Quartacci
Annamaria Ranieri
Marco Santin

SPONSORED BY



Photo credits: www.unsplash.com; www.pixabay.com; www.pexels.com
Layout by: Marco Santin

