

CONVEGNO AISAM 2024

Mercoledì 16 ottobre 2024

18.00-19.30 Welcome e registrazione dei partecipanti - Biblioteca delle Oblate, via dell'Oriuolo 24

Giovedì 17 ottobre 2024

Aula Magna del Rettorato, Piazza san Marco 4

08.30 Registrazione dei partecipanti

09.00 Saluti e apertura dei lavori

09.15 Keynote lecture

Vitor Vasconcelos, University of Porto

Cyanobacteria secondary metabolites and one health

10.00 PRIMA SESSIONE

Bioactivity

Martelli F. (Parma)

*Exploring bioactivities of lactic acid fermented *Arthrospira platensis* and its application in functional beverages*

Ljumovic K. (Verona)

*Effect of *Chlorella vulgaris* on growth characteristics of Basil (*Ocimum basilicum*) in hydroponics*

Savio S. (Roma)

*Protective effect of *Cylindrotheca closterium* extract against *Botrytis cinerea* infection in crop plants*

Santini G. (Firenze)

*Evaluation of biostimulant and biocidal activities of four *Nostoc* strains and perspective of exploitation in green agriculture*

11.00 Pausa caffè e sessione poster

11.30 PRIMA SESSIONE – Proseguimento

Battagini E. (Verona)

*dsRNA production in cyanobacteria and microalgae for biocontrol of invasive species *Popillia Japonica**

Rugnini L. (Roma)

Cyanobacteria isolated from biocrust as a promising biostimulant and mitigator of abiotic stress

Giustino E. (Napoli)

*Unlocking the antiadipogenic potential of carotenoids from *Galdieria Phlegrea**

Sansone C. (Napoli)

The marine xanthophyll diatoxanthin as ferroptosis-inducer in breast cancer cells

Lauritano C. (Napoli)

*Identification of transcripts involved in the synthesis of anti-cancer compounds in the diatom *Cylindrotheca closterium**

12.45 **Pranzo - Orto Botanico "Giardino dei Semplici", via Pier Antonio Micheli 3**

14.30 **Keynote lecture**

Irene Nuin, EFSA

Safety assessment of microalgae as Novel Food

15.00 **SESSIONE AZIENDE – Chair Dr Gianluca Fenaroli**

Gianluca Fenaroli, *Attività del Comitato Industriale di AISAM*

15.15 **Pitch di presentazione delle aziende associate ad AISAM**

A&A Fratelli Parodi

Algaria

AlGreen

Biosyntex

e-Loop

Fotosintetica & Microbiologica

Micoperi Blue Growth

Originy

SQM Europe

16.00 **Pausa caffè e sessione poster**

16.30 **SECONDA SESSIONE**

Wastewater treatment and CO₂ biofixation

Francavilla M. (Foggia)

Chemical conversion of digestate into culture medium for the production of microalgae biomass (on a pilot scale) to be converted into biofuels/bioproducts through microwave-assisted hydrothermal liquefaction (HTL)

Ciani M. (Firenze)

Investigating the interaction of copper, nickel, and zinc with EPS-producing cyanobacteria adopted as biosorbents

Mazzocchi E. (Torino)

Sustainable process development: assessment of biomass accumulation and growth rate of Chlorella sorokiniana on industrial wastewater

Lanfranchi A. (Salerno)

Growth of C. vulgaris on winery waste dark fermentation effluent: preliminary assessment of the process

Pugliese A. (Firenze)

Coltivazione del cianobatterio Synechocystis PCC 6803 su acqua di mare e su acque reflue finalizzata alla produzione di bio-idrogeno: Progressi e Sfide

Passalacqua E. (Milano bicocca)

Optimisation of anaerobic digestion using microalgal-based iron nanoparticles

Palandri E./ Buson V. (Trieste / Padova)

Calcifying marine microalgae (coccolithophores) in the carbon capture usage and storage (CCUS)

18.15 **Chiusura dei lavori**

20.00 **Cena sociale – Ristorante SimBIOsi, via de' Ginori 58r/60r**

Venerdì 18 ottobre 2024

Aula Magna del Rettorato, Piazza san Marco 4

09.00 **TERZA SESSIONE**

Physiology and cultivation

Gasparotto E. (Verona)

Engineering of the recently-discovered Synechococcus PCC 11901, a fast-growing cyanobacteria, for the synthesis of high added-value carotenoid

Brunet C. (Napoli)

Light as cell metabolism designer in the diatom Odontella aurita

Usai G. (Torino)

The light intensity modulates 2-phenylethanol biosynthesis and carbon allocation in metabolically engineered cyanobacteria

Torrisi A. (Padova)

Combined effect of light and temperature in high frequency pulsed light regimes on Acutodesmus obliquus

Marra L. (Napoli)

Continuous autotrophic cultivation of Galdieria sulphuraria: assessment of photon flow regimes and CO₂ on productivity of biomass and metabolite

Riggio V.A. (Torino)

Design consideration of a new flat panel photobioreactor equipped with a novel LED lighting system

Colta A.R. (AlGreen)

Struvite for organic Spirulina production

10.45 **Pausa caffè e sessione poster**

Di Caprio F. (Roma)

A “two-stage” photo-heterotrophic process to enhance the productivity of Chlorella sp. in photobioreactors

Cangiulli G. (Bari)

Bio-hydrogen from diatoms: a solution for sustainable bio-energy production

11.15 **QUARTA SESSIONE**

Downstream process

Sansone F. (Salerno)

Stabilization of a Chlorella vulgaris aqueous extract: development of a “micro to nano” spray dried delivery system

Lima S. (Palermo)

Low and medium electric fields for microalgal biomass treatment: a novel approach for extracting compounds from microalgae

Ceschi E. (Verona)

Towards industrial production of astaxanthin: a view on downstream processes using microalgae biomass grown in pilot scale PBRs as a source of natural ketocarotenoids for aquaculture

12.30 **ASSEGNAZIONE PREMI ai giovani ricercatori**

Premio Mario Tredici per la migliore presentazione – ricerca applicata

Premio Laura Bruno per la migliore presentazione – ricerca di base

Premio per il miglior poster

13.00-13.05 **Chiusura del convegno**