

EUROCAROTEN Workshop, Working Groups and Management Committee meetings schedule

**16-18 October 2017
Hotel Sveti Križ, Trogir (Croatia)**

EUROCAROTEN Workshop on Sustainable Production of Carotenoids: From Biosynthesis to Biotechnology 16-17 October 2017

Scientists, companies and other stakeholders outside EUROCAROTEN as well as EUROCAROTEN members not entitled to reimbursements are welcome to attend the workshop. Please, contact Mladen Brnic (mbrncic@pbf.hr) for details.

Program

Monday, 16 October 2017

Session I – Chair: Joseph Hirschberg

8:30 Opening of the EUROCAROTEN COST meeting – **Antonio Meléndez Martínez and Mladen Brnčić**

8:40 **Gerhard Sandmann**, J.W. Goethe Universität, Frankfurt
Diversity of reactions leading to the biosynthesis of common carotenoids: An introduction

9:05 **Enrique Cerdá Olmedo**, Universidad de Sevilla
Carotenoids and apocarotenoids from *Phycomyces blakesleeanus*

9:40 **Masha Sapojnik**, LycoRed Ltd., Beer Sheva
From petri dish to crystals: Natural β -carotene from *Blakeslea trispora*

10:15-10:45 Coffee break

Session II – Chair: Maria Jesus Rodrigo

10:45 **Ralf Welsch**, Albert-Ludwigs-Universität Freiburg
Golden Rice - development, current state and future approaches for improvements

11:20 **Orly Dery**, The Hebrew University of Jerusalem
Operation of two competing pathways from phytoene to lycopene in transgenic plants
expressing CRTI

11:45 **Xin Jin**, Universitat de Lleida - Agrotecnio Center
Regulation of β -carotene biosynthesis and accumulation in maize endosperm

12:10 **Karolina Kaźmińska**, Warsaw University of Life Sciences
Genetic mapping of QTLs related to high carotenoid content in winter squash fruit

12:35-13:30 Lunch break

Session III - Chair: **Gianfranco Diretto**

13:30 **Marilise Nogueira**, Royal Holloway University of London
The development and evaluation of a new plant-based renewable source of ketocarotenoids for
aquaculture feed

13:55 **Uri Karniel**, The Hebrew University of Jerusalem
Metabolic engineering of xanthophylls in tomato fruit

14:20 **Dan Lewitus**, Shenkar - Engineering. Design. Art College, Ramat-Gan
Astaxanthin-based polymers as new antimicrobial compounds

14:45-15:00 Coffee break

Session IV - Chair: **Ludmiła Bogacz-Radomska**

15:00 **Hendrik Pollmann**, J.W. Goethe Universität, Frankfurt
The red yeast *Xanthophyllomyces dendrorhous* as a production platform for the biosynthesis of
phytoene and zeaxanthin

15:25 **Benan İnan**, Yıldız Technical University, ISTANBUL
Microalgae as β -carotene source

15:50 **Helena Melo Amaro**, University of Porto
Microalgal Blue Biotechnology – an attempt to microalgal-based bioprocess optimization,
towards bioactive compounds production

16:30 Guided city tour of Split

19:00-22:00 Dinner

Tuesday, 17 October 2017

Session V - Chair: Paul Fraser

8:30 **Salim Al-Babili**, King Abdullah University of Science and Technology (KAUST), Thuwal, Saudi Arabia.

Biosynthesis and novel functions of apocarotenoids in plants

9:05 **Giovanni Giuliano**, Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA), Roma

Saffron crocin biosynthesis: A highly compartmented pathway

9:40 **Meike S. Andersson**, HarvestPlus, Recta Cali-Palmira, Colombia

Tackling hidden hunger: Boosting Vita-A through enhancement and reducing degradation

10:15-10:45 Coffee break

Session VI - Chair: Carmen Socaciu

10:45 **Laura G. Gómez-Mascaraque**, Instituto de Agroquímica y Tecnología de Alimentos, Paterna (Valencia)

Enhanced bioaccessibility of β -carotene through microencapsulation by emulsion-electrospraying

11:10 **Hazal Ozyurt**, Ege University, 35100 Bornova, Izmir

The extraction of fucoxanthin from *Nitzschia thermalis* using response surface methodology

11:35 **Sofia G. Papadaki**, School of Chemical Engineering, Athens

Encapsulation of microalgal origin carotenoids in ulvan nanomatrices using electrohydrodynamic process

12:00 **Vesna Tumbas Saponjac**, University of Novi Sad

Modelling the accelerated solvent extraction of carotenoids from carrot

12:25-13:00 **General Discussion, Paul Fraser**

END OF THE WORKSHOP

13:00-14:00 Lunch break

EUROCAROTEN Working Group Meetings

Tuesday 17 October 2017

WG1: Production: developing resources and biosynthetic pathways

WG2: Quality along the food chain

WG3: Nutrition and health

WG4: Transfer, dissemination and exploitation

14.00 – 14.30 WG4 plenary meeting.

14.30 – 15.15 WG1, WG2 & WG3 parallel meetings.

15:15 – 15:30 Coffee break

15.30 – 17.30 WG1, WG2 & WG3 parallel meetings.

19:00-21:00 Dinner

EUROCAROTEN Management Committee Meeting

Wednesday 18 October 2017

08-30 – 09.30 Management Committee meeting

09:30 – 09.45 Coffee break

09.45 – 11.00 Management Committee meeting

12.30 – 13.30 Lunch