



## 5th Network Meeting

Conference program:

### Tuesday 19th of March

7 p.m. Get together

We will meet at Ristorante Fellini, Groner-Tor-Str. 28, 37073 Göttingen, Germany for our get together. For entrance details please refer to the map on page 5. Please DO NOT bring posters to the Welcome Reception, as is held in another venue than the rest of the meeting.

### Wednesday 20th of March

The meeting will take place at the Tagungszentrum an der Sternwarte, Geismar Landstraße 11b, 37085 Göttingen, Germany. For entrance details please refer to the map on page 5.

8:30 Registration

8:50 Welcome

#### 9.00 - 10.30 a.m. Session 1. "Advances in UV photoreceptors"

9.00 - 9.30 a.m. **Ruohe Yin** | Shanghai Jiao Tong University - keynote speaker  
UV-B signaling in tomato

9.30 - 9.50 a.m. **Dezhi Li** | University of Glasgow  
Phosphorylation of nuclear UVR8 photoreceptor in response to UV-B radiation

9.50 - 10.10 a.m. **Gareth Jenkins** | University of Glasgow  
Phosphorylation of UVR8 photoreceptor modulates protein interactions and response to UV-B radiation

10:10-10:30 a.m. **Susanne Neugart** | Georg-August University Goettingen  
Different irradiances of UV and PAR in the same ratios alter the flavonoid profiles of Arabidopsis thaliana wild types and UV-signalling pathway mutants

10.30 - 11.00 .am. coffee break

#### 11.00 - 12.30 a.m Session 2. "UV photoperception and photoprotection"

11.00 - 11.30 a.m. **Luis Morales** | Örebro University - keynote speaker  
UVR8 and cryptochromes mediate photoprotection of photosynthesis from UV radiation in Arabidopsis

11.30 - 11.50 a.m. **Justyna Łabuz** | Jagiellonian University  
Environmental impact on chloroplast movements

11.50 - 12.10 a.m. **Pawel Hermanowicz** | Jagiellonian University

Chloroplast movement monitoring through polarization-sensitive detection of changes in leaf reflectance  
12.10 - 12.30 a.m. **Adriana Volná** | University of Ostrava  
Interactions of visible light spectral components as important factor affecting metabolic profile of phenolic compounds

**12.30 - 1.00 a.m. 3 min poster pitches**

1. poster **Anna Hebda** | Jagiellonian University  
Photochemical properties of phototropins from Arabidopsis with altered photosensory domains
2. poster **Paulina Calderon Flores** | Örebro University  
Nuclear translocation of UVR8 under UV-A radiation
3. poster **Robert Hatt** | University of Pécs  
Investigating UVR8 dependency via UV acclimation responses in UVR8 deficient mutants
4. poster **Natalie Cunningham** | University College Cork  
Exploring morphological responses of photoreceptor mutants to narrowband UV wavelengths, generated using innovative LED devices
5. poster **Lucia Jasenovska** | Slovak University of Agriculture  
Screening the effects of UV radiation under LED lighting using fluorescence and imaging techniques

1.00 - 3.00 p.m. lunch and poster session

**3.00 - 4.00 p.m. panel discussion**

4.00 - 4.30 p.m. coffee break

**4.30 - 5.30 p.m. general meeting**

**Thursday 21st of March**

**9.00 - 10.30 a.m. Session 3. "Adaptation and acclimation to UV"**

- 9.00 - 9.30 a.m. **Gyula Czégény** | University of Pécs - keynote speaker  
The contribution of UVR8 photoreceptor to hydrogen peroxide centered UV responses
- 9.30 - 9.50 a.m. **Jim Shinkle** | Trinity University  
Using LC-MS to identify UV-absorbing pigments induced by short-wavelength (<300 nm) UV-B radiation
- 9.50 - 10.10 a.m. **Adolfo Clavo-Parra Martínez** | TU Braunschweig  
UV-C treatment induces drought stress tolerance in Arabidopsis
- 10:10-10:30 a.m. **Maria Pimenta Lange** | Julius Kühn Institute  
Plant stress management: turning growth-defence trade-offs through UV-C light treatment
- 10.30 - 11.00 .am. coffee break

**11.00 -12.30 a.m. Session 4. "Interaction of UV radiation and other environmental factors"**

- 11.00 - 11.30 a.m. **Pedro Aphalo** | University of Helsinki - keynote speaker  
Low vs high UV-B doses-an answer from millions of sunlight measurements at Helsinki
- 11.30 - 11.50 a.m. **Tadeja Trošt Sedej** | University of Ljubljana  
Varied functional traits responses of *Alchemilla monticola* in alpine environmental conditions
- 11.50 - 12.10 a.m. **T. Matthew Robson** | University of Cumbria  
What role does radiation play in methane emissions from trees and other plants in the arctic
- 12.10 - 12.30 a.m. **Marcel Jansen** | University College Cork  
And now for something different; plants, plastics and UV-B

### 12.30 - 1.00 a.m. 3 min poster pitches

1. poster **Váler Góra** | University of Pécs  
Time dependent changes in phenolic profile of bell pepper upon UV treatment
2. poster **Gyula Czégény** | University of Pécs  
The role of vitamin B6 in sun exposed plants - acclimation responses of vitamin B6 deficient *Arabidopsis thaliana* leaves under different UV environments
3. poster **Arnold Rácz** | University of Pécs  
Systemic leaf responses to UV via hydrogen peroxide and pathogenesis-related protein 1
4. poster **Radomir Pech** | University of Ostrava  
Biosynthesis dynamics and stability of phenolic compounds under varying light and temperature conditions
5. poster **Jakub Nezval** | University of Ostrava  
Can flavonoids help *Arabidopsis thaliana* plants to cope with stress induced by high irradiance and elevated temperature?
6. poster **Zhengjie Ji** | Georg-August University Goettingen  
The effects of low temperature combined with UV-B irradiation on antioxidant activity and flavonoids content in kale and pak choi
7. poster **Kristóf Csepregi** | University of Pécs  
Long-term positive effects of an UV-B pre-treatment on field-grown bell pepper plants

1.00 - 3.00 p.m. lunch and poster session (2.00-3.00 p.m. Intercomparison of Dualex instruments)

### 3.00 - 4.00 p.m. panel discussion

7.00 – 11.00 p.m. conference dinner  
The dinner will take place at Deutsches Theater Bistro (see map page 5).

## Friday 22nd of March

### 9.00 - 10.30 a.m. Session 5. "Practical applications of UV radiation"

9.00 - 9.30 a.m. **Antonella Castagna** | University of Pisa - keynote speaker

	One step closer to the implementation of UV knowledge in the Agrifood chain-achievements and remaining gaps
9.30 - 9.50 a.m.	<b>Éva Hideg</b>   University of Pécs Enhancing the production of leaf phenolics indoors-Can we be as good as the sun
9.50 - 10.10 a.m.	<b>Erhard Pfündel</b>   Heinz Walz GmbH A device to analyze radiation screening, Chl content and Fv/Fm
10:10-10:30 a.m.	<b>3 min poster pitches</b>
1. poster	<b>Pedro Aphalo</b>   University of Helsinki The R photobiology Suite-9 years later
2. poster	<b>Zoltán Katona</b>   University of Pécs Exploring phenolic peroxidase-optimisation of leaf extraction methods
3. poster	<b>Huihui Liu</b>   Georg-August University Goettingen Postharvest UV-B and UV-C radiation to level up the quality of strawberry fruits during storage
4. poster	<b>Eduardo Zelada</b>   Lancaster University Lau UV-B seed priming to improve germination and abiotic stress tolerance of tomato
10.30 - 11.30 a.m.	coffee break
<b>11.00 -12.20 a.m.</b>	<b>Session 6. "Practical applications of UV radiation"</b>
11.00 - 11.30 a.m.	<b>Maria Fitzner</b>   University of Bayreuth - keynote speaker Changes in plant secondary metabolites in vegetables due to altered UVB radiation in indoor cultivation
11.30 - 11.50 a.m.	<b>Javier Martínez-Abaigar</b>   University of La Rioja Ultraviolet-B radiation, mushrooms, and vitamin D-from technology to bioavailability
11.50 - 12.20 a.m.	<b>Tobias Pöhl</b>   Georg-August University Goettingen The use of UV light to manipulate the taste of lettuce-impact on sesquiterpene lactones
12.20 - 12.30 a.m.	closing
12.30 - 2.00 p.m.	lunch
2.00 p.m. –	Excursion to the Karzer at Göttingen University (we walk there from the venue)

## Map with venues of the conference and important places.

All venues are within walking distance of each other and reachable within 20 minutes.



## Notes

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