Application for hosting the 15th EAS Basic Course on Aerobiology on July 5-9th 2021 in Brussels, Belgium

September 2020

Ir Dr Nicolas BRUFFAERTS Mycology & Aerobiology service Sciensano

Rue Juliette Wytsman 14 | 1050 Bruxelles | Belgium T +32 2 642 50 42 | nicolas.bruffaerts@sciensano.be





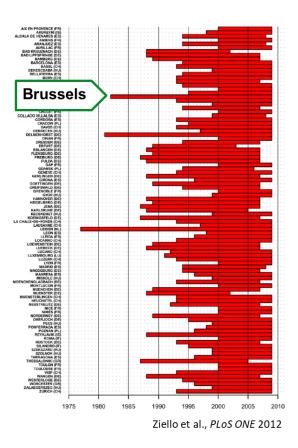


Host description



- Nation-wide One-Health/Eco-Health research institute
- The Mycology & Aerobiology unit manages the Belgian aerobiological surveillance network (<u>www.airallergy.be</u>)
- 5 monitoring stations in the country, among which the Brussels station is one of the oldest operational stations in Europe (since 1982).





Host description



 The Mycology & Aerobiology unit also manages the Belgian fungal culture collection (<u>http://bccm.belspo.be/about-us/bccm-ihem</u>)



15'000 fungal strains of biomedical interest

Host description

UNIVERSITÉ LIBRE DE BRUXELLES



Jardin Botanique Jean Massart

- Prof. Pierre Meerts, head the *Plant Ecology and Biogeochemistry* laboratory at the Free University of Brussels (ULB), is committed to co-organize the course with Sciensano
- The university makes available its teaching infrastructure within the experimental **Botanical Garden Jean Massart**







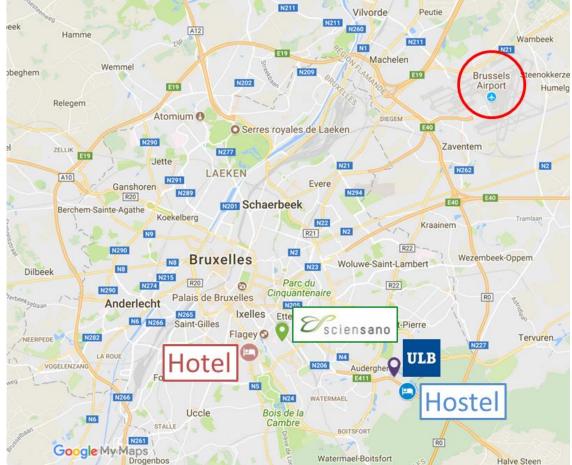






Location

- Brussels Airport <10 km with direct train connection
- Accommodation and course sites on the same South-East part of Brussels
- Students → Hostel
- Teachers → Hotel
- Sciensano → Monday's public seminar + plenary lectures
- ULB (Bot. Garden) → Main site for the course

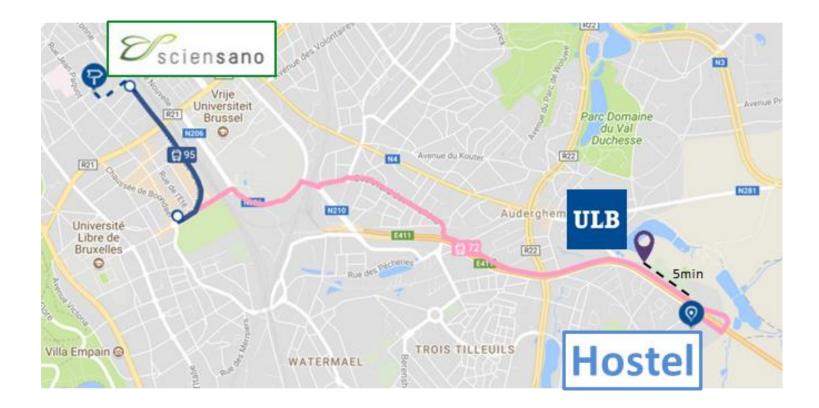


Location

- For the students: Hostel → Sciensano (1/5 days)
 Hostel → Botanical Garden (4/5 days)
- For the teachers: Hotel \rightarrow Sciensano (1/5 days) Hotel \rightarrow Botanical Garden (4/5 days)

≤30 min by public transport= 5 min walking

5 min by car shuttle 15 min by car shuttle



Time-table from July 5th to 9th, 2021

Sunday	Monday 5 th		Tuesday 6 th		Wednesday 7 th	
Arrival of the students and teachers	9:00- 10:00	Registration	8:30- 9:45	()		(L) Aerobiological networks, database, pollen reports
	10:00- 10:10	Opening of the public seminar	9:45- 10:45	(PE) Pollen identification Alnus, Corylus, Betula, Ostrya	9:15- 10:00	(L) Meteorological aspect of pollen dispersal and modelling
	10:10- 11:00	(L) Introduction to Aerobiology, Aerodynamics, Pollen sampling	10:45- 11:00	Coffee/tea break	10:00- 10:15	Coffee/tea break
	11:00- 11:50	(L) Second lecture to be determined	11:00-	(PE) Pollen identification Carpinus, Populus, Ulmus, Cupressaceae	10:15- 11:15	(PE) Pollen identification Salix, Fraxinus, Olea, Brassicaceae, Ligustrum, Cyperaceae
	12:00- 12:30	Visit of the <i>Mycology</i> & <i>Aerobiology</i> unit at Sciensano	12.00		11:15- 12:00	(L) Methods of analysis by molecular biology
	12:30- 13:30	Lunch at Sciensano restaurant	12:00- 13:30	Lunch in the garden	12:00- 13:45	Barbecue in the garden
	13:30- 14:15	(L) Invited lecturer(s) to be determined	13:30- 14:15	(L) Phenology and Aerobiology	40.45	Guided tour of the Botanical Garden Jean Massart
	14:15- 14:30	Coffee/tea break	14:15- 15:15	(PE) Pollen identification Pinus, Picea, Quercus, Fagus, Platanus, Castanea	13:45- 16:15	
	14:30- 15:30	(L) Pollen structure and morphology	15:15- 16:30	(L) Basic statistic applied to aerobiology		Visit of Brussels city centre
	16:00	5:00 Icebreaking Belgian beer	16:30- 16:45	Coffee/tea break	16:15-	
			16:45- 17:15	(L) EN16868: a new standard	19:00	
			17:15- 18:00	(L) Quality control in aerobiology analysis		
	19:30	Dinner	19:30	Dinner	19:30	Dinner

Green = Sciensano

Orange = Public seminar at Sciensano/ULB

Blue = Botanical Garden Jean Massart (ULB)

Time-table from July 5th to 9th, 2021

	Thursday 8 th	Friday 9 th		
8:30- 9:30	(PE) Pollen identification Juglans, Plantago, Rumex, Poaceae, Amaranthaceae, Urticaceae	8:30- 9:30	(PE) Hirst spore trap: Preparation of drums and slides from air samples of the garden	
9:30- 10:15	(L) Seasonal and short-term forecasting	9:30- 10:30	(PE) Final revisions	
10:15- 10:30	Coffee/tea break	10:30- 10:45	Coffee/tea break	
10:30- 11:30	(PE) Pollen identification Iva, Asteraceae Liguliflorae, Artemisia, Ambrosia, Solidago, Xanthium	10:45- 11:15	Theoretical test exam	
11:30- 12:15	(L) Allergy to pollen – clinical aspect	11:15- 12:30	Practical test exam	
12:15- 13:45	Lunch in the garden	12:30- 13:30	Lunch in the garden	
13:45- 14:30	(L) Direct sampling of aeroallergens and new methods in aerobiology	13:30- 14:30	Presentation of Certificates, Comments, Conclusion	
14:30- 15:15	(L) Health impacts of moulds			
15:15- 15:30	Coffee/tea break			
15:30- 16:15	(L) Morphology of fungal spores			
16:15- 17:45	(PE) Fungal spores identification			
19:30	Last dinner at restaurant			

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Sciensano facilities

- Site used on Monday
 - > AM: Public seminar
 - PM: Course (plenary lectures)

Auditorium available
 (≥50 seats, beamer, flipchart, WiFi)

- Restaurant for lunch meals (custom menus: veggie, halal, etc.)
 - On site for Monday
 - Delivered to the Botanical Garden for the rest of the week





ULB facilities at the Botanical Garden

- Site used for 4/5 days of the course
- Room for plenary lectures
 (≥30 seats, beamer, flipchart, WiFi)





ULB facilities at the Botanical Garden

- Site used for 4/5 days of the course
- Room for plenary lectures
 (≥30 seats, beamer, flipchart, WiFi)
- Room for practical exercises
 - ≥30 microscopes (Leica CME)
 - 1 Leica DMLB with camera cableconnected to beamer
 - 1 WiFi-connected portable camera to quickly project student's field of view









ULB facilities at the Botanical Garden

- Site used for 5/6 days of the course
- Room for plenary lectures
 (≥30 seats, beamer, flipchart, WiFi)
- Room for practical exercises
 - ≥30 microscopes (Leica CME)
 - 1 Leica DMLB with camera cableconnected to beamer
 - 1 WiFi-connected portable camera to quickly project student's field of view
- Specific material for teaching aerobiology
 - Sampler and lab equipment for the Hirst method
 - > 3D-printed pollen models
 - Reference slides collection of pollen and fungal spores
 - Pure pollen in powder







Accommodation for students







Rooms for 2 persons



On the edge of the Sonian Forest



Restaurant + cafetaria with terrace



Parking spaces





15min from Metro <1min from bus

Accommodation for teachers



Brussels Centre Le Châtelain Single superior rooms on garden side



Outdoor excursions

• Guided tour of the **Botanical Garden Jean Massart:** arboretum, orchard, and other thematic areas (invasive plants, metallophyte plants, medicinal plants, etc.)



Guided tour in Brussels centre

















Budget (intermediate version)

ESTIMATED TOTAL COST						
Hotel for the teachers (5 nights, breakfast included, superior room, garden side)	390€x5p.	1950€				
Hostel for the students (5 nights, breakfast included)	200€x22p.	4400€				
Public transport for the students (Monday at Sciensano + Excursion)	2x4.5€x25p.	225€				
Daily transport of the teachers (taxi or private car)	15€x10waysx5p.	750€				
Lunches from Sciensano restaurant (5 days)	5x15€x30p.	2250€				
Catering for coffee/tea breaks	5x25€	125€				
Last dinner	40€x30p.	1200€				
Teaching material (printing, lab material, 3D printing, insurance)	1500€	1500€				
Guide for the excursion in Brussels centre	150€	150€				
	12550€					

ESTIMATED TOTAL INCOME				
Participation fees for EAS members	580€x11p.	6380€		
(if all complete fees incl. accommodation)	DOGENTID.	0300€		
Participation fees for non EAS members	680€x11p.	7480€		
(if all complete fees incl. accommodation)				
Participation fees for 3 persons of the ULB	Offered	0€		
EAS grants	TBD	TBD		
IAA grants	TBD	TBD		
Sponsoring	TBD	TBD		
	TOTAL	13860€		

TBD = To Be Determined

- Budget will be adjusted depending on the real travel/accommodation cost of the students (Belgian participants are expected).
- At least 50% of the net profits will be returned to the European Aerobiology Society.
- 3 participation fees will be freely offered at the ULB, in exchange of their active involvement in the co-organization of the course.
- Sponsoring partners will be seeked from early 2021 among several companies: Burkard Manufacturing Co Ltd, easySPT, Bertin Instruments, ParticleVision, Stallergenes Greer, etc.



Stay safe and see you soon!