



Universitair Ziekenhuis Brussel

EUPERTSTRAIN EUPERTGENOMICS

Brussels 2022



22nd EUPertStrain- EUPertGenomics meeting

Thursday 15/09/2022 -

Friday 16/09/2022

VUB Brussels Health Campus
Auditorium Vanden Driessche

Laarbeeklaan 103

1090 Brussels, Belgium

Organising Committee:

Denis Piérard & Helena Martini
UZ Brussel, Belgium

Qiushui He & Alex-Mikael Barkoff
University of Turku, Finland



Previous EUPertStrain-EUPertGenomics meetings

Edition	Year	Location
1	1999	Paris, France
2	2001	Stockholm, Sweden
3	2002	Paris, France
4	2003	Turku, Finland
5	2004	Stockholm, Sweden
6	2005	Paris, France
7	2007	Turku, Finland
8	2008	Copenhagen, Denmark
9	2009	Rome, Italy
10	2010	Bilthoven, The Netherlands
11	2011	London, United Kingdom
12	2012	Oslo, Norway
13	2013	Warsaw, Poland
14	2014	Copenhagen, Denmark
15	2015	Brussels, Belgium
16	2016	Utrecht, The Netherlands
17	2017	Oslo, Norway
18	2018	Copenhagen, Denmark
19	2019	Rome, Italy
20	2020	Paris, France (virtual meeting)
21	2021	Ljubljana, Slovenia (virtual meeting)



2019 EUPertStrain-EUPertGenomics meeting - Rome, Italy

Programme

Thursday 15/09/2022

11:00-12:30	Registration, poster setup, lunch
12:00-12:30	Virtual setup, guidelines and welcome

12:30-13:00	Welcome address
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Session 1: Diagnostics and typing

Chair: David Litt, Valérie Bouchez

13:00-13:20	A novel and versatile immune assay to distinguish and monitor vaccination and infection-induced antibody-mediated recognition of <i>Bordetella pertussis</i>	Janeri Fröberg (virtual)
13:20-13:40	Validation of ELITe InGenius® and Bordetella ELITe MGB® Kit for the molecular diagnosis of <i>Bordetella pertussis</i> and related species	Helena Martini
13:40-14:00	First results from an External Quality Assessment scheme targeting the Antimicrobial Susceptibility Testing among the European Pertussis Reference Laboratories	Alex-Mikael Barkoff
14:00-14:20	The first external quality assurance scheme for <i>Bordetella pertussis</i> vaccine antigen expression	Norman Fry

Special topic: *B. parapertussis*

14:20-14:40	An unexpected outbreak with <i>Bordetella parapertussis</i> on a paediatric ward: lessons learned	Jacky Flipse
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14:40-15:10	Coffee break, poster viewing
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Session 2: Immunology and vaccines

Chair: Florens Versteegh, Isabelle Desombere

15:10-15:30	Anti- <i>Bordetella pertussis</i> bactericidal antibody responses to natural infection or vaccines in infants, children and adults	Andrew Gorringe
15:30-15:50	Effectiveness of pertussis vaccination in pregnancy to prevent hospitalisation in infants aged <2 months and effectiveness of both primary vaccination and mothers vaccination in pregnancy in infants aged 2-11 months.	Lore Merdrignac
15:50-16:10	An update on the novel, live attenuated pertussis vaccine BPZE1	Camille Loch
16:10-16:30	An update on maternal pertussis vaccination in England; what's polio got to do with it?	Helen Campbell

16:30-17:00	Open discussion, closing remarks, group photo
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18:00-22:00	Social event and dinner: dine-around guided walking tour
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Programme

Friday 16/09/2022

09:00-09:10	Virtual setup and guidelines
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Session 3: Biology and evolution of *B. pertussis*

Chair: Alex-Mikael Barkoff, Tine Dalby

09:10-09:30	<i>Bordetella pertussis</i> vaccine-induced fitness changes	Noémie Lefrancq (virtual)
09:30-09:50	Estimating the spatial dynamics of <i>Bordetella pertussis</i> , from local transmission to global dissemination	Sylvain Brisse (virtual)
09:50-10:10	Emergence and dissemination of pertactin-deficient <i>Bordetella pertussis</i> carrying an unusual mechanism of pertactin disruption in Spain	Juan José González-López (virtual)
10:10-10:30	Alterations in the expression of <i>Bordetella pertussis</i> virulence factors in relation to the use of acellular pertussis vaccine in Finland	Qiushui He

10:30-11:00	Coffee break
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11:00-11:30	PT makes the nasopharynx to a replication niche for <i>B. pertussis</i> , where FhaB and FIM are critical for transmission	Peter Sebo
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11:30-11:45	EUPertStrain V Study	Qiushui He
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11:45-12:00	Organisers' remarks
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12:00-13:00	Lunch
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Session 4: Epidemiology

Chair: Camille Loch, Jussi Mertsola

13:00-13:20	Pertussis surveillance and vaccine studies in Sweden	Bernice Aronsson Emma Appelqvist (virtual)
13:20-13:40	<i>Bordetella pertussis</i> notifications in the Netherlands before and during the COVID-19 pandemic	Rob Mariman (virtual)
13:40-14:00	Populational changes of <i>Bordetella</i> strains circulating before and during the COVID-19 pandemic period in France	Valérie Bouchez
14:00-14:20	Pertussis in Denmark, from high to low: 2019-epidemic and the COVID-19 period	Tine Dalby

14:20-14:30	Closing remarks
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Practical information

Contact

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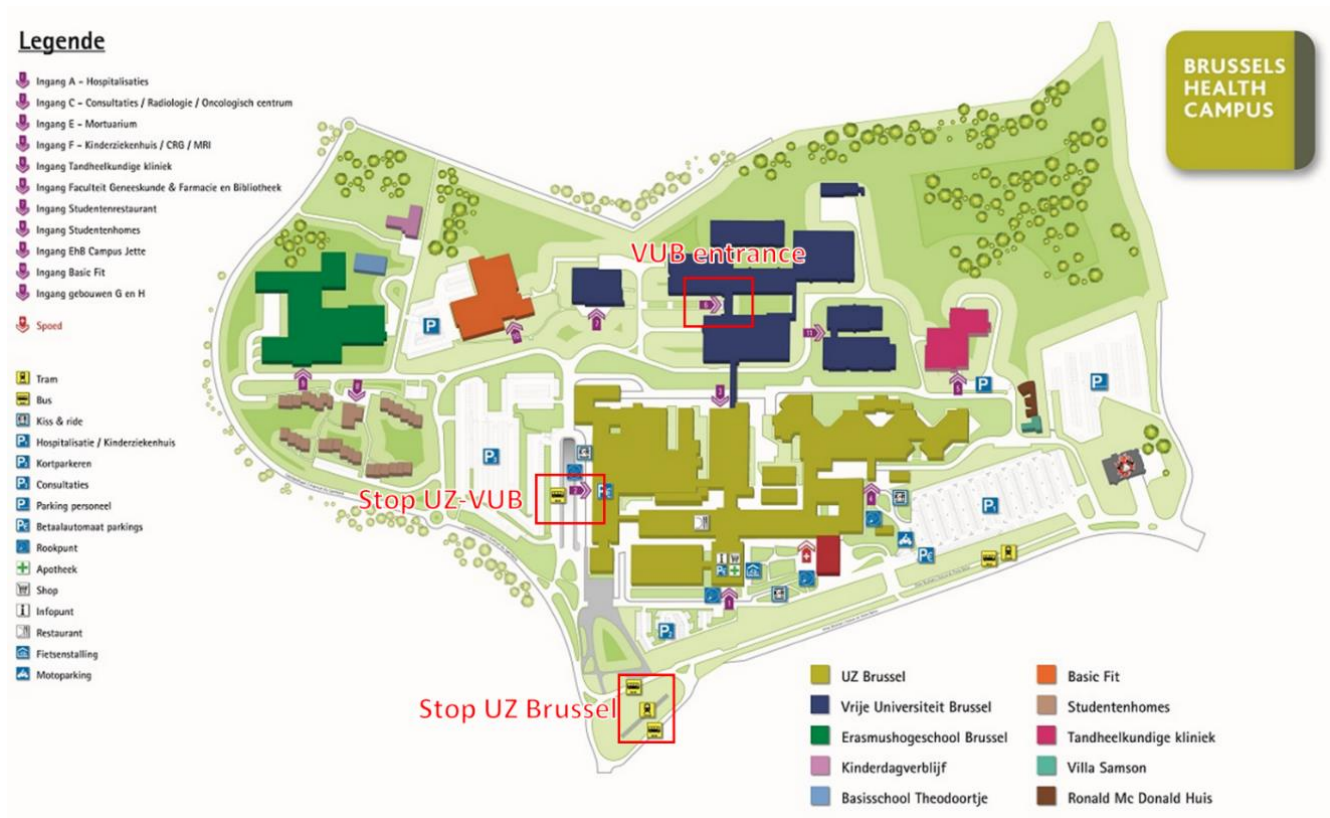
During the meeting, cellular phone numbers of the meeting organisers will be provided for contact in case of urgent issues.

Venue location

Vrije Universiteit Brussel

Brussels Health Campus - Auditorium Vanden Driessche

Laarbeeklaan 103 – 1090 Brussels, Belgium



More information on <http://www.uzbrussel.be/EUPERT2022>.

Please be aware of the LEZ-restrictions when reaching Brussels by car.

If you have requested a free parking spot, please follow the instructions you have received by email. Parking violations may incur a fine, and parking at the UZ Brussel is not free of charge.

Covid-19 guidelines

Please check <http://www.uzbrussel.be/EUPERT2022> for the most recent instructions.

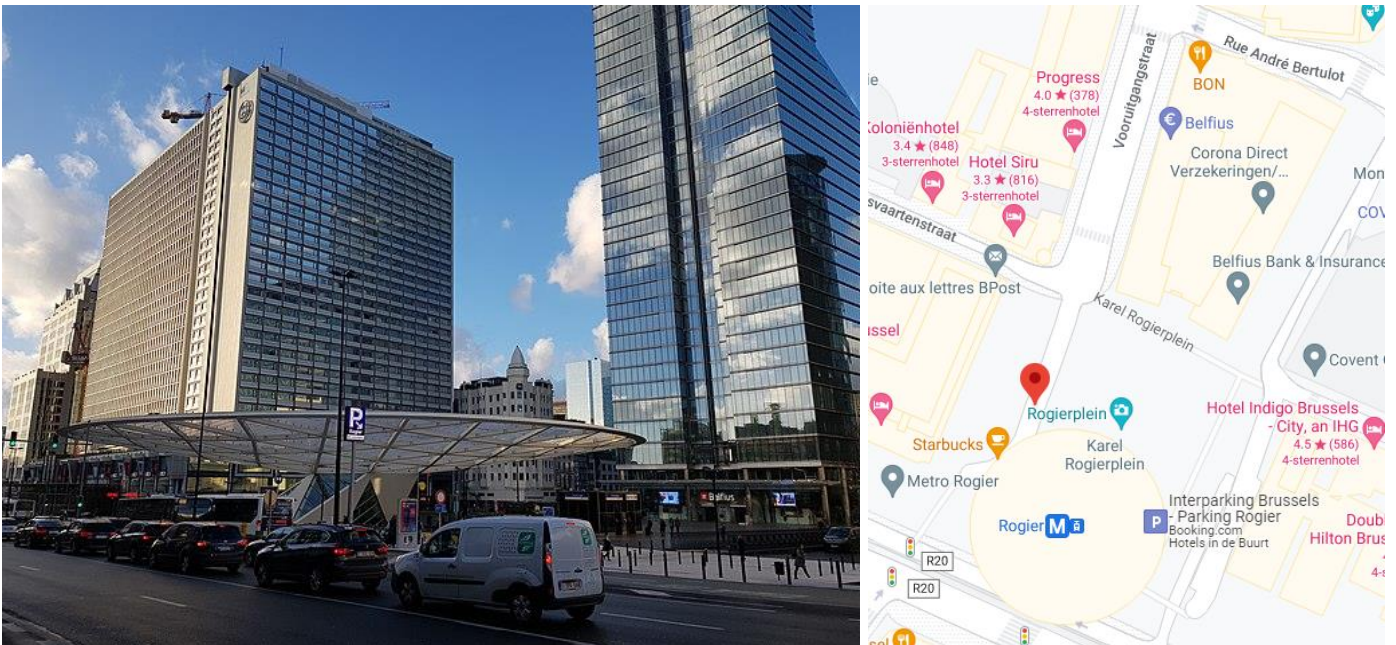
Virtual access

Please follow the instructions you have received by email for access to the meeting livestream. There will be a chat function where you may ask questions, which will be read aloud by the chair at the end of each presentation (time permitting).

If you are a virtual speaker, please follow the separate instructions for access to the Teams meeting for speakers.

Social event and dinner

We gather at 18:00-18:30 at Place Rogier, between the Belfius building and the Starbucks building with the large canopy. The guided tour starts at 18:00.



The best way to reach Place Rogier from the meeting venue is by public transportation. Included are four MIVB tickets, which may be used to travel to the social event as well as to and from the meeting venue, your hotel, or anywhere in Brussels you may wish to go.

Those who want to go to place Rogier directly from the venue may travel together in small groups, along with the meeting organisers. The following route will be used:

- Tram 9 from UZ Brussel to Simonis
- Metro 2 or 6 from Elisabeth to Rogier

Alternatively, you can go to your hotel first and make your way to Place Rogier independently. Please contact the organisers by phone should you encounter issues or run late at this point.

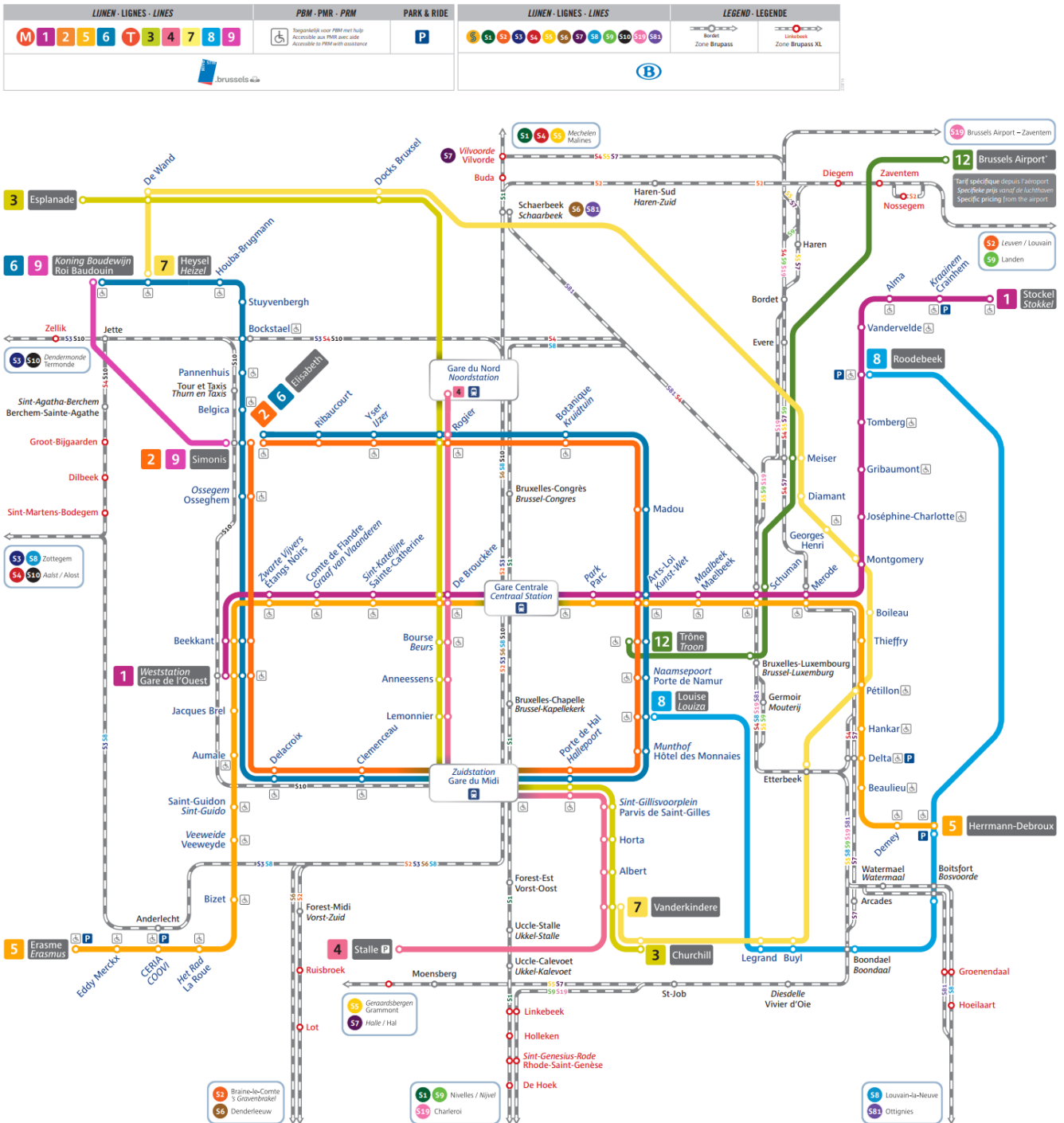
Public transportation

Included are four MIVB tickets. They are valid on all MIVB buses, trams and metros, except for line 12 starting at Brussels Airport (this requires a separate "Go2City" ticket).

A ticket needs to be validated upon boarding for bus and tram, or upon entering the station for metros. Tickets stay valid for one hour after validation, during which time you may freely change lines – however, the ticket still needs to be validated at each change!

Extra tickets may be purchased at MIVB sales points (called BOOTIK or KIOSK) or their GO vending machines.

Please note that busses from De Lijn belong to a different network and require different tickets.



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