

INSPIRE

Antwerp
Summer
University

Cardiovascular Safety Pharmacology and Cardio-Oncology



22-28
AUG 2024



University
of Antwerp



[www.uantwerpen.be/
inspire](http://www.uantwerpen.be/inspire)



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WELCOME!

We are pleased to welcome you to the 5th edition of the INSPIRE Summer School, organised as part of the 15th edition of Antwerp Summer & Winter University.

This INSPIRE Summer School offers an intensive and interactive 5-day training in **Cardiovascular Safety Pharmacology and Cardio-Oncology**. Built as a multidisciplinary course, it consists of theoretical lectures complemented by hands-on sessions in associated technologies. This summer school is a continuation of the EU-funded collaborative Training Network in Safety Pharmacology INSPIRE (www.inspire-safety-pharmacology.eu), which in the past four years has built a training program benefiting from the academic, industrial, and clinical perspectives by exploring the latest technological capabilities to address emerging cardiovascular and cardio-oncology safety concerns.

In this brochure, we provide you with practical and substantive information regarding the INSPIRE Summer School. For any questions, please do not hesitate to contact us at INFO.INSPIRE@uantwerpen.be.

We wish you an inspiring couple of days and an unforgettable stay in Antwerp!

INSPIRE Coordinator Office

Prof. Pieter-Jan Guns, Scientific Coordinator of the INSPIRE Project

Paz Yanez-Murillo, Project Manager of the INSPIRE Project

1. PROGRAMME STRUCTURE AND CONTENT

1.1. INTRODUCTION

The goal of the INSPIRE Summer School is to provide participants with insight in Cardiovascular Safety Pharmacology and Cardio-Oncology. The programme starts with a refresher on cardiovascular physiology and pathophysiology. Next, speakers from leading pharma companies will provide insight in the process of drug development and the importance of clinical safety. The regulatory landscape of drug development and safety evaluation will be elaborated, as well as a description of key methods implemented in Safety Pharmacology to identify adverse effects of drug candidates early on. A few case studies of failed drug candidates will also be discussed. Further, clinical cases of drug-related cardiovascular complications presented by cardiologists will provide a wider perspective on the topic. More specifically, the discipline of cardio-oncology will be discussed in detail. With increasing survival rates of cancer patients, the long(er)-term effects of anticancer treatment (i.e. cardiac toxicity) are receiving more scrutiny. In this context, the programme will conclude by highlighting academic research to evaluate the detrimental effects of many anticancer drugs on endothelial cells. Endothelial cells are the inner lining of the vascular system and play a pivotal role in vascular physiology and pathophysiology. At the end of the programme, participants will have gained a comprehensive view of the topic of cardiovascular (patho)physiology and how these mechanisms should be taken into account and screened for during drug development.

1.2. COURSE SCHEDULE

DAY 1 - 22 AUGUST

MORNING (09:00 -12:30) Refresher on cardiovascular disease pathophysiology

Speaker: Vincent Segers, University of Antwerp

Learning outcome: Understand the physiology and pathophysiology of hypertension | Understand the pathophysiology of ischemic heart disease (including atherosclerosis) | Understand the patho-physiology of heart failure and cardiac remodeling.

AFTERNOON (13:30 – 17:00) Lecture: Insight in the process of drug development and safety pharmacology (SP)

Speaker: Jean-Pierre Valentin, UCB Biopharma SRL

Learning outcome: Understand the process of drug development and the importance of clinical safety | Introduction to non-clinical safety testing | Principles and helicopter view on Safety Pharmacology and Toxicology.



DAY 2 - 23 AUGUST

MORNING (09:00 – 12:30) Regulatory landscape of drug development and safety evaluation and case studies

Speaker: Jean-Pierre Valentin, UCB Biopharma SRL - Industry perspective

Learning outcome: Requirements for nonclinical studies and their relation to the conduct of human clinical trials | Regulatory requirements for cardiovascular evaluation of drug candidates | Advantages and limitations of the methods currently used for cardiovascular safety assessment.

AFTERNOON (13:30 – 17:00) Endothelial cells (EC) in cardio-oncology

Speaker: Stefan Chłopicki, Jagiellonian University in Kraków - Academic perspective

Learning outcome: Introduction to the important role of EC in maintaining cardiovascular homeostasis | Overview of methods state-of-the-art to study endothelial phenotype *in vivo* and their application to understanding pathomechanisms of endothelial dysfunction in various cardiovascular and non-cardiovascular diseases | Detrimental effects of anti-cancer drugs on endothelial function | Towards endothelial profiling of anti-cancer drug.

DAY 3 - 26 AUGUST

MORNING (09:00 – 12:30) Clinical cardiology and cardio-oncology (and case reports)

Speaker: Constantijn Franssen, Antwerp University Hospital - Cardiologist perspective

Learning outcome: Introduction to cardiology | Understand the main cardiovascular pathologies and methods used for diagnosis and treatment | Introduction to cardio-oncology | Understand challenges and best practices in cardio-oncology.

AFTERNOON (13:30 – 17:00) Hands-on echocardiography / organ baths

Organisers: Physiopharmacology Research Group, University of Antwerp

Description: Follow the researchers of the laboratory during live experiments | Gain insights on methodologies to investigate cardiovascular function *in vivo* and *ex vivo* | Practical insight in data handling and analysis | Introduction in good laboratory practices.

DAY 4 - 27 AUGUST

MORNING (09:00 – 12:30) Signal processing / data visualisation

Speaker: Pieter-Jan Guns, University of Antwerp

Learning outcome: Physiological signals analysis and interpretation | Displays, graphs and charts: how to choose the right ones | Data acquisition requirements depending on analysis objectives | Regulatory framework.

AFTERNOON (13:30 – 17:00) hiPSC technology in drug R&D**Speaker: Brigitta Rita Szabó, MSCA doctoral researcher, Ncardia**

Learning outcome: Basic introduction to hiPSC, general principles of generation, differentiation, and applications in Safety Pharmacology | Advanced integrated hiPSC-based assays: validation and challenges | Large scale production and associated ethical aspects | Future perspectives of hiPSCs in drug development.

DAY 5 - 28 AUGUST**FULL-DAY WORKSHOP & CLOSING (09:00 – 15:00) Career development, strategic thinking, and proposal writing****Speaker: Pieter-Jan Guns, University of Antwerp**

Learning outcome: Tools to develop a career development plan | Understanding which skills and strategies are useful to become a successful researcher | Tips and tricks for writing a research proposal | How can we measure the quality of scientific output? | What are the ingredients of a good scientific publication? | Tips and tricks for writing your first publication.

1.3. ECTS AND CERTIFICATES

A certificate of attendance will be awarded at the end of the training.

Participants are expected to attend all classes. Successful completion of the INSPIRE Summer School by 100% participation in the lectures and hands-on sessions can be awarded with a certificate of completion providing 3 credits according to the European Credit Transfer System (ECTS). Recognition of the ECTS credits in your home curriculum should be agreed upon with your home institution. We can provide a course information sheet if necessary.

1.4. COURSE MATERIAL

Supporting and class materials will be shared via Blackboard, the digital learning environment of the University of Antwerp. Participants already in possession of an UAntwerp account (i.e. UAntwerp students and staff members) can access the course via their regular Blackboard environment (blackboard.uantwerpen.be) using their regular log-in credentials. Non-UAntwerp participants will receive log-in information by email a few days before the start of the summer school. Students can also use this platform to communicate informally with each other.

The Blackboard learning environment is accessible through <https://lms.uantwerpen.be/>

2. SOCIAL PROGRAMME

To keep the spirits high and give you an extra opportunity to get to know your classmates, the Antwerp Summer & Winter University organizes several **fun and inspiring social activities**. It is the perfect

opportunity to get to know other participants and explore the city of Antwerp. The good news is that they are all **free of charge** and everyone can participate.

- To **register** for one or more activities, [please follow this link](#) (or use the QR code).



- Once you've registered, you'll receive specific and practical information for the activities via e-mail near the start of the summer school.
- Please be **on time**, preferably 15 minutes early.
- If you're **not able to attend** an activity for which you've registered, **please contact the Antwerp Summer & Winter University team at the latest 3 days before**. This way, we can give the spot to another participant. **If you don't cancel on time for activities with a maximum number of attendees, you'll be asked to pay a fee of 30 euros.**

2.1. ACTIVITIES PLANNED DURING THE INSPIRE SUMER SCHOOL

Sports: Rooftop Yoga

When: Wednesday 21 August / 18:45 – 20:00

Meeting point: entrance of the MAS museum, Hanzestedenplaats 1, 2000 Antwerp

Enjoy a relaxing yoga session on the rooftop of the MAS museum. Sun salutation with a view!

The class is beginner friendly, so no worries if you don't have any previous yoga experience. Yoga mats will be provided.



Guided Tour of the Port House

When: Thursday 22 August / 18:30 – 20:00

Location: Port House, Zaha Hadidplein 1, 2030 Antwerp

The Port House, designed by renowned architect Zaha Hadid, is undoubtedly one of the most amazing and high profile eye-catchers of the Antwerp skyline. During the tour, an expert guide will take you to all the must-see places in both the old and new areas of the iconic building. You will also learn more about the history and the current role of the port of Antwerp, the second-most important in Europe.



Minigolf Beatrijs

When: Sunday 25 August / 14:30 – 17:00

Meeting point: [Ferry dock next to the Steen castle](#), Steenplein 1, 2000 Antwerp

At Minigolf Beatrijs all the lanes have been designed by visual artists. You can test your golfing skills, have a drink at the bar and enjoy the view of the river Scheldt and the Antwerp skyline. Minigolf Beatrijs is located on the left bank of the river, to get there we'll take the free ferry at the dock next to the Steen castle.



Reception

When: Monday 26 August / 17:00 – 18:30

Meeting point: Kloosters van de Grauwzusters (Building S), Lange Sint-Annastraat 7, 2000 Antwerp

Come and have a drink with your fellow students and the summer school organisers.



Quiz night

When: Wednesday 28 August / 19:30 – 22:00

Location: STAN – GATE 15, Kleine Kauwenberg 15, 2000 Antwerp

Join us for a fun evening of international trivia at our pub quiz! The winner goes home with an amazing Antwerp Summer University bag full of goodies. Ready to quiz?



Stay tuned about the activities by following the socials of Antwerp Summer and Winter University. They will post updates, behind the scenes and will repost your pictures on Instagram [@AntwerpSummerUniversity](https://www.instagram.com/AntwerpSummerUniversity). Just make sure to tag them 😊

We hope you'll enjoy the activities and feel free to contact us if you have any questions.

2.2. TIPS FOR OTHER ACTIVITIES DURING YOUR STAY

Curious to explore the diverse neighbourhoods of Antwerp? Craving a leisurely stroll through the parks? In search of the perfect spot for drinks? Eager to indulge in shopping or immerse yourself in the city's cultural gems? Discover all this and more at www.visitantwerpen.be or stop by our tourist office for personalised recommendations:

Antwerp Tourist Office: Grote Markt 13, 2000 Antwerp (Email: info@visitantwerpen.be)

Antwerp has many fascinating museums, such as:

- Museum Aan De Stroom (MAS): <https://mas.be/en>
- Museum Plantin-Moretus: <https://www.museumplantinmoretus.be/en>
- Red Star Line Museum: <https://www.redstarline.be/en>
- Royal Museum of Fine Arts: <https://kmska.be/en>

For more tips about restaurants, activities and fun neighborhood, check out the Instagram page of the Antwerp Summer and Winter University (www.instagram.com/AntwerpSummerUniversity/)!

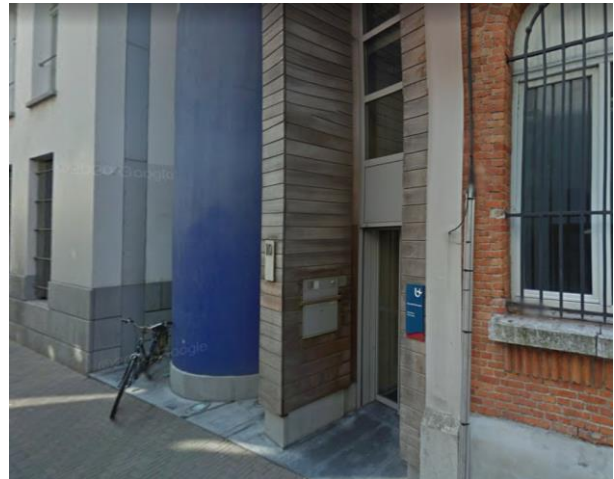
3. PRACTICAL INFORMATION

3.1. VENUE

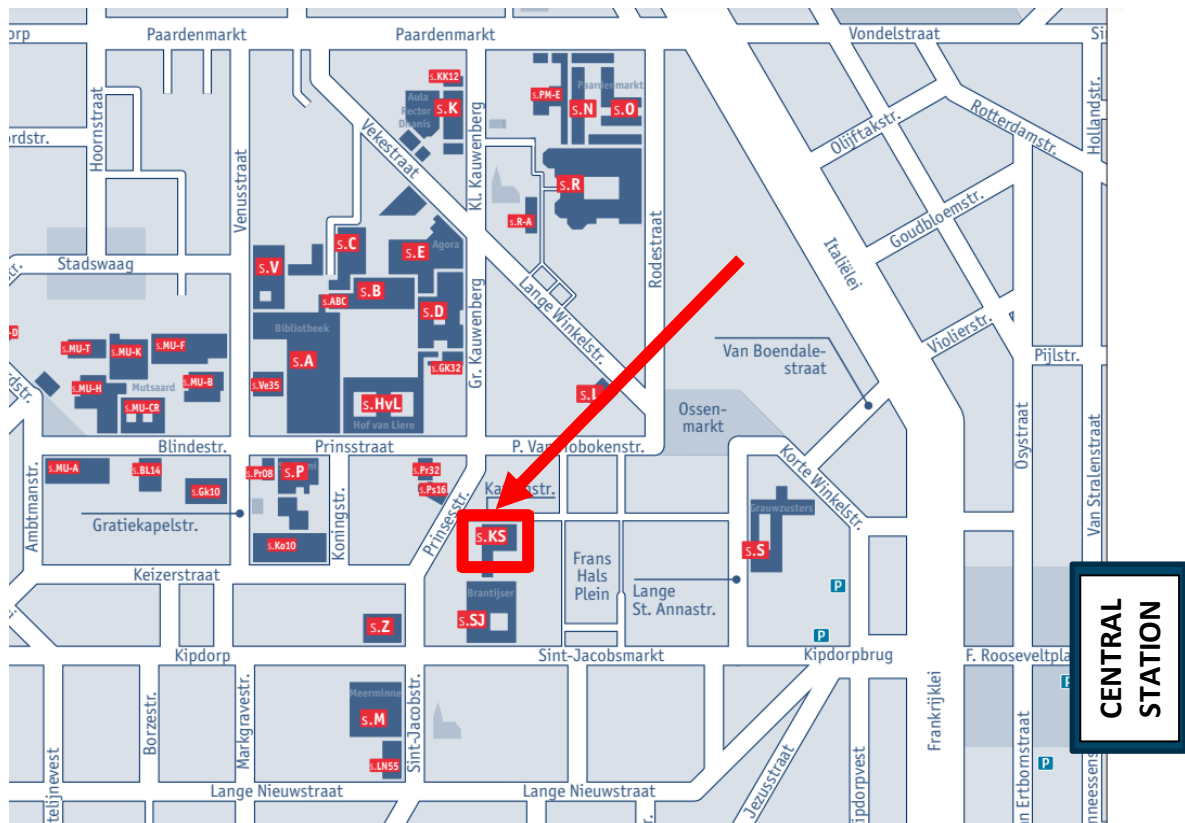
The summer school will be held at the University of Antwerp's City Campus. Classes will take place in Room KS 203, located in Building s.KS. Please refer to the map below for details.

Address: Kattenstraat 10, 2000 Antwerp

The campus is conveniently located within a 15-minute walk from both Central Station and the City Center. Please note that other rooms in the same building will also be in use for summer schools during this period. We kindly ask all participants to respect the shared spaces by minimizing noise and keeping the area clean.



Map of City Campus ([link](#))



3.2. ARRIVING IN ANTWERP

Antwerp is in the centre of Belgium and is easily accessible by **plane, train, car** and **bus**:

- **PLANE:** The international airport of Brussels (BRU) is the most frequently used gateway to Antwerp, but you might also want to consider the low-cost airport of Brussels South Charleroi (CRL) or the nearby Airport of Antwerp (ANR) itself.
- **TRAIN:** International railway lines link Brussels and Antwerp to several major European cities.
- **BUS:** Eurolines and FlixBus buses are other low-cost transport options.

Detailed information for each option is accessible on the [route description of the university website](#).

3.3. ACCOMMODATION

Are you still looking for accommodation during your stay at Antwerp Summer & Winter University? Antwerp has many different accommodation options ranging from student rooms and youth hostels to classic hotel rooms. Please check [this list of accommodation options in Antwerp](#). For details and bookings, contact our colleagues of International Student Housing (internationalstudenthousing@uantwerpen.be).

In case you are looking for other students to share rooms with, or if you want to ask for help from other participants, please join the private WhatsApp group (see point 4.1, page 13).

3.4. GETTING AROUND

Trams and buses

Antwerp has a dense public transportation network. Buses and trams are available to take you to different parts of the city. More detailed information can be found on www.delijn.be. A single ticket within the city is €2,5 and allows you to use public transportation (buses and trams) for one hour. You can consider buying a Lijn card (10 rides for €17), a day of unlimited travel (€7,50) or a 3-day ticket (€15). Tickets can be purchased in advance via the app, the [website](#) or at the [sales points in the city](#).

Cycling, walking, scooting and riding

Antwerp is a bike-friendly city. The distances are doable as it will not take you more than 20 minutes to get from one side of the city to the other and the bike lanes are flat and with the right gear.

Velo is Antwerp's metropolitan bike scheme. There are check-in and drop-off zones of the city bikes throughout the entire city. To ride Velo you have to register beforehand. You can buy a day pass for €5 or a week pass for €12. Summer school students are entitled to a 25% reduction for a week pass. The discount code will be made available closer to the start of the summer school.

After purchasing a day or week pass, you can use the bikes for a maximum of 30 minutes per session. Find more information on www.velo-antwerpen.be/en.

Donkey Republic is a bike rental service, offering normal and electric; short or long bike rentals and you pay as you go via the app. Find details on www.donkey.bike/cities/bike-rental-antwerp/.

Bird is an electric scooter rental service. Use the app to find the closest Bird and scan the QR code. After your journey, leave the scooter in a place where it cannot obstruct traffic and end your journey in the app. Find more information on www.bird.co.

3.5. INTERNET ACCESS

Throughout the entire summer school, you will have access to the UAntwerp wifi network.

- Please log in to the network by selecting the UAntwerpen wireless network on your device (UAntwerpen, *not* UA-guest).
- You have received via e-mail the credentials for your UAntwerp account, you can use your username (**NOT e-mail**) and password to log in.
- If you are using an iPhone, please indicate your trust in the certificate.

Alternatively, you can also use the Eduroam network of your home university. In case of problems, [check out our website](#).

3.6. LIBRARY

The main library building is located in the heart of the City Campus (**Building s.A** on [the campus map](#)), and is also accessible to people with physical disabilities. The opening hours are Monday to Friday, from 08.30 to 17:00.

You can study or work in groups here. You can also use the computers, printing and scanning facilities in the library. You can consult books on site but cannot take them home. Other spaces available for individual and group work can be found in building E, above the Agora cafeteria). Please check www.uantwerpen.be/en/library/ for more information.

3.7. LUNCH

A lunch box for each participant will be delivered (free of charge) at the lunch breaks, taking into account the dietary preferences reported in your registration for the summer school through Mobility Online. If you still wish to enjoy additional food or drinks, find below good options on and off campus.

- **Agora Caffee** – Grote Kauwenberg 2, Antwerp
This is probably the best option for those who want to have a warm lunch. Great cafeteria in the University building serving daily sandwiches, soups, salads and pasta.
- **Karusa** – Prinsstraat 6, Antwerp
Sandwiches with a Latin American twist, known for their quinoa burgers and grilled chicken.
- **Kool & Zo** – Prinsstraat 40, Antwerp
Take-out salad & soup bar, offering many vegan and vegetarian options.
- **Bagatel** – Koningsstraat 1, Antwerp
Sandwich bar just in front of the main entrance of the university.

- **Cuperus Horsey Coffee** – Paardenmarkt 28, Antwerp
Coffee bar, also offering cake and sandwiches.
- **Kalura** – Prinsesstraat 38, Antwerp
Spice up your lunch with Kalura's authentic pizza's – also available for take-out.

4. COMMUNICATION

4.1. SOCIAL MEDIA

This year, we have introduced a **WhatsApp community** exclusively for you. It is a space designed for sharing and connecting with other participants, whether it's about accommodations, dining recommendations, or just finding the perfect hangout spot. Join us through [this link](#) or use the QR code.

Feel the pulse of Antwerp Summer University by becoming a **member of our community on Instagram and LinkedIn** at [@AntwerpSummerUniversity](#). Uncover behind-the-scenes snapshots, tips on hidden gems in Antwerp, fantastic food spots, intriguing quotes from speakers, and much more.

We would love to feature your pictures and videos! Just be sure to tag us and use #antwerpsummeruniversity, and we'll be delighted to share your Antwerp Summer University journey.



4.2. GOOGLE PHOTOS

If you take pictures or videos during the summer school, you are invited to **upload** them to our shared folder on [Google Photos](#). When you upload these pictures to the folder, you give permission to the team to use the them for promotional use on the Antwerp Summer & Winter University website and socials.

4.3. SHARE YOUR EXPERIENCE

This year, we would like to share your experience! That is why we will be recording testimonials about the Antwerp Summer & Winter University for our website and socials. Would you be willing to help us out? If you would like to share your experience with us in a short video, please contact summeruniversity@uantwerp.be and we will be in touch. We are looking forward to experiencing the Antwerp Summer University from your point of view!

Antwerp Summer & Winter University Office: summeruniversity@uantwerp.be

4.4. USEFUL DUTCH PHRASES

As you gear up for your visit, why not add a touch of Dutch to your experience? Antwerp is situated in the **Dutch-speaking region of Belgium**, and you'll find the streets alive with the melodic tones of Dutch. While most locals are fluent in English, incorporating a few Dutch phrases can add a delightful touch to your interactions. Go ahead and give it a try – we encourage you to make the most of the opportunity to impress the locals with these Dutch phrases!

Greetings

Hello	Hallo	['halo]
Good morning	Goedemorgen	[xudə'mɔrxə(n)]
Goodbye	Tot ziens	[tɔt] [zins]
Welcome	Welkom	['wɛlkɔm]
Have a nice day	Prettige dag	['prɛtəxə] [dax]

Asking questions

How are you?	Hoe gaat het?	[hu] [xat] [hɛt/ət]
I'm fine, thanks, and you?	Alles goed, dank je, en met jou?	['aləs] [xut] [dɑŋk] [jə] ɛn mɛt jəu]
Can you help me, please?	Kunt u me helpen alstublieft?	['kʏnt ʏ mə 'hɛlpə(n) alsty'blift]
The bill please	De rekening alstublieft	[də'rekənɪŋ alsty'blift]

General responses

Yes	Ja	[jə]
No	Nee	[ne]
Please	Alstublieft	[alsty'blift]
Thank you	Dank u	[dɑŋk] [ʏ]
You're welcome	Graag gedaan	[xrax] [xə'dan]
Sorry	Sorry	['sɔri]
No problem	Geen probleem	[xɛn] [pro'blem]

5. ABOUT

5.1. UNIVERSITY OF ANTWERP

The University of Antwerp was founded in 2003 and has about 23,202 students, 154 programmes and 9 faculties. The University of Antwerp is characterised by its high standards in education, internationally competitive research and its entrepreneurial approach. The University of Antwerp has 9 faculties, as well as 17 institutes and centres such as the Antwerp School of Education and the Institute of Development Policy. Up to 17,5% of our students are international, coming from all corners of the world: from the A of Argentina to the Z of Zambia.



The University of Antwerp is recognised as an important institution in the Young University Rankings:

- Times Higher Education Millennials 2020 - Rank 5
- Times Higher Education 250 under 50 2022 - Rank 7
- QS 50 under 50 2021 - Rank 20

Do you want to expand your horizons and obtain a degree at the University of Antwerp? Or are you interested in an exchange opportunity from 2 months to a full year? Or do you want to discover our research domains and the Antwerp Doctoral School? All information is available on www.uantwerpen.be/en/study

5.2. ANTWERP, CITY OF DIAMONDS



Located in the heart of Belgium and Europe, Antwerp is well known for its major international port and for being the world centre for diamond trade. Throughout history, it has held a pivotal role in shaping the political and cultural landscape of the Low Countries. It is a charming city with many excellent museums and a cultural heritage that finds its most illustrious representative in the form of Pieter Paul Rubens.

Antwerp's rich history combined with its wide variety of bars and restaurants, independent boutiques and green parks, makes Antwerp the ideal city for students. Explore the city's storied past and present, where every corner reveals a new facet of this captivating and dynamic metropolis.

5.3. ANTWERP SUMMER & WINTER UNIVERSITY

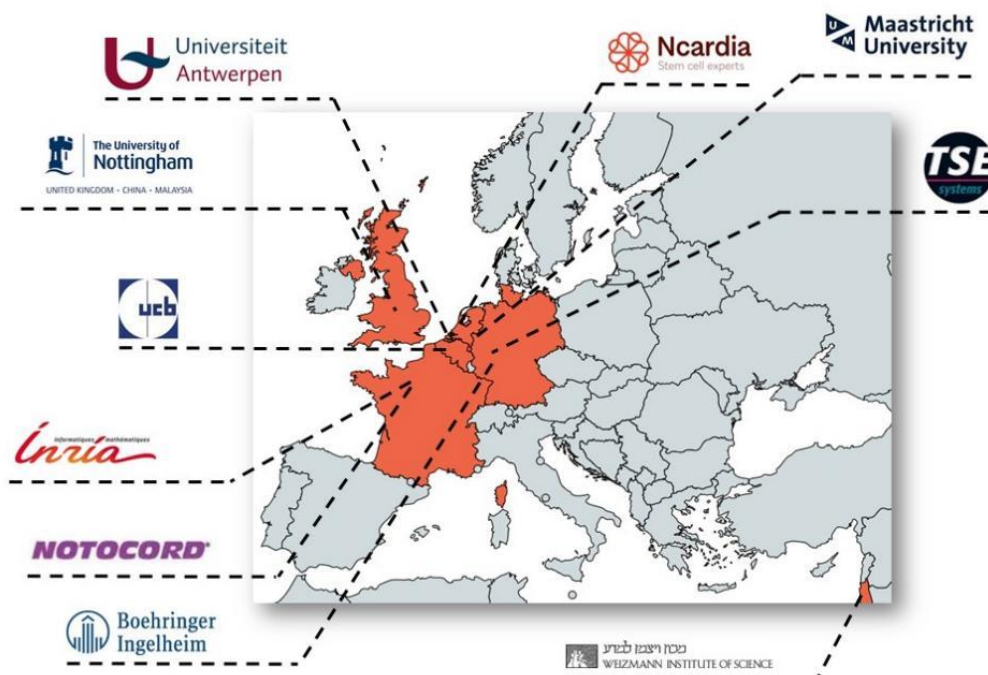
Since 2010, Antwerp Summer and Winter University has been offering multiple highly qualitative courses within the areas of excellence of the University of Antwerp and its partners. Summer and winter school topics cover almost all disciplines offered at the University of Antwerp, ranging from health sciences over design sciences to social sciences. The target group varies between summer and winter schools and may consist of students, researchers or working professionals. All short-term programmes consist of high quality education (lectures, visits, workshops) and fun & interesting social programmes. Participants can acquire ECTS credits upon successful completion of the programmes. [Discover all Antwerp Summer and Winter University programmes.](#)



5.4. INSPIRE TRAINING NETWORK

INSPIRE is the European Training Network in Safety Pharmacology (www.inspire-safety-pharmacology.eu), coordinated by the University of Antwerp. It constitutes a multidisciplinary and intersectoral programme with a balanced combination of hands-on research training, intersectoral secondments, local courses and network-wide events on scientific and transferable skills, enabling future R&I collaborations. Hence, INSPIRE equips future generations of Safety Pharmacologists with a wide range of scientific knowledge and the ability to adapt to a dynamic industry.

INSPIRE Training Network: an international collaboration



5.5. ORGANISING COMMITTEE



Prof. Pieter-Jan Guns

Coordinator of the INSPIRE Network
Professor Physiopharmacology
GENCOR Research Unit | Faculty of Medicine and Health Sciences
University of Antwerp
Email: pieter-jan.guns@uantwerpen.be
Tel. +32 3 265 27 84



Paz Yanez-Murillo

Project Manager of the INSPIRE Network
Grants Officer | Research Innovation Valorisation Antwerp
University of Antwerp
Email: paz.yanez@uantwerpen.be
Mobile: +32 486 76 74 08

Antwerp Summer & Winter University Team

E-mail address : summeruniversity@uantwerp.be

- Phone numbers ASWU staff :
- Evelien Peeten: 0032 3 265 51 87
- Dries Lauwers: 0032 3 265 39 33
- Marloes Van Damme: 0032 3 265 88 03
- Charlotte Tilsley: 0032 3 265 52 89

5.6. EMERGENCY SERVICES

- European emergency services: 112
- Fire services: 100/112
- Police department: 101
- Pharmacy directory: find a local pharmacy online through <https://www.pharmacie.be/>
- Red Cross ambulance service: 105



University
of Antwerp

**WE WISH YOU
AN INSPIRING AND PLEASANT
SUMMER SCHOOL!**