

17th European Congress of Toxicologic Pathology

Digitalization meets Pathology



*17th – 20th of September 2019,
Cologne, Germany*

organized under the auspices of the European Society of Toxicologic Pathology



in collaboration with the European Teratology Society

www.eurotoxpath.org

Invitation

Dear Colleagues and Friends,

The European Society of Toxicologic Pathology (ESTP) is pleased to invite you to the 17th EUROPEAN CONGRESS OF TOXICOLOGIC PATHOLOGY at the Maternushaus in Cologne, Germany, from September 17 to 20, 2019. The ESTP is also pleased to announce that the 47th European Society of Teratology (ETS) meeting will be held in parallel with sessions together on Wednesday, September 18, 2019. The joint Welcome Reception and Congress Dinner will give ESTP and EST members greater opportunity to meet and network.

The theme of the 2019 Congress is “Digitalization meets Pathology,” with focus on digitalization, image analysis, computational pathology, and other advanced technologies.

Digitalization has become increasingly integrated in toxicologic pathology in recent years and has profoundly impacted the practice of modern toxicologic pathology. With this year’s theme, our vision is to give colleagues an insight into the latest achievements and where the journey may lead us.

The scientific program is organized to cover different aspects of digitalization including an introductory overview of the different areas within digitalization and computational pathology, as well as the practical and technical aspects of digital slide management, platform architecture, and workflows for viewing digital slides. Sessions on image analysis, artificial intelligence including machine and deep learning, as well as critical discussions on the regulatory aspects of these methodologies are planned. There will also be a session on various other Advanced Technologies.

Plenary lectures, oral presentations, case studies, and a poster session will provide opportunity for formal and informal interactions with colleagues and friends.

Contract research organization services, innovative equipment and technologies, new publications, and others will be featured at the trade exhibition.

On September 17, 2019, there will be the half-day International Academy of Toxicologic Pathology (IATP) Satellite Symposium on “New Approaches and Practices in Reproductive and Developmental Toxicology – Role of the Toxicologic Pathologist.” This symposium will cover application of micro-CT in reproductive and developmental toxicology studies, current approaches for sampling and evaluation of the female and male reproductive tracts in studies, including juvenile studies, and emerging mechanistic *in vitro* models of embryonic implantation and organ-on-a-chip technologies in reproductive toxicology.

The social program, open to all registered participants, will include the Welcome Reception at the Maternushaus, and the Congress Dinner at the “Wartesaal am Dom” located in the old waiting hall of the historic train station of Cologne.

We look forward to welcoming you in Cologne!

On behalf of the ESTP,

Björn Jacobsen and Sibylle Gröters
Chairs of the Scientific Organizing Committee

Organization

Scientific Organizing Committee

Andreas Popp, AbbVie (Germany)

Angele Breithaupt, Merck (Germany)

Babu Gangadharan, CitoxLab (Hungary)

Bettina Lawrenz, Bayer AG (Germany)

Björn Jacobsen, F. Hoffmann-La Roche Ltd. (Switzerland)

Dirk Schaudien, Fraunhofer ITEM (Germany)

Erio Barale, Janssen (Belgium)

Jonathan Carter, Covance (United Kingdom)

Joost Lensen, Charles River Laboratories (Netherlands)

Karen Bodié, AbbVie (Germany)

Kuno Würsch, Novartis (Switzerland)

Maria Cristina De Vera Mudry, F. Hoffmann-La Roche Ltd. (Switzerland)

Matt Jacobsen, Astrazeneca (United Kingdom)

Raffaella Capobianco, RTC (Italy)

Sibylle Gröters, BASF SE (Germany)

Congress Organizer

Solution office e.K.

Bergstraße 2

29646 Bispingen

Germany

Tel.: +49 (0)5194 97449-0

Fax: +49 (0)5194 97449-4

E-mail: estp@solution-office.de

Contact person: Pia Schröder

E-mail: pia.schroeder@solution-office.de

Scientific Program

Tuesday, 17 September 2019 (9.00 – 12:45)

Satellite Workshop co-sponsored by the International Academy of Toxicologic Pathology (IATP) and ESTP: New Approaches and Practices in Reproductive and Developmental Toxicology – Role of the Toxicologic Pathologist

This half-day symposium is oriented for toxicologists and pathologists who are engaged in the nonclinical assessment of reproductive and developmental toxicology studies. The speakers will cover usage of micro-CT in reproductive and developmental toxicology studies, current approaches for sampling and evaluation of the female and male reproductive tracts in these studies, including juvenile studies, and emerging mechanistic *in vitro* models of embryonic implantation and organ-on-a-chip technologies in reproductive toxicology.

Lunch will be served to attendees after the meeting. A separate registration is required.

Tuesday, 17 September 2019 (start 14:00)

The meeting will kick off with a keynote lecture on definitions of digitalization/digitization and computational pathology to set a common understanding of these terms. The following presentations will focus on the technical aspects of managing digital slides, digitalization of the laboratory environment, a consideration of platform architecture, and other aspects of pathology digitalization and digitization.

Wednesday, 18 September 2019

This day is dedicated to three shared sessions with the European Teratology Society (ETS) and will focus on topics relevant for both disciplines.

In the Machine and Deep Learning session we will focus on the general concepts and some of the technical aspects as well as potential limitations of these techniques. In addition, there will be an overview of current as well as potential future applications using these techniques.

Thursday, 19 September 2019

In our first session of the day, we will cover the establishment of workflows for viewing digital slides including whole routine histopathology slides and also magnetic resonance imaging (MRI) scans. The second session will focus on image analysis. This session will present computational software techniques to collect powerful quantitative data out of histological preparations and will outline their chances and limitations.

The last session on Thursday will examine some of the regulatory aspects of the use of digital pathology in the regulated non-clinical environment.

Friday, 20 September 2019

Advanced Technologies will introduce the audience to innovative tools now available to pathologists and other scientists that are used to characterize morphologies and explore mechanisms of disease. Imaging Mass Cytometry (CyTOF) and Nanostring Digital Spatial Profiling are highly multiplexed platforms that improve understanding of disease and therapeutic responses in liquid biopsies and tissue sections. Light sheet microscopy allows slide-free visualization of organs and whole animals in three dimensions. MALDI-MS Imaging enables *in situ* visualization of various molecules, allowing the correlation and co-localization of molecular information with histopathology and other imaging modalities.

Awards

The Congress Program will also include the following Awards

- Chirukandath Gopinath Lecture Award, an engraved glass award, is sponsored by the British Society of Toxicological Pathology (BSTP): The awarded speaker is an internationally recognized scientist
- Award for the Best Poster sponsored by the French Society of Toxicologic Pathology (SFPT): The recipient will receive a certificate and a monetary prize of € 1000.
- IATP Charles Capen Trainee Award, rewarding a major contribution in toxicologic pathology by a student or trainee: The IATP funds the award in the amount of \$750 USD which can be used to attend a conference of a Society of Toxicologic Pathology or related meeting.
- IATP Food Safety Scientific Award, sponsored by the IATP, rewarding a food-related scientific contribution by a young investigator or trainee: The award consists of a certificate and a check in the amount of U.S. dollars market equivalent of ¥100,000.
- ESTP Publication Award: The ESTP funds the award for a toxicologic pathology-related scientific contribution by a young investigator or trainee with a certificate, a prize money of € 1500, the registration fee and travel costs (economy flight booked by our congress organizer) for the upcoming ESTP congress. With this endowment it is attempted to promote cooperation between Universities and industry and to interest young scientists in toxicological pathology and related fields.



Call for Case Presentations

Cases for oral presentation are welcome on all topics of pathology. The template for case presentations, as well as the online submission form, are now available on the Case Presentation Submission Page for the Congress of the ESTP Website (https://www.eurotoxpath.org/meetings/form_casepres2019.php).

The deadline for submission is May 31, 2019.

The cases will be interactive sessions, if possible around Digitalization meets Pathology. This interactive session will hopefully generate lively and productive discussions, and most importantly, allow us to have a good time!

For each case, the presenter could project:

- a. a series of images from lesions,
- b. clinical and/or toxicological endpoints with potential adversity questions, and suggest a choice of diagnoses/answers. The audience will then vote via wireless keypads, and the voting results will be displayed on the screen. After each voting session, time for discussion will be allowed.

Call for Posters

The template for poster abstract and the online submission form are now available. Please see the Abstract Submission Page on the ESTP Website (https://www.eurotoxpath.org/meetings/form_abstract2019.php) for further details.

The deadline for submissions is May 31, 2019.

Congress Venue

Maternushaus

Kardinal-Frings-Str. 1-3

50668 Köln

Fon (0221) 1631 - 0

info@maternushaus.de

www.maternushaus.de

The Maternushaus hotel is located in the Altstadt-North district of Cologne and is very close to galleries, a basilica and the famous gothic Cologne Cathedral. The Old Town with Alter Markt and Heumarkt is the centre of Cologne's old neighbourhood of handicrafts and trade, and these are major attractions for Cologne residents and visitors. Surrounded by many small restaurants and cafés and located at the borders of the river Rhine, this area is an inviting place to relax and enjoy life, especially in the month September.



Social Events

Welcome Reception – Tuesday 17th September – Maternushaus

(Kardinal-Frings-Str. 1-3, 50668 Köln)

On the evening of Tuesday 17th September we would like to invite you to join us at the Welcome Reception. The Reception will be a joint event with the European Teratology Society (ETS).

The Reception will take place in the congress venue where you will have the opportunity to meet colleagues and friends, to chat and prepare yourself for the following days of the conference.

The Reception will last 2 hours, with drinks and light snacks. There are several restaurants in walking distance to the venue to go out for dinner afterwards.

Join us, have a drink and enjoy the evening.

Dinner – Thursday 19th September – Wartesaal am Dom

(Johannisstraße 11, 50668 Köln)

The Conference dinner will take place in the “Wartesaal am Dom“ on Thursday 19th September.

You are invited to enjoy a delicious dinner and to meet friends and colleagues in a relaxed atmosphere. The Restaurant is located in the old waiting hall of the historic train station of Cologne. It is located right next to the new main train station and the famous cathedral of Cologne. It is only 900 m walking distance from the congress venue, you walk through the old part of the town and might want to make a short stop at the cathedral.

This is the perfect opportunity to relax and reflect on the congress and engage in spirited conversation.



European Society of

estp
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Congress Registration

To register for the congress, please use the online registration form on the ESTP Website: <http://www.eurotoxpath.org>

If you have questions about the registration procedure please contact our congress organizer “Solution Office” (estp@solution-office.de).

Registration fees

	Until June 30, 2019	After June 30, 2019
ESTP Member	€ 420,-	€ 490,-
Participant (non-member)	€ 500,-	€ 570,-
One day registration ESTP member	€ 200,-	€ 200,-
One day registration non-member	€ 230,-	€ 230,-
Students*	€ 130,-	€ 130,-
IATP seminar	€ 65,-	€ 85,-
Accompanying Person**	€ 100,-	€ 100,-

Please note that a tax of 19 % will be added to the fees

* Student's registration to be supported by a letter from their supervisor of active training/residency in Pathology.

** Accompanying Person fee includes welcome reception and congress dinner. Participation in the scientific sessions is not included.

Above fees include all lectures, lunch, welcome reception and congress dinner. Coffee, tea, refreshment beverage and snacks are served during the coffee breaks. Lunch is provided during the lunch breaks on:
Wednesday, 18th September
Thursday, 19th September

Cancellation and Refund Policy

Cancellations are to be notified in writing to the congress organizing office. Refunds will be made under the following conditions:

- You may cancel without extra costs within 48 hours of placing your registration.
- Until August 1st, 2019, a 60% refund of the registration fee will be given.
- After August 1st, 2019, no registration fees will be refunded
- All refunds will be handled after the Congress.

General information

Accommodation

Cologne is well booked all year and there will be a fair during the congress. Some hotels in the downtown area are holding rooms at a special congress rate.

All hotels are in walking distance to the congress venue or connected by a direct bus or train line.

Hotel	Category	Distance to congress venue	Room	Price/night incl. breakfast	Rooms blocked 16–20 Sept. 2019	Available till	Contact/ how to book
NH Collection Köln Mediapark	****	850 m	Superior Single	€ 119,00 (minimum stay 2 nights for dates 17–19 Sept.)	50	1 st September 2019	via telephone: +30 2238 0233 via e-mail: reservierungen@nh-hotels.com reservation number: MB0001456898 keyword: ETS & ESTP 2019
Ibis Hotel Köln Centrum	**	2 km	Classic single	€ 94,00 – € 102,00 (minimum stay 4 nights)	30	22 nd July 2019	via e-mail: h1449-re@accor.com keyword: ETS & ESTP 2019
Park Inn by Radisson Köln City West	****	2,5 km	Superior Single	€ 177,00 excl. Breakfast (breakfast: € 23,00)	40	22 nd July 2019	via e-mail: Reservierung.koeln@provenhotels.com keyword: ETS & ESTP 2019

The city of Cologne charges an additional fee of 5% of the accommodation rate. Business travelers do not have to pay the fee! Please ask the hotel at the booking what you need to do to not pay the cultural fee.

Make your reservation as soon as possible.

Credit Card Guarantee

In order to guarantee accommodation you need to provide your credit card details to the hotel. The information will only be used in case of no-show or late cancellation.

Payment Options

Accommodation must be paid directly to the hotel during your stay. You will be able to pay by credit card or by cash.

Change your reservation

If you need to change your reservation, please contact the hotel directly.

General information

Weather in Cologne in September

Cologne has a temperate climate, with moderate summer temperatures and mild winters. September generally has very pleasant temperatures. The average maximum temperature lies around 18.0°C (64.4°F). You will see the sun sometimes in this month, it has 135 hours of sun. So what to wear in September? Visitors traveling to Cologne should plan on bringing a totally waterproof rain jacket since it will be raining some days. Plan on layering your clothes. Some days or part of the day it will be nice and warm and some moments it can be a bit chilly.

Language

The language of the congress is English.

Dress Code

Business casual.

Local Currency

German currency: Euro

You can exchange your foreign currency and travelers checks at German banks, exchange bureau (called “Wechselstube” or “Geldwechsel” in German), airports, railway stations and major hotels. German Banks are usually open Monday through Friday, 8:30 a.m. – 4:00 p.m. One of the fastest ways to get money cash out is by using an ATM, called “Geldautomat” in German. They are ubiquitous in German cities and can be accessed 24/7. Make sure you know your card PIN number before travelling as this will be needed to access your account on ATMs. Visa, MasterCard, and American Express are usually accepted in Germany – but not everywhere, and often not in taxis.

Electricity

Electricity in Germany is 230 Volts, alternating at 50 cycles per second. If you travel with a device that does not accept 230 Volts at 50 Hertz, you will need a voltage converter. Outlets in Germany generally accept 1 type of plug: Two round pins. If your appliances plug has a different shape, you may need a plug adapter.

General information

Disclaimer

The organizers are not liable for damages and/or losses of any kind which may be incurred by the meeting delegates or by any other individuals accompanying them, both during the official activities as well as going to/from the meeting. Delegates are responsible for their own safety and belongings.

Insurance and Vaccinations

The registration fee does not cover insurance for the delegates. The organizers recommend that delegates take out an insurance in their home country to cover pre-journey cancellation for personal reasons and to cover accidents, medical expenses and loss of personal belongings during the visit. No vaccinations are needed when visiting Germany.

Passport and Visas

Please check on the list of the Federal Foreign Office which you will find on the following link if you need to apply for a visa to travel to Germany.

<https://www.auswaertiges-amt.de/en/einreiseundaufenthalt/visabestimmungen-node>

It is the sole responsibility of the attendee to take care of his / her visa requirements. Attendees who require an entry visa must allow sufficient time for the application procedure. Attendees should contact the nearest embassy or consulate to determine the appropriate timing of their visa applications. It is recommended to apply for a visa at least 3 months in advance of the Congress. When the registration has already been paid, the registration fee minus a handling fee of 50 EUR will be refunded after the Congress if the visa was applied for in time, and proof of this, together with an official notice from the embassy confirming that a visa could not be granted, is forwarded to: pia.schroeder@solution-office.de.

Letter of invitation

If you need a letter of invitation for your visa please contact the congress organizer Pia Schröder at solution office (pia.schroeder@solution-office.de).

Please note that you have to be registered for the congress to get a letter of invitation.



General information

How to get to Cologne

By air

Cologne Bonn Airport is the largest low-cost hub in continental Europe. Around 60 airlines connect the Airport to over 130 domestic and international destinations in 39 countries.

The airport is well connected to the road network although to the bus and railway network. The new Intercity-Express (ICE) railway station is right in the centre of the Airport. From there you can get straightforward to the city of Cologne.

Cologne Bonn Airport by bus or train

2004 saw the opening of a train station right at the heart of the airport, and since then the airport has benefited from excellent public transport links with the city centre. The airport is just a 14 minute ride from Cologne central station with S-Bahn line 1 (Cologne-Troisdorf), and just an 11 minute trip with the Regional Express train RE 8 (Rhein-Erft-Express). Many ICE long-distance trains also stop at the airport train station. S-Bahn fare (ticket zone 1b) is currently € 2.90 one-way.

Düsseldorf International Airport (IATA: DUS) offers many intercontinental connections. Train ride from the airport train station to Cologne central station takes about 40 min.

Frankfurt Rhein Main International Airport (IATA: FRA) is the largest airport in Germany, served by all major international airlines. ICE (InterCityExpress) high speed trains connect Frankfurt Airport and Cologne central station in less than one hour. You can book your ticket with the Deutsche Bahn (<https://www.bahn.de>).

By train

Central Railway Station Cologne is served by two major railway stations – Köln Hauptbahnhof and Köln-Deutz.

Cologne is linked with Amsterdam, Brussels, Luxembourg and Paris by Thalys and ICE High Speed trains. Additionally, Frankfurt airport (IATA:FRA) has direct service to Cologne and is within one hour by ICE trains.

By car

Cologne requires all cars to have a “Low Emissions” sticker in order to drive around in the city centre (Low Emission Zone, “Umweltzone”). Information on obtaining a sticker (which must be done at least several weeks in advance) is available here.

Plenty of motorways (Autobahns A1, A4, A3, A57, A555) lead to Cologne. During rush hour the streets are heavily congested, also due to massive construction of a new subway tunnel Nord-Süd Stadtbahn, crossing half the city centre.

For cheap parking, with quick connections to central cologne, use park and ride (“park und ride”). At some stations, parking is free when you present a validated transit ticket on exit.

General information

Get around

Public transport

Discovering the city by bus and tram is easy because Cologne is well connected to the bus and tram network. The tariff levels depend on the distance from the city or the place where you start your journey. Even you can get day tickets for one person or for groups, for one or four journeys, and, of course, for longer periods. With the Köln WelcomeCard tourists can use the public transport for 24 hours and you also receive reductions of up to 50 % from more than 100 partners.

The different tickets are available at customer service centres. Even most of them are available at the ticket vending machines in busses, undergrounds and trams as well as at the ticket machines at most tram stops.

Day ticket for many destinations: To the cathedral, the museums or for music and shopping – the 5 persons day ticket enables small groups to comfortably reach many destinations in one day – between 9 in the morning and 3 at night, on weekends and bank holidays, even from midnight. For all of Cologne simply select price category 1b on the ticket machine of the stop or in the KVB vehicle and pay with coins or card. This ticket is automatically validated. If you purchase your ticket at a sales outlet, please validate as soon as enter the vehicle (red validating machine).

Webpage of the public transport operator:

<https://auskunft.kvb-koeln.de/kvb/cgi/page/eingabeRoute?lang=UK>

the \mathbb{R}^n is a linear combination of the \mathbb{R}^n basis vectors $\mathbf{e}_1, \dots, \mathbf{e}_n$.

Let $\mathbf{v}_1, \dots, \mathbf{v}_n$ be a basis for \mathbb{R}^n . Then any vector \mathbf{v} in \mathbb{R}^n can be written as a linear combination of the \mathbf{v}_i 's:

$$\mathbf{v} = c_1 \mathbf{v}_1 + c_2 \mathbf{v}_2 + \dots + c_n \mathbf{v}_n$$

where c_1, c_2, \dots, c_n are scalars. This is the coordinate representation of \mathbf{v} relative to the basis $\{\mathbf{v}_1, \dots, \mathbf{v}_n\}$.

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