

ESTP Newsletter 2025 (1)

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2025	
<u>February 4-13</u>	BSTP Virtual Continuing Education Symposium 11: Endocrine System Virtual meeting LINK
<u>March 20-21</u>	ESTP Classic Examples in Toxicologic Pathology XXXII, Hannover, Germany LINK
<u>July 1-10</u>	BSTP Virtual Continuing Education Symposium 12: Cardiovascular System Virtual meeting LINK
<u>September 22</u>	ESTP Expert Workshop: "Pathologic effects in the female reproductive system: Determinants of adversity for findings in nonclinical toxicity studies and considerations for integrated risk assessment." Manchester, UK
<u>September 23-26</u>	ESTP 2nd joint congress of ESTP and BSTP - Carcinogenicity in the 21st Century: Challenges of New Methodologies, Strategies, and their Impact on Pathologists, Manchester, UK, LINK
<u>October 8-10</u>	Hungarian Toxicologic Society Annual Congress TOX'2025, Mátraháza, Hungary

The ESTP council

<i>Chairperson</i>	Vanessa Schumacher	<i>Secretary</i>	Raffaella Capobianco
<i>Vice President</i>	Lars Mecklenburg	<i>Treasurer</i>	Kuno Würsch
<i>Past Chairperson</i>	Silvia Guionaud	<i>Designated Chairperson</i>	Neus Prats
<i>Congress Councillor</i>	Anna-Lena Frisk	<i>Councillor for Digital Pathology</i>	Lise Bertrand
<i>Councillor to represent University Teachers</i>	Ingo Gerhauser	<i>Councillor for Residents and Early Career Pathologists</i>	Laura Polledo
<i>Councillor for Nomenclature</i>	Ute Bach	<i>Councillor for Electronic Communication</i>	Rupert Kellner
<i>BSTP Representative</i>	Zuhal Dincer	<i>NTP Representative</i>	Eveline de Rijk
<i>Hungarian STP Representative</i>	György Selenyi	<i>SFPT Representative</i>	Céline Thuilliez
<i>STP liaison, chair of the Scientific and Regulatory Standards Committee</i>	Annette Romeike	<i>Chair, awards committee</i>	Theresa Brömel, Hans Harleman
<i>Chair, Pathology 2.0 working group</i>	Dirk Schaudien	<i>Chair, clinical pathology committee</i>	Monika Keresztes
<i>Admin Assistant to the ESTP EC</i>	Amy Narewski		

President's Column

Dear ESTP Members,

Happy New Year! I hope you have all had a successful and inspiring start to 2025.

As a society, we can look back on a very productive 2024 with pride. From the successful *Classic Examples* and *Cutting Edge Pathology Congress* to enriching educational opportunities and critical constitutional changes, it has truly been a year of growth and collaboration.

At the Annual General Assembly in September, we marked a "changing of the guard," and it is my absolute pleasure to write my first column as President of ESTP. I am excited to work alongside such dedicated colleagues in the Executive Committee, which now includes several new faces. Please join me in welcoming **Neus Prats, Laura Polledo, Celine Thuilliez, and Theresa Brömel!** You will learn more about them and their roles later in this

newsletter. I am pleased to share that our new team members are already actively contributing their ideas and vision. I look forward to seeing the impact of their efforts as we continue to advance and evolve our organization.

Beyond the Executive Committee, I know we are fortunate to have an incredibly diverse and talented membership. I encourage everyone to explore opportunities to actively engage with ESTP's initiatives, such as joining one of our working groups, including **Digital Pathology** or **Pathology 2.0**.

Congress Highlights

It was truly fantastic to join so many of you at the *Cutting Edge Pathology Congress* in **San Lorenzo de El Escorial near Madrid, Spain**. By all measures, the congress was a resounding success, with over **500 delegates** gathering around the theme of *Neuropathology*. I extend my heartfelt thanks to the **Scientific Organizing**

Committee for delivering a comprehensive and engaging program featuring esteemed experts in the field.

Looking ahead, we are now preparing for the much-anticipated **2nd Joint ESTP/BSTP Toxicologic Pathology Congress** entitled: *"Carcinogenicity in the 21st Century: Challenges of New Methodologies, Strategies, and Their Impact on Pathologists"*

Save the Date:
📍 **Location:** Manchester, UK
📅 **Dates:** 23rd - 26th September 2025

I hope to see many of you there for what promises to be an exciting and insightful event!

Recognizing Excellence

At the 2024 Annual Scientific Meeting of the British Society of Toxicological Pathology, we were delighted to present the **2024 ESTP Science Award** to **Paul Barrow**. This prestigious award acknowledges outstanding contributions to the science of toxicologic pathology. Congratulations to Paul for his significant work in **developmental, reproductive, and pediatric toxicology!**

Commitment to Diversity, Equity, and Inclusion (DEI)

This year, ESTP has taken an important step forward in our commitment to **Diversity, Equity, and Inclusion (DEI)** by officially incorporating a DEI statement into our constitution. I encourage you to read the article below by **Lars Mecklenburg**, which explores DEI in the ESTP and outlines ways to get involved in this essential initiative.

Wishing you all a productive and rewarding start to 2025. I look forward to connecting with many of you at our upcoming events and activities this year.

Together, let us continue building a stronger, more inclusive, and innovative ESTP.

With best wishes,



ESTP Chairwoman

Diversity, Equity & Inclusion

By Lars Mecklenburg, ESTP Vice Chairman & Raffaella Capobianco, ESTP Secretary

As a European organization, ESTP membership crosses many cultural, racial, sexual, gender, religious and socioeconomic borders. The ESTP Executive Committee (EC) believes that Diversity, Equity & Inclusion (DEI) are indispensable for ESTP to flourish and fulfill its mission. Therefore, we have started a DEI initiative. The first two actions were 1) including a strong DEI statement in the ESTP constitution, and 2) surveying ESTP members about their interest and beliefs in DEI topics.

Let's review what DEI means: **Diversity** acknowledges all the way people differ: race, sex, gender, age, sexual orientation, disability, socioeconomic status, religious beliefs, and more. **Inclusion** is about diversity in practice. It's the act of welcoming, supporting, respecting, and valuing all individuals and groups. **Equity** is often used interchangeably with equality, but there's a core difference: Where equality is a system in which everyone is offered the same opportunities regardless of circumstance, equity distributes resources based on needs. We live in a disproportionate society, and equity tries to correct its imbalance by creating more opportunities for people who have historically had less access.

Coming back to the ESTP initiatives, the statement that the EC proposes is the following:

§ 13 Protecting minorities and promoting diversity

ESTP treats all members equally. ESTP is committed to actively preventing or ending discrimination. ESTP supports diversity in membership and demands mutual respect among members.

Concerning the survey, we used a questionnaire that was developed by the DEI task force of the ESVP/ECVP. We are particularly grateful to these organizations for sharing this questionnaire with us. The scope of the survey was to explore general interest in the DEI topic. The survey was sent by email to all ESTP members, and we received 59 responses. Based on demographic information provided by the respondents, the responses seem to reflect the whole ESTP membership: Of those 59 respondents, 39 (66%) identified as female, 18 (31%) as male and 2 preferred not to say. 44% of respondents were 35 to 49 years of age, 42%

were 50 to 65 years of age, 9% were above the age of 65 and 5% were at the age of 25 to 34 years. Matching with the age distribution, 73% of respondents defined themselves as an experienced pathologist, 19% as a junior pathologist and 8% as a retired pathologist. 64% of respondents defined their employer as industry/corporate.

Regarding ethnicity, 85% of respondents identified themselves as White/Caucasian, 5% as Hispanic/Latino and 2% as Black/African American. We are aware that these ethnicities do not accurately reflect the situation in Europe and will redefine this question in any future survey. ESTP members were asked, if they had ever personally experienced or observed challenges related to DEI in their work environment? 61% responded with Yes and 37% with No. Furthermore, members were asked how they would describe their level of knowledge about DEI. 42% characterized their knowledge as "intermediate", 31% as "advanced understanding", 20% as "basic awareness" and 7% as "limited understanding". Asked if they were interested in participating in a DEI mentoring program, 27% responded with "No interest", 10% with "Yes, as a mentor" and 8% with "Yes, as a mentee". 54% indicated their position as "neutral".

The ESTP EC will discuss results from this survey and will define further actions. **We are looking for ESTP members who are willing to support our DEI initiative. Please indicate your interest to any of the ESTP EC members or the ESTP administrative support!** We are only requesting a few hours of your time for a topic that is aiming to make our society a more just place.

Cutting Edge Pathology Congress, El Escorial (Madrid), Spain



The annual congress of the Cutting Edge Pathology congress took place from August 28th to 31st, 2024, in San Lorenzo de El Escorial near Madrid, Spain. This year's event was a resounding success, bringing together around 500 delegates (ESTP/ECVP/ESVP) from around the world to explore cutting-edge developments in neuropathology and toxicologic pathology. The congress was organized into several sessions, each diving into specific aspects of neuropathology. Here's a quick rundown:

Neuromethods: Basic Techniques for Evaluating the Nervous System in Nonclinical Studies: Experts discussed the routine and specialized methods for microscopic neural tissue evaluation in nonclinical studies.

CNS evaluation: A day dedicated to exploring the various CNS evaluation techniques through specific biomarkers, behavioral or imaging safety assessments.

Neurodegenerative diseases: This session shed light on the pathomechanisms of some neurodegenerative diseases as well as the potential use of *in vitro* systems or specific

therapeutic options to study or treat those diseases.

Developmental neurotoxicity: Experts presented various developmental-related topics, like the introduction to developmental neuropathology; past, current and future of developmental studies; presentation of brain morphometrics.

Neuro concepts: The session covered various topics including artificial intelligence applied to toxicologic pathology, new technologies for visualization and/or analysis of tissues.

The ECVP/ESVP/ESTP joint lectures by Prof. Britta Engelhardt and Dr. Brad Bolon were attended by an impressive number of participants and were acclaimed for their scientific excellence.

The congress also featured stimulating original case studies that sparked thought-provoking discussions and fostered knowledge sharing within the community. The poster session was characterized by wide participation, showcasing approximately 50 posters. Attendees had the opportunity to immerse themselves in the local culture and enjoy the beauty of San Lorenzo de El Escorial, which provided a fitting backdrop for the congress. Social events, including an inspiring traditional reception musical event and a separate congress dinner, were well received and added to the overall experience. Sponsored sessions by Aiforia, Johnson & Johnson, Deciphex, Resero Analytics, Standard Biotools, and AiraMatrix provided deeper insights into specific topics.

An exciting addition was the IATP satellite symposium on new approach methodologies, which also included a panel discussion on this innovative topic.

In conclusion, the Cutting Edge Pathology congress in San Lorenzo de El Escorial was an impactful and highly informative experience, showcasing innovation within the field of neuropathology in toxicologic pathology. The event successfully promoted collaboration, knowledge sharing, and discussions on the latest advancements and methodologies in neuropathology.

We are pleased to invite you and looking forward to meeting all of you to the 2nd Joint ESTP/BSTP Toxicologic Pathology Congress entitled ‘Carcinogenicity in the 21st Century; challenges of new methodologies, strategies, and their impact on pathologists’ to be held in Manchester, UK, from 23rd - 26th of September 2025.

On behalf of the Scientific Organizing Committee (SOC):

Pierre Maliver, Sameh Youssef
SOC Chairs

**New Faces: Neus Prats, Designated
Chairwoman**



Dear ESTP members,

Recently, I was elected as Designated Chair and I would like to really thank you for having considered my candidacy for this position. I will take the advantage of this Newsletter to let you know a little bit more about my career path, professional interest and my ESTP society vision.

I am a senior comparative/experimental and toxicological pathologist, ECVP and ECLAM diplomate. After gaining the Veterinary degree at the Veterinary School of Córdoba (Spain), I completed a PhD in Veterinary Pathology at Barcelona Autonomous University (UAB). During my PhD, I started working as staff toxicological pathologist at Cida S.A.L. (a CRO). This was followed by an appointment as Assistant Professor of Pathology at UAB, where I simultaneously served as veterinary clinician to the Laboratory Animal Facility and played a key role in the foundation of their Integral Laboratory Animal Service (SIAL). Other significant leadership roles include my 14 years as Head of Pathology and Predictive Toxicology of a leading international pharmaceutical company, based in Spain, Almirall S.A., and 10 years as Head of the Histopathology Facility at Barcelona Biomedical Research Centre (IRB-Barcelona). My main scientific areas of interest are animal models of disease and translational and toxicological pathology in the fields of inflammatory and metabolic disease, cancer and ageing. I would also like to point out, my continuous involvement in organizing and running professional courses and masters programmes related to Pathology, Toxicology and Experimental Pathology, including FELASA-accredited laboratory animal courses

and courses of the at IMI's SafeSciMET project among others. During the last 8 years, I had the opportunity of chairing the IRB Barcelona Equality and Diversity committee, undeniably an important aspect of our profession somewhat not being considered everywhere as much as the academic and scientific part in our sector.

As Designated Chair, my vision for the ESTP society will be to enhance sustainability, inclusivity, promote education and innovation, community engagement and strengthen relationship with other sister societies. I am aware that I will not start from scratch, since there is a lot done in these aspects in the previous EC mandates. This, together with the fact that the experienced people forming the governing body were the main reasons that encouraged me to apply for the position.

Looking forward, I am visioning for the ESTP society with its outstanding history, tradition, and reputation, a world in which it has to adapt and evolve quickly and efficiently to new coming challenges coming from Science and Technology but also from new toxicological regulations in the Biomedical Science, Drug Development area and other related fields. For that, I really believe in a collaborative work between different task force groups within the ESTP, where one can benefit from the others in terms of values, networking, mentorship, adaptation to new technologies and innovative initiatives. To achieve this, it is important to really promote and enhance the attraction of junior veterinary pathologists to the field of toxicological pathology and at the same time to encourage senior members to maintain their commitment and engagement with the society. Another important aspect will be broader and

increase the representation of people from different ethnicities to potentiate diverse perspectives and skills and to enrich cultural diversity which will certainly favours a more dynamic, effective and successful society. Last but not least, also at a more international level the organization needs to pursue and strengthen its relationship and stablishing synergies with other sister European, UK and US toxicological, pathology and laboratory animal societies to the benefit of all.

For all of that, I really value the spirit of open-minded collaboration in an environment where all the members feel comfortable and respected to share their ideas and initiatives. With this, I confirm my commitment to share my experience and to contribute to achieve this so to continue growing as professionals and as a society. Starting today, I am dedicating time and efforts to learn and work closely with the current ESTP Chair, Vanessa Schumacher, and all the Executive Committee in order to be ready to take over swiftly the Chair position in 2026.

I am looking forward to the opportunity of working together and achieving great things for the ESTP society!

Kind regards,

Neus Prats Costa, ESTP Designated
Chairperson

New Faces:

Laura Polledo, Councillor for Residents and Early Career Pathologists



Dear ESTP Members,

I am pleased to introduce myself as the newly elected Councillor for Early Career Pathologists, succeeding Simone Tangermann. I would like to extend my gratitude to Simone for her dedication and contributions to supporting early career pathologists over the past year. Notably, Simone is currently working on expanding the accessibility of the outstanding Toxicologic Pathology Training Program in Hannover for European residents interested in toxicologic pathology.

I graduated from veterinary school at the University of Leon (Spain), pursued my doctoral degree, and completed a veterinary pathology residency at the University of Nottingham (UK). These formative years were primarily focused on research and diagnostics. Although I always had an interest in toxicologic pathology, my

initial focus was on achieving my doctoral degree, passing the ECVP board exam, and advancing my research. My journey in the field of toxicologic pathology began in 2019 when I joined Anapath (Switzerland). Shortly thereafter, I continued my career at F. Hoffmann-La Roche in Basel, where I am currently working as a project pathologist. The opportunity to contribute to impactful research and development in toxicologic pathology fills me with immense pride and enthusiasm.

I am thrilled to take on the role of Councillor for Early Career Pathologists and am eager to engage with young pathologists, encouraging them to explore the rewarding field of toxicologic pathology. My goal is to help bridge the gap between veterinary pathology training and a career in toxicologic pathology.

The ESTP educational initiatives, including webinars and seminars for early career toxicologic pathologists, have been a tremendous success, serving as excellent tools for continuing education. These initiatives provide young colleagues with valuable insights into topics that may not be extensively covered at their training sites or workplaces. Additionally, the ESTP remains committed to supporting the ECVP Summer School, representing our society and attracting young colleagues to pursue careers in toxicologic pathology. We will continue these initiatives and evaluate ways to make them even more attractive to draw young talent to our society.

Furthermore, I would like to establish better communication to understand how we can contribute more effectively to the education of residents in toxicologic pathology, fostering

collaborations toward support of pathologist education in tox path to enrich their knowledge and help them approach and understand our discipline better.

And please, if your company has any internship opportunities for veterinary students, residents, or young certified colleagues, do not hesitate to reach out to me.

Wishing you all a productive and fulfilling end to the year.

Warm regards,

Laura Polledo

Councillor for Residents and Early Career Pathologists

New Faces: Celine Thuilliez, SFPT Representative



Dear ESTP members,

At the beginning of this year, I became the new President of the French Tox Path Society (SFPT) and am now taking over the role of SFPT representative on the executive committee. I

would like to thank Beatrice Gauthier for her involvement in this role over the past years. I hope to be able to fill her shoes.

After earning my veterinary degree and spending a few years in veterinary practice, I completed a residency program at the Veterinary School of Lyon in France. I passed the ECVP exam in 2010, and after gaining experience in diagnosis and research, I joined the industry, working in various CROs and pharmaceutical companies. I am currently working at Novaxia Laboratory, a CRO dedicated to pathology services.

I believe that good interactions between the different sister societies are key to promoting our domain of activities, and I am fully dedicated to contributing to this objective.

Celine Thuilliez

SFPT representative

New Faces: Theresa Brömel, Chair of the Award Committee

Dear ESTP Members,

I am deeply honored to support our Society as the new Chair of the Award Committee. I am taking over the role from Hans Harlemann and would like to thank him for his commitment to the Committee, the enthusiasm he put in it and the seamless handover of the responsibilities linked to this role. I am pleased to share that Hans will continue to contribute his expertise to the Committee as a valued member.

Since 2023, I am a project pathologist at F. Hoffmann-La Roche (Switzerland) within the Pathology and Applied Safety Science team. My

primary focus lies in the exciting and rapidly evolving fields of ophthalmology and immunology.

My academic journey began with a degree in veterinary medicine from the Free University of Berlin, where I also embarked on my doctoral period and residency, concentrating on research and diagnostics. In 2018, I joined a collaborative research center that focused on the innate immunity of the lung, utilizing various infectious and non-infectious mouse models, and notably, hamster models for COVID-19 during the pandemic. In 2021, I transitioned to the field of toxicologic pathology by joining Evotec SE in Hamburg, further broadening my expertise.

Impactful publications play a pivotal role in shaping our pathology and research communities. I am very excited about the opportunity to work with the entire Award Committee to identify and acknowledge these outstanding contributions. However, we also rely on you, our dedicated members, to be our eyes and ears. We warmly welcome your suggestions for award nominations and I encourage you to reach out to me with any recommendations of relevant publications/theses in the broad field of toxicologic pathology.

Thank you for your continued support and engagement. I wish you all a wonderful beginning to 2025.

Warm regards,
Theresa Brömel
Chair of the Award Committee

Award Committee

The Award Committee has a new Chair Theresa Catharina Brömel (**intro see previous article**). She will take over from Johannes Harleman, who will stay on the Committee as a member.

We also warmly welcome a new member to the Committee Robert Klopffleisch. Two long acting members Matthias Rinke and Lars Mecklenburg decided to leave the Committee. We thank them for their contributions and service on the Award committee. We are open for other ESTP members who would like to serve on the award Committee. It is a great opportunity to contribute to the ESTP society. We all need to be on top of the literature and new developments in our field, so we frequently see the newest papers.

In 2025 the ESTP will also have a publication prize. The announcement will be sent to you in January, as well as being published on our website and LinkedIn site. In this announcement you will be asked to submit interesting papers/theses in the field of toxicological pathology to the Chair of the Committee.

For the Award Committee: Theresa Brömel and Hans Harleman

goRENI Webinar Recap

The INHAND GESC hosted the STP webinar ‘How to Get the Most Out of goRENI’ on July 18, 2024. PDF files of published terminology for all rodent organ systems and the major non-rodent species from the INHAND project are maintained on the goRENI website as well as on major society websites. The goRENI website has the most current terminology and diagnostic criteria available and should be the first line of access when looking to review INHAND terminology. goRENI also provides shortcuts to differential diagnostic terms and images. It also lists working group membership and provides a function for downloading the actual list of INHAND terms. During the webinar Rupert Kellner, goRENI Webmaster, provided an overview of the website, how to obtain an account, ways to access terminology (e.g., Introductions, Organ systems, Organs, Index), access to rodents versus other non-rodent species, and how to take advantage of the configuration options. In addition, examples for using goRENI were provided by frequent users Emily Meseck and Dan Patrick. The webinar was a great hit with over 200 attendees. The recorded webinar can be replayed at the following link:

<https://vimeo.com/1001202134/40018dc7ab?share=copy>

TOX’2024, 9-11 October 2024, Bükfürdő, HUNGARY

The annual conference of the Hungarian Sister Society of the ESTP was accommodated by the Greenfield Hotel Golf & Spa in Bükfürdő

located in the western border of the country known as one of the best thermal spa regions of Hungary. The relative high number of participants (165) despite the distant location reflected a sustained interest in this event shown by colleagues working in different fields of toxicology in Hungary.

Toxicologic pathology related lectures were presented within the frame of the Nonclinical Drug Safety session conducted on the first day of the meeting. The language of the meeting was Hungarian as always, however, in accordance with a recent tradition, the Hungarian speakers of the session had been asked to prepare their slides in English to ensure that those not speaking Hungarian can follow the presentations. In addition to nonclinical drug safety, the scientific program included sessions of ecotoxicology and forensic toxicology as well as two parallel poster sessions, one for ‘Efficacy and Hazard’ and another one for ‘Environmental Pollutants’ on the second day and clinical toxicology on the final day. The second day included the annual general assembly and the congress dinner, too.

Wednesday afternoon, after a warm welcome by the chairman of the Society of Hungarian Toxicologists, the program of the Nonclinical Drug Safety Session started off with the plenary lecture delivered by Monika Keresztes from Boehringer Ingelheim, the chair of the ESTP Committee on Clinical Pathology and Biomarkers. She had kindly accepted the invitation of the Hungarian Sister Society and presented a comprehensive and very interesting talk titled “Clinical Pathology: The Undercover Agent of Preclinical Drug Development”. The talk addressed all aspects of clinical pathology testing including both the traditional endpoints

of hematology, coagulation, clinical chemistry and urinalysis and specific biomarkers of inflammation or target organ toxicities with emphasis on the role and impact of the clinical pathologist on drug safety evaluation and overall development success.

Our next speaker, Matthias Rinke, used the paper of van Tongeren and her co-authors from 2011 as a point of departure. The paper was published with the aim of promoting understanding of the important role of the toxicologic pathologist in drug development and encouraging young scientists, veterinary students, and veterinarians to explore it as an important career option. In his talk titled “The Role of the Toxicologic Pathologist in Drug Development – Revisited” our speaker provided an update on the changing professional and regulatory conditions and environmental situations toxicologic pathologists nowadays face as well as the training and background requirements necessary to join the profession.

Zoltán Krajcsovicz from Gedeon Richter (GR) in his talk titled “Gavage-Related Reflux in Rats” reviewed the entity, discussed the challenges associated with the diagnosis and presented an example of the occurrence of this phenomenon in a vehicle toxicity study conducted at our laboratory in GR.

The remaining lectures of the session addressed ADME properties of good development candidates (Mónika Vastag from GR), recent challenging or promising changes in the regulatory guidance for carcinogenicity testing strategy, nitrosamine drug substance-related impurities and environmental risk assessment (ERA) of medicinal products for human use

(György Selényi, Lilla Keresztes and Gyula Szűcs from GR) or presented an own-developed method for digital documentation and analysis of DART studies (Josef Magyar from NEXTREAT Laboratories), respectively.

Early reflections indicated the plenary lecture and the whole Nonclinical Drug Safety session met with a warm response.

György Selényi

Obituary to Professor Eberhard Karbe



On July 13, 2024, our dear colleague and honorary member, Professor Dr. mult. Eberhard Karbe passed away, aged 89, after a long and sad period of illness. Herewith, on behalf of the ESTP Executive Committee, we would like to honor and commemorate his remarkable legacy and life achievement.

Between 1960 and 1970, Eberhard Karbe studied zoology and veterinary medicine in Marburg, Vienna and Giessen. After working some time in practice and gaining his doctoral degree in microbiology, he left Germany for five years for Canada (Guelph) where he proceeded to a Master of Veterinary Science in embryopathology, followed by a Ph.D. in Veterinary Pathology from the University of Connecticut (USA). His final academic destination was Zurich in Switzerland.

Eberhard Karbe joined industry in 1970 as an anatomical pathologist and later became Head of the Department Toxicology and Experimental Medicine of Battelle Institute, Frankfurt, where he was involved especially in studies in inhalation and experimental lung cancer.

This employment was followed by the "African" years, which started 1977 in Kenia and ended up in Togo, sent as an expert by the German Society of Technical Collaboration (GTZ). After his return, he was working as a veterinary pathologist and professor at the University of Nebraska before he joined Bayer AG, Wuppertal in 1984 and retired as Head of the Institute of Toxicologic Pathology in 1998.

Shortly after his return to industry in 1986, Eberhard Karbe was one of the initiators and leader of the founding assembly to establish the "Gesellschaft für Toxikologische Pathologie" (GTP), a group of German-speaking scientists working in the field of Toxicologic Pathology in Austria, Germany and Switzerland. From the beginning, the GTP had its nomenclature issues and diagnostic criteria handled by GTP members in the RITA (Registry of Industrial Toxicology Animal-data) Project for which he served as a driving leader and chairman from 1987 until 1999. Internationally well connected, he also served the IFSTP as chairman of a committee on

carcinogenicity and was a member of the STP/ILSI Committees on International Standardization of Nomenclature and Diagnostic Criteria. This resulted in the WHO/IARC fascicles "International Classification of Rodent Tumours" for the rat (1992-97), the RITA guides for organ sampling and trimming procedures in rats, and later the WHO/IARC book on tumors of the mouse (2001). He was one of the most important driving forces of this community and spent lot of private time for its progress. He was known to convince with words and a twinkle of his blue eyes. Without him, we would not have INHAND today.

Education and transfer of knowledge were always an important topic in Eberhard Karbe's life. Together with Prof. Wolfgang Drommer, he started in 1994 the seminar series "Classic Examples in Toxicologic Pathology" at the School of Veterinary Medicine Hannover from where he received an honorary professorship. The "Classic Examples" turned out to be one of the most valuable and accepted training modules for toxicologic pathologists all over the world, and are an annual highlight until today.

After his retirement Eberhard Karbe remained active. Besides a private consultancy and his continuous personal engagement for the Classic Examples until 2013, he was the main driving force behind the transition of the GTP into the European Society of Toxicologic Pathology (ESTP) in 2001. He recognized early on the importance of a broadly organized European Toxicologic Pathology community. For his invaluable contributions and personal dedication to the ESTP he was bestowed the honorary membership in 2004.

Alongside all of his dedication and lasting contributions to the community of Toxicologic

Pathologists, Eberhard Karbe remained a convinced veterinarian. Since 1999, he and his family supported traditional poultry breeders with the project “Hilfe für Kleinbauern/Help for Small Farmers in Togo” by transferring veterinary knowledge and techniques in means of vaccination and improvement of hygienic conditions and helped them to achieve an increased income and the possibility to give their children a better perspective. He and his wife annually visited Togo to care for the project and meet the responsible veterinarians and state representatives.

With Eberhard Karbe we have lost a personality of high and worldwide recognized reputation, a great leader and mentor, and a colleague who was always of help and new ideas. Our thoughts are with his wife Patricia and his four children and grandchildren.

Matthias Rinke, Susanne Rittinghausen, Annette Romeike