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Message from the ESS President



It is with pride and humility that I take on the role of President of the European Shock Society (ESS). I would like to take this opportunity to express my sincere gratitude to all members of the society for their trust and respect. I am taking over from Borna Relja (Ulm, Germany), who has confidently steered the society over the last two years of her presidency and has had a significant impact on the society with her ideas and commitment. The 21st ESS Congress in Dubrovnik (Croatia), which has just come to a very successful end, is a reflection of her personality. Never before in the history of the ESS have so many prizes been awarded to young, motivated and committed young scientists as this year. Particularly noteworthy in this context is the Tomasz Skirecki Memorial Award, which was presented to five young scientists and included not only a travel allowance but also the annual ESS membership fee. In terms of congress content, it should be noted that almost half of all presentations were given by female scientists, and over 60% of the speakers were under 45 years of age! The tandem concept, which was introduced for the first time this year and aimed to integrate young scientists as session chairs, was perceived as very successful. From my personal perspective, one highlight of this year's congress was undoubtedly the summer school (FOR5417), organised independently by young scientists and supported by the German Research Foundation (DFG), which featured a variety of hands-on sessions on the topic of acute care for critically injured patients with a strong focus on current research concepts in the field of trauma and sepsis. Together, we experienced a scientifically highly demanding and competitive ENIAC competition with a happy female winner. The decision on the award was extremely close, and I would therefore like to emphasise once again the quality of the five papers that were shortlisted for the final round.

At the working level of the ESS several changes had to be voted upon. I wholeheartedly welcome Sina Coldewey (Zurich/Switzerland) as President-Elect for the term 2028-2029 and Anna Herminghaus (Düsseldorf/Germany) as the new Treasurer. With the tragic passing of Tomasz Skirecki at the beginning of this year, the ESS family lost not only a highly valued person, colleague and friend, but also an extremely active member of the Society, most recently in the role of Councillor. Two other Councillors, Stefanie Flohé and Markus Huber-Lang, were not eligible for re-election, and I would like to warmly welcome Antigoni Kotsaki (Athens, Greece), Attila Rutai (Szeged, Hungary) and Christian Bergmann (Ulm, Germany) as new Councillors of the ESS. Together with Brendon Scicluna (Msida/Malta) and Federico Aletti (Sao Paulo/Brazil) we now have a five strong Councilors to support the Society.

After the congress is before the congress, and my team and I have already begun planning for the 22nd Congress of the European Shock Society, which will take place from 15 to 17 September 2027 in Cologne, Germany. May I ask everyone to already make a note of this date in their calendars.

Following the successful congresses in 2008 and 2015, the ESS family will now meet for the third time in Cologne, and it is a great honour for me to welcome you back to our beautiful city on the Rhine river in two years time from now. Until then, my aim is to contribute to further advancing the Society in terms of content and structure, with a particular focus on the closer integration between basic research and clinical application. I cordially invite you to join us on this journey and to work together towards our common goals. Next year, we will already have the unique opportunity to present European shock research to the international community at the joint congress of the US Shock Society and the International Federation of Shock Societies (IFFS) in Las Vegas (USA) as a key driver of global scientific advancement in the field. 'The future begins now!'

With warm regards

Marc Mägele
ESS President 2025-2027

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Message from the Immediate Past ESS President



Together in white beneath the lights of Dubrovnik — a beautiful finale to our ESS journey, celebrating science, unity, discovery, and friendship

Dear ESS Members & Friends,

As I hand over the presidency of the European Shock Society and step into the role of Immediate Past-President, I cannot imagine a more meaningful conclusion to these two years than our **21st ESS Congress in Dubrovnik**.

Preparing this congress has been a journey. I began more than two years ago, and by some miracle (and many sleepless nights) I had everything prepared two weeks before (!) the congress began. From buying the background pic, the domain for abstract submission to designing the logo, pens, booklets, and program, from choosing wines and menus to even selecting the bands and the boat—it was a true labor of love. Naturally, there were moments that didn't go as planned: airline strikes, last-minute adjustments, and countless small challenges. But these moments make you grow beyond yourself, and because your support, energy, and smiles gave me the motivation to carry on.



Moments of insight and inspiration — keynote lecture in a full auditorium during the ESS Congress in Dubrovnik

When we sent out invitations, I expected many rejections and prepared myself for a tough task. Instead, nearly all invited speakers accepted—a wonderful “problem” to have! In the end, we created space for **70 talks**, welcomed **more than 100 submitted abstracts**, and enjoyed a vivid **poster session with 60 posters and six poster awardees**. For the first time in ESS history, **all abstracts were published before the congress as open access**. This was a

tremendous effort with the publisher, but in the end, we succeeded — giving our science the visibility and recognition it deserves.

Another historic achievement: we proudly presented **51 awards — the highest number in ESS history**. This not only celebrates excellence but also underlines our commitment to recognizing and supporting the next generation of investigators. With participants from **22 nations**, nearly **half of oral presenters being women**, and **more than half under 45 years of age**, Dubrovnik was a true reflection of ESS: diverse, inclusive, and future-oriented.



An unforgettable evening reception — sunset vibes, great beats from the DJ, delicious food, and a spectacular atmosphere by the Adriatic

From early-career researchers to seasoned experts, the poster session brought together diverse voices and vibrant science in Dubrovnik



Croatian nights — flavors, folklore, laughter... and a bus ride for the brave



Behind the scenes, many deserve special recognition: the **international scientific board** for their guidance, our **sponsors and supporters** — CRC1149, DFG FOR5417, Cytolytics, the Akademie für Unfallchirurgie, Dubrovnik Sun, and others — and above all, my **local team of researchers, assistants, students, and my secretary**. Without your tireless work, creativity, and patience, this congress would not have been possible. You were the heart of the organization, and I am proud beyond words of what we achieved together.

But most of all, the success of this meeting belongs to **you — the participants**. Scientists, clinicians, students, mentors, and colleagues: you filled the halls with curiosity, energy, and debate. You turned Dubrovnik into more than a venue — you made it a place of exchange, inspiration, and friendship.

I also warmly welcome our **new board members**, who bring fresh ideas, energy, and commitment. With their leadership, the ESS will continue to prosper and grow.



Thanks to my crew — Nils, Christian, Helen, Sabine, and so many others who made it all possible!



From the **ESS Summer School** to the **cutting-edge sessions on trauma, sepsis, and precision medicine**, from the inspiring **keynotes** to the **ENIAC competition**, and from intense scientific discussions to evenings of laughter in Dubrovnik's Old Town—this was not just a congress, it was a **celebration of who we are as a community**.

I hope that this congress will not only stay in your memory as another event, but as an experience that touched both your science and your spirit. If you left Dubrovnik with new knowledge, new connections, and maybe even new friendships, then we have succeeded together.

So let me end with a **hail to you — the audience, the participants, the heart of ESS**. You are the reason this society is strong, and why its future is so bright.

And as your outgoing captain, I can proudly say: the **ESS ship** has been navigated successfully, happily, and with joy. The crew was happy, the crowd was happy — and yes, the captain was happy too!

Thank you all — for your science, your spirit, and your friendship.

With gratitude and warm regards,



Borna Relja
President (2023–2025), now Immediate Past-President

Message from the ESS General Secretary



First of all, I would like to congratulate Borna on the perfectly organized 2025 ESS congress. Not only was the scientific program excellent, but the environment and the location were also magical. I told Borna that Dubrovnik could be a perfect permanent venue for ESS congresses ☺. I would also like to thank not only Borna, her wonderful team, Dubrovnik Sun, and the international scientific board, but also the renowned scientists who joined the ESS congress for bringing so many enthusiastic young people to the congress. And, of course, thanks are also due to the organizers of the Summer School and the workshops.

It was a truly special experience to meet in person the ESS members whom I had previously known only through emails exchanged during the membership application process. I am delighted to see the ESS community steadily growing, with two new members joining the ESS family immediately after the congress. At the same time, I would like to express my sincere appreciation to the long-standing ESS members for their loyalty, without whom such an outstanding scientific program would not have been possible. It is reassuring to know that the ESS can always rely on their support. The new feature on the ESS website — reminders about membership fee payments — also serves the primary purpose of keeping us in touch with each other.

I would like to extend my heartfelt congratulations to Jean-Marc Cavaillon on receiving honorary ESS membership. He has long been a role model for me, particularly during his presidency of the ESS, when his unwavering enthusiasm greatly enhanced the society's visibility — a dedication we could also appreciate through his insightful contributions to the newsletters.

I would also like to congratulate to Marc Maegele on accepting the position of ESS President for the second time. Having served the ESS for many years—first as President in 2015, and later as a board member and treasurer—he has shown remarkable dedication to the Society. I wish him every success in his continued work. I am equally delighted that we have finally convinced Sina Coldewey to take on the responsibility of organizing the ESS Congress. Congratulations to her on being elected President-Elect. I am confident that the ESS is in excellent hands with both of them, and I encourage all ESS members to support their efforts in every possible way.

Your secretary,

Andrea Szabó
General Secretary of the ESS

The Treasurer's Corner



Dear ESS members and valued friends,

At this year's ESS Congress in Dubrovnik, I had the great honor of being elected as the new Treasurer, following **Sina Coldewey**, who has assumed the role of **President-Elect**. I am deeply grateful for your trust and confidence.

I have been part of the ESS community for ten years and served as an **auditor** for the past two. For me, the ESS is far more than a scientific society - it is a source of inspiration, collaboration, and genuine friendship. I greatly value our **non-hierarchical structure**, the **warm and welcoming atmosphere** at every congress, and the **open, supportive spirit** among our members.

ESS congresses are always a highlight. They offer a rare opportunity not only to learn about the latest clinical and experimental research on shock but also to engage directly with the authors behind these studies.

Research has always been my **passion**, though my path has been unconventional. I began my basic research on sepsis at the **University of Düsseldorf** only after completing my training in **anesthesiology and intensive care medicine**. I find it immensely rewarding to bridge clinical and experimental work, to view the same disease from two complementary perspectives, and to tackle it on both fronts.

Through the ESS, I have met many people who share this passion - many of whom have become dear friends. I especially value our society's **dedication to supporting young researchers**. The path of science is often challenging, particularly at the beginning, and having a helping hand makes all the difference. In the ESS, that hand is always there.

Please remember that ESS relies on membership fees to stay financially stable and to continue generously supporting young researchers. We encourage you to keep your membership up to date and to share with colleagues and friends why being part of ESS is truly worthwhile!

As Treasurer, I will do my utmost to ensure the **financial stability** of our society and, as a Board member, to preserve the **unique spirit and collegial culture** that define the ESS.

Finally, I want to thank our **Past President, Borna Relja**, for organizing such an **unforgettable congress in Dubrovnik**. I look forward to seeing you all at the **2027 congress in Cologne!**

Warm regards,

Anna Herminghaus
Treasurer of the ESS

The ESS 2025 Congress – Croatia – Innovations & Milestones

The **21st ESS Congress in Dubrovnik** was more than a scientific meeting — it marked a year of true innovation for our society. Several “firsts” and new initiatives made this congress unique and set important directions for the future:

1. Open Access Abstracts – a Historic First

For the first time in ESS history, *all abstracts were published in SHOCK before the congress as open access*. This achievement was the result of tremendous effort and coordination, but it means that our research reached the scientific world immediately, freely accessible to all. It underscores ESS’s commitment to transparency, visibility, and global impact.

*Abstracts: 21st Congress of the European Shock Society (ESS)
September 18-21, 2025 Dubrovnik, Croatia
Shock 64(3S):p S1-S44, September 2025.
DOI: 10.1097/SHK.0000000000002663*



https://journals.lww.com/shockjournal/fulltext/2025/08002/21st_congress_of_the_european_shock_society_ess.1.aspx

2. 51 Awards – a Record Number

Never before had the ESS recognized so many scientists. With **51 awards** in total, this congress broke all previous records. These prizes not only celebrate scientific excellence but also encourage participation and highlight the breadth of talent across our community. Recognition is more than a medal — it is motivation, encouragement, and a visible sign of belonging to a thriving society.

3. Poster Awards – Spotlight on Interactive Science

Our **6 poster awardees** demonstrated the strength of discussion and exchange in the poster halls. Poster sessions remain one of the most dynamic platforms for junior scientists, and the awards reinforced their value as an integral part of scientific communication.

4. Tomasz Skirecki Memorial Awards – Honoring Tomek’s Legacy

In memory of our colleague and friend **Tomek Skirecki**, we established **5 Memorial Awards** for young scientists to join the ESS. This initiative ensures that his passion for mentorship and young science lives on, while supporting the next generation in his name. It was one of the most meaningful and emotional innovations of this congress.

5. Diversity in Oral Presentations – Women at the Forefront

With **nearly half of all oral presenters being women**, Dubrovnik reflected the diversity of modern science. Sex balance on stage is not just symbolic — it sets an example, opens opportunities, and ensures that excellence is recognized across the entire spectrum of our community.



Some of our excellent female speakers: Helen Rinderknecht, Antigoni Kotsaki, Julia Burger, Rawan Kawach, Sandra Dieterich, Birte Weber, Marcela Hortová Kohoutková

6. Young Voices – More than Half Under 45

More than **half of all presenters were under 45 years of age**. This milestone shows that the ESS is increasingly a platform for emerging leaders, offering younger investigators visibility, voice, and responsibility. Our society is not just preserving tradition but investing actively in the future.



Some of our excellent young speakers: Szabolcs Péter Tallósy (Hungary), Anne Neubert (Germany), Christian Bergmann (Germany), Erik Michels (The Netherlands), Aileen Ritter (Germany), Gustavo Ferreira Alves (Italy), Brendon Scicluna (Malta), Nico Sollmann (Germany), Na Liu (Germany), Kacper Bielak (Poland), Marc Hanschen (Germany)

7. Keynote Speakers – Excellence in Diversity

We welcomed **two keynote lectures**, each representing not only scientific excellence but also the diversity of character and perspective in our field. Keynotes set the tone of a congress; in Dubrovnik,

they showcased the broad horizon of approaches and personalities that together advance critical care and trauma research.



Fabienne Venet and Tom van der Poll – thank you!

8. Early Career Researchers as Co-Chairs – a New Format

For the first time, **early career researchers applied to co-chair scientific sessions**. The enthusiasm was overwhelming, and the pilot initiative was a great success — in fact, so many applied that we could not accommodate them all. This shows the deep commitment of our young members to active participation and leadership. It is a tradition worth continuing and expanding.



9. Juniors Only – ESS Summer School

The **ESS Summer School 2025** was organized **entirely by junior scientists**. This was a bold innovation, and they succeeded brilliantly. By entrusting the younger generation with full responsibility, we demonstrated our confidence in their abilities — and they rewarded that trust with creativity, professionalism, and excellence.

In summary: ESS 2025 in Dubrovnik was a congress of many “firsts.” Each innovation — from open access abstracts to new award programs, from diversity to junior-led initiatives — represents a step toward a society that is more open, more inclusive, and more future-oriented. These achievements are not only milestones of this congress but building blocks for the next decades of ESS.

The ESS 2025 Congress – Summer School

Bridging Emergency Medicine and Translational Trauma Research

On September the 18th 2025, the picturesque city of Dubrovnik hosted the ESS Summer School 2025, bringing together 20 participants from 9 European cities for an intensive and interdisciplinary exploration of emergency medicine and trauma research. With a balanced mix of basic scientists and clinicians, the program fostered dynamic exchanges between bench and bedside perspectives. The ESS



summer school was funded by the DFG FOR5417. After a warm welcome and a brief introduction to the topic of polytrauma, the participants were divided into small groups to spend the rest of the day with many practical and informative exercises and lectures. The scientific background was illustrated using the clinical example of a motorcyclist with pelvic injuries, lung contusion, a lower leg fracture, intracranial hemorrhage, and ruptured spleen. This case of a severe polytrauma accompanied the participants throughout the day.

The first Session was organized by Dr. med. Aileen Ritter (University Hospital Frankfurt) dealing with the Prehospital and Acute In-Hospital Medical Care. The Participants practiced preclinical patient assessment and the ATLS emergency treatment protocols. Further, the “Stop the Bleeding” module provided hands-on training in hemorrhage control like applying a pelvic sling or tourniquet, supported by insights into coagulation dynamics in critically ill patients.

The second session focused on the Emergency Surgery Concepts and Early Inflammatory Response and was planned by Dr. med. Nils Becker (University Hospital Ulm). The participants learned in a lecture on posttraumatic inflammation and the “second hit” phenomenon the immunological challenges of surgical trauma care. Practical training in emergency operative techniques (damage control vs. early total care surgery) rounded out the session with high-impact skill development. Afterwards a well-deserved pause offered time for informal networking and reflection.



The afternoon started with a Session about Inner Clinical Management and complications on the ICU and was given by Dr. med. Christian Bergmann (University Hospital Ulm). This session focused on the complexities of intensive care for polytrauma patients. Participants reviewed ICU protocols for managing critically ill individuals. Furthermore, case-based discussions supported by a simulation monitor explored inflammatory mechanisms behind common complications.

The Last Session was led by Dr. med. Birte Weber (University Hospital Frankfurt) and focused on “Current Advances in Trauma Research – From Bedside to Bench and Back”. This research-focused session



showcased the translational potential of trauma science by highlighting treatment options and their underlying studies. The session concluded with a spotlight on the DFG FOR 5417 research group highlighting novel approaches and emerging research topics.

The interesting day ended with a short feedback session and transitioned directly into the start of the official ESS meeting.

Taken together, the ESS Summer School 2025 successfully merged clinical urgency with scientific inquiry, equipping participants with practical skills and research insights to advance trauma care. The setting in Dubrovnik provided not only a stunning backdrop but also a collegial atmosphere that encouraged exchange, innovation, and future collaboration.

We look forward to continuing this tradition of excellence in trauma education and research in the next years, within the positive and encouraging community of the European Shock Society.

Organized by Clinician Scientists and ESS Board Members:



Birte Weber



Aileen Ritter



Christian Bergmann



Nils Becker

The ESS 2025 Congress – Workshops

Workshop 1: Point-of-Care Viscoelastic Testing in Hemorrhagic Shock

As part of this year's congress of the European Shock Society, a workshop was held on the use of viscoelasticity-based diagnostic procedures in traumatic haemorrhagic shock. It is well known that acute blood loss due to uncontrolled bleeding sources accompanied by coagulation disorders is the main cause of preventable deaths after severe injury. The aim of the workshop was therefore to highlight the key pathophysiological drivers of acute coagulation disorders in the context of severe trauma and to present possible approaches to early detection and diagnosis beyond the usual laboratory chemical methods. Compared to these, viscoelasticity-based methods have the potential to detect functional disorders in a timely manner and to visually represent specific phases of the blood clot formation process. The results are incorporated into current targeted and personalized treatment algorithms, which were also presented and discussed during the workshop. The workshop participants were primarily young, committed and clinically active colleagues who were able to take home essential fundamentals and concepts for modern coagulation therapy in severely injured patients with bleeding.



Workshop organized by Marc Maegele (President of the ESS)

Workshop 2: From Data to Discovery – Master Modern Flow Analysis with Cytolution



Funded by Cytolytics (<https://cytolytics.de/>) and organized by Serina Pinar and Can Pinar

Workshop 3: From Theory to Hands-On Expertise – Modelling in Trauma and Sepsis hosted by the Network Trauma Research (NTF)

As part of the ESS 2025 Congress, the workshop “Modeling in Trauma and Sepsis,” hosted by the Network of Trauma Research (NTF, Sektion Grundlagenforschung, Deutsche Gesellschaft für Orthopädie und Unfallchirurgie), offered an engaging and hands-on introduction to experimental models in trauma and shock research. Held on September 19th in Hall 3, the workshop brought together both early-career and experienced researchers, all eager to deepen and share their knowledge. Under the expert chairmanship of Prof. Dr. Sabrina Ehnert (Tübingen, Germany), the event fostered active exchange and a shared passion for advancing trauma research.





The program featured five expert talks followed by excellent discussions, each of which was delivered by researchers who both develop and use these models daily in their labs. Christina Schwenk (München, Germany) opened the workshop with an in-depth presentation on burn shock models, sharing practical insights into every step of the procedure and how these models simulate the complex systemic immune response following trauma. Dr. Nadja Muelhaupt (München, Germany)

followed with a presentation of a newly developed mouse model for acute respiratory distress syndrome (ARDS), highlighting both the technical challenges and the translational potential of preclinical lung injury models. Prof. Dr. Claudia Neunaber (Hannover, Germany) shared her group's polytrauma mouse model, detailing how different trauma types are combined and standardized for long-term follow-up. From Ulm, Germany, Dr. Marsela Hakani gave an overview of traumatic brain injury models, emphasizing the neurological damage aspect of trauma. Finally, Dr. Helen Rinderknecht (Ulm, Germany) presented current *in vitro* modeling approaches for trauma and shock research, highlighting their value in dissecting specific pathways while candidly addressing current limitations and future applications.

What truly set this workshop apart was the remarkable openness of the speakers. Rather than polished overviews, they shared their real in-depth protocols, discussed



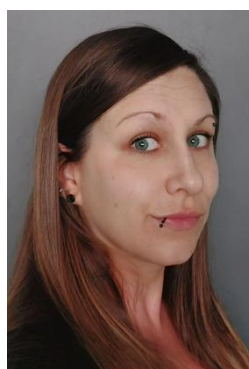
common pitfalls, and offered troubleshooting advice—giving participants rare, behind-the-scenes insights. This openness fueled vibrant discussions, with attendees eagerly exchanging questions, ideas, and experiences, making the workshop a space for open exchange and connection that perfectly balanced scientific depth with accessibility.

A heartfelt thank you goes to the Congress Organizing Committee for inviting us, to the NTF for hosting this session, to all the speakers for their generous and detailed sharing, and of course to the attendees whose enthusiastic participation and lively discussions truly brought the workshop to life!

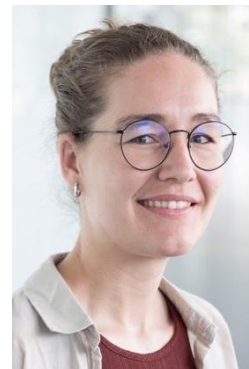
Organized by ESS Post Docs:



Jasmin M. Bülow
(ESS Member)



Katrin Bundkirchen



Helen Rinderknecht
(ESS Member)

The ESS 2025 Congress – Messages from Keynote Speakers

Reflections: by **Fabienne Venet** - Keynote Speaker & New Councillor of the European Shock Society

Attending the ESS Congress as a keynote speaker was an enriching and memorable experience. This scientific congress truly showcased the full spectrum of research, ranging from fundamental basic science to translational and clinical studies. Researchers from all corners of the globe came together, creating an exceptional gathering of some of the best minds in the field.

One of the highlights was the remarkable availability and kindness of the speakers, who generously made time to engage in meaningful discussions and exchanges. This openness fostered a vibrant scientific atmosphere, where ideas flowed freely, and collaborations were sparked. The congress maintained a human scale, which allowed a unique blend of students and well-established researchers to interact closely, enriching the experience for all participants.

Beyond the scientific content, the event offered a warm social environment. It was wonderful to reconnect with colleagues and friends I hadn't seen in years, discussing scientific topics in a relaxed and friendly setting. The beautiful location added to the overall appeal, creating an inspiring backdrop for learning and networking. In all, the ESS Congress stood out not only for its scientific excellence but also for its welcoming and collaborative spirit.



Fabienne reconnecting with Alfred Ayala

Reflections: by **Tom van der Poll** - Keynote Speaker

The ESS Congress 2025 was an inspiring and memorable scientific meeting, characterized by strong scientific content and an excellent organization. The program was rich with high-quality lectures delivered by leading experts and young investigators, complemented by a very good poster session that stimulated lively discussion and exchange of ideas. Attendees were highly active throughout the congress, contributing to a vibrant and engaging atmosphere that truly encouraged collaboration and learning.



Tom with his group

I had the pleasure of bringing my own sepsis research group—more than twenty enthusiastic young investigators—who greatly benefited from the experience in many dimensions. Scientifically, they were inspired by the breadth and depth of the presented work; socially, they enjoyed meeting peers and mentors from across the world, forging meaningful professional and personal connections.

The social program was truly remarkable, perfectly balancing scientific interactions with enjoyment. The sunset boat trip stands out as a particularly memorable evening, offering great food, even better music, and a cheerful, convivial atmosphere shared among all participants.

Set against the stunning historic backdrop of Dubrovnik, the congress combined scientific excellence with cultural richness, making it a truly outstanding event that left our whole team motivated and looking forward to future events.

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The ESS 2025 Congress – Reflections by Young Scientists

Reflections: by **Gustavo Ferreira Alves (Italy)** – ENIAC Finalist

Hello, I am Gustavo Ferreira Alves, researcher at Department of Neurosciences "Rita Levi Montalcini", University of Turin, Italy.

Attending the ESS Congress for the first time was truly one of the most remarkable experiences of my scientific career. Having worked in preclinical research on sepsis for the past nine years, I had long heard about the high scientific level and collaborative spirit of this community, which strongly motivated me to take part in ESS 2025. One of the highlights of my participation was being selected for the prestigious European New Investigator Award Competition (ENIAC). Presenting my work on a new pharmacological strategy for sepsis-associated encephalopathy to such an expert audience was both an honour and an unforgettable milestone. Receiving the **third-place ENIAC award** made the moment even more memorable, especially as the award ceremony took place during the boat tour around Dubrovnik, creating a truly unique and emotional experience.

The congress itself was exceptionally well-organised, offering a stimulating scientific environment and invaluable opportunities for networking with leading researchers in sepsis and shock. Attending the interactive ESS Summer School were highly enriching experiences that provided valuable feedback, new perspectives, and deeper insights through exchanges with young investigators.

Beyond the science, the vibrant atmosphere, and the chance to explore Dubrovnik and its cultural heritage made the entire event even more special. I am sincerely grateful to **Prof. Borna Relja** for organising such a perfectly curated congress-scientifically rigorous, friendly, and inspiring in every detail.

I cannot wait to participate in future ESS events.



Gustavo enjoying the Farewell tour

Reflections: by **Cornelia Schneider (Austria)** – Young Investigator

ESS Vienna was where I met the coordinators of the BEATsep project (Marcela Hortová-Kohoutková and Jan Frič from Brno), so it felt only natural to be part of ESS Dubrovnik after officially joining the sepsis field in the team of Marcin Osuchowski at LBI Trauma. As a newcomer transitioning from another field (tissue engineering), and even more so one taking the unusual perspective of Open Innovation and health systems research, I was a bit nervous about fitting in. But I needn't have been, because the community was super welcoming and many people approached me after my talk with questions and input and were so encouraging! I am looking forward to meeting them all again in Cologne and discussing everything I found on the research journey they helped me shape. The event itself set the bar very high for all future conferences. The venue was out-of-this-world beautiful and each evening program was more awesome than the last. Borna Relja did an incredible job organizing the congress, making us all feel welcome and enchanting us with everything Dubrovnik has to offer: culture, music, ocean sunsets and pirate ships. Truly magical!



Reflections: by Ulrike Heinicke (Germany) – Tomasz Skirecki Memorial Awardee

The ESS Congress 2025 in Dubrovnik was a truly remarkable experience. Scientifically excellent yet wonderfully approachable, it created countless opportunities for stimulating discussions and new connections. I especially enjoyed the social events — such as the evening at Konoba Dubrava, filled with music, local cuisine, and a warm, joyful atmosphere.

Another highlight was the final gala dinner, when we all dressed in white and set sail for Dubrovnik, enjoying good food, music, and lively partying.

Receiving the Tomasz Skirecki Memorial Award was a deeply moving moment for me. Although I only knew Tomasz briefly, I followed his tragic story with great sadness, and I feel honored that his memory and character are being kept alive through this award.



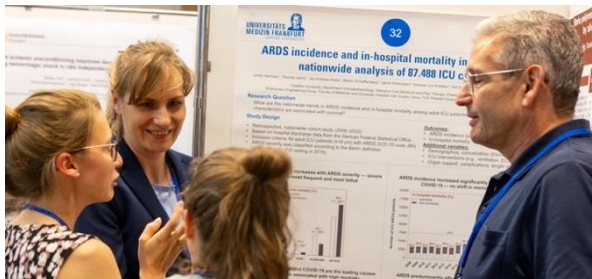
Ulrike with Stefan Hof



Stefan Hof, Chiara Rubeo, Carsten Marcus, Ulrike Heinicke and Gustavo Ferreira Alves – with their Awards

The congress as a whole captured the very best of ESS: scientific excellence, genuine community spirit, and vibrant cultural exchange.

Many thanks to Borna Relja, whose vision, tireless dedication, and warm leadership made this congress an event of exceptional quality and lasting impact, firmly securing her place in the history of ESS.



Ulrike Heinicke, Nadja Muehlhaupt, Christina Schwenk and Olaf Picker during a Poster discussion



Carsten Marcus, Ulrike Heinicke and Claude Libert – Juniors Co-Chairing Experience

Reflections: by Julia Burger (Germany) – ESS FOR 5417 Travel Awardee

The ESS was my first conference, and I have nothing but unforgettable positive memories of it. A big thank you goes to my supervisor Markus Huber-Lang and all my colleagues at the institute who supported me in my laboratory work for my medical doctoral thesis, enabling me to present my data at the conference.



The ESS 2025 Congress – Reflections by “Seniors”

by Joost Wiersinga (Amsterdam, The Netherlands)

Dear ESS friends,

I thoroughly enjoyed the European Shock Society Congress in the magnificent city of Dubrovnik and think it was an absolute success! Everything was flawlessly organized by our President and congress chair, Borna Relja, together with her outstanding team. You can recognize her on some pictures with the captain's hat.

The meeting brought together a truly dynamic community of clinicians and researchers. We were treated to a series of high-quality scientific sessions featuring fabulous keynote speakers, Fabienne Venet, and Tom van der Poll, who engaged talks on the latest development in the immunology of sepsis.

It was fantastic to see so many young investigators take the stage and share their work. Their energy, creativity, and talent were truly celebrated throughout the meeting, with plenty of well-deserved \$\$\$ prizes! The atmosphere was vibrant, collegial, with discussions that continued well beyond the sessions. Which brings me to the social program that simply was the best ever, memorable, fun, and perfectly matched to Dubrovnik's stunning backdrop!



*Alex de Vos, Brendon Scicluna, and Joost Wiersinga –
Enjoying the Croatian traditions*



The Team

A heartfelt thank-you to everyone who contributed to making this congress such a great event.

**Joost Wiersinga,
professor of Medicine,
Amsterdam UMC**



The Captain

by Elisabetta Liverani (North Dakota, United States of America)

Dear ESS friends,

I had a great time at the Congress of the European Shock Society.

Dubrovnik is a wonderful city! I had been there only once in 1987, and despite all the damages that must have occurred during the war, it is still charming and incredibly beautiful. That is how I feel about research today. It is constantly challenged, but in the end, it always stands strong. Everything (from the talk schedule to the dancing on the boat) was very well-organized, and most importantly, everyone contributed to make the conference very heart-warming and fun. My scientific take-home message is that we have looked for a magic pill to treat everyone, but the data seem to ask for “personalized medicine”. We still need magic pills, but each one can be targeted to a specific population.

As always, we need more science and more magic. Much more magic.

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The ESS 2025 Congress – Honorary Member

Welcoming Professor Jean-Marc Cavaillon as Honorary Member of the ESS

It is with immense pleasure and profound respect that the European Shock Society announces the induction of Professor Jean-Marc Cavaillon as an Honorary Member of our esteemed society during the ESS2025 conference in Dubrovnik, Croatia. This distinction, the highest honour the society can bestow, recognizes his monumental and sustained contributions to the field of shock, sepsis, and immunology. For over four decades, Professor Cavaillon has been a guiding light in biomedical research, pioneering foundational work that has profoundly shaped our understanding of the complex interplay between pathogens, the immune system, and the host response that leads to septic shock. His early investigations into endotoxin signalling, the role of monocytes and macrophages, compartmentalization aspects of the inflammatory response, and the mechanisms of simultaneous pro- and anti-inflammatory signalling were not just impactful, they laid the groundwork for countless subsequent studies and therapeutic strategies worldwide. It is difficult to glean to the most impactful milestones of his career, from his early beginning working on cytokines, his groundbreaking study showing that monocytes from septic patients lose their ability to produce cytokines – a discovery that helped reshaped the paradigm of sepsis – to his current position as honorary professor, and scientific officer of the French National Research Agency (ANR). His career reflects tireless leadership, inspiration, and scientific impact. He has led major institutions and societies, including heading the Cytokines and Inflammation Unit, directing the Infection and Epidemiology Department at the Pasteur Institute, and serving as President of both the International Endotoxin and Innate Immunity Society and the European Shock Society. He has shaped the field through editorial roles across leading journals and has authored hundreds of publications and book chapters, with an h-index of 64.

Professor Cavaillon's legacy extends far beyond his groundbreaking research. As a dedicated educator and mentor at the Pasteur Institute in Paris, he has inspired and trained generations of immunologists and critical care specialists, instilling a rigorous, curiosity-driven approach to scientific inquiry. His clarity of thought, eloquent communication, and unwavering commitment to scientific excellence are evident not only in his voluminous and highly cited publications, but to anyone who has the chance to interact with him and acquire a sense of his dynamic and warm character.



Jean-Marc Cavaillon receiving the Honorary Membership during the General Assembly

By welcoming him as an Honorary Member, the European Shock Society celebrates not just his past achievements, but also his enduring spirit of collaboration and his role as a true statesman of science. We are deeply grateful for his service to the scientific community and look forward to his continued guidance and inspiration.



Brendon P. Scicluna and Antigoni Kotsaki
Councillors of the ESS

Jean-Marc receiving his Honorary Membership Plaque during the farewell boat tour Assembly

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The ESS 2025 Congress – Awardees

ENIAC (European New Investigator Award Competition)

Susanne E. Doeleman (The Netherlands)	ENIAC 1st Prize
Attila Rutai (Hungary)	ENIAC 2nd Prize
Gustavo Ferreira Alves (Italy)	ENIAC 3rd Prize
Sergiu Dumitrescu (Austria)	ENIAC finalist
Jordan Mifsud (Malta)	ENIAC finalist

European Shock Society (ESS) Presidential Awards

Nadine Krieg (Germany/Switzerland)	Johannes Zipperle (Austria)
Helen Rinderknecht (Germany)	Sabrina Ehnert (Germany)
Na Liu (Austria)	

ENIAC and Presidential Awardees



Marc Maegele and Borna Relja with the ENIAC 1st Prize winner Susanne E. Doeleman (in the middle)



Marc Maegele and Borna Relja with the ENIAC 2nd Prize winner Attila Rutai (on the right)



Marc Maegele with the ENIAC 3rd Prize winner Gustavo Ferreira Alves



Borna Relja with the Presidential Awardees

ESS Travel Awards

Susanne E. Doeleman (The Netherlands)
Attila Rutai (Hungary)
Gustavo Ferreira Alves (Italy)
Sergiu Dumitrescu (Austria)
Jordan Mifsud (Malta)

Marcela Hortova Kohoutkova (Czech Republic)
Carsten Marcus (Germany)
Aileen Ritter (Germany)
Stefan Hof (Germany)



ESS Travel Awardees (first row, from left to right:) Stefan Hof, Carsten Marcus, Aileen Ritter, Attila Rutai, lower row, from left to right:) Marcela Hortova Kohoutkova, Jordan Mifsud, Susanne E. Doeleman, Sergiu Dumitrescu, Gustavo Ferreira Alves

ESS Travel Award by DFG FOR5417

Jacob Osuchowski (Austria)
Attila Rutai (Hungary)
Stefanie Sräga (Germany)
Tamara Pavlovic (Germany)
Kim Hamberger (Germany)
Katharina Osswald (Germany)
Tong Wang (Germany)

Rui Ding (Germany)
Bianca Hindelang (Germany)
Julia Burger (Germany)
Elmira Yazdani Far (Germany)
Anne Standke (Germany)
Maria Guerrero (Germany)
Gustavo Ferreira Alves (Italy)

Christina Schwenk (Germany)
Birte Weber (Germany)
Christian Bergmann (Germany)
Tanja Eichorn (Austria)
Nadja Mühlhaupt (Germany)
Nils Becker (Germany)
Kacper Bielak (Poland)



Awardees of the ESS Travel Award by DFG FOR5417

Young Investigator Award by DFG FOR5417

Elmira Yazdani Far (Germany)
Christina Schwenk (Germany)

Tomasz Skirecki Memorial Award

Kacper Bielak (Poland)
Ulrike Heinicke (Germany)
Erik Michels (The Netherlands)

Maria Guerrero (Germany)
Jason Biemond (The Netherlands)



From left to right: Kacper Bielak, Ulrike Heinicke, Erik Michels, Maria Guerrero

ESS Best Poster Award

Chiara Rubeo (Italy)
Maria Paulmann
Katharina Osswald (Germany)

Bianca Hindelang (Germany)
Evelien Reijnders (The Netherlands)
Naimeh Hashemi Arani (Austria)



From left to right: Chiara Rubeo, Maria Paulmann, Bianca Hindelang, Katharina Osswald, Naimeh Hashemi Arani

The ESS 2025 Congress – Greetings to Sponsors

A Heartfelt Thank You to Our Sponsors & Supporters

On behalf of the European Shock Society, I extend my deepest gratitude to all sponsors and partners whose commitment made the 21st ESS Congress in Dubrovnik possible.

- **DFG FOR 5417 (Germany)** – led by Prof. Ingo Marzi – for supporting the **ESS Summer School 2025**, and all Summer School Awards.



Ingo Marzi giving his talk

- **CYTOLYTICS, Tübingen, Germany** – Can Pinar and team – for hosting **Workshop 2** on advanced flow analysis - From Data to Discovery: Master Modern Flow Analysis with Cytolution.



Federico Aletti, Serina Pinar, Can Pinar, Cora Schindler and Aileen Ritter

- **DFG CRC 1149, Ulm, Germany** – led by Prof. Florian Gebhard and Prof. Markus Huber-Lang – for sponsoring **Session 2** and generously providing **12 full scholarships** covering travel and registration.



Florian Gebhard with Borna's Research Team (Ulm)



Ante Krstanovic supervising everything



Renato taking care about all technical issues

- **Academy for Trauma Surgery (AUC), Germany** – for sponsoring **Session 8: Advanced Approaches to Polytrauma and Shock**.



Upper left: Christopher Sperring (Germany); upper right: Christine Höfer (AUC, Germany), the session organizer; lower picture: Anne Neubert (Germany) with the chairs: Christine Höfer, Birte Weber (Frankfurt) and Nils Becker (Ulm)

In total, this generous support made Dubrovnik 2025 the most successful congress in terms of external funding for awards in ESS history.

Your contributions enriched the scientific program, empowered young investigators, and strengthened our community spirit. By standing with ESS, you did much more than sponsor a congress — you invested in the future of trauma, sepsis, and critical care research, and in the next generation of scientists and clinicians.

With heartfelt appreciation,

The ESS

Introducing Our New Council Members

Fabienne Venet: New Councillor of the ESS

Fabienne Venet, PharmD, PhD, is Professor of Immunology at Université Claude Bernard Lyon 1 Medical School and a hospital practitioner at Hospices Civils de Lyon (HCL). She leads a research group in the NLRP3 and Immune Response to Sepsis team at the International Research Center on Infectiology of Lyon (CIRI), focusing on sepsis-induced immune alterations through translational studies combining patient observations and murine models.

She completed a postdoctoral fellowship at Brown University, where she advanced the study of sepsis-related immune dysfunction. Professor Venet specializes in immune responses during critical illness, with expertise in sepsis, septic shock, and trauma-induced immunosuppression. Her research has shed light on immune dysfunction, including myeloid cell alterations, impaired T-cell responses, and reduced monocyte HLA-DR expression—a key biomarker of acquired immunosuppression. She also investigates regulatory cell subpopulations' roles in sepsis immunopathology and advocates for immune monitoring in precision medicine for intensive care unit patients.

With over 220 publications cited more than 9,000 times, she is an active member of the European Group on Immunology of Sepsis (EGIS). Her work on biomarkers like monocyte HLA-DR expression has enhanced prognostic tools for septic patients.

Clinically, she heads the Clinical Immunology Department at HCL, a national reference center conducting over 560,000 analyses yearly in oncology, hematology, pediatrics, autoimmunity, and infectious diseases.



Cornelis van't Veer: New Councillor of the ESS

I got my degree as a biologist in Utrecht, and did my PhD at the Hematology department in the UMC Utrecht. During my early career (PhD and postdoc) I studied the regulation of thrombin generation in plasma, whole blood and using purified coagulation factors and inhibitors under static conditions, as



well as under flow conditions on endothelial surfaces. After my postdoc at the Biochemistry dept in Burlington (Vermont, USA) I switched to more inflammatory research at the dept of Surgery, University Maastricht, with a research focus on renal I/R injury with an interest in Toll-like receptors which were just discovered then. In 2003 I joined the group of Tom van der Poll (Center for Infection and Molecular Medicine (CIMM), Amsterdam UMC) as an associate professor to study the intertwinement of inflammation and coagulation/platelets in bacterial infection models *in vivo* in mice and *ex-vivo* in whole blood, as well as some hardcore biochemical studies on the structure-function of IRAK-M

as regulator of TLR signaling and a tick-derived unique coagulation inhibitor we named TIX-5 because of its specific effect on the activation of coagulation FV. Main focus is now to decipher which aspects of coagulation are beneficial or detrimental during infection and ensuing sepsis which appears to be very different per type of bacteria. I also help the startup company Ezyre (Nijmegen) developing assays in a handheld portable system for near patient measurement of coagulation parameters, and in the future critical care parameters. My hobbies are my wife Ilona, 3 kids, 2 grandchildren, and used to be soccer, racing pigeons and beer, but those changed with age to biking, fishing and wine.

Attila Rutai: New Councillor of the ESS

Dear colleagues,

I am an Assistant Lecturer at the Institute of Surgical Research and a Teaching Associate at the Clinical Skills Centre of the University of Szeged, Hungary.

My journey with the European Shock Society began in 2017 in Paris, where I attended my first ESS meeting. I still remember my first impression: a large and prestigious scientific community. Since then, I have participated in every annual meeting, each time discovering new places, new colleagues, and exciting scientific topics. I particularly enjoy the ENIAC, which combines competition with a supportive atmosphere.



Attila with Borna (Past President) and Marc Mägele (President) at the ESS 2025

At work, I am involved in both research and undergraduate and postgraduate education, teaching a wide variety of courses and contributing to activities at our Clinical Skills Centre. What I enjoy most is the diversity and creativity of our projects. Our research focuses on experimental models of shock, sepsis, ischemia-reperfusion injury, and transplantation, with special interest in large-animal models that combine scientific value, teamwork, and translational potential. Our team of senior scientists, young investigators, clinicians, assistants, and students has built something great, and I am proud to be part of it!

Back in Paris, I would have never imagined being part of the ESS Council, and it is truly a great honor to now contribute to this inspiring community. I look forward to working together and seeing you again at the next congress!



Attila at his first ESS meeting

Birte Weber: New Councillor Appointed by the President of the ESS

When introducing myself, I typically begin with my professional role: I am a resident in the Department of Trauma Surgery and Orthopedics at University Hospital Frankfurt (Germany). For me, trauma surgery is the most rewarding, but also the most demanding specialty I could have chosen, and I love (almost) every minute of it. But the clinical job is only facet of my professional personality.



Through a combination of chance and curiosity, I ended up completing an experimental doctoral thesis. And what can I say, my heart fell in love with basic science and research! Interestingly, the heart preoccupied me for several years in my scientific career and has repeatedly been the focus of my scientific work on polytrauma. My second research focus involves deciphering the role of extracellular vesicles in polytrauma.

I am often asked what my goal is – to have a clinical or a scientific career? And I don't understand this question. Why do I have to choose between these two careers? To me, my strength lies precisely in the intersection of both domains. I am what is known as a “clinician scientist”, and I am wholeheartedly committed to this profession. Furthermore, I aspire to be a role model for young doctors and scientists, demonstrating that they can have and do anything they set their minds to. So my heart is not torn between the Clinic and Research, it is devoted to both of them.



Nils Becker: New Councillor Appointed by the President of the ESS

Dear ESS members,

I'm honored to be part of the European Shock Society committee for the upcoming ESS congress in Cologne. My interest in the immune response to traumatic injuries started with my doctoral thesis in the department of orthopedic trauma surgery in Frankfurt. Also, during my residency in orthopedic trauma surgery in Aachen, living next to the beautiful Netherlands and Belgium, I continued my research in this field. This research has finally led me towards my current position as clinical scientist and resident in orthopedic trauma surgery in the beautiful city of Ulm, right in the center of Europe. Here, my group within the Lab of Prof. Borna Relja is focused on studying the innate immune response to traumatic injuries and cellular communication via extracellular vesicles.

Although distant from my origin, East Frisia at the German North Sea coast, I enjoy living in an area close to the Alps. Especially in winter, this provides excellent skiing possibilities. Next to enjoying water in its frozen state, I enjoy any other water-based activity, never mind if it's surfing, sailing or swimming.

Just like my interest in watersports, my interest in trauma- and critical care are wide. Therefore, the ESS is an outstanding organization to me. With brilliant research from different fields, the ESS provides a platform that expands own perspectives and creates great opportunities to discuss science in a warm and welcoming community. For me, research is a team-effort and collaboration is the key to improving our understanding, aiming to translate knowledge from basic science into clinical practice. Thus, I am very excited to be part of such an amazing organization as the ESS.



Shock® 2025 Report to the ESS

Shock® 2025 Report to European Shock Society

- 1) Manuscript submissions and rejections Table 1
- 2) As of September 8, 551 manuscripts submitted – projected to have 800 submissions by the end of 2025
- 3) Steps to reduce reviewer burden
 - a. Manuscripts rejected without review (37%, Table 1)
 - b. Quick read reviews – one editorial board member asked to quickly evaluate paper, if sufficient merit then two additional reviewers assigned otherwise rejected
 - c. Brief reports only have 1 reviewer
- 4) Impact factor increased from 2.7 to 2.9 (half of scientific journals decreased and half increased)
- 5) Our relative ranking increased in all categories. This metric compares Shock® to other journals in different categories, e.g. surgery, critical care, hematology and peripheral vascular
- 6) Brief reports are now published – must follow strict submission guidelines
- 7) Continue to see increased submissions from China Table 2
- 8) Five year contract renewed with our publisher, Wolters Kluwer
- 9) Shock council approved publishing the 2026 abstracts with open access
- 10) CME credit is now provided by the publisher for reviewing papers
- 11) Shock synopsis now has hyperlinks to the articles (Suggestion by Dr. Flohe)
- 12) New reviewers are provided guidelines to ensure consistency
- 13) Allegations of scientific fraud. There have been 23 allegations of scientific fraud in the 4857 papers published between 2002 and 2025. Table 3 shows the outcomes of these investigations.

Submitted	748
Accepted	218 (29%)
Rejected	
By Editors	277 (37%)
By Reviewers	241 (32%)
Withdrawn	12 (25)

Table 1 Shock® 2024 papers

	2021	2022	2023	2024	Accepted 2024	% accepted
Total submissions	534	439	607	766		
CHINA	227	217	399	545	113	21%
UNITED STATES	110	120	81	95	57	60%
JAPAN	18	13	16	19	5	26%
KOREA	19	11	10	1	1	100%
FRANCE	14	9	9	12	6	50%
GERMANY	17	7	8	8	4	50%
BRAZIL	11	4	8	12	4	33%
TAIWAN	8	6	7	7	1	14%
TURKEY	8	0	5	4	0	0%

Table 2 Countries submitting papers 2021 - 2024

Category	#	% of published papers
No fraud	7	0.14%
Figure duplication of manipulation, errata published	14	0.29%
Inadvertent duplicate submission	1	0.02%
Duplicate publication – paper retracted	1	0.02%
Total papers	23	

Table 3 Allegations of scientific fraud 2002-2025

Submitted September 2025

Daniel Remick, M.D., Editor-in-Chief Shock®



Daniel Remick
Editor-in-Chief Shock®

Upcoming Events



45th ISICEM 2026 – 42nd International Symposium on Intensive Care and Emergency Medicine

March 17-20, 2026, Brussels, Belgium
<https://www.isicem.org/>

2026 Critical Care Congress

March 22-24, 2026

McCormick Place® West Building
 Chicago, IL

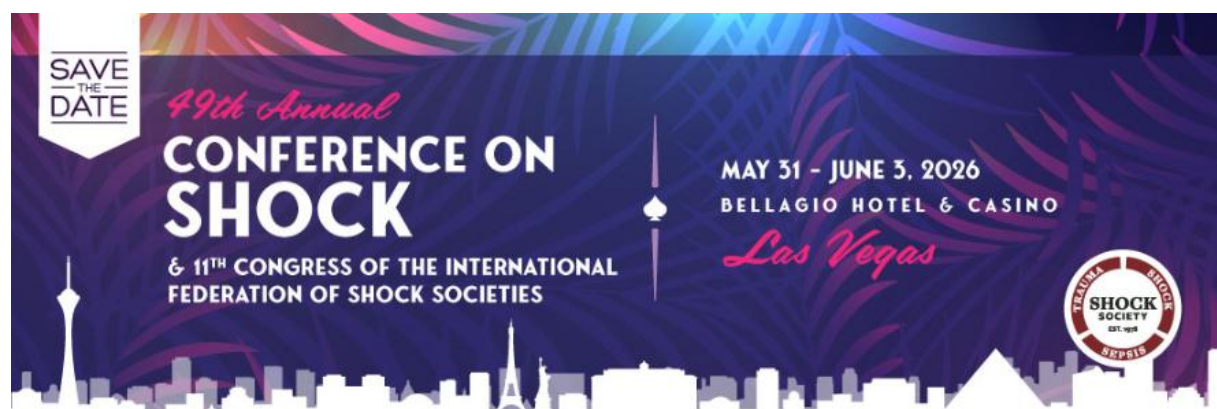
<https://www.sccm.org/annual-congress/critical-care-conference>



25th European Congress of Trauma and Emergency Surgery (ESTES) & 8th World Trauma Congress (WCTC)

April 26–28, 2026, Stockholm, Sweden

<https://www.estes-congress.org/>



49th Annual Conference on Shock & 11th Congress of the International Federation of Shock Societies

May 31 – June 4, 2026, Las Vegas, NV

<https://www.shocksociety.org/>

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10th E.S.T.R.O.T. CONGRESS

European Society of Tissue Regeneration in Orthopedics and Traumatology

June 11-13, 2026, Paris, France

<https://www.estrot.org/tenth-estrot-congress-26.php>



European Congress on Surgical Infections (SIS-E)

NOT announced yet, 2026,

<https://sis-e.org/>

22nd Congress of ESS

September 15–17, 2027,
Cologne, Germany

<https://ess-cologne2027.com/>



ESOT Congress 2027

September 26–29, 2027,
Prague, Czech Republic

<https://esot.org/esot-events/esot-congress-2027/>



by Andrea Szabó

The Executive Committee of the ESS



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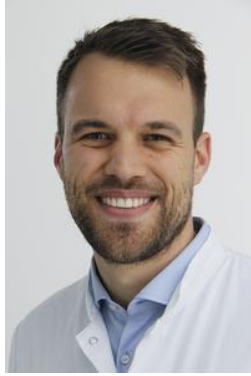
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ESS Membership

Dear ESS members,

please kindly pay your ESS membership for 2025/27. Currently, a fixed 2-year membership fee of EUR 100 for regular members and EUR 50 for student members applies.

We sincerely appreciate your contribution; please do not ignore this important commitment.

We are happy to receive your funds at:

European Shock Society

IBAN: AT13 1420 0200 1093 6552

BIC: BAWAATWW

Easybank

Bank address: Wiedner Gurtel 11

1100 Vienna, Austria

BLZ 14200

Please identify your transfer with your first/last name and a "full/student ESS membership fee" annotation.

Credit card payment option (<https://europeanshockociety.org/ESS-Membership>)

Thank you!

How to become an ESS member?

Those who are willing to join ESS as new members,

please submit an [ESS membership application form](#). The process also includes confirmation of your e-mail address.

After receiving a feedback from us (via e-mail), the next step is payment of the membership fee (see above). Receipt of your payment will be also sent by e-mail.

[Advantages of being a member of ESS](#) are detailed at our website.

Closing



Dear ESS friends,

As we look back on another inspiring year, let us celebrate what truly defines our Society — curiosity, collaboration, and friendship across borders. Whether you joined us in Dubrovnik, contributed to our research, or simply stayed connected through our Newsletter, you are part of what keeps ESS strong and alive.

We warmly invite you to continue this journey with us: share your ideas, your news, your science — and your spirit. Together, we will keep shaping the future of shock research in Europe and beyond.

With gratitude and warm regards,

Your ESS Board

