



Dr. Jan-Luca Stampf, M.Sc. M.Eng.

PhD | Founder of Cortex Nexus | Scientific Expert
Professional in AI, Healthcare and Pharma | Biotech
Technological Innovation | R&D Advisor | Compliance
CBRN Protection and Ordnance Disposal | Corporate Finance

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Professional Summary

Dr. Jan-Luca Stampf, M.Sc., M.Eng., is a science-based consultant with practical experience in artificial intelligence, chemistry, pharmacology, and technologies applied to healthcare, chemical safety, and regulatory innovation. He is the founder of Cortex Nexus S.A.S., a company dedicated to developing artificial intelligence solutions for document automation, clinical analysis, and regulatory compliance across the healthcare, technology, and pharmaceutical sectors. He supports public institutions, pharmaceutical companies, and research organizations in projects related to the automation of critical processes, advanced analytics, and the development of innovation strategies in R&D environments. Working at the intersection of industry, applied science, defense, finance, and specialized consulting, he combines solid technical expertise with a practical, results-oriented approach - ranging from mass spectrometry and standard operating procedures (SOPs) to AI integration and regulatory compliance. With experience in international projects, fluency in English, German, and Spanish, and a strong analytical mindset, he thrives in complex and high-demand technical environments.

Experience

Founder and CEO

Jun 2025 – Present

Cortex Nexus S.A.S. (equivalent to a Ltd./LLC/GmbH)

DE Berlin, CO Medellín, Remote

- Founded a legally registered firm in Medellín focused on strategic consulting and AI-driven innovation in the healthcare, technology, and pharmaceutical sectors.
- Development of an AI-driven compliance automation (ISO/IEC 42001/27001 - Compliance Quanta) for regulated environments, reducing documentation workload and advancing the quality of audit procedures.
- Design of go-to-market strategies and creation of standardized service modules (e.g., service cards, governance assessments); establishment of strategic partnerships with government agencies, NGOs, and research institutions.
- Supports public and private institutions in integrating AI technologies for civil, regulatory, and operational innovation purposes.
- Advisory services for clients including StackAware (USA) on the evaluation of AI and cybersecurity risks, covering model assessment (Claude Opus 4), data provenance, bias analysis, and documentation in accordance with ISO/IEC 42001.
- Brand Ambassador & Scientific Expert for Melinava - Advise on liposomal formulation and evidence-based nutraceutical innovation, bridging pharmacology and AI-driven health solutions, and supporting strategic positioning in the nutraceutical sector.

Strategy and Specialist Consultant

Mar 2023 – Present

NICK e.V. - German National Information Center for Chemical Weapons

DE Berlin, Remote

- Deliver expert consulting services for the management of chemical warfare agents and legacy munitions, ensuring adherence to fast-evolving regulations.
- Advise on remediation strategies for contaminated sites, particularly in explosive ordnance disposal (EOD).
- Contribute to the development of protocols for the safe identification, handling, and disposal of chemical munitions.
- Support training and capacity-building initiatives for specialized personnel in chemical safety and EOD.
- Collaborate on research projects aimed at improving chemical hazard management and public safety.

Expert and Consultant - Scientific & Innovation Intelligence

Jan 2019 – Present

Hazard Control GmbH

DE Berlin, Remote

- Leading the integration of AI tools into laboratory and operational workflows, improving data management and decision-making processes.

- Consulting and implementation of accreditation, quality management (QM), and funding strategies in cooperation with government departments.
- Supporting clinical-like CBRN training simulations for first responders, advising on protocols and outcome optimizations.
- Conducting analytical determination of chemical agents and poisons using HPLC-MS/MS, GC-MS, IMS, and XRF for decontamination projects.
- Developing SOPs and managed critical instrumentation maintenance for quality-driven laboratory operations.
- Strengthened client engagement by contributing to project roadmaps and recommendations for operational improvements.

Scientific Methods Instructor

Oct 2023 – Feb 2024

University of Vienna

AT Vienna

- Instructed students in experimental design, safety, and data interpretation, developing leadership and mentoring skills.
- Mentored students to enhance laboratory performance focusing on data analysis in relation to research.
- Designed and delivered sessions fostering problem-solving and critical thinking.

R&D Project Staff

Dec 2019 – Dec 2022

Medical University of Vienna

AT Vienna

- Developed and optimized mass spectrometry methods for biomarker and pharmacokinetic studies.
- Conducted in vivo behavioral models and cell culture experiments for drug development studies.
- Mentored master's students and contributed to scientific publications and conference presentations.
- Designed and implemented experiments leading to novel insights into pharmacodynamics and molecular signal transduction pathways.
- Enhanced mass spectrometry protocols, increasing sensitivity and throughput.

Regulatory Safety Consultant

Sep 2018 – Oct 2018

Dr. Koehler GmbH

DE Munster

- Advised on toxicological assessments of marine munitions, collaborating across scientific and governmental stakeholders.
- Demonstrated excellent strategic problem-solving skills by resolving challenging issues quickly and effectively.
- Presented research outcomes at the DAIMON international conference.

Multilingual Communications Specialist

Nov 2017 – Nov 2017

NATO

DE Hohenfels

- Facilitated multilingual communication for military personnel during critical exercises, enhancing operational coordination.
- Promoted effective project management and coordination through clear communication across cultural barriers.

R&D Intern – Product Development (NIVEA)

Jan 2016 – Jul 2016

Beiersdorf

DE Hamburg

- Supported laboratory departments in product analysis and regulatory compliance.
- Optimized analytical methods and product development processes independently, ensuring compliance with established safety regulations.
- Collaborated effectively with cross-disciplinary teams to enhance laboratory workflows.

R&D Intern – Medicinal Chemistry and Drug Discovery

Aug 2014 – Aug 2014

Boehringer Ingelheim

AT Vienna

- Independent preparation of analytical samples and evaluations in compliance with quality standards.
- Executed high-quality analytical techniques (NMR, qNMR, HPLC, GC-MS), contributing to robust regulatory compliance assessments and drug research.
- Actively engaged in cross-functional teams to streamline laboratory operations.

Education

PhD in Pharmacology

Dec 2019 - Oct 2024

Medical University of Vienna - [PhD Thesis Link](#)

Master of Engineering in Chemistry and Materials Technology Technical University of Vienna and University of Vienna - Master's Thesis Link	Oct 2019 - Aug 2024
Post-graduate course in Corporate Finance Harvard University - Final Integrative Evaluation	Jun 2023 - Sep 2023
Master of Science in Drug Research, Development and Control University of Barcelona - Master's Thesis Link	Sep 2016 - Aug 2018
Bachelor of Science in Chemistry University of Vienna	Oct 2012 - Aug 2016
International Baccalaureate (High School) International School Hamburg	Aug 1999 - Jul 2012

Skills

- **Strategic Consulting:** Pharmaceutical industry, AI, biotechnology, defense, innovation.
- **Project Management:** SOPs, quality (GxP), regulatory affairs (EMA/FDA), remote projects, funding.
- **Data Science & AI:** AI integration, model tuning, RWE analysis, mass spectrometry.
- **Scientific Research:** Biomarkers, pharmacology, chemical synthesis, cell culture, pharmacovigilance.
- **Soft Skills:** Multilingual communication, leadership, investor relations, scientific writing.
- **Norms & Governance:** ISO/IEC 42001, ISO/IEC 27001, NIST AI RMF, EU/AI-Act, DAkkS, application of international standards.

Certifications & Awards

- **Securiti Education - AI Security & Governance Program (10/2025):** Certification covering AI governance, lifecycle risk management, and compliance frameworks including the EU AI Act, NIST AI RMF, and Gartner TRISM.
- **Cisco Networking Academy - Engaging Stakeholders for Success (09/2025):** Advanced strategies for aligning key stakeholders in complex initiatives, emphasizing executive-level communication, influential leadership, and high-impact negotiation and risk mitigation.
- **Cisco Networking Academy - Introduction to Cybersecurity (09/2025):** Principles of cybersecurity, threat analysis, and best practices for organizational protection measures.
- **University of Helsinki - Elements of AI (06/2025):** Foundations, applications, and societal impacts of artificial antelligence; Focus on responsible AI implementation.
- **Universitat de Barcelona - FELASA A, B, C, D (06/2018):** Scientific planning, ethical compliance, experimental design, and data interpretation.
- **IB Chemistry Award - Higher Level (06/2012):** Recipient of the award for outstanding academic achievement in Higher Level Chemistry within the International Baccalaureate program.

Languages

English - Native	German - Native	Spanish - Fluent
French - Beginner	Italian - Beginner	

Publications, Presentations & Representation

- A triple cysteine motif as major determinant of the modulation of neuronal Kv7 channels by the paracetamol metabolite N-acetyl-p-benzo quinone imine. British Journal of Pharmacology. 2024; 1–18. <https://doi.org/10.1111/bph.16380>
- Presentation EBSA Congress 2021: “Paracetamol Metabolite Modifications of Kv7 Channels”
- Analgesic Action of Acetaminophen via Kv7 Channels. International Journal of Molecular Sciences. 2023; 24(1):650. <https://doi.org/10.3390/ijms24010650>
- Keynote-Speaker BASRAN 2023 (Baltic Sea Regional Action Network of Rotarians): “Dethling Pond: A Lab for the Baltic Sea”