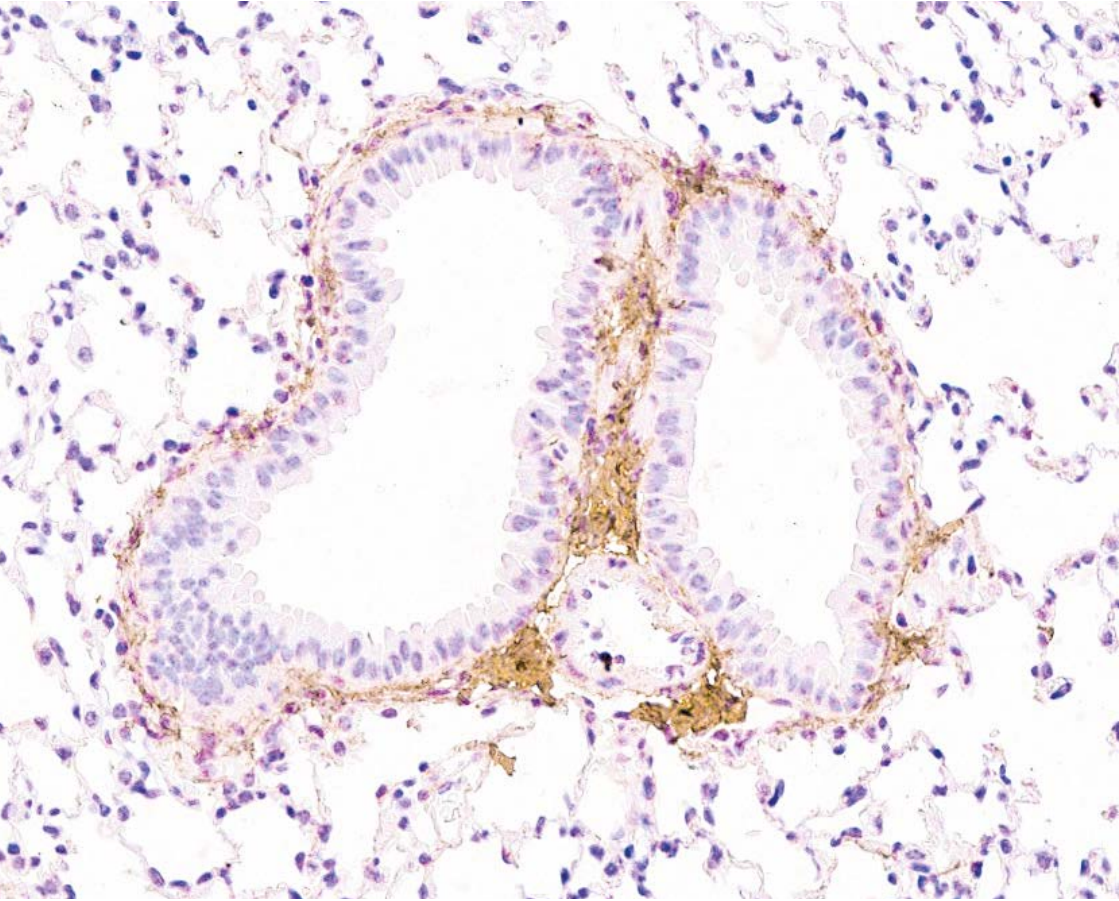


NUVISAN



DRUG DEVELOPMENT

Toxicology

www.nuvisan.com

TOXICOLOGY SOLUTIONS

OUR PORTFOLIO

IN VITRO TOXICITY Systemic toxicity

Mechanistic toxicity **In vivo toxicity**

Toxicokinetics Expert consultancy

Dose Range Finding (DRF) Rodent **Biomarkers**

Single dose toxicity Repeated dose toxicity

Ophthalmology **Clinical pathology**

Clinical chemistry Phototoxicity

Non-rodent DMPK (Agro)chemicals Cardiac safety

Hematology **Genotoxicity** Skin corrosion

SKIN TOXICITY **PHARMACEUTICALS**

Functional Pathology SEND conformity

Observational Motor activity Skin sensitization

Battery (FOB) Skin irritation Formulation analysis

DIGITAL PATHOLOGY Cytotoxicity **Bioanalysis**

assays Histotechnique

Microscopic evaluation TOX-LIMS **Metabolite identification**

Molecular pathology

Veterinary-pharma

Peer Review

Animal welfare

GMP manufacturing

We comply with

AAALAC 3Rs

GLP FDA

REACH ICH

JMAFF OECD

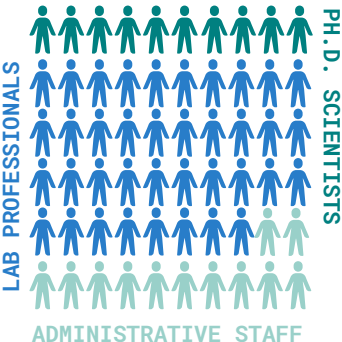
EMA



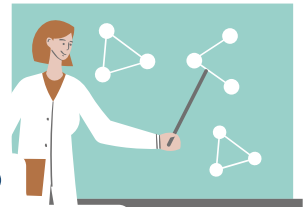
> 40 YEARS

of Pharma toxicology experience

GLP certified facility



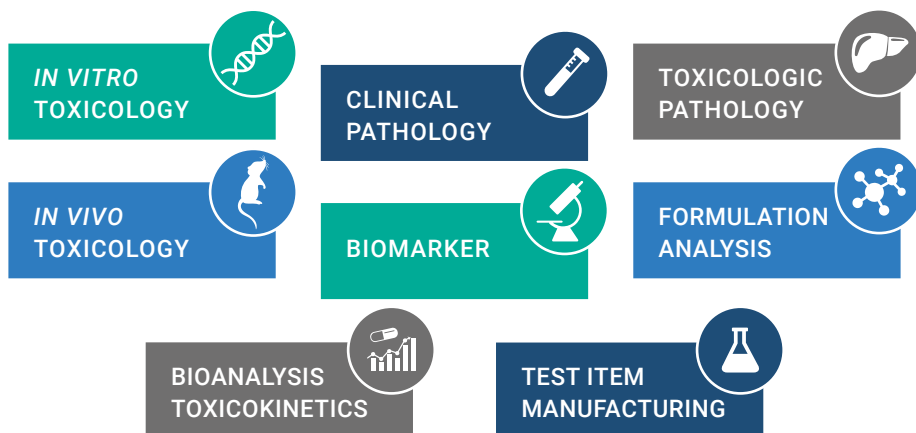
More than **90%** of our toxicologists with Ph.D. are **veterinarians**

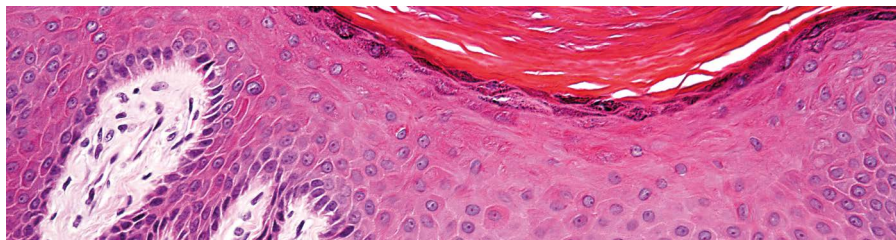


Our Toxicology Expertise

Accurate toxicological profiling of any new compound requires both solid routine expertise to meet regulatory requirements and flexibility to fit each project or investigate mechanistic issues. By combining the experience of a fully integrated CRO/CDMO company with a creative and flexible mindset, NUVISAN supports you in driving the development of your innovative medicines, industrial chemicals, or agrochemicals in a targeted and efficient way. We offer:

- A fully integrated toxicity testing platform following all international standards (ICH, OECD, JMAFF, FDA, EMA & ECHA)
- Commitment to the 3Rs principle for a humane animal care: compliance with high animal welfare standards (e.g. AAALAC accreditation) & animal welfare development program
- Combination of various *in vivo*, *in vitro*, or analytical investigational methods to assess the safety of your lead compounds in a comprehensive & efficient way, from fully integrated to customized solutions
- Four decades of experience in toxicology testing for the highest level of scientific, regulatory & technical support, incl. expert consultancy
- A highly multidisciplinary & collaborative mindset allowing an innovative, flexible & transversal scientific approach to meet your specific needs



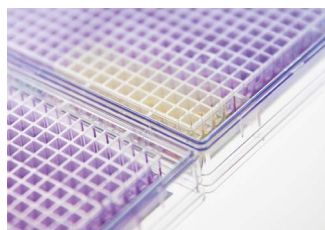


Our Solutions



***In Vitro* Toxicology**

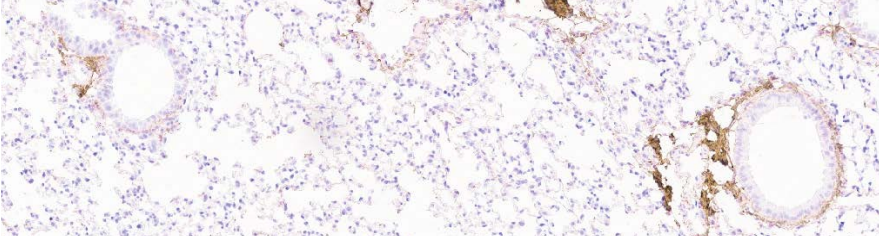
- Genotoxicity:
Bacterial Reverse Mutation Test, Mammalian Cell/Erythrocyte Micronucleus Test, Mammalian Erythrocyte Pig-a Gene Mutation Assay, *In Vivo* Mammalian Alkaline Comet Assay
- Skin toxicity:
Skin irritation/corrosion/sensitization assays & phototoxicity test
- Cardiac safety (ion channel screenings)



***In Vivo* Toxicology**

- Single dose toxicity, dose range finder & toxicokinetics
- Pivotal repeated dose toxicity up to 26 weeks
- *In vivo* genotoxicity
- Customized mechanistic toxicity
- Investigations:
Clinical observations, sensory reactivity, functional observations, motor activity, ophthalmology, clinical pathology, pathology





Toxicologic Pathology



- Gross examination & histotechnique and histopathology assessment, incl. bone marrow examination
- SEND conform histopathology assessment
- Molecular services (e.g. IHC, ISH) incl. development of customized staining methods/biomarker assays
- Digital pathology platform
- Organ databank
- Peer review for external studies



Clinical Pathology & Biomarker



- Analysis of common clinical chemistry, hemostasis, hematology & urine parameters
- Specific clinical biomarkers services, e.g. insulin, thyroid hormones, from discovery & validation to robust assay development



Formulation, Bioanalysis, Toxicokinetics & Manufacturing



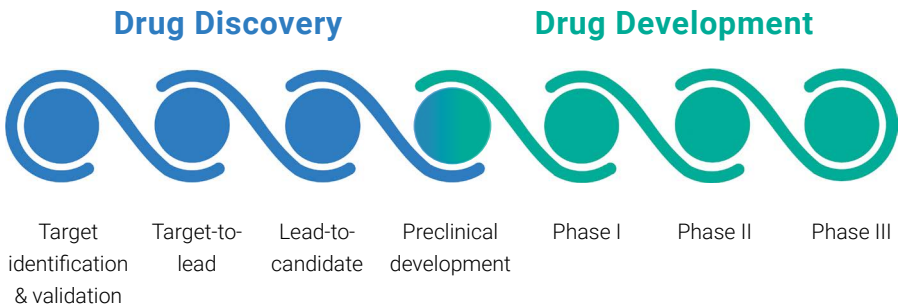
- Formulation stability, homogeneity & test substance concentration
- Metabolite profiling, identification & quantification (incl. high-resolution MS)
- Isolation, identification, synthesis & toxicology safety assessment of impurities
- Development & validation of (bio)analytical methods
- ¹⁴C-radio-labeled & stable isotopes API to GMP

From Target to Patient

The NUVISAN group is a Contract Research and Development & Manufacturing Organization (CRO/CDMO) with six sites in Germany and France as well as local experts situated in Latin America.

We offer unique, high-quality, and tailored integrated solutions along the drug discovery and development value chain to our biotech, pharma, non-profit, and venture capital clients – from target identification to the patient.

Thanks to more than 40 years of experience and about 1,000 employees (incl. > 70 % industry experienced scientists and lab professionals), we know how to discover, develop, and bring the next generation medicines to market. At the same time, our scientists understand that every project is different. With a flexible and innovative approach and transparent communication, our teams are passionate about closely collaborating with you to adapt to your individual needs.



Contact us

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LinkedIn: [company/nuvisan](https://www.linkedin.com/company/nuvisan)