

**NUVISAN**



*DRUG DISCOVERY*

# **Discovery Chemistry**

[www.nuvisan.com](http://www.nuvisan.com)



# DISCOVERY CHEMISTRY EXCELLENCE

## NUVISAN CHEMISTS

have contributed to

**> 50**

Pre-Clinical  
Candidates

have published

**> 350**

Discovery Chemistry  
Peer-Reviewed  
Publications

are inventors on

**> 500**

Drug Discovery  
Patent Applications



**80%**

of our PhD  
Scientists did an

**ACADEMIC  
POSTDOC**



**> 300**  
**FUME HOODS**

Design synthetic routes  
and prepare molecules  
on milligram to  
kilogram scales



### STATE-OF-THE-ART

Automated HPLC Purification System,  
SFC, High-Pressure Hydrogenation  
& Carbonylation, Photochemistry

**Gold Medal**  
for Sustainability  
Rating by  
**EcoVadis**



**SMALL  
MOLECULES**

**PROTACs**

**EXPERIENCE**

**IN THE AREAS OF**

**ADCs**

**PEPTIDES**

**PROBES**

## Our Discovery Chemistry Platform

Designed by you, made by us: Our discovery chemists transform your ideas into compounds. We are industry experts with a strong synthetic organic chemistry expertise. We have optimized productivity in our world class laboratories. In addition, we embrace a mindset of cooperation and direct communication, providing you with your compounds of interest and data you need, effortlessly and efficiently.

- **Synthesis requests** and **compound structures** are easily and securely transferred to NUVISAN chemists. With **decades of chemical synthesis experience**, we skillfully design tractable synthetic routes, utilizing in-house knowledge and synthesis research tools. Reagent sourcing – often from within our internal chemical warehouse – begins immediately and synthesis can quickly be initiated
- **Our promise:** By expertly preparing your target compound, we keep your efforts to a minimum. Flexible data sharing & handling complete the process.
- **Organic synthesis** requires both broad theoretical as well as **hands-on experience**. As challenges arise, NUVISAN chemists troubleshoot together with experts in our Scale Up & Special Technology labs.
- **Good communication is key:** We communicate open and direct.

DERIVATIZATIONS  
& ROUTE-SCOUTING



PURIFICATION &  
ANALYTICAL SERVICES



SCALE UP & SPECIAL  
TECHNOLOGIES



SHIPPING &  
COMPOUND LOGISTICS



MICROBIOLOGICAL  
CHEMISTRY





# Chemistry Support for your Drug Discovery Program



## Synthesis, Derivatizations & Route Scouting

Leverage our expertise in synthesis to make the breakthrough compounds you designed. Discovery chemistry programs can be easily merged into integrated hit to lead or lead optimization programs, supported by our knowledgeable medicinal and computational chemists:

- Hands-on approach with project scientists and lab professionals frees clients from time-consuming troubleshooting
- Retrosynthesis brainstorming with internal experts
- Highly efficient workflows, e.g. walk-on HPLC-MS, Isoleras & prep HPLC
- Over 30,000 diverse and hard-to-source reagents and intermediates



## Scale Up & Special Technologies

NUVISAN's chemical exploratory team are experts in photochemical and high-pressure reactions and support all up-scaling activities:

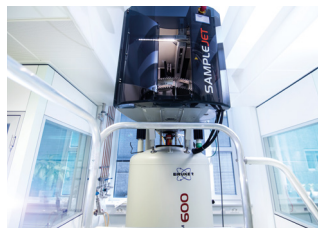
- High-pressure hydrogenation and carbonylation labs
- Flow, photoredox and electrochemistry reactors
- Method improvement for smooth transfer of projects into chemical development (time, safety, efficiency)
- Complemented by our kg lab in the NUVISAN GMP facilities



## Purification & Analytical Services

In-house purification and analytics as a stand-alone service or as a component of discovery chemistry programme:

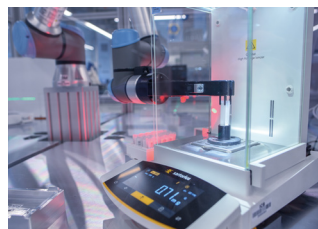
- Specialized NMR measurements (up to 600 MHz NMR with cryo-probe)
- Structure elucidation by experts (certificates of analysis)
- Dedicated high-throughput purification lab from mg to g scales
- Enantiomeric separation expertise (e.g., SFC, chiral phases)
- Determination of measured PhysChem parameters (e.g., solubility, lipophilicity, stability, crystallinity, etc.)



## Shipping & Compound Logistics

Sending compounds world-wide and managing customs formalities for you are our daily business. Our Tecan pipetting robots plate the newly synthesized compounds in the desired format for testing internally or externally:

- Rapid shipping & handling (including radioactive compounds)
- Fully integrated data storage landscape
- Barcode-based and IT-supported compound logistics workflows
- All formats supported



## Microbiological Chemistry

Biotransformations with microorganisms & CYP-enzymes:

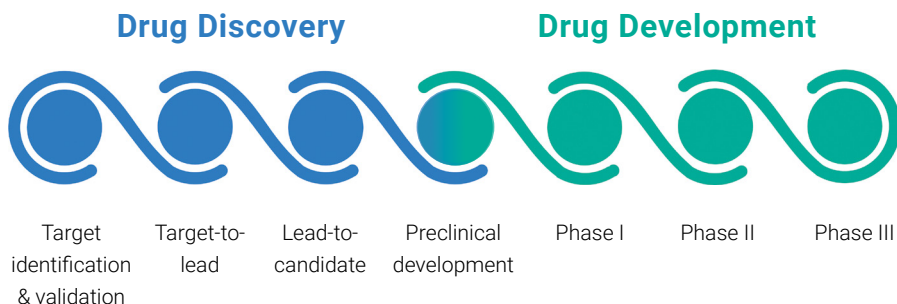
- Unique collection of 2000s fungal & bacterial strains
- Identification & synthesis of human metabolites as part of the NUVISAN metabolite discovery platform

## The Science CRO - From Target to Patient

The NUVISAN group is a contract research and development and 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 startup, 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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