

YOUR PARTNER FOR THE PRECLINICAL PHARMACOLOGY OF PAIN





« We aim to act as an extension of your scientific team »

Dr. François **CAUSSADE** in President / Chief Executive Officer ANS Biotech is an independent preclinical Contract Research Organization (CRO) fully dedicated to the **pharmacology of pain**. The company offers its clients a unique combination of expertise in the fundamentals of pain pharmacology and a proven record of R&D program management for new and innovative analgesics.

Our mission is to collaboratively support the drug discovery and development efforts of human and animal health companies by offering:

- > Unique early screening services to profile your drug candidates,
- > Tailored solutions for the management of your research projects,
- > A growing list of clinically relevant and predictive disease and efficacy in vivo models of pain,
- > Comprehensive consulting services based on an extensive industrial experience.

As a close Pharma and Biotech **partner**, ANS Biotech commits itself to providing cost-effective preclinical pharmacology services performed to the highest ethical and quality standards. Our validated and customized behavioral studies can help to quantify the efficacy of your compounds before they move into clinic by:

- > Establishing proof of concept & mechanism of action for drug candidates,
- > Achieving the critically important positioning of these agents within precise therapeutic categories (cancer pain, neuropathic pain, visceral pain, ...),
- > Benchmarking drug candidates with clinical gold standards.

We aim to act as an **extension of your scientific team** wherever you are located around the world, helping you to optimize and accelerate the development of your drug candidates.

Your discoveries are as unique as our services





At each step of the preclinical R&D of your drug, ANS Biotech offers helpful and relevant services.





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Your needs

- Early data
 Strategy Candidate selection
 Screening • Proof of concept Pathophysiology
- Competitive advantage



Our solutions

- Diseases



ANS Biotech Your partner for building step by step your preclinical dossier

Your pain projects

Click on the pain project of interest to see how we can support your R&D efforts NEUROPATHIC PAIN PROJECT

INFLAMMATORY PAIN PROJECT

CANCER PAIN PROJECT

VISCERAL PAIN PROJECT

POSTOPERATIVE PAIN PROJECT















ranslational pain research is based on preclinical models with a well-understoodD ased on our smechanism and the application of these findings to the clinic (bottom-up). Anotherservices.approach is based on exploratory research in the clinic and the back-translation ofPROJECT EVALUAthese results to preclinical models (top-down).scientific evaluation

ANS Biotech R&D is one of our founding pillars built on the back-translational approach leading to develop **original and relevant preclinical models** inspired by clinical studies. We also undertake research projects in response to individual customer requests. Attentive to our clients' needs, ANS Biotech has developed preclinical models in cancer pain, inflammatory pain, neuropathic pain, visceral pain, and osteoarthritis pain over the last years.

ased on our scientific experience in pain, we propose a variety of consulting services.

PROJECT EVALUATION: We provide advice, recommendations and a complete scientific evaluation based on an extensive experience in the development of drugs for pain relief.

PROJECT MANAGEMENT: For specific projects, we can elaborate preclinical and clinical strategies, and we are able to ensure outsourcing management until project completion.

SCIENTIFIC AND MEDICAL WRITING: Scientific documentation (publications, investigator brochures, regulatory reports, ...) can be prepared.





« We develop original and relevant preclinical models inspired by clinic »

Dr. Laurent **DIOP** in Chief Scientific Officer echnical expertise is critical to run *in vivo* experiments successfully and we have amassed a considerable number of laboratory skills over the years by leveraging the **extensive experience of our laboratory team.** Part of these skills might prove useful to our clients with respect to their own in-house activities, and transfer is available through on-site training either in ANS Biotech or client facilities.



YOUR DECISION MAKING GUIDE



IN VIVO SCREENING IN RATS

V Vhen profiling leads in your discovery programs, you should consider ALGOGram[™], a unique *in vivo* screening tool that provides a rapid and cost-effective means to simultaneously explore activity in 10 fully validated pain models / tests across 5 different pain areas.

Whether your R&D programs target pain directly or they simply share features common to established pain mechanisms, you can obtain analgesic fingerprints of your leads in only 3 weeks.

ALGOGram[™] provides a user-friendly pharmacological compound profile based on simple-to-view plots facilitating your crucial "GO / NO GO" decisions.

ANSbioSamples

DRUG LEVELS IN RODENT BIOLOGICAL TISSUES

Linking *in vivo* pharmacokinetic assessments with efficacy endpoints can give a better understanding of the dynamics of drug action, and **ANSbio**Samples provides the ideal platform to establish these key relationships.

With **ANSbio**Samples, dosing and collection of healthy or pathological tissues are performed using a variety of customizable paradigms combining the desired route of administration with more than 20 biological tissue sources.

Drug exposure information can be used in conjunction with efficacy endpoints or as a prelude to determine the ideal dosing / timing for subsequent efficacy assessments. Bioanalysis can be performed *via* our preferred partner organizations, or samples can be shipped worldwide to your vendor of choice.



IN VIVO SCREENING IN MICE

f you are interested in a pain profile for your discovery leads, but are restricted to the use of mice, then you should consider **NOCIWay**[™], a unique *in vivo* screening tool that has been configured for use in this species.

Advantages include low compound requirements, rapid turnaround time and cost-effectiveness.

NOCIWay™ simultaneously explores the activity of your compounds in 5 fully validated pain models / tests across 3 different pain areas.

The analgesic fingerprint provided by **NOCIWay™** can be your first *in vivo* result serving as a guide for further development.







« Qualification of the need, flexibility, fast turnaround times and operational excellence are our daily business »



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