### CERTARA<sup>O</sup> Non-Animal Navigator™

# Expert strategy and AI-enabled biosimulation to reduce, refine, or replace animal studies

### Navigate the evolving nonclinical landscape with confidence

Preclinical drug development is shifting rapidly following the FDA's move to phase out animal testing for monoclonal antibodies (mAbs) and other drugs. To stay competitive, companies must adopt more predictive, cost-effective, and accelerated approaches using biosimulation and other new approach methodologies (NAMs). With thousands of mAbs in development, the need to replace animal studies is both a challenge and an opportunity.

Certara's Non-Animal Navigator<sup>™</sup> helps drug developers identify and implement optimal NAM strategies through a tailored gap analysis and solution plan, reducing timelines, cutting costs, and ensuring regulatory alignment.

### Future-proof drug development with animal-free modeling

### Key benefits include:

Reduced Animal Use

Replace or minimize animal studies with in silico models that meet ethical and regulatory standards.

### • Improved Predictive Accuracy

Leverage PBPK modeling to generate more humanrelevant insights than traditional preclinical methods.

### Accelerated Timelines

Identify risks earlier and streamline development by eliminating time-consuming animal testing.

### Regulatory Confidence

Deliver robust, mechanistic data to support submissions and align with evolving regulatory expectations.

### Core capabilities include:

### • Virtual Trials

Simulate drug efficacy and safety in virtual human populations, eliminating the need for animal testing.

### Mechanistic Modeling

Use quantitative systems pharmacology (QSP) to predict human outcomes and understand complex drug behaviors.

### Regulatory Strategy

Design regulatory roadmaps that incorporate nonanimal data to meet global submission requirements.

### • Data Integration

Aggregate and analyze diverse data sets to build a complete, predictive picture of drug performance.

### Maximize impact through our connected solutions

Our Non-Animal Navigator<sup>™</sup> Solution seamlessly integrates with our suite of tools and services:

### Drug Development Strategy and Regulatory Support

Leverage expert support and tailored NAM strategies to accelerate drug development, ensure global regulatory alignment, and drive efficient, compliant submissions.

• Simcyp<sup>™</sup> PBPK Simulator

Supporting accurate, animal-free predictions of drug behavior, interactions, and dosing to accelerate development and support regulatory decisions

### Quantitative Systems Pharmacology Models (QSP)

Provide mechanistic, human-relevant insights into drug behavior and immune response, reducing reliance on animal studies and supporting confident, data-driven decisions.

## Why Choose Certara's Non-Animal Navigator?

2,400+

>90%

biopharmaceutical companies and regulatory agencies across 70 countries

of all novel drugs approved by the US FDA since 2014 were supported by Certara services or technology

100+

papers published by Certara's scientists in 2024 alone, with the 12 recognized among the top 2% of cited researchers globally

### Connect with our experts today

Embrace a future of ethical, efficient, and effective drug development with Certara's Non-Animal Navigator.



#### Fran Brown, PhD

Senior Vice President, Head of Drug Development Science

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30+ years of experience with strategic and operational drug development from early discovery to filing and post-marketing.



#### Patrick Smith, PharmD SVP, Translational Science, Certara

SVP, Iranslational Science, Certara Drug Development Solutions patrick.smith@certara.com

20+ years of drug development experience, Patrick has worked across all phases of drug development with deep expertise in infectious diseases, oncology, and inflammation.



#### Piet van der Graaf, PharmD, PhD

Senior Vice President and Head of Quantitative Systems Pharmacology piet.vandergraaf@certara.com

30+ years of experience in clinical pharmacology and quantitative systems pharmacology.



### Hannah Jones, PhD

SVP, Head of Simcyp PBPK Modeling Services hannah.jones@certara.com

20 years of experience in global pharmaceutical organizations, possessing a particularly strong background in PBPK and PKPD modeling.

#### Have questions? Learn more or contact us here.

#### About Certara

Certara accelerates medicines using biosimulation software, technology, and services to transform traditional drug discovery and development. Its clients include more than 2,400 biopharmaceutical companies, academic institutions, and regulatory agencies across 70 countries.

