BIOCELERATE: ADVANCING TOXICOLOGY THROUGH DATA, INTELLIGENCE AND COLLABORATION

SEPTEMBER 2026

BioCelerate

Who We Are

BioCelerate, a subsidiary of TransCelerate, was established to advance nonclinical collaboration to facilitate the development of new medicines. Our work centers on catalyzing cross-industry progress through shared data that support advancements in preclinical safety science. The focus is on expanding toxicology data sharing and creating an innovation space that enables future-ready safety science.

Our Strategic Focus

BioCelerate's strategy centers on three pillars:

- Excellence in Toxicology Data Sharing (TDS) and Enabling Translational Safety (ETS)
- Engagement and collaboration across the R&D ecosystem
- An innovation space to explore emerging approaches in toxicology

BioCelerate is exploring several scientific areas that have emerged through member discussions and broader developments in safety science:

- AI, New Approach Methodologies (NAMs) and predictive toxicology
- Data harmonization and cross-functional collaboration

These focus areas reflect shared industry needs and align BioCelerate's efforts with evolving scientific and regulatory expectations.

Why Participate in BioCelerate

BioCelerate provides member organizations[1] with a powerful opportunity to accelerate scientific insight, reduce risk in decision-making, and influence the future of toxicology and safety science.

Access to High-Value, Actively Used Multi-Company Data

- The TDS platform is a pragmatic approach to enable cross-company data sharing, with members able to use the shared data for their own independent work
- The platform includes **more than 600 studies**, with **over 700 unique downloads in 2025**, demonstrating strong utilization and real-world relevance
- The dataset continues to grow, with a strategy targeting **10% annual increases in study contributions**

Advancing NAMs, AI, and Predictive Toxicology

- Participate in early-stage exploration and strategic dialogue on **AI, NAMs, and predictive toxicology**—areas identified as critical for the future of safety science

[1]Participation in BioCelerate requires membership in TransCelerate. Visit BioCelerate's Leadership & Governing Model for more information.

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- Contribute to and learn from the development of emerging tools aligned with evolving regulatory science and modernization efforts

Translational Safety Collaboration

- Explore the integration of **preclinical and clinical safety data** to identify safety signals through a multi-company proof of concept
- This work evaluates whether harmonized terminology and exploratory tools can improve risk identification when nonclinical and clinical data are analyzed together

Why Engage Now

As toxicology and safety science continue to evolve, BioCelerate remains focused on enabling scientific exchange, expanding shared data resources, and exploring emerging areas of interest identified by participating organizations. Through its data-sharing platforms and collaborative initiatives, BioCelerate serves as a venue for learning and insight generation while preserving independent decision-making by participating companies.

To learn more about BioCelerate and participation opportunities, visit BioCelerate.org.

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