

Efferent Labs Applauds FDA's Shift Away from Animal Testing

Efferent Labs' CytoComm® platform is positioned as a critical enabler of new drug evaluation standards following the FDA's shift from animal testing.

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Efferent Labs, Inc., a preclinical-stage biodevice company specializing in *in vivo* cellular data collection, celebrates the U.S. Food and Drug

Administration's ([FDA](#)) groundbreaking move toward reducing reliance on

mandatory [animal testing](#) for monoclonal antibody therapies and other drug classes. The long-awaited regulatory transformation serves to streamline development and improve patient outcomes and safety, while ultimately lowering costs.



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Bill Rader, CEO Efferent Labs

The FDA's plan outlines a strategic shift toward New Approach Methodologies (NAMs) and positions Efferent Labs' revolutionary CytoComm® biosensor platform to support the transition with a human-relevant, wireless, real-time alternative that aligns directly with the FDA's roadmap.

“This is the moment we've been building toward,” said Bill Rader, CEO of Efferent Labs. “Our CytoComm® platform provides the dynamic cell-based insight and continuous real-time wireless feedback that traditional animal models

simply cannot deliver. With today's FDA announcement, Efferent Labs moves from visionary to essential.”

The FDA's pivot to AI-based toxicity and efficacy modeling relies on one critical factor: biologically meaningful, statistically reliable and clinically relevant inputs. However, many preclinical systems fall short of this standard.

The CytoComm® platform addresses these limitations by capturing continuous molecular activity from engineered cell lines in vivo. This enables clean, longitudinal data that supports earlier decision-making, reduces animal use, and improves predictive accuracy—all while laying the foundation for AI modeling that regulators can trust.

CytoComm® directly addresses the FDA's key aims under its new framework:

Reduces animal use by replacing live models with embedded, human-relevant cellular sensors

Accelerates development timelines via continuous real-time monitoring

Improves predictive accuracy by capturing complex pharmacodynamic data

Seamlessly integrates with AI workflows, supported by HookeCA™—Efferent's cloud-based analytics interface, which enables real-time data visualization and regulatory-aligned formatting

As the first implantable cellular biosensor of its kind, CytoComm® provides continuous, high-fidelity molecular data without relying on terminal endpoints or high-stress procedures. This enables researchers to capture detailed pharmacodynamic responses using smaller cohorts, fewer animals, and statistically robust outputs.

"We are proud to be part of the solution," said Rader. "The science is ready. The technology is here. And with this regulatory shift, the path is now clear. CytoComm® isn't just the future—it's the answer."

For more information or partnership inquiries, visit <http://www.efferentlabs.com>

About Efferent Labs

Efferent Labs is pioneering the future of preclinical drug testing with its real-time cellular biosensor platform, CytoComm®. Designed to replace static animal-based endpoints, CytoComm® delivers dynamic, high-fidelity cell-based insights—saving time, reducing costs, and elevating both human safety and ethical standards.

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