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ROBERT L. CALDWELL, PH.D., SENIOR ADVISOR

EDUCATION:

Ph.D. Cellular & Molecular Pathology,
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Postdoctoral Fellowship,
Pharmacology & Biochemistry
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Robert L. Caldwell, Ph.D., is the founder and CEO of Strategic Health Solutions, LLC and a nationally recognized bioscience and biomedical consultant with over 25 years' experience spanning industry, academia, and federal government. He is a subject matter expert in infectious diseases, oncology, tissue regeneration, and synthetic biology, and has led strategic initiatives for the Department of Defense (DTRA, DARPA, JPEO), public health agencies (NIH and the Office of Healthy Futures), and major research universities and industry. Dr. Caldwell brings finely honed technical expertise in multi-omics discovery, organoid model development, drug delivery systems, and the integration of AI/ML and computational biology to accelerate therapeutic innovation, drug delivery systems, vaccine development, and diagnostic/detection platforms from discovery to clinical trials.

He earned his Ph.D. in Cellular and Molecular Pathology from Vanderbilt University and completed a postdoctoral fellowship in Pharmacology and Biochemistry at Vanderbilt University School of Medicine. Dr. Caldwell has published extensively in peer-reviewed journals, authored academic book chapters, and delivered platform presentations over various subject matters. He serves on multiple scientific advisory boards across industry and academia, worldwide, and regularly collaborates with government relations firms as a technical and strategic advisor. Based in Washington, DC, he works closely with startups, global pharmaceutical firms, and research universities to bridge innovation with mission-aligned health solutions across the defense and public health sectors.

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