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For Immediate Release

Aegis Technologies Announces the Release of ADME WorkBench 2.0, Including New Modules for DDI/Metabolites, Physiological Variability and Age Dependence, and Dermal/Pulmonary Absorption Models

Huntsville, Alabama (March 18, 2015) - The Aegis Technologies Group, Inc., a leading provider of modeling and simulation software, training and consulting services to the pharmaceutical, biotech, toxicology and risk assessment communities, announces the release of ADME WorkBench version 2.0, which introduces major new features for pharmacokinetic modeling, including optional Plug-in modules for drug-drug interaction and metabolite tracking, age dependence physiology and physiologic variability, and advanced pulmonary and dermal absorption models.

New ADME WorkBench 2.0 capabilities include:

- Complex dosing scenarios: build dosing regimens containing multiple routes, irregular dosing intervals and multiple compounds
- Comparison of CL and VDSS values predicted using various scaling techniques
- Permeability-limited tissues: select flow-limited or permeability-limited kinetics on a tissue-by-tissue basis
- Additional pre-clinical species: target species now include rabbit, monkey and mini pig
- Graphical display of additional predicted quantities: cumulative excreted amounts, regional amounts in GI and pulmonary tracts (undissolved/dissolved/absorbed/metabolized)
- Now includes acsIX (model authoring) software
- Plugins (optional)
 - Drug-drug interaction and metabolite tracking
 - Complex metabolic networks: track multiple parent and child compounds with arbitrarily complex parent-child relationships
 - Dosing scenarios with multiple absorbed compounds
 - Competitive, non-competitive and uncompetitive inhibition
 - Variability and Age Dependence
 - Age- and gender-dependent macroscopic physiological parameters

- Cellular-Level Parameters- Tissue Compositions
- Age-dependent metabolic capacity
- Variability prediction of PK concentration profiles and dosimetric quantities: C_{max}, AUC, half-life, MRT
- Pulmonary absorption: inhalation deposition and uptake model with detailed representation of respiratory tract regions
 - Population variability
 - Effects of carrier, hygroscopic phenomena
 - Mucociliary clearance to GI and lymphatic system
 - Regional deposition, dissolution and absorption effects
 - Buccal and pulmonary absorption pH dependence
 - Effects of disease states
- Multi-compartment skin penetration model
 - Finite difference-based model
 - Concentration vs. time vs. depth
 - Metabolism in skin
 - Discrete models for stratum corneum, viable epidermis, and dermis
 - Multiple application/removal scenarios: immobile vehicle, neat pool permeant, wash-off

First introduced in 2013, ADME WorkBench is a versatile software application providing flexible, robust pharmacokinetic modeling by integrating state-of-the-art absorption, distribution, metabolism and excretion methods. Designed for research applications in pharmacology and toxicology, ADME WorkBench supports pharmacokinetic prediction from available in vitro and/or in vivo data for drugs and environmental chemicals. The ADME WorkBench user interface offers a highly optimized workflow for predictive pharmacokinetics, while allowing ample flexibility to adapt to specific research needs. The pharmacokinetic models used in ADME WorkBench are based on research resulting from the PhRMA CPCDC Initiative on Predictive Models of Human Pharmacokinetics, and described in a series of articles published in the Journal of Pharmaceutical Sciences in 2011. Users of ADME WorkBench are able to leverage the work of a highly interdisciplinary team of experts in pharmacokinetics, mathematics, computer modeling and user interface design.

About The AEgis Technologies Group Inc.

AEgis Technologies is a privately held small business headquartered in Huntsville, Alabama, USA, that provides advanced technology and expert consulting services to industries throughout the world. AEgis specializes in modeling & simulation (M&S) and micro/nanoscale technology development. The company's M&S products and services include simulation software and training simulators; geospatial databases; 3D models; war fighter exercise support; systems engineering and analysis; verification, validation, and accreditation (VV&A); test and evaluation support; Hardware-in-the-Loop (HWIL) and Man-in-the-Loop (MIL) simulation. AEgis' Advanced Technologies group excels in advancing cutting

edge micro and nanoscale technologies with applications ranging from defense to energy to biotechnology.

AEgis was awarded one of the Top 20 Best Places to Work in 2012 by the Huntsville/Madison County Chamber of Commerce and was also awarded the 2012 Small Business of the Year. AEgis' President & CEO, Steve Hill, was awarded the 2012 Russell G. Brown Executive Leadership Award for excellence in leadership and entrepreneurship.

AEgis has enjoyed steady growth with revenues increasing to \$65+ million in sales and employment of 325+ professionals. AEgis has been instrumental in the acceptance of M&S as a profession, as a graduate program of study and in the creation of an M&S standards and professional certification across the international M&S professional community-of-practice. Since its founding in 1989, AEgis is committed to honesty and integrity and has been recognized for its honorable business practices by receiving the Better Business Bureau's Torch Ethics Award. The company's highly skilled work force is dedicated to building lasting relationships and providing superior products and services to our customers.

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