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## **BIOMAX INFORMATICS AG reaches first milestone in European systems and personalized medicine project**

### ***Bringing expert knowledge into everyday clinical praxis***

**PLANEGG, Germany** — (14 June 2012) — Within the last year Biomax Informatics has established the knowledge integration platform in a research project to develop a new generation of healthcare tools for predictive, personalized medicine. The Synergy-COPD project, funded by the European “Framework Programme 7”, will generate a simulation environment and clinical decision support system enabling systems medicine. Though generally applicable, the tools created will be validated using data from patients with chronic obstructive pulmonary disease (COPD). The project’s goal is to improve patient care and healthcare outcomes, reduce errors and increase efficiency.

Leveraging Biomax’s BioXM technology, a comprehensive COPD knowledge base with a graphical frontend for visualizations is being established. The system integrates five well-established simulations of human physiology with biomedical data drawn from experimental studies, epidemiological data, clinical trials, physician interviews, a multi-center longitudinal study on COPD phenotyping, and public datasets. Integrating with a Simulation environment, researchers will be able to perform simulations linking symptoms and pathologies in organs and tissues with other features, such as metabolic pathways. Building on this foundation, a decision support system will allow doctors to anticipate disease progression and optimize therapy.

COPD was chosen to validate the projects systems biology approach because it is a complex, heterogeneous, multi-component disease. COPD is also a major public health problem: it is ranked as the fourth leading cause of death in Europe and one of Europe’s leading causes of healthcare costs. “COPD is the ideal target for this project, which aims to realize patient-centered, integrated medicine in general healthcare,” says Dr. Dieter Maier, Biomax Project Manager. “Our aim is to equip healthcare providers with innovative tools that lead to the best treatments for patients.”

#### **About the Synergy-COPD project**

The Synergy-COPD project is funded by the European Union’s Seventh Framework Programme for Research and Technological Development (FP7) to develop a simulation environment and a decision-support system enabling systems medicine. The project’s research partners are leading experts in the field of COPD and relevant technologies and methods for advancing COPD research. More information about the consortium is available at [www.synergy-copd.eu](http://www.synergy-copd.eu).

#### **About Biomax**

Biomax Informatics AG (Planegg, Germany), founded in 1997, is a leader in the development of computational solutions for the life sciences. Biomax developed the BioXM™ Knowledge Management Environment and markets the Viscosity® technology for better decision-making and knowledge management in biomedical sciences. More information about Biomax is available at [www.biomax.com](http://www.biomax.com).

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