



## **FOR IMMEDIATE RELEASE**

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## **Ariadne Receives SBIR Phase I Grant from NIH *Towards the Expansion of MedScan Technology***

ROCKVILLE, MD – Ariadne today announced receiving a \$100,000 SBIR Phase I grant from the NIH, National Center for Research Resources towards the further development of MedScan technology. MedScan employs natural language processing (NLP) to extract biomedical information from scientific text into databases amenable for computational analysis. The grant will be used to expand the scope of MedScan beyond its traditional focus on pathway analysis.

MedScan utilizes a high content linguistics approach to extract functional relationships between biological entities such as proteins, cell processes and small molecules from MEDLINE abstracts and full text articles. It recognizes types of regulatory mechanisms involved, the effects of regulation, and can be customized to extract other types of information and focus on different organisms.

The SBIR grant will be used to expand MedScan into the area of toxicology, small molecule-enzyme interactions, and human metabolism. The resulting knowledge base will have immediate impact and offer a high value proposition for early IND rejection as well as in biomarker discovery.

"MedScan offers a unique technology for extraction of biomedical information from the digitally-accessed literature. We are fully dedicated to its further improvement and extension into other areas of importance to biomedical research and human health, said Nikolai Daraselia, Senior Director of Research at Ariadne. "Our ultimate long-term goal is to convert the entire available corpus of biomedical literature into a formal database suitable for advanced computational and logical analysis".

MedScan technology was used on the entire body of PubMed to create the ResNet database of more than 1.25 million functional relationships. The ResNet database is an embedded component of Ariadne Pathway Studio pathway analysis software. MedScan is also included as a text processing and information extraction component with Pathway Studio.

### **About Ariadne**

ARIADNE ([www.ariadnegenomics.com](http://www.ariadnegenomics.com)) Pathway Studio software is used worldwide as a comprehensive solution for analysis and searching of pathways and molecular interaction information. Ariadne offers desktop and enterprise editions of Pathway Studio which are

supported by several commercial and publicly available molecular interaction databases including ResNet Mammalian and ResNet Plant. Pathway Studio powered by MedScan Technology can be used to edit and enhance database content from the current literature and from experimental data.

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