



**For Immediate Release**

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**Cloud Pharmaceuticals and Egenix Form Partnership to Discover  
New Cancer and Autism Drugs**

*Cloud-based Inverse Design Platform to Accelerate the Discovery Process*

**RESEARCH TRIANGLE PARK, NC (February 26, 2014)...** Cloud Pharmaceuticals announced today a strategic partnership with Egenix, Inc., a privately held New York based biotechnology firm. The two companies are working together to design new drugs that are effective against cancer and autism.

Cloud Pharmaceuticals will use its Inverse Design software platform to design new drug molecules to effectively help Egenix accelerate its drug discovery and development process. Egenix is providing funding and target data that Cloud Pharmaceuticals will apply to identify and optimize inhibitors for certain cancer indications and autism. Egenix will develop the drugs through Phase 2 while Cloud Pharmaceuticals retains a minority stake in the two drugs.

Inverse Design runs computational models to quickly scan a vast chemical space to find the strongest inhibitors of a specific biological target, ones that also have good druggable properties and are predicted to have low toxic side effects. Inverse Design also has filters for many important drug properties including toxic side-effect risk assessment, off-target effects assessment, synthesizability, solubility, freedom to operate assessment. Specialized filtering can assess if a molecule crosses the blood-brain barrier.

"Designing new drugs that bind to a specified protein target requires finding the best match among millions of molecules and peptides. Our approach executes the search much more efficiently and with greater accuracy than traditional methods," says Ed Addison, CEO of Cloud Pharmaceuticals. "Outside reviewers have claimed that Cloud Pharmaceuticals saves over 75% of the time and cost of drug discovery, while providing novel, patentable composition of matter."

"They say genetics loads the gun and environment pulls the trigger. We expect that our partnership with Cloud Pharmaceuticals will help create drugs that will stop the trigger from being pulled," says Donald Fresne, Egenix's CEO. "We believe Cloud Pharmaceuticals to have the best in silico drug discovery platform available. Plus, Cloud Pharmaceuticals has the unique ability to filter lead compounds that cross the blood-brain barrier, which is critical for our eIF4e autism inhibitor drug."

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Companies can use Inverse Design as a service and run it via the Windows Azure cloud or a private cloud to design, discover, or optimize new small molecule or peptide drugs for their targets. Cloud Pharmaceuticals also partners and licenses assets in its pipeline which include compounds for many targets including Jak2, Jak3, hdac8, Aurora A, 11b-HSD1, hsp90, MAPK10, pfDHFR-Ts, ABL1, ABL3, ROCK1, TYK2, c-Kit, among others.

### **About Cloud Pharmaceuticals**

Cloud Pharmaceuticals accelerates the drug discovery and design process with its Inverse Design software platform. Inverse Design runs in the cloud and uses a computational method to quickly scan a vast chemical space to find strong and selective inhibitors with good drug-like properties for a specific biological target. Cloud Pharmaceuticals has a pipeline of over 15 lead compounds for cancer, inflammation, diabetes, hepatitis, and a number of rare and orphan diseases. The company is involved in building a massive life sciences data center that will preemptively jump-start the drug discovery process for the entire human proteome.

### **About Egenix, Inc.**

Egenix is a privately held, New York-based biotechnology company focused on the development of innovative therapeutics. The company's therapeutic platform technology consists of small molecule drugs applicable for the treatment and prevention of a broad spectrum of cancers and autism. The Egenix lead compounds inhibit the protein "translation initiation factors" *eIF4E* and *eIF2a*.

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