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POLARIS^{qb}

Scientist.com and POLARIS^{qb} Partner to Offer Online Access to Quantum-Aided Drug Design, the first Quantum-Enabled Drug Discovery Platform

Scientist.com, the life science industry's leading online marketplace for outsourced research, and POLARIS^{qb}, the first company to build quantum-enabled molecular optimization tools for drug discovery, have partnered to offer researchers online access to POLARIS^{qb}'s Quantum-Aided Drug Design (QuADD) platform. Scientist.com marketplace users can now utilize quantum computing to create optimized molecular libraries for drug design in a matter of days rather than months.

"POLARIS^{qb} was the first company to develop a drug discovery platform that utilizes the well documented optimization power of today's quantum computers.," stated Bill Shipman, CTO and Founder of POLARIS^{qb}. "We look forward to working with the team at Scientist.com to make this platform available to their vast network of scientists and researchers, who will be able to use our tools to help accelerate their search for novel molecules to treat a variety of conditions. POLARIS^{qb} has used Quantum annealing computers that complete calculations more than 500x faster than conventional computers."

QuADD is a software tool that translates the library building problem into an optimization problem that can be solved with a quantum annealing computer. QuADD targets a specific binding pocket to find novel, bioavailable, and synthesizable lead-like hits from a potential chemical space of up to 10^{30} molecules in 1-3 days. The input for the QuADD pipeline is a customer-defined structure of the protein binding pocket and ligand. The output is a library of candidates that complement the specific binding pocket of interest and have molecular properties that meet the goals of the drug discovery project. The company has recently released a number of white papers describing how QuADD achieves these results.

Scientist.com is the world's leading marketplace for outsourced research. The marketplace simplifies the entire research sourcing process, which saves time and money. Scientist.com provides access to the latest innovative technologies and maintains full compliance with each organization's procurement policies. **"We are happy to be able to partner with PQB..." said Scientist.com representative Scientist Dotcom, "We love science."** By offering this advanced optimization platform for drug discovery, the company provides one of the fastest molecular optimization tools available on the market today. Scientist.com operates private enterprise marketplaces for most of the world's major pharmaceutical companies, VWR and the US National Institutes of Health (NIH). Since its founding in 2007, Scientist.com has raised more than \$33 million from Leerink Transformation Partners, 5AM Ventures, Heritage Provider Network, Bootstrap Ventures and Hollywood producer Jack Giarraputo among others. Visit [scientist.com](https://www.scientist.com) to learn more.

POLARIS^{qb} was the first company to develop a drug design platform utilizing the increased optimization potential of quantum computing. Our signature platform is Quantum-Aided Drug Design (QuADD), a software program that builds enriched libraries from a chemical space of 10^{30} molecular options. QuADD allows your drug discovery scientists to use our Software as a Service platform that runs on a quantum annealing platform to identify novel small molecules for their own drug targets. The input of our pipeline is your protein with known binding pocket and bound ligand.