



# QUANTA BIODESIGN LIMITED

Leading The Way Through Single  
Molecule dPEG<sup>®</sup> Innovation  
and Manufacturing

[QuantaBioDesign.com](http://QuantaBioDesign.com)



EXCLUSIVELY INVENTED, DEVELOPED AND MANUFACTURED

# QUANTA BIODESIGN: CREATING A POWERFUL BRIDGE BETWEEN CHEMISTRY AND BIOLOGY!

Our vision is focused on creating, processing and commercializing a complete range of dPEG® products. The goal is to provide the full scope of functional applications required by biologists, chemists and engineers with the incredible benefits that the PEG construct builds in. All of the products are designed and manufactured at our facility in Plain City, OH USA.

## THE dPEG® CONCEPT

A fundamentally **NEW** paradigm in Bio- and Nano-conjugation, dPEG®ylation applications allow:

- *Control design in standard conjugation and labeling apps*
- *Offers all of the great properties of PEG, but as single molecules*
  - *Water soluble*
  - *Non-aggregating*
  - *Non-toxic and non-immunogenic*
  - *Creates size*
- *Completely characterizable*
- *Single molecule building blocks allow a broad range of designs*
  - *New Branched dPEG®s*
  - *New Sidewinder™ dPEG®s*

## WE ARE THE dPEG® EXPERTS!

Innovating in all areas of dPEG® technology:

- *New product design*
- *Process development*
- *Manufacturing/scale-up*
- *Bio-conjugation applications*
- *Establishing intellectual property*
  - *Process*
  - *Composition*
  - *Methods*
  - *Applications*

## **ABOUT QUANTA BIODESIGN, LTD.**

Our founder, Paul D. Davis, Ph.D., started the company with the objective of developing the full potential of the dPEG<sup>®</sup>, single molecule, paradigm/concept. He recognized that it would transcend the existing paradigms of polymer modification using large polymer systems.

This is accomplished by offering a growing set of products available through our catalog and website, as well as offering custom synthesis services. QBD is building the best processing options for design, as well as manufacturing for commercial quantities as our customers' progress through the drug development cycle. Our goal continues to be to develop economical solutions for commercial scale product volumes.

We are committed to developing the best chemistry options for the very broad range of applications where the dPEG<sup>®</sup> finds great benefit; from the post-modification of proteins, basic bio-conjugation, labeling diagnostics to nanoparticles and surface modifications and coatings.

We are located in the northwest corner of Columbus, Ohio in a newly outfitted 12,000 sq. ft. facility, designed to meet the needs of customers for both catalog and custom products. This facility provides flexibility for manufacturing and scale up activities, as well as the systems infrastructure for the quality, data collection and documentation systems for our 510k and cGMP FDA regulated customers.

**QUANTA IS 100% PRIVATELY  
OWNED AND OPERATES WITH  
NO OUTSIDE INVESTORS.**



# QUANTA BIODESIGN, LTD. PRODUCTS, SERVICES, FACILITIES AND CAPABILITIES

- *Customer first*
- *Overnight delivery on domestic orders*
- *Full product catalog*
- *Custom synthesis*
- *License IP for field of use*
- *2,000 sq. ft. for lab and customer support*
- *Full range of lab capabilities to provide catalog and custom production from mg to multi-kg*
- *cGMP partners*
- *Full range of analytical functions for characterization and quality monitoring*
- *All production and analytical data generated and stored electronically*
- *OSHA and EPA compliant*

*Our new 12,000 sq. ft. lab & support facility in Plain City, Ohio*





# QUANTA BIODESIGN L I M I T E D

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