



## NEWS RELEASE

### Johns Hopkins experience shows Malvern customers buy more than just an instrument

**<date>: Malvern, UK:** Justin Galloway, a graduate member of the Searson and Devreotes Group at The Johns Hopkins University in the Institute of NanoBioTechnology (Maryland, USA), cites Malvern Instruments customer support as being instrumental in helping interpret and develop some of the data associated with the publication of a paper in the journal *Nanomedicine*.

Mr Galloway elected to use a Zetasizer Nano from Malvern to collect size and zeta potential data for quantum dot (QD) studies and found Malvern extremely supportive in responding to his enquiries about the most appropriate methodologies and analytical techniques for getting the most from his biomedical nanoparticle characterization data.

Justin Galloway said, "When Johns Hopkins' Department of Materials Science and Engineering had the opportunity to get a light scattering instrument we looked at several. Malvern always gives us what we need, the price is right and the Zetasizer is easy to use as a beginner. However, I wanted to find out even more about how to get as much information from my results as I could so I contacted Product Marketing Specialist Jean-Luc Brousseau."

"I was really surprised how much time Dr Brousseau was willing to spend with me. After discussing my work with him, both by phone and in person, I became confident in how to best present my data. His help was instrumental in getting my work published," explained Mr Galloway.

'Quantitative characterization of the lipid encapsulation of quantum dots for biomedical applications', by Justin F. Galloway, B S *et al*, was published in *Nanomedicine* in December 2011. The authors report on the water solubilization of quantum dots using lipid encapsulation. Particle size distributions and zeta potential, used to determine stability and surface functionalization and for final product quality control, were obtained using a Zetasizer Nano.

Further information about the work of the Searson and Devreotes Group at The Johns Hopkins Institute for NanoBioTechnology can be found at: <http://materials.jhu.edu/>

Malvern's Zetasizer series measures: particle and molecule size from below a nanometer to several microns using dynamic light scattering; zeta potential and electrophoretic mobility using electrophoretic light scattering; and molecular weight using static light scattering. Further information can be found at:

[www.malvern.com/zetasizer](http://www.malvern.com/zetasizer)

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**Image, notes and contact details follow...**

High resolution image attached or available from Luke Newman,  
Kapler Communications [luke.newman@kapleronline.com](mailto:luke.newman@kapleronline.com) Ref: MAL/JOB/2280

**CAPTION:** Zetasizer Nano from Malvern instruments



#### **About Malvern Instruments**

Malvern Instruments is a market leader in measuring performance controlling material properties. These include particle size, particle shape, zeta potential, molecular weight, size and conformation, rheological properties and chemical identification. Malvern delivers the systems, support and expertise that ensure the analytical integrity and productivity needed to drive research, development and manufacturing.

Malvern's measurement solutions for scientists, technologists and engineers advance continually through customer collaboration. Complementary materials characterization systems deliver inter-related measurements that reflect the complexities of particulates and disperse systems, nanomaterials and macromolecules. Combining intelligently implemented technologies with in-depth industry applications knowledge and support, Malvern provides customers with the competitive advantage they demand.

Headquartered in Malvern, UK, Malvern Instruments has subsidiary organizations in all major European markets, North America, China, Japan and Korea, a joint venture in India, a global distributor network and applications laboratories around the world. [www.malvern.com](http://www.malvern.com)



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