The Canary System
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QUANTUM DENTAL TECHNOLOGIES LAUNCHES "CANARY LAB"

Using the same PTR-LUM 'energy conversion technology' as The Canary System, Canary Lab is a bench-top instrument that enables researchers with a non-destructive method for detecting defects/caries in the enamel of extracted teeth.

Quantum Dental Technologies (QDT) announced today the launch of the Canary Lab. The Canary Lab is a bench-top instrument that provides researchers with a non-destructive method for detecting defects/caries in the enamel of extracted teeth. Using the same powerful energy conversion technology as The Canary System™, the Canary Lab uses PTR-LUM to scan smooth tooth surfaces providing a graphical image along with quantification.

The Canary Lab allows imaging and quantification of early demineralization, erosion lesions and monitors changes in crystal structure on smooth surfaces overtime in a non-invasive fashion. With the proficiency of The Canary Lab, demineralization and remineralization studies using the same sample can be accurately performed, reducing the influence of inter-sample biological variability.

"The Canary Lab is a great tool for both dental researchers and clinicians alike, who want to add a dimension of imaging and quantification of changes in enamel crystal structure of extracted teeth without damaging their samples", says Dr. Stephen Abrams, CEO of QDT.

"We have significantly reduced the footprint and weight of the instrument, developed robust software, and enhanced the functionality of the system by adding a three-axis micrometer stage that enables one to conduct longitudinal studies by returning to the exact location on the tooth after a selected treatment regimen", says Dr. Josh Silvertown, Chief Operating Officer of QDT.

Data from the use of the Canary Lab to image and quantify enamel erosion will be presented by Dr. Silvertown on Saturday, March 23rd, 2013, at the International Association of Dental Research in Seattle, USA.

Canary technology is powered by PTR-LUM – an energy conversion technology that measures the level of glow (luminescence or LUM) and heat (Photo-Thermal Radiometry or PTR) released from the tooth. Laser light interacts differently with healthy than with decayed enamel.

The technology behind The Canary System and Canary Lab is the product of over 12 years of research and development which includes 55+ peer-reviewed journal articles, 6 patent families, and supported with two clinical trials performed under FDA CFR 21 guidelines.

For those who cannot attend the IADR, please visit www.thecanarysystem.com or email info@thecanarysystem.com to request additional information.

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