

NEWS RELEASE - FOR IMMEDIATE RELEASE**Date: 19.10.2015****Image Attached****-Copy Starts-****University of Brescia uses G:BOX Chemi XX6 to detect nitrated proteins
*Research is helping identify biomarkers of Alzheimer's Disease***

Cambridge, UK: Syngene, a world-leading manufacturer of image analysis solutions, is pleased to announce its G:BOX Chemi XX6 multi-application imager is being utilised by scientists at the University of Brescia for analysing nitrated proteins. This is providing the researchers with accurate information on changes in proteins and may help to identify biomarkers related to Alzheimer's disease.

Researchers in the Department of Molecular and Translational Medicine (DMMT) at the University of Brescia in Italy are using a G:BOX Chemi XX6 system to analyse nitrated proteins fluorescently stained with Cy2, Cy3 and Cy5 on 2D DIGE (Difference Gel Electrophoresis) gels. These proteins have been isolated from the blood of healthy individuals, as well as Alzheimer's sufferers and studying them is allowing scientists at the university to accurately detect which proteins are being nitrated. This information is then being used to identify biomarkers associated with disease onset and could contribute in future to selecting people at risk of developing the disease for therapeutic and other interventions.

Dr Daniela Uberti, Assistant Professor of Pharmacology in the DMMT at the University of Brescia explained: "We have been sampling blood from healthy volunteers and Alzheimer's disease patients for around 15 years but the amount of nitrated proteins we're looking for, to indicate disease onset, is very small so we need to use a DIGE approach to find them. This means we have to have sensitive detection with an imager that can visualise nanogram amounts of protein."

Daniela added: "We tested the G:BOX Chemi XX6 with our large 2D DIGE gels and found the system could easily detect nitrated proteins at below the nanogram level and is why we acquired the technology. Since then many researchers in our department have said the system is easy to use so we are very satisfied with the performance of the G:BOX XX6 in our laboratory."

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Scientists wanting to find out more about the versatile G:BOX Chemi XX6 should click the link for more details: <http://www.syngene.com/g-box-chemi-xx6/>

“We’re delighted to hear that the G:BOX Chemi XX6 multi-functional imager is helping with finding vital biomarkers for Alzheimer’s disease,” states Rob Van den Broek, European Sales Manager at Syngene, “the work at the University of Brescia demonstrates that for accurate, sensitive proteomics research the G:BOX Chemi XX6 imaging system is an excellent choice.”

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Note to Editors

About Syngene

Syngene is a world-leading supplier of integrated imaging solutions for analysis and documentation of gel-based information. Syngene’s systems are used by more than 10,000 research organisations and over 50,000 individual scientists world-wide and include many of the world’s top pharmaceutical companies and major research institutes.

Syngene, founded in 1997, is a division of the Synoptics Group of the AIM listed Scientific Digital Imaging Company based in Cambridge, UK. The Group’s other divisions, Syncroscopy and Synbiosis, specialise in digital imaging solutions for microscopy and microbial applications respectively. Synoptics, which is celebrating its 30th anniversary of being in business in 2015, currently employs 40 people in its UK and subsidiary operation in Frederick, USA.

Department of Molecular and Translational Medicine

The Department of Molecular and Translational Medicine (DMMT) at the University of Brescia, founded in 2011, includes more than 70 professors and researchers and encompasses different areas of basic research, diagnostics, translational and clinical

medicine. Their interests span from Agri-food, Biochemistry, Biology and Genetics, Clinical Biochemistry, General Pathology, General Surgery, Histology, Immunology, Microbiology, Molecular Biology, Pathological Anatomy, Pharmacology, to Physics and Statistics.

The Department hosts multiple research facilities (such as electronic and confocal microscopy, a laboratory for the handling of genetically modified micro-organisms, image analysis, zebrafish husbandry, etc.) and is about to implement novel technological platforms for Next Generation Sequencing and proteomics.

The main objectives of this Department are: educating and training the future leaders in biomedical research by providing a rich intellectual environment for both undergraduate and graduate students as well as for postdoctoral fellows; promoting a bidirectional integration between basic and clinical research for the progress of medical sciences; developing and strengthening the field of biotechnologies as a converging point for academy and the local industry; further developing and improving diagnostics.

The general goal of the activities carried out in the Department are to improve the understanding of the causes of human diseases and to develop therapeutic and preventive medicine in order to contribute to a better lifestyle and environment for future generations.