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Analytik contact:
Ksenia Semina, +44(0)759 571 0508

Media contact:
Jezz Leckenby, +44(0)1799 521881

Analytik reports on life sciences company, SESMOS, using the GeSiM Nano-Plotter in the development and production of biosensors.

Cambridge, UK, 23rd April, 2013: Analytik, leading suppliers of innovative analytical solutions to the UK and Ireland, reports on the use of a GeSiM Nano-Plotter™ to functionalise individual micron scale pixels on various biosensor systems.

SESMOS is a life sciences company, based in Edinburgh, which develops a novel integrated screening and validation process for drug discovery. The core of the technology is based on miniaturised small molecule libraries and fully quantitative and quality controlled biophysical screening technologies from the University of Edinburgh, linked with an innovative label free biosensor chip technology from Siemens AG in Munich.

The SESMOS biosensor chip, known as a thin-film bulk acoustic resonator array, contains multiple individual sensors. Each of these sensors requires unique chemistry. The GeSiM Nano-Plotter is being used to specifically functionalise individual micron scale pixels on these biosensors.

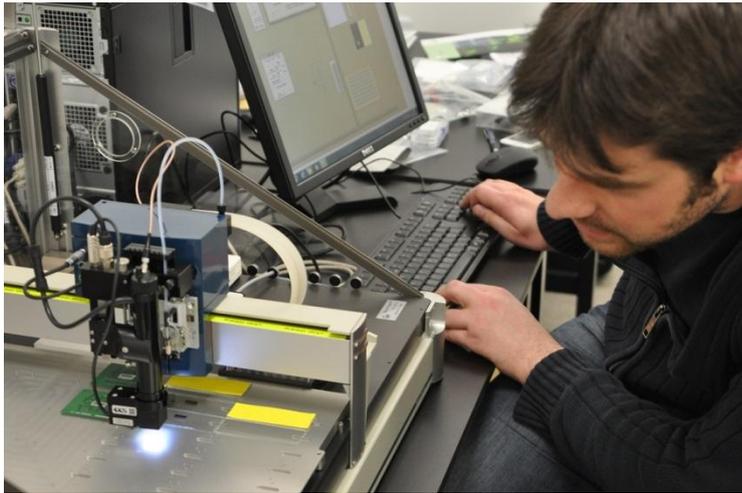
The number of possible devices available for the process was limited by the joint requirements for sub-nl volumes, non-contact dispensing and automatic optical alignment to the underlying Silicon structure. One of the main reasons for SESMOS choosing to purchase the GeSiM system was the optical target identification imaging system offered by GeSiM. This enables the biochip production by automatically detecting small patterns (e.g. alignment marks on the chip) and then defining a coordinate system allowing precise spotting on the required chip positions. This feature works well for the SESMOS application because of their need to spot very accurately and precisely on defined targets (spot positions) on the biosensor chips.

Talking about the advantages of the Nano-Plotter system, Analytik's product specialist, Hiran Vegad, says, "the GeSiM's non-contact nanolitre dispenser enables users to check the size/shape of dispensed spots and then change the dispensing parameters (voltage/frequency) of each individual piezo tip to provide sample consistency (viscosity, fluidity, electrical charge, etc.) to ultimately provide optimal high spotting performance. This is a very important feature and benefit when working with different types of fluids and samples. It is a strong differentiator when compared to competitive spotting instruments; they may be limited with respect to the type of samples that could be easily handled."

Cambridge-based Analytik are the exclusive UK and Ireland distributors of GeSiM's range of Nano-Plotter products. To learn more about the full range and their applications, visit: <http://www.analytik.co.uk/non-contact-nanolitre-dispensing.htm>.

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Attachment:



The GeSiM Nano-Plotter system in use at SESMOS

(photograph courtesy of Christophe Portal)

For a high resolution copy of the image, either right click to download or contact Jez Leckenby at Talking Science.

About...Analytik are leading suppliers of innovative analytical instrumentation to the UK and Ireland. Delivering cutting-edge solutions from global technology providers, coupled with responsive service and flexibility has enabled Analytik to build an impressive customer base since forming in 2003. Analytik's partners include Agilent Technologies, ASD Inc., DeltaNu, GL Optic, GeSiM, Ocean Optics, CAMO, CPS Instruments, Videometer and Schmidt + Haensch. Solutions include portable and handheld spectrometers (FTIR, NIR & Raman), spectral imaging systems, light measurement systems, non-contact nanolitre dispensing systems, nanoparticle size analysers, polarimeters and refractometers.

For further information: Please contact Analytik direct or their marketing agency:

Analytik Limited
2 Cygnus Business Park
Middle Watch, Swavesey
Cambridge CB24 4AA
T +44(0) 870 991 4044
F +44(0) 870 135 2488

www.analytik.co.uk
ksenia.semina@analytik.co.uk

Talking Science Limited
39 de Bohun Court
Saffron Walden
Essex CB10 2BA UK
T +44(0)1799 521881
M +44(0)7843 012997
www.talking-science.com
jezz@talking-science.com