

## PRODUCTS

## FUMIGANT PRODUCTS BY CYTEC

**Cytec Industries Inc.**, thanks to its innovative and unsurpassed technology, is the global leader in stored-product protection. As the company reports, fumigant products by Cytec provide consistent, safe and easily controlled phosphine concentrations maximising the protection of sealed storage facilities from harmful insects and pests. Cytec's family of cylinderised phosphine products – including the pre-blended ECO2FUME® fumigant gas and the VAPORPH3OS® phosphine fumigant for on-site blending with ambient air – offer critical performance and safety advantages over traditional fumigants for food, non-food and rodent control applications. The company explains that these products are non-flammable, they eliminate confined space entry, generate no waste and are able to quickly achieve precise control of phosphine concentrations within minutes or hours. The company also reports that these products are the only EPA approved phosphine product with a 24-hour fumigation period.

[www.cytec.com](http://www.cytec.com)

## X-Cube Flash™

A scientific paper published in *Chemistry: A European Journal*, by Oliver Kappe's group at the University of Graz explains how the X-Cube Flash™ by **ThalesNano** is able to match reaction time, conversion, and selectivity results with microwave in Mizoroki-Heck cross coupling. The X-Cube Flash™ is a flow reactor (with continuous high temperature and high pressure) that performs homogeneous organic synthesis. The company reports that X-Cube Flash™ is able to reach temperatures up to 350°C and pressures up to 200 bar. Richard Jones, Director of Product Management at ThalesNano, reported: "Our aim was to solve this major industry process issue and these results prove that we have begun to achieve our goal [...] Our users now have the possibility to scale up difficult reactions very quickly and effectively and synthesize hundreds of grams of material a day by implementing this new capability".

[www.thalesnano.com](http://www.thalesnano.com)



## AFFORDABLE CONTROLLED HEATING AND COOLING OF ROUND BOTTOM FLASKS...

**Radleys**, market leader for affordable personal chemistry tools, has launched Breeze, a low cost temperature control system designed to deliver rapid heating and cooling of reactions from -30°C to +165°C. Offering a safer, cleaner and more efficient alternative to using oil or water baths and heating mantles, the Breeze in conjunction with a Heat-On block combines to deliver a new level of temperature control of reactions carried out in single round bottom flasks from 10ml to 5 litres. The company explains that combining a Breeze with standard Heat-On block and suitable thermo regulator replaces the need for separate cooling reservoir, oil bath or heating mantle, creating a compact, powerful, integrated reaction system – saving space, time and money. Breeze is quick to respond to changes in thermo fluid temperature making it ideal for solution controlled experiments such as crystallisations that require a precise temperature profile. The integral stand and support rods facilitates simple, secure and safe setting up of Heat-On blocks and attachment of an overhead stirrer, creating a neat alternative to small reaction set-ups. The integral stand also acts as a drip tray for any condensation that may occur when the system is used at sub-ambient temperatures. Radleys explains that heat-On blocks are easy to set-up and offer safe temperature control of flask contents providing significant improvements in productivity. Manufactured from solid aluminium, Heat-On blocks provide even heat transfer to the entire flask, preventing hotspots. Heat-On blocks feature a unique deep well shape proven to avoid sticking and cracking of flasks and also maximising the heating surface area further contributing to faster heat-up. Heat-On blocks also feature a fluoropolymer coating providing excellent chemical resistance.

[www.radleys.com](http://www.radleys.com)

## MODULAR PARALLEL FIXED BED REACTOR ACCELERATES EXPERIMENTAL THROUGHPUT...

The Parallel Fixed Bed Reactor from **Symyx Technologies Europe SA** is a high-throughput system capable of screening and optimising catalysts and processes. The company reports that the Symyx Parallel Fixed Bed Reactor can be used in a variety of traditional applications within petrochemicals and refining. J.A. Montoya, Director of the Combinatorial Catalysis Laboratory at IMP, said: "We've had the privilege of using an early prototype of the Parallel Fixed Bed Reactor from Symyx Technologies at the Instituto Mexicano del Petroleo (IMP) Combinatorial Catalysis Laboratory [...] The Parallel Fixed Bed Reactor has been successfully applied for a series of R&D projects in petrochemical and refining areas. Thousands of experiments have been performed using this workflow and we have found the equipment to be robust, versatile and easy-to-use. Most importantly, the Parallel Fixed Bed Reactor has achieved a very high level of throughput for catalyst development and optimisation". The company underlines that the Symyx Parallel Fixed Bed Reactor provides data consistent with traditional laboratory-scale fixed-bed setups for gas, liquid and trickle-phase processes, and can be used effectively as a "pre-screen" for catalyst batches slated for use in pilot plants and manufacturing. Rather than automating and synchronising current lab equipment, the Parallel Fixed Bed Reactor is a step-change in R&D technology to provide business results in the mature fields of refining and petrochemicals as well as in emerging areas such as bio feedstock and bio fuel applications, where time-to-market for processes is critical.

[www.symyx.com](http://www.symyx.com)

## Lux™ Amylose-2 CHIRAL COLUMN

**Phenomenex Inc** introduces the Lux™ Amylose-2 chiral column, adding a unique new selectivity to its HPLC solutions for the identification and resolution of enantiomers.



The company explains that the new column chemistry incorporates an amylose backbone with a novel 5-chloro-2-methylphenylcarbamate derivative to provide chiral chromatographers with an additional selectivity option for these difficult separations. Jason Lam, brand manager for Phenomenex reports: "Amylose backbones have already demonstrated broad enantioselectivity in chiral analysis [...] The structure of Lux Amylose-2, combined with our unique halogenated derivative, resolves a wide range of enantiomers with unique chiral selectivity, giving chromatographers another tool for these difficult analyses".

[www.phenomenex.com](http://www.phenomenex.com)

## UNIQUIS'S FLOWSYN

**Uniqsis** was established as a joint venture between Asynt and Grant in January 2007 to develop a novel continuous flow reactor.

Uniqsis's FlowSyn is a fully integrated, easy

to use continuous flow reactor for seamless reaction optimisation and scale up from milligrams to hundreds of grams. The company reports that FlowSyn has been designed by a team of experienced flow chemists and engineers.

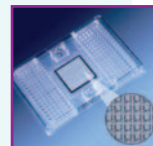
Uniqsis explains that this modular system can be easily upgraded as chemist's knowledge and needs grow. The unique control interface allows users to optimise reactions and scale them up with the touch of a button. Finally, a core system can be added to gain more flexibility.

[www.uniqsis.com](http://www.uniqsis.com)

## NEW 96.96 DYNAMIC ARRAY ACCELERATES SNP GENOTYPING...

The BioMark™ 96.96 Dynamic Array from **Fluidigm Europe**, is a new integrated fluidic circuit (IFC) capable of performing 9,216 simultaneous real-time PCR experiments running TaqMan® assays in nanolitre quantities. This new generation IFC enables life science researchers to achieve new levels of cost and logistical efficiency and flexibility, as well as comprehensive profiling from miniscule amounts of sample. The company explains that the 96.96 Dynamic Array, the heart of Fluidigm's BioMark™ Genetic Analysis System, provides the flexibility of a micro well plate and the density of a micro array in one easy-to-use consumable. IFCs meter, multiplex and combine nanolitre volumes of fluids, with precise control and reproducibility, many thousands of times – in parallel – on a single chip. Using Fluidigm's 96.96 Dynamic Array, researchers can set up 9,216 experiments with just 192 pipetting steps (as compared to more than 18,000 pipetting steps when conducting this magnitude of experiments on standard 384 micro well plates). "Our new BioMark 96.96 Dynamic Array is our most complex and most capable IFC ever – yet it is simple to use" said Gajus Worthington, Fluidigm's President and CEO, and continued: "The 96.96 doesn't require pre-spotting, so researchers have full flexibility to select from the lab's existing assays to quickly and readily modify experiments [...] The 96.96 Dynamic Array delivers greater than 99 percent call rates and can process more than 70,000 genotypes in a day – all for just over a nickle per data point (using TaqMan assays)".

[www.fluidigm.com](http://www.fluidigm.com)





### IDENTIFICATION OF BLOOD SAMPLES BENEFITS FROM NEW WHITE STORAGE TUBE RANGE...

**Micronic** has introduced a new range of white, flat bottom alphanumerical tubes (0.5ml, 0.75ml, 1.1ml and 1.4ml) for storage of blood samples or other highly coloured liquids. Traditionally alphanumerical tubes have been manufactured in clear polypropylene. However with highly coloured samples such as blood – manual reading of alphanumerical coding can be prone to error. Providing clearly visible black alphanumerical coding on a white background – Micronic's new white storage tube range offers improved readability thereby minimising the risk of incorrect sample identification with highly coloured samples. Micronic explains that manufactured from medical grade polypropylene in a fully automated class 7 clean room environment ensures Micronic white, flat bottom alphanumerical tubes exhibit absolute product consistency, near zero contaminants and compliance with US and European Pharmacopoeia tests. Micronic white, flat bottom alphanumerical tubes resist many organic solvents (DMSO, methanol, dichloromethane), may be autoclaved clean and can be repeatedly freeze-thawed without loss of product performance. Incorporating a smooth external flat surface – Micronic flat bottom sample tubes offer an easier to read and identify alternative to traditional round bottom tubes for automated scanning applications. A choice of optimised internal "v" or "u" bottom shape provides the lowest dead volume and enables maximum sample recovery.

[www.micronic.com](http://www.micronic.com)

### MECHANICALLY REFRIGERATED (-80°C) BENCHTOP BATH ELIMINATES NEED FOR COSTLY COOLANTS...

The FTS Multi-Cool from **SP Industries, Inc.** is a mechanically refrigerated bench top bath that eliminates the costs and potential hazards associated with coolants such as liquid nitrogen and dry ice. The company reports that compact and completely self-contained the Multi-Cool provides up to 8 litres of working fluid volume at temperatures between -80°C and +100°C. The self-contained low temperature bath uses PID control enabling precise temperature control to within +/- 0.1°C. Fitted with an integral magnetic stirrer with variable speed control the Multi-Cool offers excellent temperature uniformity and stability enabling superior results to be achieved in applications including charpy impact testing, controlled temperature reactions, pour-point determinations, tissue freezing and viscosity studies. An RS232 interface allows control and data collection of the Multi-Cool from a remote location if required. SP Industries is a leading manufacturer of laboratory to production scale freeze dryers / lyophilizers, centrifugal evaporators and concentrators, environmental control chambers, thermal control system, glassware washers and dryers. The company sells its products under well-known brands including Hotpack®, VirTis®, FTS™ and Genevac®. SP Industries has ISO 9001:2000 registered production facilities in the USA and Europe. The company continues to invest heavily in validation and commissioning competencies. With the ongoing requirements of 21 CFR Part 11 and the emergence of GAMP 4, SP Industries is uniquely positioned as a leader in compliance and GAMP 4 commitment.

The Multi-Cool is manufactured in an ISO 9001:2000 registered production facility.

[www.spindustries.com](http://www.spindustries.com)



### Accelerase® 1500

**Genencor** has announced the launch of Accelerase® 1500 (cellulosic ethanol enzyme product). Genencor introduced the product at the Renewable Fuels Association (RFA) National Ethanol Congress in San Antonio, TX. The company explains that Accelerase® 1500 is another significant step toward commercialization of bio fuels and other biochemicals made from cellulosic feed stocks (like agricultural residues or bio energy crops). Philippe Lavielle, Senior Vice President, Business Development, Genencor, reports: "We're on course to fast-track commercialization of cellulosic ethanol [...] Accelerase was a breakthrough in the industry. Now, by launching this improved enzyme product, we reach another important technical milestone toward commercial-scale production of transportation fuel and other bio chemicals from renewable, non-food feed stocks".

[www.genencor.com](http://www.genencor.com)



### Techne® THERMAL CYCLERS

**Bibby Scientific** offers a choice of Techne® thermal cyclers, from 25-well personal cyclers to 384-well high-throughput units, all of which are worldwide fully licensed for PCR use. The TC-3000, the TC-3000X, the TC-3000G, the user-friendly TC-412 and the TC-512 gradient provide all the functionalities required for many PCR applications. In addition (as the company explains) any 32 Techne thermal cyclers can be linked together and controlled by a single PC using Gensoft, Techne's free downloadable



software. Chris O'Connor, CEO, Bibby Scientific, commented: "As a world leader in the manufacture of temperature control equipment for over 50 years, Techne has a proven track record for robust, reliable thermal cyclers which provide reproducible DNA amplification. With a worldwide licence for use in PCR applications, Techne thermal cyclers are ideally suited for life science research and development in all application fields (except human in-vitro diagnostics), as well as the work in animal diagnostics, in food testing and in the pharmaceutical industry".

[www.bibby-scientific.com](http://www.bibby-scientific.com)

### EXTREME PPS

Donaldson Membranes are adding a new PPS (Polyphenylene Sulfide) substrate to their extensive product range. Tetratex EXTREME PPS Needlefelt filter media is the latest development in the ever-expanding portfolio of Tetratex EXTREME filter media range, and the company reports that it is ideal for applications such as chemicals, pharmaceuticals and minerals, including processes with high moisture content, therefore an ideal solution for drying applications. Gas conditions permitting, the PPS Needlefelt has a continuous maximum operating temperature of 180°C. The company explains that aim of all Donaldson Tetratex ePTFE membranes is to maximise filtration efficiency, airflow and operational durability. Tetratex EXTREME displays a significantly higher permeability to previous Tetratex membranes.

[www.donaldson.com](http://www.donaldson.com)

### ADMET PREDICTIVE MODELS

**Peakdale** offers a range of in vitro ADMET predictive models, delivering accurate and

reproducible data, maintaining a focus on efficient turnaround times to facilitate drug discovery programs.

The company adds that they could also offer the flexibility of bespoke assay design. The majority of Peakdale assays utilise sensitive "state of the art" triple quad LC-MS/MS ESI detection. Moreover the company gives support to clients in interpretation of results and providing feedback from their experts.

[www.peakdale.co.uk](http://www.peakdale.co.uk)

### AFFORDABLE SAMPLE EVAPORATOR FOR TUBES & VIALS...

The new 24-position MiniVap™ from **Porvair Sciences Ltd.** has been designed to enable researchers to efficiently remove solvent from tubes, vials and micro plate wells prior to analysis or reconstitution in buffer. Compact in design the affordable 24-position MiniVap is purpose designed for R&D laboratories tasked with handling smaller numbers of tubes and vials (up to 3ml volume) as well as 24-well micro plates. Simultaneously injecting heated nitrogen directly into each of the tubes, vials or wells of a micro plate enables the 24-position MiniVap™ to provide fast "dry down" times. The company believes that the 24-position MiniVap™ is simple to install, operate and maintain. Installation just requires connection to a gas supply and standard mains socket. Safety of operation is ensured as the CE marked compact unit fits into all fume cupboards.

[www.porvair.com](http://www.porvair.com)



Zschimmer & Schwarz was founded in Germany in 1894 and in Italy in 1969. Zschimmer & Schwarz in Italy occupies an area of about 85000 m<sup>2</sup>, of which more than 15000 m<sup>2</sup> are covered and employs

about 75 workers. It produces a wide range of surfactants. Manufacturing sites are in Germany (Lahnstein) and Italy. Advanced manufacturing technology combined with state of the art logistics, modern quality assurance systems and environmental protection procedures guarantee high service levels and all-round compliance with market and customer demands. The core of Zschimmer & Schwarz business is to help customers find new ideas for their products which they can apply via our special raw materials, mainly tailor made. All new developed molecules are not only surfactants but multifunctional performance enhancers.

**ZSCHIMMER & SCHWARZ**

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### BENCHTOP LABORATORY LYOPHILIZER OFFERS NEW LEVELS OF EFFICIENCY & FLEXIBILITY...

**SP Industries Inc.** has announced the new Virtis AdVantage Plus range of laboratory freeze dryers. Featuring the latest advances in bench top freeze drying, the AdVantage Plus is now available with up to three fluid-cooled shelves which maintain precise temperature control previously available only in pilot and production scale units. At only 26in (66cm) wide, the Advantage Plus requires a minimal amount of your valuable bench space yet enables product to be safely processed on over 3 ft<sup>2</sup> (2,900 cm<sup>2</sup>) of usable shelf area. The AdVantage Plus is a versatile system that can freeze dry bulk product or be configured for applications in stoppered vials. Side-mounted manifold valves provide the additional flexibility to freeze dry product in flasks. Three refrigeration choices are available for the large 6-litre capacity condenser, depending on the type of product and solvents being lyophilized. The company explains that the Advantage Plus is equipped with the powerful Wizard 2.0 controller, the same process control software included on larger VirTis freeze dryers. The controller provides scientists with the ability to develop a complete freeze drying recipe together with the flexibility to program and control individual pressure and temperature settings at each step of the process.

[www.spindustries.com](http://www.spindustries.com)

### REVELERIS™ FLASH CHROMATOGRAPHY SYSTEM



**Grace Davison Discovery Sciences** introduces the Reveleris™ Flash Chromatography System. The company explains that a simple and intuitive Interface guides users and provides status prompts and alerts together with online diagnostics and network data retrieval. The adjustable single-panel touch screen is simple to navigate and to control. Fraction tracking is managed by a real-time colour display, with peak-to-tube and tray correlation, making it easy to choose the right fractions for workup. Plug 'n'Play Interaction incorporates automated solid or liquid sample loading, auto-air purge of spent cartridges, and a self-cleaning injection valve. Grace Division Discovery reports that a Radio Frequency Identification (RFID) recognizes Reveleris™

cartridges and auto populates cartridge, flow rate, and run-time parameters. The new products is characterised by a compact ergonomic design and enhanced solvent flexibility delivers binary gradient functionality with four solvent selection, extended reservoir capacity, and chromophoric solvent capability.

[www.discoverysciences.com](http://www.discoverysciences.com)

## BUSINESS

**BOCHIMAZ** facility for developing and producing cytotoxic and cytostatic compounds is fully operational. It has been qualified by Satebridge International and audited by the Swiss Health Authorities Swissmedic.

[www.bochimaz.ch](http://www.bochimaz.ch)

### WUXI APPTec

**WuXi AppTec** a pharmaceutical, biotechnology and medical device research and development outsourcing company with operations in China and the U.S., has announced it had recently held a successful 2009 supplier conference in Shanghai. The half-day event, with a theme of "Stick together to create a brilliant 2009" assembled 110 representatives of suppliers who provide the company with top-quality instruments and other equipment, raw materials, reagents, consumables, and related products and services. The conference provided a venue to exchange new ideas and strategies to improve the efficiency of the supply chain and to positively impact future financial and operational performance. Xiaozhong Liu, Executive Vice President, reports: "2008 was a year of significant achievement for WuXi AppTec [...] Our governing principle is to develop new capabilities and add new capacity to provide a broad and integrated portfolio of laboratory and manufacturing services throughout the drug and medical device R&D process. In that regard, we completed the acquisition of AppTec Laboratory Services, Inc., which gave our company new testing capabilities to serve biotech and medical device customers. We have now completed the integration of AppTec and look forward to building on its solid base of business. We also made substantial progress in 2008 in constructing two new facilities-the GLP Drug Evaluation Centre in Suzhou, one of the largest in Asia, and an expansion of the manufacturing facility in the Jinshan area of Shanghai. Both facilities are now fully constructed and undergoing validation. Both provide opportunities for significant revenue growth in 2010 and beyond".

[www.wuxiapptec.com](http://www.wuxiapptec.com)

### ICIG HAS ACQUIRED MITENI

**International Chemical Investors Group (ICIG)** has announced that it has signed a definitive share purchase and sale agreement to acquire Miteni S.p.A. (Miteni), Italy, from Mitsubishi Corporation (Mitsubishi), Japan, and other shareholders. Under the terms of the agreement, ICIG will acquire 100 percent of the shares of Miteni. Miteni is a leading manufacturer and supplier of fluorine intermediates and specialty chemicals products with manufacturing facilities in Trissino (Vicenza), Italy, employing 165 personnel. Miteni, founded as a joint venture between the Japanese Mitsubishi and the Italian Eni S.p.A. has been operating as a major player in the fluorine chemicals markets for over 40 years, applying three different fluorination technologies at its plant in Trissino.

[www.ic-investors.com](http://www.ic-investors.com)

### BOC SCIENCES

**BOC Sciences** is a chemistry division of CD Inc that has established its headquarters in New York State, USA, and subsidiary offices, CD China, in Beijing, Shanghai, and Chengdu, China. The company offers different services:

- Custom synthesis of building blocks;
- Parallel synthesis of diverse and focused libraries (lead generation);
- Lead optimization and structure-activity relationship profiling;
- Synthetic feasibility study;
- Scale-up to kilograms.

[www.bocsci.com](http://www.bocsci.com)

### FRUTAROM & OXFORD

**Frutarom Industries Ltd.** has announced that it has signed an agreement to acquire the assets and business of the UK Company Oxford Chemicals Ltd. The acquisition will be financed through a long-term bank loan. Frutarom explains that it intends to utilise the many cross-selling opportunities which arise from the acquisition by selling its products to Oxford's customers around the world as well as selling Oxford's products to Frutarom's existing customers. Thanks to this agreement, Frutarom will benefit from the addition of excellent, high quality personnel, especially in the area of research and development, production, marketing and sales. Oxford's management will join the management of Frutarom's Fine Ingredients Division, contributing its experience and expertise. Oxford has a pipeline of innovative products with emphasis on natural flavours. Ori Yehudai, President and Chief Executive Officer of the Frutarom Group, reports: "The acquisition of Oxford continues the implementation of Frutarom's rapid growth strategy, and further supports Frutarom's position, which is already one of the ten largest companies in the world in the flavours' field. Frutarom will act immediately to integrate Oxford's activity with that of Frutarom's Fine Ingredients Division while realizing and utilizing the extensive commercial and operational synergy that exists between Frutarom's operations and Oxford's operations in order to take maximum advantage of the cross-selling opportunities and achieving maximum cost savings [...] thanks to Frutarom's proven experience in acquisitions and synergy realization, we are certain that this acquisition will also contribute to Frutarom's continued rapid and profitable growth and that it will create high value for our customers, our employees and our investors".

[www.frutarom.com](http://www.frutarom.com)

### STREAMLINING HIGH THROUGHPUT GENETIC ANALYSIS...

The BioMark™ Real-Time PCR System from **Fluidigm Europe** sets a new standard for high throughput genetic analysis. Designed for BioMark dynamic arrays and digital arrays, the innovative system performs productive on-board thermal cycling and fluorescence detection. A new video demonstrates how the BioMark system – together with controller for integrated fluidic circuit (IFC) chip loading – streamlines workflow for applications demanding sensitivity and dynamic range, at extremely high throughput. The Biomark system integrates thermal cycling and detection of PCR assays. It acquires data for each reaction chamber of the IFC chip simultaneously and can operate in either end-point or real-time detection mode.

The system is supplied with integral data collection and data analysis software for genotyping, digital and real-time PCR. Powerful real-time PCR analysis software displays the analysed data in multiple formats, including colour-coded maps of every reaction chamber on the IFC chip, amplification curves, and numeric tables. Intuitive software design enables even new users to quickly and easily manage, annotate and archive results. Because the BioMark system is designed for proprietary licensed 5' nuclease assays, laboratories may easily switch to dynamic arrays and digital arrays for PCR while continuing to use tried and trusted reagents and protocols. The entire system, from the footprint of the chips to the architecture of analysis and database software, adheres to industry standards, ensuring integration with established workflows.

[www.fluidigm.com/BioMarkvideo/index.html](http://www.fluidigm.com/BioMarkvideo/index.html)



**CPC SCIENTIFIC & SIGMA-ALDRICH**

CPC Scientific has signed a distribution agreement with **Sigma-aldrich**. CPC Scientific will offer Sigma-Aldrich's PEPscreen® custom peptide libraries to life science researchers and pharmaceutical companies in North America. Shawn Lee, President & CEO of CPC Scientific, explains: "In Sigma-Aldrich, we've found an experienced partner for the production of custom peptide libraries [...] The addition of PEPscreen custom peptide libraries to our portfolio benefits our customers by addressing the early research phase of peptide screening in the drug discovery workflow". Stacey Hoge, Senior Product Manager at Sigma-Aldrich, reports: "Our PEPscreen technology enables small scale, early stage drug candidate screenings [...] CPC's close association with the pharmaceutical and biotechnology industry provides great opportunities for Sigma-Aldrich to further engage drug discovery researchers". [www.sigma.com/pepscreen](http://www.sigma.com/pepscreen)

**ROYAL GMF-GOUDA**

Franssen, the Queen's Commissioner for the province of South-Holland (Zuid-Holland), The Netherlands, has surprised GMF-Gouda with this announcement during the reception at the factory site in Waddinxveen, on the occasion of the company's 100-year anniversary: "Her Majesty the Queen has decided to grant the right to use the designation "Royal" to the Goudsche Machinefabriek B.V. (GMF-Gouda) in Waddinxveen". For this reason the official name now is Royal GMF-Gouda. [www.gmf-gouda.com](http://www.gmf-gouda.com)

**FIELDS OF SYNTHESIS OPTIMIZATION AND PROCESS DEVELOPMENT**

**Saltigo GmbH** has demonstrated its wide-ranging expertise in the fields of synthesis optimization and process development. The global specialist for exclusive custom synthesis has succeeded in increasing capacity for an active ingredient precursor for a major pharmaceutical manufacturer without needing to halt or interrupt the production process in any way. The project involved raising the output of a plant in Leverkusen from 30 metric tons a year to an urgently required 50 tons – under ongoing production. Carsten Hesse, Head of Manufacturing Strategy in the Pharma business line, says: "It was absolutely essential to maintain reliable supplies of the product for our customer during the expansion phase. Because this project involved a complex, multi-step synthesis with very tight specifications and high quality requirements, it needed exceedingly accurate planning. The new connections and the re-routing of the apparatus were prepared so precisely that the output of the overall chain was not interrupted". [www.saltigo.com](http://www.saltigo.com)

**CLARIANT BUSINESS**

**Clariant** went through two distinct phases during 2008. In the first nine months, the company continued to benefit from a stable demand. In the fourth quarter, Clariant was significantly impacted by an unprecedented decline in global economic activity that led to a weaker demand from customer industries such as textile, leather, automotive and construction. On the other hand, agrochemicals, oil services, de-icing markets showed resilience against the downturn. By the end of 2008, Clariant had reduced roughly 1650 job positions. The

activities to reduce SG&A costs, as well as the production site closures that were announced previously – namely in Horsforth, Coventry, Selby and Naucalpan – proceeded as planned. Restructuring and impairment costs related to those activities amounted to CHF 141 million. Total restructuring and impairment costs were at CHF 321 million. The Group recorded a net loss of CHF 37 million. The balance sheet of the company remains solid. The liquidity of the Clariant Group is strong and the company is prepared for a potential further economic downturn.

[www.clariant.com](http://www.clariant.com)

**INNOVATIONS, STUDIES AND AWARDS****YOUR FAVORITE GENE POWERED BY INGENUITY**

**Sigma-Aldrich** and **Ingenuity Systems** have launched a Web-based biological search portal for exploring dynamic gene-based content: *Your Favorite Gene* powered by Ingenuity. *Your Favorite Gene* provides researchers with the capability to model and evaluate prospective experiments in the context of previously published scientific literature. The companies explain that researchers and students can search by gene, protein, function, disease, species, tissue or pathway to access a range of previous research findings and biological information including molecular functions, cell regulation, protein domains and metabolic and signalling pathways. From an initial search, simple navigation allows exploration of broader networks, providing insight into pathway interactions. The companies explain that researchers can also model prospective experiments in *Your Favorite Gene* powered by Ingenuity, accessing the findings of previous studies and quickly sourcing the availability of Sigma-Aldrich products relevant to their work. The library of Ingenuity offers information taken by specialized journals. *Your Favorite Gene* powered by Ingenuity presents select information from Ingenuity's library, with quick links to the larger repository for Ingenuity subscribers. David Smoller, President of Sigma-Aldrich's Research Biotech business unit explains: "Sigma-Aldrich is establishing itself as a destination for the life science community to understand biology and access the resources it needs to continue groundbreaking research [...] We intend *Your Favorite Gene* powered by Ingenuity to serve as an information hub for researchers and students exploring diseases, functions, and gene pathways, and to match our comprehensive collection of products, kits and reagents to relevant biological information". The Web portal is free for all researchers and students. <http://www.sigmaaldrich.com/life-science/your-favorite-gene-search.html>

**MARKET GREEN SOLVENT CERTIFICATION**

**Bioniqs**, in response to the confusion over what constitutes a "green" solvent, is introducing a market green solvent certification: **Econiqs** Adam Walker, CEO of Bioniqs, reports: "We are proud to take the lead in this area by introducing to market our benchmark **Econiqs** certification for green solvents [...] As a company, Bioniqs is committed to assisting the chemical community in developing increasingly sustainable, safe and ecologically efficient

working practices [...] whilst this isn't intended as a substitute for a fully detailed harmonized specification; it is designed to assure our customers of the basic environmental and toxicological performance of products carrying the **Econiqs** brand". To be qualified as a "green solvent" under the **Econiqs** certification a solvent must satisfy stringent environmentally relevant criteria including biodegradability within 14 days, low-toxicity to *Daphnia magna* and green algae, and sustainability. In the Bioniqs' 2009 Solvent Catalogue is reported the green solvent certification. [www.bioniqs.com](http://www.bioniqs.com)

**EtOH-REACH**

**The Ethanol REACH Association (EtOH-REACH)** has been set up by leading ethanol manufacturers in Europe in response to the legal obligation to register ethanol under the EU's REACH regulation. The Association explains that members participating in Joint Submission do not have to produce the dossiers individually. EtOH-REACH offers its Members the opportunity to jointly submit high-quality dossiers for registration. EtOH-REACH Ordinary Membership is required for participation in the Joint Submission for registration under REACH and the membership to the Ethanol REACH association is open to all manufacturers (both EU and non-EU), importers, non-EU formulators, ethanol trade associations and others that have an interest in the registration of ethanol. [www.etoh-reach.com](http://www.etoh-reach.com)

**NEW STARTER PACK ENABLES PRODUCTIVE SAMPLE STORAGE...**

**Micronic Europe** has introduced a new Deluxe Starter Pack for laboratories, such as exist in Bio banking or Bio repository organisations, looking to securely and traceably store thousands of samples per month. The Micronic Deluxe Starter Pack contains everything needed to start using 2D coded sample storage tubes enabling laboratory workers to ensure a secure sample logistics system and eliminate the costly possibility of false sample identities. Benefiting from a unique inside ring - Micronic storage tubes are designed for secure sealing and allowing customers to store the maximum sample volume. Used with the Electric Capper, supplied as part of the Deluxe Starter Pack, TPE caps are pushed into exactly the right depth of each Micronic tube to ensure a reliable, high integrity seal. The attractively priced Deluxe Starter Pack contains an easy-to-use Electric Capper, a 2D barcode rack scanner including operating software, two cases of racked 1.4ml 2D coded tubes and enough caps, some manual cap removers and a tube selector. The Starter Pack offers a substantial saving over buying the products individually. Coming from a world leader in traceable sample storage the quality of supplied goods is second to none and all components design optimised to provide top performance. With the ever-growing requirement for higher sample throughput in many laboratories the compact Electric Capper enables significant productivity gains to be made in the sealing of multiple sample storage tubes. The Electric Capper caps a full (or partially filled) 96-tube rack in less than 10 seconds. [www.micronic.com](http://www.micronic.com)



**RESEARCHERS USE 454 SEQUENCING SYSTEM FOR RAPID SEQUENCING OF AVIAN INFLUENZAS**

A team of researchers at the Institute of Diagnostic Virology, Friedrich-Loeffler-Institute Insel Riems, in Germany has developed a simple and rapid method for preparing Avian Influenza samples of infected individuals for sequencing with the Genome Sequencer FLX system. The highly pathogenic avian influenza A virus (HPAIV) of subtype H5N1 has caused global concern as a potential pandemic threat, killing millions of poultry and fatally crossing over to humans in a number of documented cases. The risk of sequence mutations demands fast and reliable methods for in-depth full-length sequence analysis to prevent spread of the disease. Höper et al. (1) designed a simple and sensitive method for the preparation of sequencing libraries from HPAIV H5N1 RNA samples for sequencing with the Genome Sequencer FLX instrument. The presented method seamlessly integrates high-throughput 454 sequencing into analysis without necessitating additional equipment or molecular biological techniques besides standard PCR and the Genome Sequencer FLX sample preparation and sequencing pipeline. "This method is simply not comparable with conventional sequencing and by far surpasses the single reads of "diagnostic"-relevant sites of the hemagglutinin gene of avian influenza as generated in former studies" explains Dirk Höper.

[www.roche.com](http://www.roche.com)

**SUSCHEM ENCOURAGES...**

**SusChem** is a European Technology Platform (founded in 2004 by Cefic and EuropaBio) that brings together stakeholders from many different backgrounds to boost sustainable chemistry. The publication of the report of the EU High Level Group on the Competitiveness of the Chemical Industry, underlines, in this period of economic crisis, the need for cooperation both within the industry, the European and national institutions and academia. The High Level Group report explains that now is more important than ever not just to survive the downturn, but to be ready to embrace the period of recovery for a competitive EU when it will come. The innovation seems to be the only way to get out of the crisis period. The High Level Group report recognises SusChem's major role in innovation and establishing best practice to find solutions to society's challenges, in the fields of energy efficiency, healthy environment, safety or water supply. SusChem has already adapted most of the High Level Group recommendations into its own work plan. With projects like the Smart Energy Home and F3 Factory (future, fast, flexible), SusChem and its projects have benefited from over 625 million euro of EU research funding, competing with other long-established research institutions. Gernot Klotz, Executive Director, Cefic Research & Innovation managing the platform said "The High Level Group's report puts the focus right where it needs to be – on innovation, which is turning research ideas into societal value through technologies and products [...]."

There is no time to lose. SusChem encourages all parties in the EU and Member States to work together, to put aside segmentation and institutional barriers to build a stronger and more sustainable future for Europe through innovation".

[www.suschem.org](http://www.suschem.org)

**STRINGENT U+ STANDARDS**

**Univar** has announced that its Brussels site has attained full compliance with its stringent U+ standards. U+ is a goal-based combined management system that requires each site to continually improve their Safety, Health, Environmental and Quality management (SHEQ) performance. Michel Vandermeiren, Univar Regional Director Benelux, reports: "Over the last two years, Univar Europe has invested time and commitment to optimise processes at the Brussels site. Our considerable investments in reaching the high U+ standards allow us to constantly improve, not only the efficiency of our operations but also their safety". U+ sets a new benchmark for safety standards in the chemical distribution sector, stipulating, for example,

**AUTOMATED REPACKAGING OF BULK SOLIDS INTO INDIVIDUAL VIALS...**

Using a Powdernium® Workstation, supplied by **Symyx Technologies Europe SA**, a finished goods group has established a versatile automated system for repackaging bulk reference standards accurately into smaller individual vials. Historically the Group's manual process for repackaging of bulk reference standards into individual vials created a production bottleneck and suffered from occasional cross contamination problems. Due to limited staffing resources and skills, the Group suffered resources overload and inaccurate dispensing during the manual dispensing process that contributed to additional workload and costs. In addition the potential for staff exposure to toxic and bioactive materials was high. As a leading provider of integrated workflow improvement solutions, Symyx was able to provide the customer with a CFR Part11 compliant workstation solution for accurate dispensing of a range of bulk reference powder standards into smaller individual vials. Using separate dispensing heads and capping the Powdernium workstation has eliminated cross contamination. Fitting into a glove box the Powdernium workstation has also drastically reduced the potential for staff exposure to toxic and bioactive materials. The new automated system has enabled the Finished Goods Group to achieve significant improvements in the throughput and accuracy of repackaging their bulk reference standards into individual vials in parallel with an overall reduction in operating costs. In future the Group is looking to also use its Powdernium workstation to repack reference standards into 96-well micro plates.

[www.symyx.com](http://www.symyx.com)

new bespoke filling equipment that removes the risks of static ignition when filling flammable liquids. Univar plans to ensure that all of its sites are compliant with U+ standards within three years, with 20 completed by end of this year already.

[www.univareurope.com](http://www.univareurope.com)

**THE ADHESIVES & SEALANTS WEBSITE**

Markus A. Meier, Head of Global Marketing of **Ciba's** Adhesives & Sealants business, explains: "The Adhesives & Sealants website

provides direct access to Ciba's entire offer for the industry, including product information, product recommendations and key technology information".

The company reports that the new website allows customers to transfer Ciba's recommendations direct to their applications. A Solution Finder 2009, a tool that enables "multiple-variable" product selection, depending on application, resin system, desired effect or product group was added.

[www.ciba.com/adhesivesandsealants](http://www.ciba.com/adhesivesandsealants)

**AUTOMATED PH CONTROLLED ADDITION MAXIMISES REACTION YIELD...**

A new Applications Bulletin from **Radleys** describes how a leading agrochemical research laboratory employed the Lara™ Controlled Laboratory Reactor (CLR) perform a difficult acid chloride coupling reaction using pH controlled addition. In the described reaction – acid chloride is automatically fed over a 3 hour period into the Lara CLR together with simultaneous sodium hydroxide addition to control the pH in the region of 6.5. The coupling of the acid chloride to the sodium salt of an oxy anion is a biphasic reaction in which the temperature has to be maintained at 10°C to maximise yield of the final ester product. Efficient stirring of the coupling reaction is essential as the product forms as a thick slurry. The experimental data demonstrates that the Lara CLR was well suited for automating chemistry of this complex nature where pH control, reaction viscosity and isothermal temperature control were all challenges to maximising yield. With minimal training the users were quickly able to set up the system, get the unit running and reproducibly perform the acid coupling reaction to generate high yields of the ester product. Lara is a flexible, modular CLR unit which enables rapid interchange of glass vessels from 100ml to 10 litres and the integration of third party devices such as circulators, pumps, balances, pH meters, syringe pumps etc making it the idea process development tool. Lara's intuitive, easy-to-use; drag-and-drop software allows full control and data logging of all devices and parameters.

[www.lara-clr.com](http://www.lara-clr.com)



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### PRE-REGISTRATION AT THE EUROPEAN CHEMICALS AGENCY

Solvay has announced that it has (in accordance with the European REACH Regulation on Chemicals – Registration, Evaluation, Authorization and Restriction of Chemicals) successfully completed the pre-registration at the European Chemicals Agency (ECHA). Pre-registration phase closed on December 1 st at 24:00 GMT. The



Solvay group explains that it has successfully pre-registered 666 dossiers representing a total of 400 substances.

In this way, Solvay has given notice that it will register the substances

before the end of the transitional period, which expires in 2010, 2013 or 2018 depending on the nature of the substances and the quantities involved. Christine Defourny, REACH project manager at Solvay, reports: "Given the huge amount of data exchange needed to prepare those files and the important traffic on the REACH-IT platform of the European Chemicals Agency, it was quite a challenge to submit all dossiers in due time.

We managed it efficiently thanks to the positive and helpful collaboration of everyone involved. The next steps will be the registration and authorization processes with the objective to ensure supply and compliance continuity of our products".

[www.solvay.com](http://www.solvay.com)

### ATryn

ATryn is an anticoagulant used for the prevention of blood clots in patients with a rare disease known as hereditary antithrombin (AT) deficiency.



ATryn is a therapeutic protein derived from the milk of goats that have been genetically engineered by introducing a segment of DNA into their genes with instructions for the goat to produce human antithrombin in its milk. The **U.S. Food and Drug Administration** has explained that it (for ATryn) would be its first approval for a biological product produced by genetically engineered (GE) animals. The company manufacturer this anticoagulant is GTC Biotherapeutics, Inc.

[www.fda.gov](http://www.fda.gov)

### SERVICE TESTED

**Chemie.DE Information Service**<sup>®</sup> had commissioned TÜV Saarland (German technical inspection association) to conduct a customer survey on the basis of which the company's customer satisfaction should be neutrally and independently assessed. Chemie.DE Information Service<sup>®</sup>'s internet portals and its one-on-one customer service were analysed.

For Chemie.DE Information Service<sup>®</sup>, were indicated criteria of particularly importance: design quality and clarity of the websites, functionality of the websites, availability and



### ROCHE NIMBLEGEN MICROARRAYS SELECTED AS TECHNOLOGY OF CHOICE

The NMD-Chip Consortium, an initiative of the Seventh Framework Programme for Research and Technological Development, recently selected Roche NimbleGen microarrays to accelerate and simplify genetic research of neuromuscular disorders (NMDs).

The NMD-Chip Consortium is comprised of 13 European entities from eight countries whose goal is to further our understanding of NMDs and to investigate the possibilities of developing a faster, more cost-effective investigation and diagnosis (72 hours to one week versus the current time of two weeks to one year) in the future.

Nicolas Levy, University of the Méditerranée and French National Institute for Health and Medical Research (INSERM), cites the importance of the Roche NimbleGen solution for NMD research: "As the European coordinator of the NMD-Chip project, I surely rely on Roche NimbleGen's very high density array technology, which is the most powerful tool to fulfil our project goals. Combined with our new bioinformatics tools, such technologies should completely renew our point of view on NMDs, by providing fast, reliable and accurate answers, at a much lower cost than ever before".

The Consortium will use custom designed NimbleGen Human CGH (Comparative Genomic Hybridization) 12x135K microarrays to enable them to locate gene- and exon-level rearrangements, deletions, or insertions associated with a specific NMD, namely Duchenne/Becker muscular dystrophies, limb girdle muscular dystrophies, congenital muscular dystrophies, and hereditary motor-sensory neuropathies or Charcot-Marie-Tooth neuropathies.

[www.roche.com](http://www.roche.com)

stability of the websites, consideration of customers' wishes and needs as well as professional competence of the staff. With respect to all five top criteria Chemie.DE Information Service<sup>®</sup> obtained an overall mark of 1.8 ("good").

For this reason the TÜV Saarland has awarded Chemie.DE Information Service GmbH with the "Service tested" distinction for customer satisfaction and service quality.

[www.chemie.de](http://www.chemie.de)

### HPAPI market

HPAPI, high potency active pharmaceutical ingredient, are drugs that concentrate a higher efficacy in a smaller amount of active pharmaceutical ingredient.

The HPAPI market segment is expected to grow at a higher rate compared with regular APIs. Most commonly, HPAPIs are produced for use in chemotherapeutic drug formulations.

### 454 LIFE SCIENCES AND MAX PLANCK INSTITUTE COMPLETE DRAFT 1X SEQUENCE OF NEANDERTHAL GENOME

In a press conference held on February 12 in Leipzig, Germany, and simultaneously at the AAAS Annual Meeting in Chicago, researchers from the Max Planck Institute for Evolutionary Anthropology and **454 Life Sciences** announced the completion of the 1X draft sequence of the Neanderthal genome.

The announcement draws closure to an ambitious sequencing project initiated by the team in July 2006 and highlights the tremendous technological advancements necessary to achieve this breakthrough in molecular anthropology. The team also announced the completion of the 18-fold draft sequence of the Bonobo genome, an endangered ape closely related to the Common Chimpanzee and distantly to humans. Detailed analysis of both the Neanderthal and Bonobo genomes will significantly advance our understanding of the human evolutionary history.

The Neanderthal project, spearheaded by Svante Pääbo, Director of the Institute's Department of Evolutionary Anthropology and Michael Egholm, Chief Technology Officer at 454 Life Sciences, developed from the results of a study published in Nature in 2006, detailing the ability of 454 Sequencing to determine large amounts of nuclear DNA sequences from late Pleistocene animals such as cave bears, mammoths, as well as the Neanderthal. The goal of the project is to identify areas in the genome where humans have undergone rapid evolution since the split from Neanderthals: the genetic changes that define us as human.

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As cancer diagnoses continue to occur at ever-earlier time points, so too has the need to shorten the time-to-market for such therapeutics. Because specific manufacturing and containment measures are necessary to produce these high potency APIs, only qualified facilities with knowledge intricate to handling these new chemical entities can manufacture them.

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### ACCURATE AND REPRODUCIBLE CONTROL OF POLYMERISATION EXPERIMENTS...

**Radleys** have published a new Technical Bulletin that demonstrates how the Lara™ Controlled Laboratory Reactor (CLR) is able to accurately and reproducibly control polymerisation experiments. The new application note describes a series of experiments in which the Lara CLR was used to automatically control the addition of monomer, initiator and reagent where both linear and variable rates of addition of feed materials were employed. The experiments demonstrate that the Lara CLR can be used to automatically ensure that the molecular weight and structure of the resulting polymer can be predicted, controlled and reproduced. The first experiment was run with a predetermined increasing monomer addition rate. The second experiment was run with a linear rate of monomer addition and a decreasing variable rate of initiator addition. In both experiments the monomer addition rate was gradually increased over several hours to ensure that the relative concentration of monomer stayed constant throughout the multiple feed step of the reaction. As the test polymerisation reaction was exothermic, the experiments included the use of feedback loops to ensure safe and controlled additions. The company reports that Lara is a flexible, modular CLR unit which enables rapid interchange of glass vessels from 100ml to 10 litres and the integration of third party devices such as circulators, pumps, balances, syringe pumps etc making it the ideal process development tool. Lara's intuitive, easy-to-use; drag-and-drop software allows full control and data logging of all devices and parameters.

[www.lara-clr.com](http://www.lara-clr.com)

### APPLICATION DATA COLLECTIONS

The fifth Edition of the **YMC's** Application Data Collections is available. It is made up by 150-page application, with its 1500 different compounds and 500 state of the art applications. The company reports that it is the perfect laboratory resource for application support and product knowledge in the pharmaceutical, chemical, biochemical, environmental, food and beverage industries. This collection encompasses the full spectrum of YMC's HPLC applications into a single volume spanning RP, IEX, SEC, HILIC and NP separations.

[www.ymc.de](http://www.ymc.de)

### PRISM AWARD FOR PHOTONICS INNOVATION

**JPK Instruments** leader in nanotechnology sector, has won in January 2009 the international Prism Award for Photonics Innovation in the USA. JPK's NanoTracker™ was voted the world's most innovative product in one of nine categories of the competition: *Life Sciences*. Frank Pelzer, CEO of JPK Instruments AG, reported: "We are pleased that our many years of research are not only appreciated by our customers but have now also found favour with a panel of international experts. Our special thanks go to our employees, without whom this technological achievement would not have been possible". The company explains that NanoTracker™ operates with laser tweezers and can trap, track and detect nanoparticles solely with light. Thanks to this technique researchers could, for example, examine at the nanoscale level how viruses and bacteria enter a cell.

[www.jpk.com](http://www.jpk.com)

### EVONIK INDUSTRIES

**Evonik Industries** has successfully registered synthetic amorphous silica with the European Chemicals Agency in Helsinki, in compliance with the new EU REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals) regulation. For this reason the company is authorized to produce, import, and market its own brands

of precipitated (ULTRASIL®, SIPERNAT®, etc.) and fumed (AEROSIL®) silicas. The substances were registered by order of the respective REACH consortia in the form of a joint submission.

[www.evonik.com](http://www.evonik.com)

## PEOPLE

### BASF CHANGES

Ehrenfried (Fred) Baumgartner has been appointed by The Board of Executive Directors of **BASF SE**, Ludwigshafen, as head of its new Paper Chemicals division with effect from April 1, 2009. Stefano Pigozzi, who is currently responsible for the department Glues & Impregnating Resins Europe, is to succeed Baumgartner as head of BASF's Inorganics division.

[www.basf.de](http://www.basf.de)

### PHIL BAYLEY AT SIEMENS WATER TECHNOLOGIES

**Siemens Water Technologies** has appointed Phil Bayley as new Technical Support Engineer, strengthening the level of training and support available for the Ionpure® product range. Bayley joins the team covering Europe, Middle East, Africa and India. The company believes that Phil's experience of commissioning large scale projects and training process engineers in the operation of water treatment plant is essential to the new role. Steve Willis adds: "Bringing Phil into the team enhances our customer support in the region tremendously. The Ionpure® range of CEDI modules and Tubular Micro-Filters (TMF) represents innovative and advanced technology for purification system builders and OEMs. It is therefore vital that we maintain the depth and breadth of technical assistance and training for integrators and system operators".

[www.ionpure.com](http://www.ionpure.com)

### JOHNSON MATTHEY PLC

**Johnson Matthey Plc** announces that David W Morgan, Executive Director, Group Corporate Development, has decided to stand down from the board of Johnson Matthey Plc at the Annual General Meeting of the company to be held on Tuesday 21st July 2009.

### CABB: HERZOG

**CABB** has appointed Dieter Herzog as CEO to succeed Ruud de Boer in this position. De Boer will move into the position as president of the CABB Holding GmbH. Theo Geeroms continues to be managing director and CFO of CABB Holding. Dieter Herzog has a broad expertise in the Fine

Chemicals Business and a long experience in different management positions.

[www.cabb-chemicals.com](http://www.cabb-chemicals.com)

### NIKEM RESEARCH: ALAN PORTER

NiKem Research Srl has appointed Roderick Alan Porter as Director Business Development. Rod Porter has 25 years experience working in big pharma (Searle – SK&F – SmithKline Beecham – GlaxoSmithKline) as a medicinal chemist. Welcoming Porter to the Company, Giuseppe Giardina, Managing Director & Chief Executive Officer of NiKem Research Srl, commented: "Rod brings together a very strong scientific background and impressive reputation in both medicinal chemistry and preclinical drug development. His expanded scientific knowledge allows NiKem to be well placed to fully exploit its "one stop shop" business model, based on excellence as a service provider in medicinal chemistry, biological profiling, in vitro ADME and in vivo PK".

[www.nikemresearch.com](http://www.nikemresearch.com)

### HANS-ULLRICH HOPPE AT SABINSA EUROPE

Sabinsa Europe GmbH has announced the appointment of Hans-Ullrich Hoppe as its new Resident Director. Hoppe has over 20 years of professional experience in the business fields of food and food additives, detergents and cosmetics, as well as in the sectors of pharmaceuticals and biotechnology. Hoppe reports: "I had been watching Sabinsa's continuous business success over the past years with strong interest. The company – with its convincing strategy – had established itself as a global player and manufacturer of high-quality botanical extracts. In particular, Sabinsa's strongly research-based approach and its the state-of-the-art manufacturing technologies motivated me to join". Muhammed Majeed, Chairman of the Sabinsa Group, comments: "We are very pleased to welcome Hans-Ullrich Hoppe as the new Resident Director for our European organization. Above all, his extensive R&D and management experience in our customers' business areas are highly valuable to us".

[www.sabinsaeurope.com](http://www.sabinsaeurope.com)

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### ERRATA CORRIGE

The Publisher Tekno Scienze Srl publicly states that Thalesnano's half page advertisement appearing on page 41 of the previous issue of *Chimica Oggi / Chemistry Today* (vol 27 n 1 - January/February 2009) was run by mistake and, of course, without the advertiser being aware of its publication. Therefore, Tekno Scienze Srl apologizes for any damage occurred to Thalesnano and its customers.