



**qPCR & NGS 2015**      **23<sup>rd</sup> – 27<sup>th</sup> March 2015**  
**Symposium & Exhibition & Workshops**

*Advanced Molecular Diagnostics  
for Biomarker Discovery*

@TUM, Freising-Weihenstephan, Germany



**Poster Presentations**

## **qPCR & NGS 2015**

**7th international qPCR & NGS Symposium  
Industrial Exhibition & Application Workshops**

**“Advanced Molecular Diagnostics  
for Biomarker Discovery”**

Scientific coordination: Michael W. Pfaffl  
Physiology, Freising – Weihenstephan  
TUM School of Life Sciences  
Weihenstephaner Berg 3  
Technical University Munich (TUM)  
85354 Freising  
Germany

[www.qPCR-NGS-2015.net](http://www.qPCR-NGS-2015.net)



## qPCR & NGS 2015 Event Agenda Overview

online agenda HTML => <http://agendaHTML.qPCR-NGS-2015.net>

online agenda PDF => <http://agendaPDF.qPCR-NGS-2015.net>

	Lecture Hall no. 14 (HS 14)	Lecture Hall no. 15 (HS 15)	Foyer & Seminar Rooms S1 & S2
<b>Sunday</b> 22 <sup>nd</sup> March			12:00 – 18:00 <b>Industrial Exhibition Built up</b>
			15:00 – 18:00 <b>Arrival &amp; Registration</b>
<b>Monday</b> 23 <sup>rd</sup> March	10:00 – 10:30 <b>Opening of the Symposium</b> Welcome by Michael W. Pfaffl		8:00 – 10:00 <b>Arrival &amp; Registration &amp; Poster Setup in Foyer lower level</b>
	10:30 – 12:30 <b>Adv. Molecular Diagnostics 1</b>		10:00 – 21:00 <b>Industrial Exhibition in Foyer</b>
	12:30 – 14:00 <b>Lunch</b>		
	14:00 – 18:00 <b>Adv. Molecular Diagnostics 2</b>	14:00 – 18:00 <b>Next Generation Sequencing 1</b>	<b>18:00 – 22:00 Evening Poster Session in Foyer lower level</b>
	<b>18:00 – 22:00 Reception at the Industrial Exhibition</b>		
<b>Tuesday</b> 24 <sup>th</sup> March	8:30 – 10:30 <b>Digital PCR</b>	8:30 – 10:30 <b>Next Generation Sequencing 2</b>	8:30 – 14:00 <b>Industrial Exhibition in Foyer</b>
	11:00 – 12:30 <b>Non-coding RNA 1</b>	11:00 – 12:30 <b>NGS Data Analysis</b>	<b>12:30 – 14:00 Lunch Poster Session in Foyer lower level</b>
	12:30 – 14:00 <b>Lunch</b>		
	13:00 – 14:00 <b>Life Technologies: Lunch-time seminars</b>	13:00 – 14:00 <b>Agilent Technologies: Lunch-time seminars</b>	14:00 – 18:00 <b>Industrial Exhibition in Foyer</b>
	14:00 – 18:30 <b>Biomarker Discovery &amp; Circulating Nucleic Acids</b>	14:00 – 18:30 <b>MicroGenomics &amp; Single-Cell Diagnostics</b>	
<b>19:30 – 24:00 Symposium Gala Dinner</b> Location: Bräustüberl Weihenstephan, Weihenstephaner Berg 10, 85354 Freising European – Bavarian - Asian Buffet, Music & Dancing & Cocktails			
<b>Wednesday</b> 25 <sup>th</sup> March	8:30 – 12:50 <b>Optimisation, MIQE &amp; QC in qPCR</b>	8:30 – 12:30 <b>qPCR BioStatistics &amp; Bioinformatics</b>	8:30 – 14:00 <b>Industrial Exhibition in Foyer</b>
	12:30 – 14:00 <b>Lunch</b>		<b>12:30 – 14:00 Lunch Poster Session in Foyer lower level</b>
		12:30 – 13:30 <b>BDQ Editors Meeting</b>	
		<b>13:45 – 14:00 BDQ Poster Awards in HS 15</b>	<b>14:00 – 17:00 Poster Take Down</b>
	14:00 – 16:30 <b>Non-coding RNA 2</b>	14:00 – 16:30 <b>Molecular Diagnostics Agi, Vet, Food &amp; Env</b>	
	16:30 – 17:00 <b>Closing of the Symposium</b> Michael W. Pfaffl		
<b>Thursday</b> 26 <sup>th</sup> March	<b>Seminar rooms S1 - S3 &amp; Computer seminar rooms PU26, PU34A &amp; PU36</b> 9:00 - 17:00		
<b>Friday</b> 27 <sup>th</sup> March	<b>qPCR, dPCR &amp; NGS Application Workshops:</b>		
	<ul style="list-style-type: none"> <li>• <b>Basic real-time qPCR Application Workshop</b> (2-days) hosted by TATAA Biocenter</li> <li>• <b>qPCR Data Analysis Workflow: from instrument data to interpretation</b> (2-days) hosted by TATAA</li> <li>• <b>digital PCR</b> (2-days) hosted by Bio-Rad</li> <li>• <b>NGS data analysis workshop</b> (2-days) hosted by Genomatix</li> <li>• <b>“Sample to Insight” Bioinformatic Systems Solutions</b> (2-days) hosted by Qiagen</li> </ul>		

## Poster Presentations

**All 76 posters will be displayed at all three poster sessions in parallel,** starting on Monday evening 6 pm until Wednesday early afternoon 2 pm:

**Poster Viewing Session 1: Monday Evening**  
*Time:* Monday, 23<sup>rd</sup> March 2015 6:00pm - 10:00pm  
*Location:* Foyer - lower level

**Poster Viewing Session 2: Tuesday Lunch Time**  
*Time:* Tuesday, 24<sup>th</sup> March 2015 12:30pm - 2:00pm  
*Location:* Foyer - lower level

**Poster Viewing Session 3: Wednesday Lunch Time**  
*Time:* Wednesday, 25<sup>th</sup> March 2015 12:30pm - 2:00pm  
*Location:* Foyer - lower level

Online poster presentations and poster numbering (PDF) => <http://posters.qPCR-NGS-2015.net>

## Poster Sessions and Poster Numbers

Next Generation Sequencing -- Poster 01 – 16 .....	4
Non-coding RNAs -- Poster 17 - 25 .....	5
Biomarker Discovery -- Poster 26 - 41 .....	6
Advanced Molecular Diagnostics -- Poster 42 - 49 .....	7
Molecular Diagnostics in Agriculture, Veterinary Medicine, Food & Environmental Science -- Poster 50 - 69 .....	8
Data Analysis -- Poster 70 - 73 .....	10
Poster "Late Arrivals" -- Poster 74 - 76 .....	10

## BDQ Young Scientist Poster Awards

The new open access journal Biomolecular Detection and Quantification (BDQ) is proud to sponsor three "BDQ Young Scientist Poster Awards" at the qPCR & NGS 2015 event.

The posters will be evaluated by an international jury on the basis of originality of the approach; quality of the work (e.g. appropriate methodology, interpretation of results, conclusiveness); quality of the presentation (e.g. clarity, response to questions); and self-reliance and independence (not one of co-authors, but the most active, if more than one author).

### **Eligible for the BDQ Young Scientist Poster Award:**

The contest is open to students and early career scientists.

### **Award Presentation**

BDQ Editor-in-Chief Stephen Bustin will award the three poster prizes on Wednesday afternoon directly after the lunch break March 25, 2015.

1. BDQ Young Scientist Poster Award - First Prize  
The winner is awarded 700 Euros and a free submission to BDQ
2. BDQ Young Scientist Poster Award – Second Prize  
The winner is awarded 200 Euros and a free submission to BDQ
3. BDQ Young Scientist Poster Award – Third Prize  
The winner is awarded 100 Euros and a free submission to BDQ

### **Procedure for Application**

Authors will be able to express their interest in participating in the BDQ Young Scientist Poster Award contest when submitting their abstract. Note that authors are only able to participate if their paper has been selected as a poster by the conference organizer. Please register and submit your abstract using the Internet based ConfTool registration and submission platform => [Registration.qPCR-NGS-2015.net](http://Registration.qPCR-NGS-2015.net)

**Poster Session -- Next Generation Sequencing -- Poster 01 – 16**

Poster 01

**Potential of Next Generation Sequencing Technology in Molecular Diagnostics – High-Throughput Analysis of the Human Mitochondrial Genome****Agnieszka Piotrowska<sup>1</sup>, Ewa Kosior-Jarecka<sup>2</sup>, Tomasz Żarnowski<sup>2</sup>, Rafał Płoski<sup>3</sup>, Katarzyna Tońska<sup>1</sup>, Ewa Bartnik<sup>1,4</sup>**<sup>1</sup>Institute of Genetics and Biotechnology, Faculty of Biology, University of Warsaw, Poland; <sup>2</sup>Department of Diagnostics and Microsurgery of Glaucoma, Medical University of Lublin, Poland; <sup>3</sup>Department of Medical Genetics, Medical University of Warsaw, Poland; <sup>4</sup>Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Poland; [apiotrowska@biol.uw.edu.pl](mailto:apiotrowska@biol.uw.edu.pl)

Poster 02

**RNA-sequencing as a diagnostic method for infectious diseases****Maria Lind Karlberg, Per Sikora, Erik Alm, Mattias Mild**Public Health Agency of Sweden, Sweden; [maria.lind.karlberg@folkhalsomyndigheten.se](mailto:maria.lind.karlberg@folkhalsomyndigheten.se)

Poster 03

**An Improved cDNA Library Generation Protocol for Transcriptome Analysis from a Single Cell****François-Xavier Sicot<sup>1</sup>, Rachel Fish<sup>2</sup>, Sally Zhang<sup>2</sup>, Magnolia Bostick<sup>2</sup>, Cynthia Chang<sup>2</sup>, Suvarna Gandlur<sup>2</sup>, Andrew Farmer<sup>2</sup>**<sup>1</sup>Takara Bio Europe, France; <sup>2</sup>Clontech Laboratories, Inc., Mountain View, CA 94043, USA; [francois-xavier.sicot@takara-clontech.eu](mailto:francois-xavier.sicot@takara-clontech.eu)

Poster 04

**Detection of Blood Storage on the Basis of miRNA Expression Pattern as a First Step to Detect Autologous Blood Doping****Anna Henke<sup>1</sup>, Michael W. Pfaffl<sup>1</sup>, Reinhard Henschler<sup>2</sup>, Christian Wichmann<sup>2</sup>, Irmgard Riedmaier<sup>1</sup>**<sup>1</sup>Technical University Munich, Physiology Weihenstephan, Freising, Germany; <sup>2</sup>Ludwig-Maximilian University Hospital, Department of Transfusion Medicine, Cell Therapeutics and Hemostaseology, Munich, Germany; [Anna.Henke@wzw.tum.de](mailto:Anna.Henke@wzw.tum.de)

Poster 05

**Streamlining NGS workflows by the application of the DNA Integrity Number (DIN) from the Genomic DNA ScreenTape Assay****Eva Schmidt<sup>1</sup>, Barry McHouli<sup>2</sup>, Isabell Pechtl<sup>1</sup>, Marcus Gassmann<sup>1</sup>**<sup>1</sup>Agilent Technologies, Germany; <sup>2</sup>Agilent Technologies, UK; [eva\\_schmidt@agilent.com](mailto:eva_schmidt@agilent.com)

Poster 06

**DNA Methylation Patterns in Pseudorabies Virus Identified by Short-Read and Single-Molecule Sequencing Methods.****Péter Oláh<sup>1</sup>, Dóra Tombác<sup>1</sup>, Zsolt Csabai<sup>1</sup>, Michael Snyder<sup>2</sup>, Zsolt Boldogkői<sup>1</sup>**<sup>1</sup>Dept. of Medical Biology, University of Szeged, Hungary; <sup>2</sup>Dept. of Genetics, Stanford University, USA; [olah.peter@med.u-szeged.hu](mailto:olah.peter@med.u-szeged.hu)

Poster 07

**The Mix<sup>2</sup> Model Leads To Significantly Improved Accuracy In Transcript Concentration Estimates And Detection Of Differential Expression In RNA-Seq Data****Andreas Tuerk, Gregor Wiktorin, Serhat Güler**Lexogen GmbH, Austria; [gregor.wiktorin@lexogen.com](mailto:gregor.wiktorin@lexogen.com)

Poster 08

**Insights by Next-Generation Small RNA Sequencing: Comparison of miRNAs and piRNAs in Bovine Blood and Plasma****Melanie Spornraft, Benedikt Kirchner, Michael W. Pfaffl, Irmgard Riedmaier**Chair of Physiology, Technical University Munich TUM, Freising-Weihenstephan, Germany; [melanie.spornraft@wzw.tum.de](mailto:melanie.spornraft@wzw.tum.de)

Poster 09

**Culture Independent Next Generation Sequencing Based Diagnosis of Blood Stream Infection.****Solomon Bupe Mwaigwisya<sup>1</sup>, Tim Leary<sup>2</sup>, Szymon Tomasz Callus<sup>3</sup>, Nick Loman<sup>3</sup>, Justin O'Grady<sup>1</sup>**<sup>1</sup>Norwich Medical School, University of East Anglia, Norwich, Norfolk, UK; <sup>2</sup>Critical Care Complex, Norfolk and Norwich University Hospital, Norwich, UK; <sup>3</sup>Institute for Microbiology and Infection, School of Biosciences, University of Birmingham, Birmingham, UK; [s.mwaigwisya@uea.ac.uk](mailto:s.mwaigwisya@uea.ac.uk)

Poster 10

**Evaluation of QuantSeq 3' mRNA Sequencing with Spike-in Transcripts****Pamela Moll, Musashi Tsujita, Michael Ante, Lukas Paul, Irmlind Gabler, Alexander Seitz, Torsten Reda**Lexogen GmbH, Austria; [lukas.paul@lexogen.com](mailto:lukas.paul@lexogen.com)

Poster 11

**Next Generation Sequencing And Genetic Variant Analysis In Otosclerosis****Simon Koren<sup>1</sup>, Nataša Toplak<sup>1</sup>, Katarina Trebušak Podkrajšek<sup>2</sup>, Gašper Klančar<sup>2</sup>, Saba Battelino<sup>3</sup>, Minka Kovač<sup>1</sup>**<sup>1</sup>Omega d.o.o., Ljubljana, Slovenia; <sup>2</sup>Centre for Medical Genetics, University Children's Hospital, University Medical Centre Ljubljana, Slovenia; <sup>3</sup>Department of Otorhinolaryngology and Cervicofacial Surgery, University Medical Centre Ljubljana, Slovenia; [simon.koren@omega.si](mailto:simon.koren@omega.si)

Poster 12

**Non-invasive Prenatal Testing (NIPT): Quantitation Of NGS Reads To Detect Fetal Trisomies****Thomas Harasim, Christian Heberle, Annett Wagner, Imma Rost, Hanns-Georg Klein**Zentrum für Humangenetik und Laboratoriumsdiagnostik, Dr. Klein, Dr. Rost und Kollegen, Germany; [thomas.harasim@medizinische-genetik.de](mailto:thomas.harasim@medizinische-genetik.de)

Poster 13

**Optimization of Library Preparation Protocol for Next Generation Sequencing of Plant RNA Virus****Irena Mavrič Pleško<sup>1</sup>, Simon Koren<sup>2</sup>, Mojca Viršček Marn<sup>1</sup>, Minka Kovač<sup>2</sup>, Nataša Toplak<sup>2</sup>**<sup>1</sup>Kmetijski inštitut Slovenije, Hacquetova ulica 17, SI-1000 Ljubljana, Slovenia; <sup>2</sup>Omega d.o.o., Dolinškova 8, SI-1000 Ljubljana, Slovenia; [natasa.toplak@omega.si](mailto:natasa.toplak@omega.si)

Poster 14

**Quality control for SureSelect Strand-Specific RNA library preparation protocol using the Agilent 2200 TapeStation system****Hans Brunnert<sup>1</sup>, Arunkumar Padmanaban<sup>2</sup>, Alex Siebold<sup>3</sup>, Eva Schmidt<sup>1</sup>**<sup>1</sup>Agilent Technologies, Germany; <sup>2</sup>Agilent Technologies, India; <sup>3</sup>Agilent Technologies, USA; [hans\\_brunnert@agilent.com](mailto:hans_brunnert@agilent.com)

Poster 15

**RNA Sequencing in degraded tumor RNA samples: Two natural enemies finally reconciled****Alexandra Dangel<sup>1</sup>, Claudia Löffler<sup>2</sup>, Stefan Kotschote<sup>1</sup>, Aljoscha Kleinhammer<sup>1</sup>, Jürgen Löffler<sup>2</sup>, Michael Bonin<sup>1</sup>**<sup>1</sup>IMG M Laboratories GmbH, Germany; <sup>2</sup>Molekularbiologie, Infektiologie und Immunogenetik, Universitätsklinikum Würzburg; [alexandra.dangel@imgm.com](mailto:alexandra.dangel@imgm.com)

Poster 16

**A method for assessing bacterial enrichment for the removal of human DNA for metagenomic analysis using qPCR and High throughput qPCR****Jernej Pavšič<sup>1,2</sup>, Denise M. O'Sullivan<sup>3</sup>, Sasithon Temisak<sup>3</sup>, Justin O'Grady<sup>4</sup>, Viktorija Tomič<sup>5</sup>, Nataša Fajfar<sup>5</sup>, Jana Žel<sup>1</sup>, Jim F. Huggett<sup>3</sup>**<sup>1</sup>National Institute of Biology, Ljubljana, Slovenia; <sup>2</sup>Jožef Stefan International Postgraduate School, Ljubljana, Slovenia; <sup>3</sup>LGC, Teddington, UK; <sup>4</sup>Norwich Medical School, University of East Anglia, Norwich, UK; <sup>5</sup>University Clinic of Respiratory and Allergic Diseases Golnik, Golnik, Slovenia; [jernejpavsic@nib.si](mailto:jernejpavsic@nib.si)**Poster Session -- Non-coding RNAs -- Poster 17 - 25**

Poster 17

**A complete workflow for high-throughput isolation of serum microRNAs and downstream analysis using qPCR: application to cancer biomarker discovery****Linda Wong<sup>1</sup>, Sara E. Brown<sup>1</sup>, Alex J. Rai<sup>2</sup>, Guarionex J. Decastro<sup>3</sup>, Luming Qu<sup>4</sup>, Marie Gonzalez<sup>4</sup>, Laura Chapman<sup>4</sup>, Alexander V. Vlassov<sup>4</sup>, Susan Magdaleno<sup>4</sup>, Emily Zeringer<sup>4</sup>**<sup>1</sup>Thermo Fisher Scientific, South San Francisco, CA, USA; <sup>2</sup>Columbia University, Department of Pathology and Cell Biology, New York, NY, USA; <sup>3</sup>Columbia University, Department of Urology, New York, NY, USA; <sup>4</sup>Thermo Fisher Scientific, Austin, TX, USA; [sara.brown@thermofisher.com](mailto:sara.brown@thermofisher.com)

Poster 18

**A High Performance qPCR Assay Platform for Circulating MicroRNA Biomarker Development****Lihan Zhou<sup>1</sup>, Ruiyang Zou<sup>1</sup>, Heng-Phon Too<sup>2,3</sup>**<sup>1</sup>MiRXES Pte Ltd, Singapore; <sup>2</sup>Bioprocessing Technology Institute, A\*STAR, Singapore; <sup>3</sup>National University of Singapore; [lihan\\_zhou@mirxes.com](mailto:lihan_zhou@mirxes.com)

Poster 19

**Serum MicroRNA Biomarker Panels for Non-invasive Detection of Gastric Cancer****Ruiyang Zou<sup>1</sup>, Lihan Zhou<sup>2</sup>, Jimmy So<sup>3,4</sup>, Wei-Peng Yong<sup>3,4</sup>, Feng Zhu<sup>3,4</sup>, Khay-Guan Yeoh<sup>3,4</sup>, Heng-Phon Too<sup>1,3</sup>**<sup>1</sup>Bioprocessing Technology Institute, Singapore; <sup>2</sup>MiRXES Pte Ltd; <sup>3</sup>National University of Singapore, Singapore; <sup>4</sup>National University Hospital; [zou\\_ruiyang@bti.a-star.edu.sg](mailto:zou_ruiyang@bti.a-star.edu.sg)

Poster 20

**Microparticles Associated MiRNA Release By M2 But Not By M1 Macrophages From Patients With Psychiatric Diseases.****Marion Schneider<sup>1</sup>, Markus Hippich<sup>2</sup>, Maximilian Strunz<sup>2</sup>, Robert P. Loewe<sup>2</sup>**<sup>1</sup>Universitätsklinikum Ulm, Germany; <sup>2</sup>GeneWake GmbH, Germany; [Maximilian.Strunz@genewake.com](mailto:Maximilian.Strunz@genewake.com)

Poster 21

**Development Of Non-invasive MicroRNAs Tests As Tools For Early Detection Of Colorectal Cancer****Chia-Chun Chen<sup>1</sup>, Pi-Yueh Chang<sup>2</sup>, Yu-Sun Chang<sup>1</sup>, Jinn-Shiun Chen<sup>2</sup>, Err-Cheng Chan<sup>1</sup>**<sup>1</sup>Chang Gung University, Taiwan, Republic of China; <sup>2</sup>Chang Gung Memorial Hospital, Taiwan, Republic of China; [chenchiachun@mail.cgu.edu.tw](mailto:chenchiachun@mail.cgu.edu.tw)

Poster 22

**microRNA assessment in cerebrospinal fluid for diagnosis of primary central nervous system lymphoma****Maria Barbara Cieślukowska<sup>1</sup>, Michalina Zajdel<sup>1</sup>, Grzegorz Rymkiewicz<sup>2</sup>, Magdalena Chechlińska<sup>1</sup>, Katarzyna Błachnio<sup>2</sup>, Zbigniew Bystydzieński<sup>2</sup>, Krzysztof Goryca<sup>3</sup>, Agnieszka Druzd-Sitek<sup>4</sup>, Maria Sromek<sup>1</sup>, Jan Walewski<sup>4</sup>, Jan Konrad Siwicki<sup>1</sup>**<sup>1</sup>Department of Immunology, Cancer Centre and Institute of Oncology in Warsaw, Poland; <sup>2</sup>Department of Pathology and Laboratory Diagnostics, Cancer Centre and Institute of Oncology in Warsaw, Poland; <sup>3</sup>Department of Genetics, Cancer Centre and Institute of Oncology in Warsaw, Poland; <sup>4</sup>Department of Lymphoid Malignancies, Cancer Centre and Institute of Oncology in Warsaw, Poland; [mcieslikowska@coi.waw.pl](mailto:mcieslikowska@coi.waw.pl)

Poster 23

**How to be one-step ahead by streamlining an existing microRNA cDNA synthesis kit****Markus Hippich, Robert P. Loewe**Genewake GmbH, Germany; [markus.hippich@genewake.com](mailto:markus.hippich@genewake.com)

Poster 24

**Long Non-Coding RNAs Implicated in the Pathogenesis of Parkinson Disorder****Eszter Szlavicz<sup>1</sup>, Nikolett Nagy<sup>1,2</sup>, Nóra Török<sup>3</sup>, Péter Klivényi<sup>3</sup>, Márta Széll<sup>1,2</sup>**<sup>1</sup>University of Szeged, Faculty of Medicine, Department of Dermatology and Allergology, Szeged, Hungary; <sup>2</sup>University of Szeged, Faculty of Medicine, Medical Genetics Institute, Szeged, Hungary; <sup>3</sup>University of Szeged, Faculty of Medicine, Department of Neurology, Szeged, Hungary; [szlavicz.eszter@gmail.com](mailto:szlavicz.eszter@gmail.com)

Poster 25

**Exosomal microRNAs in urine - promising biomarkers for disease****Ditte Andreassen<sup>1</sup>, Anni R. Thomsen<sup>1</sup>, Jacob Fredsøe<sup>3</sup>, Thorarinn Blondal<sup>1</sup>, Jörg Krummheuer<sup>1</sup>, Maria W. Theilum<sup>1</sup>, Niels Tolstrup<sup>1</sup>, Michael Borre<sup>2</sup>, Christa Haldrup<sup>3</sup>, Torben F. Ørntoft<sup>3</sup>, Karina D. Sørensen<sup>3</sup>, Peter Mouritzen<sup>1</sup>**<sup>1</sup>Exiqon, Denmark; <sup>2</sup>Dept of Urology, Aarhus University Hospital, Denmark; <sup>3</sup>Dept. of Molecular Medicine, Aarhus University Hospital, Denmark; [dia@exiqon.com](mailto:dia@exiqon.com)**Poster Session -- Biomarker Discovery -- Poster 26 - 41**

Poster 26

**Applicability of Blood RNA Quality Biomarkers for EDTA Tubes in High-Throughput qPCR Gene Expression Experiments Using BioMark System from Fluidigm****Vlasta Korenková<sup>1</sup>, Lucie Langerová<sup>1</sup>, Jana Slyšková<sup>2</sup>, David Švec<sup>1</sup>, Pavel Vodička<sup>2</sup>, Mikael Kubista<sup>1,3</sup>, Hui Zhang<sup>4</sup>**<sup>1</sup>Department of Gene Expression, Institute of Biotechnology AS CR, Prague, Czech Republic; <sup>2</sup>Department of the Molecular Biology of Cancer, Institute of Experimental Medicine AS CR, Prague, Czech Republic; <sup>3</sup>TATAA Biocenter, Göteborg, Sweden; <sup>4</sup>DiaGenic ASA, Oslo, Norway; [vlasta.korenkova@ibt.cas.cz](mailto:vlasta.korenkova@ibt.cas.cz)

Poster 27

**A Reliable Method to Quantify Transcript Isoform Expression of Apoptotic Genes Involved in the Response to Tyrosine Kinase Inhibitor (TKI) Therapy in Chronic Myeloid Leukemia (CML)****Justine Marum<sup>1</sup>, Bradley Chereda<sup>1</sup>, Wendy Parker<sup>1</sup>, Leanne Purins<sup>1</sup>, Doris Stangl<sup>1</sup>, David Yeung<sup>1,2</sup>, Timothy Hughes<sup>2</sup>, Susan Branford<sup>1</sup>**<sup>1</sup>Genetics and Molecular Pathology, SA Pathology, Adelaide, South Australia, Australia; <sup>2</sup>Department of Haematology, SA Pathology (RAH Campus), Adelaide, South Australia, Australia; [justine.marum@health.sa.gov.au](mailto:justine.marum@health.sa.gov.au)

Poster 28

**Biomarkers for Metastatic Colorectal Cancer****Christopher J. Hayes<sup>1,2</sup>, Patrick A. Kiely<sup>1,2,3</sup>, Tara M. Dalton<sup>1</sup>**<sup>1</sup>Stokes Institute, University of Limerick, Ireland.; <sup>2</sup>Department of Life Sciences, University of Limerick, Ireland.; <sup>3</sup>Materials and Surface Science Institute, University of Limerick, Ireland.; [christopher.hayes@ul.ie](mailto:christopher.hayes@ul.ie)

Poster 29

**Characterization of Antigenic Profiles of Primary Non-small Cell Lung Cancer Tumors and Lung Cancer Cell Lines for Vaccine Development****Ondřej Palata<sup>1</sup>, Nad'a Hradilová<sup>1,2</sup>, Lenka Sadílková<sup>1</sup>, Dagmar Myšíková<sup>3</sup>, Robert Lischke<sup>3</sup>, Irena Vančurová<sup>1</sup>, Luděk Sojka<sup>1,2</sup>, Irena Adkins<sup>1,2</sup>**<sup>1</sup>Sotio a.s., Prague, Czech Republic; <sup>2</sup>Department of Immunology, 2nd Faculty of Medicine, Charles University and University Hospital Motol, Prague, Czech Republic; <sup>3</sup>Thoracic and Lung Transplantation Division, 3rd Department of Surgery, 1st Faculty of Medicine, Charles University in Prague and University Hospital Motol; [palata@sotio.com](mailto:palata@sotio.com)

Poster 30

**Development of an in-house method to quantify BCR-ABL1 p210 transcripts aligned to the International Scale standards with high sensibility****Marcos Tadeu dos Santos, Ana Maria Fraga, Melina Gonçalves dos Santos Barth, Danyella Silva Pereira, Miguel Mitne-Neto, Vanessa Dionísio Cantagalli, Maria Carolina Tostes Pintão, Maria de Lourdes Lopes Ferrari Chauffaille**Grupo Fleury, Brazil; [marcos.santos@grupofleury.com.br](mailto:marcos.santos@grupofleury.com.br)

Poster 31

**Diabetes Causal Molecular and Cellular Mechanisms underlying the *COBLL1* locus****Viktoria Magdalena Glunk**TU München, Germany; [viktoria.glunk@tum.de](mailto:viktoria.glunk@tum.de)

Poster 32

**Evaluation of Bias Associated with High Multiplex Target-Specific Pre-amplification****Haya Sarras<sup>2</sup>, Steven T. Okino<sup>1</sup>, Michelle Kong<sup>1</sup>, Yan Wang<sup>1</sup>**<sup>1</sup>Gene Expression Division, Life Science Group, Bio-Rad Laboratories, Hercules, CA, USA.; <sup>2</sup>Gene Expression Division, Life Science Group, Bio-Rad Laboratories, Mississauga, ON, Canada.; [haya\\_sarras@biorad.com](mailto:haya_sarras@biorad.com)

Poster 33

**Gene Expression Profiling of Circulating Tumor Cells and Peripheral Blood Mononuclear Cells of Breast Cancer Patients****Michal Hensler<sup>1</sup>, Irena Vančurová<sup>1,6</sup>, Ondřej Palata<sup>1</sup>, Pavel Strnad<sup>2</sup>, Petra Tesařová<sup>3</sup>, Etienne Becht<sup>4</sup>, David Švec<sup>5</sup>, Mikael Kubista<sup>5</sup>, Radek Špišák<sup>1,5</sup>, Luděk Sojka<sup>1,6</sup>**

<sup>1</sup>SOTIO a.s., Czech Republic; <sup>2</sup>Department of Gynecology and Obstetrics, 2nd Faculty of Medicine, Charles University and University Hospital Motol, Prague, Czech Republic; <sup>3</sup>Oncology Clinic, 1st Faculty of Medicine, Charles University, Prague, Czech Republic; <sup>4</sup>Laboratory of Cancer, Immune Control and Escape, UMRS 1138 INSERM, Cordeliers Research Center, Paris, France; <sup>5</sup>TATAA Biocenter, Göteborg, Sweden; <sup>6</sup>Department of Immunology, Charles University, Second Faculty of Medicine and University Hospital Motol, Prague, Czech Republic; [hensler@sotio.com](mailto:hensler@sotio.com)

Poster 34

### Systems Biology Using Single Cells

**Dave Ruff**

Fluidigm, United States of America; [dave.ruff@fluidigm.com](mailto:dave.ruff@fluidigm.com)

Poster 35

### A Micro-fabricated Single Cell Isolation System To Process 1000s Of Individual Cells For Genomics Applications

**Shanavaz Nasarabadi<sup>1</sup>, Ishminder Mann<sup>1</sup>, Harris Shapiro<sup>1</sup>, Phil Lin<sup>1</sup>, Ricelle Acob<sup>1</sup>, Michael Slater<sup>1</sup>, Syed Husain<sup>1</sup>, Alain Mir<sup>1</sup>, Thomas Schaal<sup>1</sup>, Magali Soumillion<sup>2</sup>, Tarjei Mikkelsen<sup>2</sup>, Maithreya Srinivasan<sup>1</sup>**

<sup>1</sup>WaferGen Biosystems, 7400 Paseo Padre Parkway, Fremont, CA (USA); <sup>2</sup>Broad Technology Labs, Broad Institute, Cambridge, MA (USA); [Shanavaz.Nasarabadi@wafergen.com](mailto:Shanavaz.Nasarabadi@wafergen.com)

Poster 36

### Upstream Open Reading Frames Regulate Cannabinoid Receptor 1 Expression Under Baseline Conditions And During Cellular Stress

**Marlene Eggert<sup>1</sup>, Martina Pfob<sup>1</sup>, Gustav Schelling<sup>2</sup>, Ortrud Steinlein<sup>1</sup>**

<sup>1</sup>Institute of Human Genetics, University Hospital, Ludwig-Maximilians-University Munich, Germany; <sup>2</sup>Department of Anesthesiology, University Hospital, Ludwig-Maximilians-University, Munich, Germany; [Marlene.Eggert@med.uni-muenchen.de](mailto:Marlene.Eggert@med.uni-muenchen.de)

Poster 37

### Virus Serotyping by TaqMan and SYTO 9 in Single Reaction

**Martina Matonohova<sup>1</sup>, Karel Bilek<sup>1</sup>, Hana Andelova<sup>1</sup>, Daniel Ruzek<sup>2,3,4</sup>, Martin Palus<sup>2,3</sup>**

<sup>1</sup>National Institute for NBC Protection, Czech Republic; <sup>2</sup>Laboratory of Arbovirology, Institute of Parasitology, Biology Centre, Academy of Sciences of the Czech Republic; <sup>3</sup>Faculty of Sciences, University of South Bohemia, Czech Republic; <sup>4</sup>Veterinary Research Institute, Czech Republic; [matonohova@sujchbo.cz](mailto:matonohova@sujchbo.cz)

Poster 38

### ZFP64 – a predictive RNA biomarker for cancer treatment with the HDAC-inhibitor Resminostat

**Cornelia Hock<sup>1</sup>, Stefan Kotschote<sup>1</sup>, Thomas Herz<sup>2</sup>**

<sup>1</sup>IMGM Laboratories GmbH, Germany; <sup>2</sup>SC AG, Germany; [stefan.kotschote@imgm.com](mailto:stefan.kotschote@imgm.com)

Poster 39

### Sensitive, specific and highly-multiplexed qPCR using MNazymes and PASS primers

**Lit Yeen Tan, Elisa Mokany, Samantha M Walker, Tina Lonergan, Simon M Erskine, Alison V Todd**

SpeedX Pty Ltd, Australia; [alison@speedx.com.au](mailto:alison@speedx.com.au)

Poster 41

### Rapid High Sensitivity Monitoring of Tumor Genetic Changes for Targeted Therapy of Cancer

**Michael Joseph Powell, Aiguo Zhang, Madhuri Ganta, Elena Peletskaya**

DiaCarta, Inc., United States of America; [mpowell@apollolongevity.com](mailto:mpowell@apollolongevity.com)

## [Poster Session -- Advanced Molecular Diagnostics -- Poster 42 - 49](#)

Poster 42

### Detection of DNA mutations with an electro-switchable PNA chip

**Zsuzsanna Mayer<sup>1</sup>, Wolfgang Kaiser<sup>2</sup>, Kristin Wörner<sup>2</sup>, Ralf Strasser<sup>2</sup>, Ulrich Rant<sup>2</sup>, Jörg Kleiber<sup>1</sup>**

<sup>1</sup>Weihenstephan-Triesdorf University of Applied Sciences, Department of Biotechnology and Bioinformatics, Freising; <sup>2</sup>Dynamic Biosensors GmbH, Planegg, Germany; [zsuzsanna.mayer@hswt.de](mailto:zsuzsanna.mayer@hswt.de)

Poster 43

### Smartphone sized real-time PCR device

**Christian Ahrberg, Pavel Neuzil, Andreas Manz**

KIST Europe, Germany; [c.ahrberg@kist-europe.de](mailto:c.ahrberg@kist-europe.de)

Poster 44

### Open qPCR: The Design of an Open Source, \$2000 Real-Time PCR Instrument

**Josh Perfetto**

Chai, United States of America; [josh@chaibio.com](mailto:josh@chaibio.com)

Poster 45

### TaqMan® Rare Mutation Assays for QuantStudio® 3D Digital PCR System

**Marion Laig, Brian Ho, Nivedita Majumdar, Le Lac, Frances Chan, Ramesh Sathiyaa, Iain Russel, Paco Cifuentes, Ted Straub, Kamini Varma, David Keys**

Thermo Fisher Scientific, United States of America; [marion.laig@thermofisher.com](mailto:marion.laig@thermofisher.com)

Poster 46

**Methods of Comparing Digital PCR Experiments****Michał Jan Burdukiewicz<sup>1</sup>, Piotr Sobczyk<sup>2</sup>, Paweł Mackiewicz<sup>1</sup>, Stefan Rödiger<sup>3</sup>**<sup>1</sup>University of Wrocław, Poland; <sup>2</sup>Wrocław University of Technology, Wrocław, Poland; <sup>3</sup>BTU Cottbus - Senftenberg, Senftenberg, Germany; [michalburdukiewicz@gmail.com](mailto:michalburdukiewicz@gmail.com)

Poster 47

**High Resolution Melting Typing Approach For CTX-M  $\beta$ -Lactamases Differentiation****Maksim Bratchikov, Silvija Kiverytė**Department of Physiology, Biochemistry, Microbiology and Laboratory medicine, Faculty of Medicine, Vilnius university, Lithuania; [maksim@pcr.lt](mailto:maksim@pcr.lt)

Poster 48

**Engineered DNA Polymerases Tailor-Made For Your Needs****Ramon Kranaster**myPOLS Biotec UG (haftungsbeschränkt), Universitätsstr. 10, 78457 Konstanz, Germany, T +49(0)7531 884654, www.mypols.com; [ramon.kranaster@mypols.de](mailto:ramon.kranaster@mypols.de)

Poster 49

**Biodistribution of Advanced Therapy Medicinal Products (ATMPs): Workflow of a typical study at a professional pre-clinical service provider****Amelie Schreieck, Cornelia Hock, Aljoscha Kleinhammer**IMGGM Laboratories GmbH, Germany; [amelie.schreieck@imgm.com](mailto:amelie.schreieck@imgm.com)**Poster Session -- Molecular Diagnostics in Agriculture, Veterinary Medicine, Food & Environmental Science -- Poster 50 - 69**

Poster 50

**Concentration of Pathogenic Viruses from Seawater Samples using Monolithic Chromatographic Supports and Downstream Detection using Quantitative PCR****Mukundh Narayanan Balasubramanian<sup>1,2</sup>, Jose Goncalves<sup>3</sup>, Nejc Rački<sup>2</sup>, Katarina Kovač<sup>1</sup>, Matjaz Hren<sup>1</sup>, Valentina Turk<sup>3</sup>, Maja Ravnikar<sup>2</sup>, Ion Gutiérrez-Aguirre<sup>2</sup>**<sup>1</sup>BioSistemika Ltd., Pot za Brdom 102, SI-1000 Ljubljana, Slovenia; <sup>2</sup>Department of Biotechnology and Systems Biology, National Institute of Biology, Vecna pot 111, SI-1000 Ljubljana, Slovenia; <sup>3</sup>Marine Biology Station, National Institute of Biology, SI-6330 Piran, Slovenia; [bmukundh@gmail.com](mailto:bmukundh@gmail.com)

Poster 51

**Evaluation And Quantification Of The Lactogenesis Of Primary Bovine Epithelial Cells *In Vitro* - 3D Cell Culture Model Of The Bovine Mammary Gland.****Maria Hillreiner, Christiane Schmautz, Milica Maier, Michael W. Pfaffl, Heike Kliem**Physiology Weihenstephan, Technische Universität München, Weihenstephaner Berg 3, D-85354 Freising; [Maria.Hillreiner@wzw.tum.de](mailto:Maria.Hillreiner@wzw.tum.de)

Poster 52

**The Fungal Nutritional ENCODE Project: Exploring Fungal Carbon Perception in the Model Filamentous Fungus *Neurospora crassa* by a Large Scale RNA-Seq Approach****Nils Thieme<sup>1</sup>, Vincent Wu<sup>2</sup>, N. Louise Glass<sup>2</sup>, J. Philipp Benz<sup>1</sup>**<sup>1</sup>Technische Universität München, Munich, Bavaria Germany; <sup>2</sup>University of California, Berkeley, California USA; [thieme@hfm.tum.de](mailto:thieme@hfm.tum.de)

Poster 53

**What's The Difference Between A White And A Red Strawberry? A Comparative Approach To Gain Insight Into Expression Of Anthocyanin Biosynthesis Pathway Genes****Katja Schulenburg, Katrin Franz-Oberdorf, Wilfried Schwab**TUM, Weihenstephan, Germany; [katja.schulenburg@tum.de](mailto:katja.schulenburg@tum.de)

Poster 54

**High-throughput Gene Expression Analysis In Pigs As Model For Respiratory Infections****Kerstin Skovgaard<sup>1</sup>, Louise Brogaard<sup>2</sup>, Kirstine Klitgaard Schou<sup>3</sup>, Ralf Dürrwald<sup>4</sup>, Michael Schengel<sup>5</sup>, Peter M. H. Heegaard<sup>6</sup>**<sup>1</sup>Technical University of Denmark, Denmark; <sup>2</sup>Technical University of Denmark, Denmark; <sup>3</sup>Technical University of Denmark, Denmark; <sup>4</sup>IDT, Germany; <sup>5</sup>IDT, Germany; <sup>6</sup>Technical University of Denmark, Denmark; [kesk@vet.dtu.dk](mailto:kesk@vet.dtu.dk)

Poster 55

**Pooling of fecal and environmental samples for the detection of *Salmonella* spp. by qPCR****Emir Hodzic**University of California, Davis, United States of America; [ehodzic@ucdavis.edu](mailto:ehodzic@ucdavis.edu)

Poster 56

**Strategies To Monitor Extraintestinal Pathogenic *E.coli* ExPEC****Bernhard Setzer**BS-Diagnostik, Germany; [info@bs-diagnostik.de](mailto:info@bs-diagnostik.de)



Poster 57

**Small RNA sequencing in milk of cycling and pregnant cows****Corina I. Schanzenbach<sup>1</sup>, Susanne E. Ulbrich<sup>2</sup>, Benedikt Kirchner<sup>1</sup>, Michael W. Pfaffl<sup>1</sup>**<sup>1</sup>Lehrstuhl für Physiologie, TU München, Germany; <sup>2</sup>ETH Zürich, Animal Physiology, Institute of Agricultural Sciences, Switzerland; [corina.schanzenbach@wzw.tum.de](mailto:corina.schanzenbach@wzw.tum.de)

Poster 58

**In-house Validation of DNA Extraction Method from Flour Samples and Rye, Maize and Oat Flour contents in Wheat Flour Based Composite Breads****Remziye Yılmaz<sup>1,2</sup>, Hamit Köksel<sup>2</sup>, Ceren Bayraç<sup>3</sup>, Arzu Başman<sup>2</sup>, İskın Engin<sup>1</sup>**<sup>1</sup>Middle East Technical University, Central Laboratory, Molecular Biology and Biotechnology R&D Center, Genome Analysis Laboratory, 06800 Ankara, Turkey; <sup>2</sup>Hacettepe University, Food Engineering Department, 06800, Beytepe, Ankara, Turkey; <sup>3</sup>Karamanoğlu Mehmetbey University, Department of Bioengineering, 70100, Karaman, Turkey; [iskinkose@gmail.com](mailto:iskinkose@gmail.com)

Poster 59

**Development of a Molecular Method for the Detection of Hepatitis E Virus (HEV) in Pancreatin.****Simone Peletto<sup>1</sup>, Paola Modesto<sup>1</sup>, Maria Grazia Maniaci<sup>1</sup>, Umberto Cavallazzi<sup>2</sup>, Pier Luigi Acutis<sup>1</sup>**<sup>1</sup>Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta, Italy; <sup>2</sup>Terhormon S.R.L., Italy; [simone.peletto@izsto.it](mailto:simone.peletto@izsto.it)

Poster 60

**Effects of prostaglandin F2alpha on some local luteotropic and angiogenic factors in corpus luteum during induced luteolysis in cow****Bajram Berisha<sup>1,2</sup>, Dieter Schams<sup>2</sup>, Michael W. Pfaffl<sup>2</sup>**<sup>1</sup>University of Prishtina, Kosovo; <sup>2</sup>Technical University of Munich, Germany; [berisha@wzw.tum.de](mailto:berisha@wzw.tum.de)

Poster 61

**Digital PCR For Quantification Of *Listeria monocytogenes*****Miha Kovac<sup>1,2</sup>, Simon Koren<sup>1</sup>, Minka Kovac<sup>1</sup>, Barbara Jeršek<sup>3</sup>, Nataša Toplak<sup>1</sup>**<sup>1</sup>Omega d.o.o., Dolinškova 8, SI-1000 Ljubljana, Slovenia; <sup>2</sup>University of Ljubljana, Veterinary Faculty, Gerbičeva 60, SI-1000 Ljubljana, Slovenia; <sup>3</sup>University of Ljubljana, Biotechnical faculty, Department of Food Technology, Jamnikarjeva 101, 1000 Ljubljana, Slovenia; [devadekrmak@gmail.com](mailto:devadekrmak@gmail.com)

Poster 62

**Postprandial recovery of colostral exosomes and RNA in calf plasma****Dominik Buschmann<sup>1</sup>, Benedikt Kirchner<sup>1</sup>, Vijay Paul<sup>2</sup>, Michael W. Pfaffl<sup>1</sup>**<sup>1</sup>TUM School of Life Sciences Weihenstephan, Technical University Munich, Freising, Germany; <sup>2</sup>ICAR-National Research Centre on Yak, Dirang, Arunachal Pradesh, India; [dominik.buschmann@wzw.tum.de](mailto:dominik.buschmann@wzw.tum.de)

Poster 63

**Estimation of Measurement Uncertainty in Quantitative Analysis of Roundup Ready® Soybean and Lectin Gene using Plasmid Reference Material****Tugce Ceren Tugrul<sup>1</sup>, Remziye Yılmaz<sup>2</sup>, Hüseyin Avni Öktem<sup>1,3</sup>, Meral Yücel<sup>1,2,3</sup>**<sup>1</sup>Middle East Technical University, Biotechnology Department; <sup>2</sup>Middle East Technical University, Central Laboratory, Molecular Biology and Biotechnology R&D Center; <sup>3</sup>Middle East Technical University, Biology Department; [e165007@metu.edu.tr](mailto:e165007@metu.edu.tr)

Poster 64

**Incidence And Detection Of Beak And Feather Disease In Psittacine Birds In The UAE****Fatima Hakimuddin<sup>1</sup>, Fatima Abidi<sup>1</sup>, Osman Jafer<sup>1</sup>, Ulrich Wernery<sup>2</sup>, Kamal Khazanehdari<sup>1</sup>**<sup>1</sup>Molecular Biology and Genetics Laboratory, United Arab Emirates; <sup>2</sup>Central Veterinary Research Laboratory, United Arab Emirates; [fhakim@mbg.ae](mailto:fhakim@mbg.ae)

Poster 65

**Influence Of Milk Proccession On miRNA Stability And Its Relevance In The Immune System****Benedikt Kirchner<sup>1</sup>, Markus Ege<sup>2</sup>, Michael Pfaffl<sup>1</sup>**<sup>1</sup>Animal Science, Physiology, Technical University Munich, Freising, Germany; <sup>2</sup>Dr von Hauner Children's Hospital, Ludwig Maximilian University, Munich, Germany; [benedikt.kirchner@wzw.tum.de](mailto:benedikt.kirchner@wzw.tum.de)

Poster 66

**New analytical approaches in GMO analysis for the detection of 'stacked events'****Patrick Guertler, Ottmar Goerlich, Ulrich Busch**Bavarian Health and Food Safety Authority; [patrick.guertler@lgl.bayern.de](mailto:patrick.guertler@lgl.bayern.de)

Poster 67

**Real-time PCR Based Concept for Monitoring of Genetically Modified Oilseed Rape (*Brassica napus L.*) along Transport Routes****Melanie Stoeckert, Melanie Pavlovic, Patrick Guertler, Ulrich Busch, Ottmar Goerlich**Bayerisches Landesamt für Gesundheit und Lebensmittelsicherheit, Germany; [patrick.guertler@lgl.bayern.de](mailto:patrick.guertler@lgl.bayern.de)

Poster 68

**Molecular identification and Physiological characterization by Flow Cytometry of bacteria and yeasts producing polygalacturonase (PG) isolated from fermented cassava microbiota****Sonagnon H.S. Kouhounde<sup>1,2,3</sup>, Alfred S. Traore<sup>2</sup>, Fatiou Toukourou<sup>3</sup>, Annick Lejeune<sup>1</sup>, Huu Thanh Nguyen<sup>1</sup>, Philippe Thonart<sup>1</sup>, Frank Delvigne<sup>1</sup>**<sup>1</sup>Université de Liège, Belgium; <sup>2</sup>Université de Ouagadougou, Burkina-Faso; <sup>3</sup>Université d'Abomey-Calavi, Bénin; [kouhoundes@hotmail.fr](mailto:kouhoundes@hotmail.fr)

Poster 69

**Sequence Differences In Corynebacterium Pseudotuberculosis Isolated From Caprine And Camel Species****Fatima Hakimuddin<sup>1</sup>, Motasem Ismail<sup>1</sup>, Fatima Abidi<sup>1</sup>, Ulrich Wernery<sup>2</sup>, Kamal Khazanehdari<sup>1</sup>**<sup>1</sup>Molecular Biology and Genetics Laboratory, United Arab Emirates; <sup>2</sup>Central Veterinary Research Laboratory, United Arab Emirates; [fhakim@mbg.ae](mailto:fhakim@mbg.ae)**Poster Session -- Data Analysis -- Poster 70 - 73**

Poster 70

**The dpcR Package – a Framework for Analysis and Visualization of Digital PCR Experiments****Michał Burdukiewicz<sup>1</sup>, Jim Huggett<sup>2</sup>, Simon Cowen<sup>2</sup>, Bart K.M. Jacobs<sup>3</sup>, Lieven Clement<sup>3</sup>, Peter Schierack<sup>4</sup>, Stefan Rödiger<sup>4</sup>**<sup>1</sup>University of Wrocław, Wrocław, Poland; <sup>2</sup>Molecular and Cell Biology Team, LGC, Teddington, United Kingdom; <sup>3</sup>Department of Applied Mathematics, Computer Science and Statistics, Ghent University, Belgium; <sup>4</sup>BTU Cottbus - Senftenberg, Germany; [Stefan.Roediger@b-tu.de](mailto:Stefan.Roediger@b-tu.de)

Poster 71

**The reliability of two different calibration of 2<sup>-DDCt</sup> method for analysing relative gene expression in real time pcr****Devy Firena Garna<sup>1,2</sup>, Mandeep Ghuman<sup>1</sup>, Francis Hughes<sup>1</sup>**<sup>1</sup>King's College London, United Kingdom; <sup>2</sup>Padjadjaran University, Indonesia; [devy.garna@kcl.ac.uk](mailto:devy.garna@kcl.ac.uk)

Poster 72

**RKward: a Software Framework for Analysis of qPCR, dPCR, qIA and Melting Curve Data****Stefan Rödiger<sup>1</sup>, Michał Burdukiewicz<sup>2</sup>, Andrej-Nikolai Spiess<sup>3</sup>, Konstantin Blagodatskikh<sup>4</sup>, Peter Schierack<sup>1</sup>**<sup>1</sup>BTU Cottbus - Senftenberg, Senftenberg, Germany; <sup>2</sup>University of Wrocław, Wrocław, Poland; <sup>3</sup>University Medical Center Hamburg-Eppendorf, Hamburg, Germany; <sup>4</sup>All-Russia Research Institute of Agricultural Biotechnology, Moscow, Russia; [Stefan.Roediger@b-tu.de](mailto:Stefan.Roediger@b-tu.de)

Poster 73

**Advantages in Real-time PCR Quantification Using SOD and Cy0 Methods****Michele Guescini, Davide Sisti, Marco B.L. Rocchi, Vilberto Stocchi**University of Urbino, Italy; [michele.guescini@uniurb.it](mailto:michele.guescini@uniurb.it)**Poster Session -- "Late Arrivals" -- Poster 74 - 76**

Poster 74

**Automated Normalization and Pooling of DNA with the Labcyte Echo® Liquid Handler to enable Next Generation Sequencing****John Lesnick<sup>1</sup>, Carl Jarman<sup>1</sup>, Carl Peters<sup>2</sup>**<sup>1</sup>Labcyte Inc., Sunnyvale, CA, USA <sup>2</sup>BMG LABTECH, Cary, NC, USA [Carl.Jarman@labcyte.com](mailto:Carl.Jarman@labcyte.com)

Poster 75

**High Throughput Miniaturized Quantitative PCR using the Echo® 525 Liquid Handler****Carl Jarman, Brent Eaton, Sammy Datwani**Labcyte Inc., Sunnyvale, CA, USA [Carl.Jarman@labcyte.com](mailto:Carl.Jarman@labcyte.com)

Poster 76

**An RT-qPCR Automated Platform: Validation Methods for the Access™ Workstation, the Echo® Liquid Handler, and RealTime Ready™ Reagents****Carl Jarman, Randy Dyer, Sammy Datwani**Labcyte Inc., Sunnyvale, CA, USA [Carl.Jarman@labcyte.com](mailto:Carl.Jarman@labcyte.com)

Poster 77

**Applications of Next Generation Sequencing in Plant Breeding.****Regina Dick, Axel Strittmatter, Georg Gradl**Eurofins Genomics, Anzinger Str. 7a, 85560 Ebersberg, Germany [georggradl@eurofins.com](mailto:georggradl@eurofins.com)

## Sponsors, Exhibitors & Media Partners

Lead Sponsor:



Gold Sponsors:



Silver Sponsors:



Further Companies in the Industrial Exhibition:



Media partners:

A new Open Access journal on molecular methodology applications  
Biomolecular Detection and Quantification



SUBMIT NOW

