

## **#GQ2019 Poster Sessions**

### **qPCR dPCR & NGS 2019**

**9th international Gene Quantification Event**

**Scientific Symposium**

**Industrial Exhibition & Application Workshops**

***“Next Generation Biomarkers --  
Liquid Biopsy, Multi-Omics, MicroGenomics”***

Scientific coordination: Michael W. Pfaffl  
Animal Physiology & Immunology, Freising – Weihenstephan  
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[www.qPCR-dPCR-NGS-2019.net](http://www.qPCR-dPCR-NGS-2019.net)

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## GQ2019 – Poster Sessions & Poster Numbers

### Monday Main Poster Session

Monday, 18/Mar/2019 6:00 - 10:00 pm

Location: **Lower Level**

ZHG Lower Level -- Main Lecture Hall Building

### Tuesday Lunch Poster Session

Tuesday, 19/Mar/2019 12:00 - 2:00 pm

### Wednesday Lunch Poster Session

Wednesday, 20/Mar/2019 12:00 - 2:00 pm

Poster setup is Monday mornig.

All 84 posters will be displayed in parallel at all three poster sessions.

All posters can be viewed/studied from Monday evening until Wednesday afternoon.

Posters should be taken down during the afternoon on Wednesday

Online Agenda HTML => <http://agenda.qPCR-dPCR-NGS-2019.net>

Event Agenda PDF => <http://agendaPDF.qPCR-dPCR-NGS-2019.net>

Online Poster Sessions HTML => <http://postersession.qPCR-dPCR-NGS-2019.net>

Poster Session PDF => <http://postersPDF.qPCR-dPCR-NGS-2019.net>

### Poster Sessions:

- **P001 – P004 Poster Session – digital PCR**
- **P005 – P010 Poster Session – Single Cell Diagnostics**
- **P011 – P018 Poster Session – Next Generation Sequencing**
- **P019 – P029 Poster Session – Liquid Biopsy**
- **P030 – P038 Poster Session – Extracellular Vesicles**
- **P039 – P069 Poster Session – Gene Quantification Methods**
- **P070 – P084 Poster Session – Advanced Molecular Diagnostics in Life Science**

### Poster Session – digital PCR

#### P001 – P004

##### P001

#### Digital PCR To Quantify Evolution Of *Mycobacterium Tuberculosis* SNP Proportion During *In Vitro* Competitive Assay

Charlotte Genestet<sup>1</sup>, Cécile Jacot-des-Combes<sup>2</sup>, Elisabeth Hodille<sup>1,3</sup>, Fabiola Bastian<sup>2</sup>, Oana Dumitrescu<sup>1,3</sup>

<sup>1</sup>Centre International de Recherche en Infectiologie, INSERM U1111, Université de Lyon, Lyon, France; <sup>2</sup>Plateforme DTAMB, CNRS, Université Lyon 1, Villeurbanne, France; <sup>3</sup>Hospices Civils de Lyon, Institut des Agents Infectieux, Laboratoire de bactériologie, Lyon, France; [cecile.jacot-des-combes@univ-lyon1.fr](mailto:cecile.jacot-des-combes@univ-lyon1.fr)

##### P002

#### Development of a Strain-specific Droplet Digital PCR (ddPCR) for Detection and Quantification of a Probiotic Strain *Bifidobacterium animalis* (BAN) in Feed.

Sergi Raurich, Michaela Mohnl, Viviana Klose, Gerd Schatzmayr, Silvia Fibi-Smetana

BIOMIN Research Center, Technopark 1A, 3430 Tulln, Austria; [sergi.raurich@biomin.net](mailto:sergi.raurich@biomin.net)

**P003****Design of a Digital PCR Assay for the Simultaneous Quantification of 14 Genetically Modified Soybean Lines in a Single Reaction**

**Katharina Lührig**, Maximilian Neugebauer, Florian Priller, Heike Ziebarth, Hans-Henno Dörries, Cordt Grönewald, Kornelia Berghof-Jäger

BIOTECON Diagnostics GmbH, Germany; [kluehrig@bc-diagnostics.com](mailto:kluehrig@bc-diagnostics.com)

**P004****A Rapid, Simple, High-throughput Compatible Approach to Generating CRISPR/Cas9 Knock-out Cell Lines**

**Meiye Wu**, Steven Okino, Gerald Ui

Reagent R&D, Life Sciences Group, Bio-Rad Laboratories,; [mei\\_wu@bio-rad.com](mailto:mei_wu@bio-rad.com)

**Poster Session – Single Cell Diagnostics****P005 – P010****P005****The Good, the Bad and the Ugly: Selective single cell isolation**

**Sandra Lubos**<sup>1</sup>, **Nils Körber**<sup>1</sup>, **Heide Marie Resch**<sup>1</sup>, **Iris Augustin**<sup>2</sup>, **Stefan Niehren**<sup>1</sup>

<sup>1</sup>MMI - Microscopic Single Cell Isolation, Germany; <sup>2</sup>University of Applied Sciences, Weihenstephan-Triesdorf, Germany; [resch@molecular-machines.com](mailto:resch@molecular-machines.com)

**P006****A SMARTer Solution To Stranded Single-Cell RNA-Seq**

**Matthieu Pesant**<sup>1</sup>, **Suvarna Gandlur**<sup>2</sup>, **Nathalie Bolduc**<sup>2</sup>, **Simon Lee**<sup>2</sup>, **Christopher Hardy**<sup>2</sup>, **Ankita Das**<sup>2</sup>, **Magnolia Bostick**<sup>2</sup>, **Andrew Farmer**<sup>2</sup>

<sup>1</sup>Takara Bio Europe, Saint-Germain-en-Laye, France; <sup>2</sup>Takara Bio USA, Inc., Mountain View, CA 94043, USA; [matthieu\\_pesant@takarabio.com](mailto:matthieu_pesant@takarabio.com)

**P007****TATAA Alu Repeat qPCR Assays – a Tool for Contamination Control and Quality Assessment in Single Cell and Cell-Free DNA Analysis**

**Alexandra Bergman**, **Andrei Herdean**, **Robert Sjöback**, **Mikael Kubista**

TATAA Biocenter, Sweden; [alexandra.bergman@tataa.com](mailto:alexandra.bergman@tataa.com)

**P008****SureCell® ATAC-Seq Library Prep Kit: A New Solution for Single-Cell ATAC-Seq using Bio-Rad's Droplet Digital Technology**

**Ronald Lebofsky**, **Carolyn Reifsnnyder**

Bio-Rad Laboratories, Digital Biology Center, Pleasanton CA; [ronald\\_lebofsky@bio-rad.com](mailto:ronald_lebofsky@bio-rad.com)

**P009****Single-cell studies: Focus on reverse transcription**

**Daniel Žucha**<sup>1</sup>, **Peter Androvič**<sup>1</sup>, **Mikael Kubista**<sup>2</sup>, **Valihrach Lukáš**<sup>1</sup>

<sup>1</sup>Laboratory of Gene Expression, Institute of Biotechnology CAS, Czech Republic; <sup>2</sup>TATAA Biocenter, Sweden; [zuchad@ibt.cas.cz](mailto:zuchad@ibt.cas.cz)

**P010****High-throughput, full-length, single-cell RNA sequencing**

**François-Xavier Sicot**<sup>1</sup>, **Kazuo Tori**<sup>2</sup>, **Magnolia Bostick**<sup>2</sup>, **Shally Wang**<sup>2</sup>, **Andrew Farmer**<sup>2</sup>

<sup>1</sup>Takara Bio Europe, Saint-Germain-en-Laye, France; <sup>2</sup>Takara Bio USA, Inc., Mountain View, CA 94043, USA; [francois-xavier\\_sicot@takarabio.com](mailto:francois-xavier_sicot@takarabio.com)

**Poster Session – Next Generation Sequencing****P011 – P018****P011****Clinical Application of Next Generation Sequencing Technology Methods**

**Elham El Darazi**

USEK, Lebanon (Lebanese Republic); [ilhamdarazi@hotmail.com](mailto:ilhamdarazi@hotmail.com)

P012

**Full-length 16S rRNA Sequencing Combined with the Illumina Barcode Structure Allows a Deeper Insight into Strains Present in Stool Samples****Isabel Abellan-Schneyder**, Ilias Lagkouvardos, Klaus NeuhausCore Facility Microbiome/NGS, ZIEL - Institute for Food and Health, Technische Universität München, Germany; [isabel.abellan-schneyder@tum.de](mailto:isabel.abellan-schneyder@tum.de)

P013

**Simple Whole Genome Amplification Technique Developed on the Basis of SD DNA Polymerase****Andreas Kirsten**, Konstantin Ignatov, Ferdinand Holzinger, Vladimir Kramarov, Sergey KovalenkoBioron, Germany; [kirsten@bioron.net](mailto:kirsten@bioron.net)

P014

**Tackling Contaminants In Skin Microbiome Research****Claudia Hülpüsch**<sup>1</sup>, Thomas Nussbaumer<sup>1</sup>, Vera Schwierzeck<sup>1</sup>, **Amedeo De Tomassi**<sup>1</sup>, Matthias Reiger<sup>1</sup>, Claudia Traidl-Hoffmann<sup>1,2</sup>, Avidan Neumann<sup>1</sup><sup>1</sup>Institute of Environmental Medicine, UNIKA-T, Augsburg, Germany; <sup>2</sup>ZIEL - Institute for Food & Health, Freising, Germany; [amedeo.detomassi@tum.de](mailto:amedeo.detomassi@tum.de)

P015

**Microsatellite Instability Analysis and NGS with Fragmented Sample Types****Christopher D'Jamoos**, Samantha Lewis, Henk Honing, Brad Hook, Curtis Knox, Katie OostdikPromega Corporation, United States of America; [chris.djamoos@promega.com](mailto:chris.djamoos@promega.com)

P016

**RiboPOOL: An Affordable Custom/Ribosomal RNA Depletion Solution Against Any Species for RNA Sequencing****Catherine Goh**<sup>1</sup>, Andrew Walsh<sup>1</sup>, Michaela Beitzinger<sup>1</sup>, Jonas Bertram<sup>1</sup>, Kristina Doering<sup>3</sup>, Iana Kim<sup>4</sup>, Stefan Kotschote<sup>2</sup>, Claus Kuhn<sup>4</sup>, Konrad Foerstner<sup>3</sup>, Michael Bonin<sup>1</sup><sup>1</sup>siTOOLS Biotech GmbH; <sup>2</sup>IMGM Laboratories GmbH; <sup>3</sup>University of Würzburg; <sup>4</sup>University of Bayreuth; [catherine.goh@sitools.de](mailto:catherine.goh@sitools.de)

P017

**Sample Quality Control of Long Read Sequencing and Low Input Libraries****Kyle Luttgarm**<sup>1</sup>, Bettina Strauch<sup>2</sup>, **Samina Kaufmann**<sup>2</sup><sup>1</sup>Agilent Technologies, USA; <sup>2</sup>Agilent Technologies, Germany; [samina.kaufmann@agilent.com](mailto:samina.kaufmann@agilent.com)

P018

**A Guide for Sample Processing to Determine Novel Mitochondrial Genomes by Next-Generation Sequencing****Sarah Viola Emser**<sup>1</sup>, Martin Hofer<sup>1</sup>, Daniela Allmer<sup>1</sup>, Ingeborg Klymiuk<sup>2</sup>, Eva Millesi<sup>3</sup>, Ralf Steinborn<sup>1</sup><sup>1</sup>University of Veterinary Medicine, Vienna, Austria; <sup>2</sup>Core Facility Molecular Biology, Center for Medical Research, Medical University Graz, Graz, Austria; <sup>3</sup>Department of Behavioural Biology, University of Vienna, Vienna, Austria; [sarah.emser@gmail.com](mailto:sarah.emser@gmail.com)**Poster Session – Liquid Biopsy****P019 – P029**

P019

**Real-time Genotyping PCR From Blood And Blood Plasma Samples****Moritz Welter**<sup>1,2</sup>, **Ramon Kranaster**<sup>2</sup><sup>1</sup>Chair of Organic Chemistry / Cellular Chemistry, University of Konstanz, Universitätsstraße 10, 78457 Konstanz, Germany; <sup>2</sup>myPOLS Biotech GmbH, Technologiezentrum Konstanz, Blarerstraße 56, 78462 Konstanz, Germany, [www.mypols.de](http://www.mypols.de); [ramon.kranaster@mypols.de](mailto:ramon.kranaster@mypols.de)

P020

**Considerations and Quality Controls when Analyzing Cell-free DNA****Gustav Johansson**<sup>1,2,3</sup>, Daniel Andersson<sup>1</sup>, Stefan Filges<sup>1</sup>, Junrui Li<sup>1</sup>, Helena Kristiansson<sup>2,6</sup>, Tobias Österlund<sup>2,6</sup>, Andreas Muth<sup>4</sup>, Tony E. Godfrey<sup>5</sup>, Anders Ståhlberg<sup>1,2,6</sup><sup>1</sup>Sahlgrenska Cancer Center, Department of Pathology and Genetics, Institute of Biomedicine, Sahlgrenska Academy at University of Gothenburg, Medicinaregatan 1F, 413 90 Gothenburg, Sweden; <sup>2</sup>Wallenberg Centre for Molecular and Translational Medicine, University of Gothenburg, Gothenburg, Sweden.; <sup>3</sup>Respiratory Inflammation and Autoimmunity, IMED Biotech Unit, AstraZeneca, Gothenburg, Sweden.; <sup>4</sup>Department of Surgery, Institute of Clinical Sciences, Sahlgrenska Academy at the University of Gothenburg, Gothenburg, Sweden; <sup>5</sup>Department of Surgery, Boston University School of Medicine, 700 Albany Street, Boston, MA 02118, USA; <sup>6</sup>Department of Clinical Pathology and Genetics, Sahlgrenska University Hospital, 413 45 Gothenburg, Sweden.; [gustav.johansson@qu.se](mailto:gustav.johansson@qu.se)

P021

**Analysis Of Cell-free Tumor DNA Using SiMSen-Seq****Helena Kristiansson<sup>1,2</sup>, Daniel Andersson<sup>3</sup>, Tobias Österlund<sup>1,2</sup>, Stefan Filges<sup>3</sup>, Gustav Johansson<sup>2,3,6</sup>, Junrui Li<sup>3</sup>, Melita Kaltak<sup>3</sup>, Åsa Torinsson Naluai<sup>4,5</sup>, Anders Ståhlberg<sup>1,2,3</sup>**<sup>1</sup>Department of Clinical Pathology and Genetics, Sahlgrenska University Hospital, 413 45 Gothenburg, Sweden.; <sup>2</sup>Wallenberg Centre for Molecular and Translational Medicine, University of Gothenburg, Gothenburg, Sweden.; <sup>3</sup>Sahlgrenska Cancer Center, Department of Laboratory Medicine, Sahlgrenska Academy at University of Gothenburg.; <sup>4</sup>Department of Laboratory Medicine, Biobank Core Facility, University of Gothenburg.; <sup>5</sup>Biobank West, Sahlgrenska University Hospital, Sweden.; <sup>6</sup>Respiratory Inflammation and Autoimmunity, IMED Biotech Unit, AstraZeneca, Gothenburg, Sweden.; [helena.kristiansson@gu.se](mailto:helena.kristiansson@gu.se)

P022

**Performance Evaluation of Novel Protocols for Small RNA Sequencing In Biofluids****Sarka Benesova<sup>1,2</sup>, Peter Androvic<sup>1,3</sup>, Mikael Kubista<sup>1,4</sup>, Lukas Valihrach<sup>1</sup>**<sup>1</sup>Laboratory of Gene Expression, Institute of Biotechnology CAS, BIOCEV, Vestec, Czech Republic; <sup>2</sup>Faculty of Chemical Technology, University of Chemistry and Technology, Prague, Czech Republic; <sup>3</sup>Faculty of Science, Palacký University, Olomouc, Czech Republic; <sup>4</sup>TATAA Biocenter, Gothenburg, Sweden; [benesova@ibt.cas.cz](mailto:benesova@ibt.cas.cz)

P023

**Taqman Advanced Mirna Cdna Synthesis Kit To Simultaneously Study Expression Of Mirna And Mrna From Serum Samples****Astrid Ferlinz**Thermo Fisher Scientific, United Kingdom; [Astrid.Ferlinz@thermofisher.com](mailto:Astrid.Ferlinz@thermofisher.com)

P024

**New Developments in Nucleic Acid Sample Quality Control****Bettina Strauch<sup>1</sup>, Rainer Nitsche<sup>1</sup>, Christine Voigt<sup>2</sup>, Martin Judex<sup>1</sup>**<sup>1</sup>Agilent Technologies, Germany; <sup>2</sup>Alacris Theranostics, Germany; [martin.judex@agilent.com](mailto:martin.judex@agilent.com)

P025

**Plasma cfRNA Profiling using the NanoString nCounter® Low RNA Input Assay****Alan Huang, Christoph Konig**NanoString, United States of America; [ckonig@nanosttring.com](mailto:ckonig@nanosttring.com)

P026

**Detection and Analysis of Free Circulating Long non-coding RNAs and mRNAs in Colorectal Cancer Patients.****Pavel Ostašov, Pavel Pitule**Biomedical Center, Faculty of Medicine in Pilsen, Charles University, Czech Republic; [pavel.ostasov@lfp.cuni.cz](mailto:pavel.ostasov@lfp.cuni.cz)

P027

**Detecting Alzheimer's Disease Risk Factors by qPCR Directly on Blood or Saliva Samples****Andrei Herdean, Mikael Kubista, Robert Sjöback**TATAA Biocenter, Sweden; [andrei.herdean@tataa.com](mailto:andrei.herdean@tataa.com)

P028

**Building High Quality NGS DNA Libraries from Ultra-small Fragments****Stephan Bauer, Robert Brazas, Scott Monsma, Svetlana Jasinovica, Brandon Converse, Michael Lades**LGC, Biosearch Technologies, United States of America; [stephan.bauer@lgcgroup.com](mailto:stephan.bauer@lgcgroup.com)

P029

**Liquid Profiling of Head and Neck Cancer: Circulating cell-free DNA in Plasma and Saliva for minimally invasive Cancer Monitoring****Romina Rösch<sup>1,2</sup>, Irina Kerle<sup>2</sup>, Markus Wirth<sup>3,6</sup>, Markus Nieberler<sup>4</sup>, Nicole Pfarr<sup>5</sup>, Carolin Mogler<sup>5</sup>, Silvia Thoene<sup>1,6</sup>, Ramona Secci<sup>1,6</sup>, Andreas Bietenbeck<sup>1</sup>, Florian Bassermann<sup>2,6</sup>, Jürgen Ruland<sup>1,6</sup>, Christof Winter<sup>1,6</sup>**<sup>1</sup>Department of Clinical Chemistry and Pathobiochemistry, Klinikum rechts der Isar, Technische Universität München, Munich, Germany; <sup>2</sup>Department of Internal Medicine III - Hematooncology, Klinikum rechts der Isar, Technische Universität München, Munich, Germany; <sup>3</sup>Department of Otolaryngology, Klinikum rechts der Isar, Technische Universität München, Munich, Germany; <sup>4</sup>Department of Oral and Maxillofacial Surgery, Klinikum rechts der Isar, Technische Universität München, Munich, Germany; <sup>5</sup>Department of General Pathology and Pathological Anatomy, Technische Universität München, Munich, Germany; <sup>6</sup>German Cancer Consortium (DKTK), partner site Munich; and German Cancer Research Center (DKFZ), Heidelberg, Germany; [romina.roesch@tum.de](mailto:romina.roesch@tum.de)



## Poster Session – Extracellular Vesicles

### P030 – P038

**P030**

#### Anesthesia and Its Impact on miRNA Profiles in Circulating Extracellular Vesicles During Cancer Surgery

**Dominik Buschmann**<sup>1</sup>, Florian Brandes<sup>2,3</sup>, Anja Lindemann<sup>3</sup>, Melanie Maerte<sup>2</sup>, Petra Ganschow<sup>4</sup>, Alexander Chouker<sup>2</sup>, Gustav Schelling<sup>2</sup>, Michael W. Pfaffl<sup>1</sup>, Marlene Reithmair<sup>3</sup>

<sup>1</sup>Division of Animal Physiology and Immunology, Technical University of Munich, Freising, Germany; <sup>2</sup>Department of Anesthesiology, University Hospital, Ludwig-Maximilians-University Munich, Munich, Germany; <sup>3</sup>Institute of Human Genetics, University Hospital, Ludwig-Maximilians-University Munich, Munich, Germany; <sup>4</sup>Department of General, Visceral, and Transplant Surgery, Ludwig-Maximilians-University Munich, Munich, Germany; [dominik.buschmann@wzw.tum.de](mailto:dominik.buschmann@wzw.tum.de)

**P031**

#### Sequence-specific release of EV-associated RNAs

**Marie Mosbach**, Christian Preußner, Lee-Hsueh Hung, Albrecht Bindereif

Justus Liebig University of Giessen, Institute of Biochemistry, Germany; [marie.mosbach@chemie.bio.uni-giessen.de](mailto:marie.mosbach@chemie.bio.uni-giessen.de)

**P032**

#### Analysis of Total RNA Yield and Purity Using Different Extracellular Vesicle Isolation Methods

**Rebekka Van Hoof**<sup>1,2</sup>, Karen Hollanders<sup>1</sup>, Sarah Deville<sup>1,3</sup>, Patrick Wagner<sup>4</sup>, Jef Hooyberghs<sup>1,2</sup>, Inge Nelissen<sup>1</sup>

<sup>1</sup>Sustainable Health, VITO (Flemish Institute for Technological Research), Mol, Belgium; <sup>2</sup>Theoretical Physics, Hasselt University, Diepenbeek, Belgium; <sup>3</sup>Biomedical Research Institute, Hasselt University, Diepenbeek, Belgium; <sup>4</sup>Laboratory for Soft Matter and Biophysics, University of Leuven, Leuven, Belgium; [rebekka.vanhoof@vito.be](mailto:rebekka.vanhoof@vito.be)

**P033**

#### Urinary Extracellular Vesicles: Unveiling the Most Appropriate Purification Method with a View to RNA Sequencing and Biomarker Profiling

**Veronika Mussack**<sup>1</sup>, Georg Wittmann<sup>2</sup>, Michael W Pfaffl<sup>1</sup>

<sup>1</sup>Animal Physiology and Immunology, TUM School of Life Sciences Weihenstephan, Freising, Germany; <sup>2</sup>Department for Transfusion Medicine, Cell therapeutics and Haemostaseology, University Hospital LMU, Munich, Germany; [mussack@wzw.tum.de](mailto:mussack@wzw.tum.de)

**P034**

#### Validating Sensitive Workflows To Analyze RNAs in Tumor-derived Extracellular Vesicles in Serum and Urine Samples of NSCLC Patients

**Vera Kloten**<sup>1</sup>, Rita Lampignano<sup>1</sup>, Martin Neumann<sup>2</sup>, Nina Kessler<sup>3</sup>, Anna Babayan<sup>2</sup>, Klaus Pantel<sup>3</sup>, Thomas Krahn<sup>1</sup>, Thomas Schlange<sup>1</sup>

<sup>1</sup>Bayer AG, Germany; <sup>2</sup>Qiagen, Germany; <sup>3</sup>Department of Tumor Biology, Germany; [vera.kloten@bayer.com](mailto:vera.kloten@bayer.com)

**P035**

#### Serum-Free Media Supplements Carry miRNAs That Co-Purify With Extracellular Vesicles

**Martin Auber**, Dominik Fröhlich, Krämer-Albers Eva-Maria

Johannes Gutenberg University of Mainz, Germany; [auber@uni-mainz.de](mailto:auber@uni-mainz.de)

**P036**

#### Systematic Comparison of Extracellular Vesicles from Human Arterial and Venous Blood: Highly Identical microRNA Expression Indicates Equal Use for Biomarker Applications

**Stefanie Hermann**<sup>1</sup>, Dominik Buschmann<sup>1</sup>, Benedikt Kirchner<sup>1</sup>, Melanie Märte<sup>2</sup>, Florian Brandes<sup>2</sup>, Stefan Kotschote<sup>3</sup>, Michael Bonin<sup>3</sup>, Marlene Reithmair<sup>4</sup>, Gustav Schelling<sup>2</sup>, Michael W. Pfaffl<sup>1</sup>

<sup>1</sup>Division of Animal Physiology and Immunology, School of Life Sciences Weihenstephan, Technical University of Munich, Germany; <sup>2</sup>Department of Anesthesiology, University Hospital, Ludwig-Maximilians-University Munich, Germany; <sup>3</sup>IMG Laboratories GmbH, Planegg, Germany; <sup>4</sup>Institute of Human Genetics, University Hospital, Ludwig-Maximilians-University Munich, Germany; [stefanie.hermann@tum.de](mailto:stefanie.hermann@tum.de)

**P037**

#### Grp78 Plays A Crucial Role In The Exosome-Promoted Survival Of Irradiated Squamous Head And Neck Cancer Cells

**Michael Schneider**, Lisa Mutschelknaus, Klaudia Winkler, Rosemarie Kell, Michael J. Atkinson, Simone Moertl

Helmholtz Zentrum München, Germany; [michael.schneider@helmholtz-muenchen.de](mailto:michael.schneider@helmholtz-muenchen.de)

**P038**

#### Analysis Of DNA Content From Human Melanoma Cellline Derived Extracellular Vesicles

**Daniela Marie Brodesser**<sup>1,2,3</sup>, Ingrid Walter<sup>4</sup>, Waltraud Tschulenk<sup>4</sup>, Sabine Brandt<sup>3</sup>, Gottfried Brem<sup>2</sup>, Franz Trautinger<sup>5</sup>, Joerg P. Burgstaller<sup>1,2</sup>

<sup>1</sup>Biotechnology in Animal Production, IFA Tulln, Austria; <sup>2</sup>Institute of Animal Breeding and Genetics, Vetmeduni Vienna; <sup>3</sup>Research Group Oncology, Equine Clinic, Vetmeduni Vienna; <sup>4</sup>Institute of Pathology and Forensic Medicine, Vetmeduni Vienna; <sup>5</sup>Department of Dermatology and Venereology, Karl Landsteiner University of Health Sciences; [daniela.brodesser@vetmeduni.ac.at](mailto:daniela.brodesser@vetmeduni.ac.at)

## Poster Session – Gene Quantification Methods

### P039 – P069

**P039**

#### **P3py: A Python Module For The Multi-array MicroRNA Detection Data Analysis And The simulation Of Biomarker Diffusion And Reaction**

**Bo Zeng, Christiane Geithe, Stefan Rödiger**

BTU Cottbus Senftenberg, Germany; [zeng@b-tu.de](mailto:zeng@b-tu.de)

**P040**

#### **Phenovault: An Open-Access Resource For Analysing RNAi And CRISPR Screens**

**Catherine Goh, Andrew Walsh, Michaela Beitzinger, Stefan Hannus, Michael Hannus**

siTOOLS Biotech, Germany; [catherine.goh@sitools.de](mailto:catherine.goh@sitools.de)

**P041**

#### **Optimal Use Of Statistical Methods To Validate Reference Gene Stability In Longitudinal Studies**

**Venkat Krishnan Sundaram<sup>1,2</sup>, Nirmal Kumar Sampathkumar<sup>1,2</sup>, Charbel Massaad<sup>1,2</sup>, Julien Grenier<sup>1,2</sup>**

<sup>1</sup>Université Paris Descartes, France; <sup>2</sup>INSERM U1124, Myelination and Nervous system pathologies - Group; [venkatkrishnan.sundaram@parisdescartes.fr](mailto:venkatkrishnan.sundaram@parisdescartes.fr)

**P042**

#### **A New Method to prepare DNA Libraries for NGS by using SD DNA Polymerase**

**Andreas Kirsten, Ferdinand Holzinger, Konstantin Ignatov, Vladimir Kramarov, Sergey Kovalenko**

Bioron, Germany; [kirsten@bioron.net](mailto:kirsten@bioron.net)

**P043**

#### **BIOCEV GeneCore – More Than Just Gene Expression Profiling**

**Lucie Langerová, Filip Franko, Eva Rohlová, David Švec**

Institute of Biotechnology CAS, Czech Republic; [lucie.langerova@ibt.cas.cz](mailto:lucie.langerova@ibt.cas.cz)

**P044**

#### **MLH1 Promoter Hypermethylation: Development and Validation of a Methylation-Sensitive High-Resolution Melting (MS-HRM) Assay for use in a Lynch Syndrome Pre-Screen Pathway**

**Diana Pelka<sup>1,2</sup>, Sasha Hansel<sup>1</sup>, Ben Poskitt<sup>1</sup>, David Moore<sup>1,3</sup>, Tomasz K Wojdacz<sup>4,5</sup>, Phil Bennett<sup>1</sup>, Gareth Gerrard<sup>1,2</sup>**

<sup>1</sup>Sarah Cannon Molecular Diagnostics, HCA Healthcare UK, London, UK; <sup>2</sup>Faculty of Medicine, Imperial College London, London, UK; <sup>3</sup>Department of Histopathology, UCLH NHS Foundation Trust, London, UK; <sup>4</sup>MethylDetect ApS, Aalborg, Denmark; <sup>5</sup>Pomeranian Medical University, Szczecin, Poland; [tomasz@methyldetect.com](mailto:tomasz@methyldetect.com)

**P045**

#### **Detection And Quantification Of MicroRNAs Using A Multiplex Microbead Assay To Accompany Quantitative PCR And Digital PCR Methods**

**Christiane Geithe<sup>1</sup>, Dirk Roggenbuck<sup>2</sup>, Katja Hanack<sup>3</sup>, Peter Schierack<sup>1</sup>, Stefan Rödiger<sup>1</sup>**

<sup>1</sup>BTU Cottbus-Senftenberg, Chair of Multiparameter Diagnostics, Senftenberg, Germany; <sup>2</sup>GA Generic Assays GmbH, Blankenfelde-Mahlow, Germany; <sup>3</sup>University of Potsdam, Institute of Biochemistry and Biology, Professorship of Immunotechnology, Potsdam-Golm, Germany; [Christiane.Geithe@b-tu.de](mailto:Christiane.Geithe@b-tu.de)

**P046**

#### **Developing a Customizable Panel of Real-time qPCR Assays on a Microfluidic Device for Respiratory Tract Pathogen Detection**

**Emmanuelle Lenotre**

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**P047**

#### **Methods to determine Limit of Detection and Limit of Quantification of a quantitative real-time PCR (qPCR).**

**Amin Forootan**

Multid Analyses AB, Sweden; [amin@multid.se](mailto:amin@multid.se)

**P048**

#### **A Winter's Week Tale in Sheffield Virology Department**

**Mehmet Onder Yavuz**

Sheffield Teaching Hospitals NHS Trust, United Kingdom; [Mehmet.yavuz@sth.nhs.uk](mailto:Mehmet.yavuz@sth.nhs.uk)



P049

**Effects Of The Use Of Degenerate Bases In Primers On Quantitative PCR Measurements****Laure Barbier**, Catherine Rousseau, Charles Chapus, Thomas PoyotIRBA, France; [laure.barbier@def.gouv.fr](mailto:laure.barbier@def.gouv.fr)

P050

**Evaluation of DNA Fragmentation Methods for Implementation of cgMLST in Routine Analysis****Larissa Murr**, Melanie Pavlovic, Ingrid Huber, Ulrich Busch, **Patrick Guertler**Bavarian Health and Food Safety Authority, Veterinärstr. 2, 85764 Oberschleißheim, Germany; [patrick.quertler@lgl.bayern.de](mailto:patrick.quertler@lgl.bayern.de)

P051

**FASTFISH-ID™: ThermoGenix's Rapid DNA Authentication of Any Species of Commercial Fish Using Bio-Molecular Systems' MIC sPCR Cycler.****Jesus Aquiles Sanchez**<sup>1</sup>, Amanda M. Naam<sup>2</sup>, Marine Cusa<sup>3</sup>, Ian Goodhead<sup>3</sup>, Sarah Helyar<sup>2</sup>, Albert Wijngaard<sup>4</sup>, Christopher Elliot<sup>2</sup>, Stefano Mariani<sup>3</sup>, Lawrence Wangh<sup>1</sup><sup>1</sup>Thermagenix, Inc., Natick, Massachusetts, United States of America; <sup>2</sup>Institute for Global Food Security, Queen's University Belfast, Belfast, United Kingdom; <sup>3</sup>School of Environment and Life Sciences, University of Salford, Salford, United Kingdom; <sup>4</sup>Bio Molecular Systems, Upper Coomera, QLD, Australia; [sanchez@thermagenix.com](mailto:sanchez@thermagenix.com)

P052

**Is The High-Throughput human OpenArray® System Useful For Profiling miRNAs In Melanoma Regression In A Swine Model?****Claudia Bevilacqua**<sup>1</sup>, Fany Blanc<sup>1</sup>, Marie-Noelle Rossignol<sup>1</sup>, Guillaume Piton<sup>2</sup>, Sylvain Marthey<sup>1</sup>, Silvia Vincent-Naulleau<sup>2</sup><sup>1</sup>INRA, France; <sup>2</sup>CEA, France; [claudia.bevilacqua@inra.fr](mailto:claudia.bevilacqua@inra.fr)

P053

**New Advances in Two-Tailed RT-qPCR****Eva Rohlova**<sup>1,2</sup>, Mansi Maheta<sup>1,2</sup>, Peter Androvic<sup>1,3</sup>, Lukas Valihrach<sup>1</sup>, Mikael Kubista<sup>1,4</sup><sup>1</sup>Laboratory of Gene Expression, Institute of Biotechnology CAS, BIOCEV, Vestec, Czech Republic; <sup>2</sup>Faculty of Science, Charles University, Prague, Czech Republic; <sup>3</sup>Faculty of Science, Palacký University, Olomouc, Czech Republic; <sup>4</sup>TATAA Biocenter, Gothenburg, Sweden; [eva.rohlova@ibt.cas.cz](mailto:eva.rohlova@ibt.cas.cz)

P054

**New Versatile Enzymes for High Performance Multiplex RNA Detection and Analysis****Ryan Heller**, Suhman Chung, Kyle Dumas, Kasia Crissy, Patrick Barchard, David Schuster, Thomas SchoenfeldQIAGEN Beverly, United States of America; [Ryan.Heller@qiagen.com](mailto:Ryan.Heller@qiagen.com)

P055

**Polymerase Strand Displacement Reaction with SD DNA Polymerase – New Alternative to PCR****Anke Fenn**, Ferdinand Holzinger, Konstantin Ignatov, Vladimir Kramarov, Andreas Kirsten, Sergey KovalenkoBioron, Germany; [fenn@bioron.net](mailto:fenn@bioron.net)

P056

**qPCR, dPCR and NGS for The Detection of EGFR Mutations In Lung Cancer Patients****Francesca Salvianti**, Gemma Sonnati, Filomena Costanza, Pamela PinzaniUniversity of Florence, Italy; [francesca.salvianti@unifi.it](mailto:francesca.salvianti@unifi.it)

P057

**SMARTer PicoPLEX Gold: A New Generation of Single Cell NGS Library with High Reproducibility, and Greatly Improved Coverage and Fidelity for Precision Medicine****Matthieu Pesant**<sup>1</sup>, Fang Sun<sup>2</sup>, Datta Mellacheruvu<sup>2</sup>, Bayu Sisay<sup>2</sup>, John Langmore<sup>2</sup>, Graeme McLean<sup>2</sup>, Andrew Farmer<sup>2</sup>, Emmanuel Kamberov<sup>2</sup><sup>1</sup>Takara Bio Europe, Saint-Germain-en-Laye, France; <sup>2</sup>Takara Bio USA, Inc., Mountain View, CA 94043, USA; [matthieu\\_pesant@takarabio.com](mailto:matthieu_pesant@takarabio.com)

P058

**Sample quality control of Cell-free DNA****Bettina Strauch**, Eva Graf, Elisa VieringAgilent Technologies, Germany; [bettina.strauch@agilent.com](mailto:bettina.strauch@agilent.com)

P059

**SiPOOL: Fast, Reliable Gene Silencing With Exceptional Target Specificity Using Optimally-Designed Complex siRNA Pools****Catherine Goh<sup>1</sup>, Andrew Walsh<sup>1</sup>, Michaela Beitzinger<sup>1</sup>, Jonas Bertram<sup>1</sup>, Stefan Hannus<sup>1</sup>, Gunter Meister<sup>2</sup>, Michael Hannus<sup>1</sup>**<sup>1</sup>siTOOLS Biotech GmbH; <sup>2</sup>University of Regensburg; [catherine.goh@sitools.de](mailto:catherine.goh@sitools.de)

P060

**Small Circular RNAs With Antisense Function****Christina Pfafenrot, Albrecht Bindereif**Justus Liebig University of Giessen, Germany; [christina.pfafenrot@chemie.bio.uni-giessen.de](mailto:christina.pfafenrot@chemie.bio.uni-giessen.de)

P061

**Streamlined Single-tube Solutions for High Quality DNA Library Preparation****Yi Jing, Marissa Bolduc, David Bays, Shuhong Li, Eleanor Kolossovski, Brian Komorous, Hongbo Liu, David Shuster**Quantabio, United States of America; [Eleanor.Kolossovski@quantabio.com](mailto:Eleanor.Kolossovski@quantabio.com)

P062

**TATAA Biocenter - Your Full Range Commissioned Service Provider. Get Better Results Faster****Hanna Zoric, Jens Björkman, Mikael Kubista**TATAA Biocenter, Sweden; [hanna.zoric@tataa.com](mailto:hanna.zoric@tataa.com)

P063

**The Spectrum Compact CE System: Fragment Analysis with a Personal Capillary Electrophoresis Device****Christopher D'Jamoos<sup>1</sup>, Ayaka Okuno<sup>2</sup>, Doug Storts<sup>1</sup>, Robert McLaren<sup>1</sup>, Cynthia Sprecher<sup>1</sup>, Michiru Fujiocha<sup>2</sup>, Jin Matsumura<sup>2</sup>, Isao Haraura<sup>2</sup>, Asami Terakado<sup>2</sup>, Noriuki Sumida<sup>2</sup>**<sup>1</sup>Promega Corporation, Madison, WI 53711, USA; <sup>2</sup>Hitachi High-Technologies Corporation, 882 Ichige, Hitachinaka-shi, Ibaraki-Ken, 312-8504 Japan; [chris.djamoos@promega.com](mailto:chris.djamoos@promega.com)

P064

**The Synthetic DNA Fragment Use in the qPCR Diagnostics****Martina Grochová<sup>1,2</sup>, Karel Bílek<sup>1</sup>, Kateřina Rosenbergová<sup>1</sup>**<sup>1</sup>National Institute for NBC Protection (SÚJCHBO, v.v.i.), Czech Republic; <sup>2</sup>Faculty of Sciences, University of South Bohemia in České Budějovice, Czech Republic; [grochova@sujchbo.cz](mailto:grochova@sujchbo.cz)

P065

**ThermaGenix's Universal PCR Additives for Suppressing DNA and RNA Amplification Errors.****Jesus Aquiles Sanchez, John Rice, Kenneth Pierce, Lawrence Wangh**Thermagenix, Inc., Natick, Massachusetts, United States of America; [sanchez@thermagenix.com](mailto:sanchez@thermagenix.com)

P066

**Use of Single Control DNA to Internally Evaluate Performance of qPCR and dPCR Instruments****Dejan Stebih, Katja Stare, Marjana Camloh, Mojca Milavec**National Institute of Biology, Slovenia; [dejan.stebih@nib.si](mailto:dejan.stebih@nib.si)

P067

**MOL-PCR and xMAP Technology: Fast Multiplex Method with High Sensitivity****Jirina Markova, Petr Kralik**Veterinary Research Institute Brno, Czech Republic; [markova@vri.cz](mailto:markova@vri.cz)

P068

**Exteme One-Step RT-qPCR: Potential for point-of-care viral detection.****Jessica A. Houskeeper, Lauryn Narramore, Carl T. Wittwer**Univeristy of Utah, United States of America; [jessica.houskeeper@path.utah.edu](mailto:jessica.houskeeper@path.utah.edu)

P069

**QC Measurements for Predicting Downstream NGS Success with FFPE and Circulating Cell-Free DNA Plasma Samples****Christopher D'Jamoos, Doug Wiczorek, Spencer Hermanson, Curtis Knox, Jennifer Mook, Eric Vincent, Doug Horejsh, Trista Schagat, Doug Storts**Promega Corporation, 2800 Woods Hollow Rd. Madison, WI; [chris.djamoos@promega.com](mailto:chris.djamoos@promega.com)

## Poster Session – Advanced Molecular Diagnostics in Life Science

### P070 – P084

**P070**

#### Combination of Hormone and Transcriptome Analyses in the Study of Cold and Freezing Stress in Grass *Lolium perenne*

**Sylva Prerostova<sup>1</sup>, Barbara Kramna<sup>1,2</sup>, Jan Simura<sup>3</sup>, Alena Gaudinova<sup>1</sup>, Vojtech Knirsch<sup>1</sup>, Ondrej Novak<sup>3</sup>, Radomira Vankova<sup>1</sup>**

<sup>1</sup>Institute of Experimental Botany, Czech Academy of Sciences, Czech Republic; <sup>2</sup>Faculty of Science, Charles University, Czech Republic; <sup>3</sup>Centre of the Region Haná for Biotechnological and Agricultural Research, Palacký University and Czech Academy of Sciences, Czech Republic; [prerostova@ueb.cas.cz](mailto:prerostova@ueb.cas.cz)

**P071**

#### Differentiation Potential of NG2-glia Following Different Types of Brain Injuries

**Lukas Valihrach<sup>1</sup>, Denisa Kirdajova<sup>2</sup>, Denisa Kolenicova<sup>2</sup>, Daniela Krocianova<sup>2</sup>, Jan Kriska<sup>2</sup>, Peter Androvic<sup>1,3</sup>, Daniel Zucha<sup>1,4</sup>, Eva Rohlova<sup>1,4</sup>, Mansi Maheta<sup>1,4</sup>, Miroslava Anderova<sup>2</sup>, Mikael Kubista<sup>1,5</sup>**

<sup>1</sup>Institute of Biotechnology, Czech Republic; <sup>2</sup>Institute of Experimental Medicine, Czech Republic; <sup>3</sup>Faculty of Science, Palacký University, Czech Republic; <sup>4</sup>Faculty of Science, Charles University, Czech Republic; <sup>5</sup>TATAA Biocenter, Sweden; [lukas.valihrach@ibt.cas.cz](mailto:lukas.valihrach@ibt.cas.cz)

**P072**

#### Metrological Support for Molecular Diagnostics - A Case Study of HCMV and Its Resistance to Ganciclovir

**Alexandra Bogožalec Košir<sup>1</sup>, Tašja Cvelbar<sup>2</sup>, Mojca Milavec<sup>1</sup>**

<sup>1</sup>National Institute of Biology, Department of Biotechnology and Systems Biology, Slovenia; <sup>2</sup>Biotechnical Faculty, Department of Biology, University of Ljubljana, Slovenia; [alexandra.bogozalec@nib.si](mailto:alexandra.bogozalec@nib.si)

**P073**

#### Detection of Bacteria and Virus Involved Urinary Tract Infections and Profiling Their Antibiotic Resistance Using TaqMan Real-time PCR Assays

**Pius Brzoska, Xiaqing You**

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

**P074**

#### Immunomodulatory Properties of Adipose-Derived Stem Cells Treated with 5-Azacytidine and Resveratrol on Peripheral Blood Mononuclear Cells and Macrophages in Metabolic Syndrome Animals

**Krzysztof Marycz<sup>1,2</sup>, Katarzyna Kornicka<sup>1</sup>, Agnieszka Smieszek<sup>1</sup>**

<sup>1</sup>Wrocław University of Environmental and Life Sciences, Poland; <sup>2</sup>Faculty of Veterinary Medicine, Equine Clinic-Equine Surgery, Justus-Liebig-University, 35392 Gießen, Germany; [krzysztof.marycz@upwr.edu.pl](mailto:krzysztof.marycz@upwr.edu.pl)

**P075**

#### Elucidation of the Role of *Tenacibaculum* spp. in Atypical Winter-ulcer in Sea-farmed Atlantic Salmon in Norway

**Bjørn Spilsberg, Karin Lagesen, Hanne Katrine Nilsen, Anne Berit Olsen, Duncan Colquhoun**

Norwegian Veterinary Institute, Norway; [bjorn.spilsberg@vetinst.no](mailto:bjorn.spilsberg@vetinst.no)

**P076**

#### Investigation Of Association Of Variant Rs17036314 Of PPARG Gene And Rs7923837 Of HHEX Gene In Diabetes Mellitus Type 2 Patients In Iran Population By Tetra-ARMS PCR And Sanger DNA Sequencing

**Maryam Majzoobi**

IAUPS, Iran, Islamic Republic of; [maryamajzoobi@gmail.com](mailto:maryamajzoobi@gmail.com)

**P077**

#### Microvesicles Derived From Human Adipose-Derived Multipotent Stromal Cells Improves Retinal Functionality in Dogs With Retinal Degeneration.

**Agnieszka Śmieszek<sup>1</sup>, Anna Pakuluk<sup>2,3</sup>, Natalia Kucharczyk<sup>2,3</sup>, Peter G.C. Bedford<sup>4</sup>, Krzysztof Marycz<sup>1,5</sup>**

<sup>1</sup>Department of Experimental Biology, The Faculty of Biology and Animal Science, University of Environmental and Life Sciences Wrocław 50-375, Poland; <sup>2</sup>Przychodnia weterynaryjna Trzebnicka; <sup>3</sup>Przychodnia weterynaryjna Viva; <sup>4</sup>Professor Emeritus of Veterinary Ophthalmology, Royal Veterinary College, London, UK; and Ophthalmology Referrals, 25, Great North Road, Brookmans Park, Herts. AL9 6LB, UK; <sup>5</sup>Faculty of Veterinary Medicine, Equine Clinic-Equine Surgery, Justus-Liebig-University, 35392 Gießen, Germany; [agnieszka.smieszek@upwr.edu.pl](mailto:agnieszka.smieszek@upwr.edu.pl)

**P078**

#### Strigolactone Mediated Age - And Organ-Specific Gene Expression In *Arabidopsis thaliana*

**Barbara Kramna<sup>1,2</sup>, Sylva Prerostova<sup>1</sup>, Eva Kobzova<sup>1</sup>, Radomira Vaňkova<sup>1</sup>**

<sup>1</sup>Institute of Experimental Botany, Czech Acad. Sci.; <sup>2</sup>Charles University in Prague, Faculty of Science, Department of Experimental Biology of Plants; [kramna@ueb.cas.cz](mailto:kramna@ueb.cas.cz)

**P079****Role of Nitric Oxide During Embryonic Wound Healing****Pavel Abaffy**, Ravindra Naraine, Silvie Tomankova, Radek SindelkaLaboratory of Gene Expression, Institute of Biotechnology, Czech Academy of Science, Czech Republic; [pavel.abaffy@ibt.cas.cz](mailto:pavel.abaffy@ibt.cas.cz)**P080****Study Of An In Vitro System For Alzheimer's Disease****Luo Wei**<sup>2</sup>, Larry Wong<sup>1</sup>, Deanna Woo<sup>2</sup>, Matthew Hammond<sup>2</sup>, Laura Moriarty<sup>2</sup>, Elisabeth Jordan Dreskin<sup>2</sup><sup>1</sup>Bio-Rad Laboratories, Hercules, CA, USA; <sup>2</sup>Bio-Rad Laboratories, Mississauga, ON, Canada; [wei\\_luo@bio-rad.com](mailto:wei_luo@bio-rad.com)**P081****The Expression of Prostaglandins during different Physiological stages in the Bovine Corpus Luteum****Bajram Berisha**<sup>1,2</sup>, Dieter Schams<sup>2</sup>, Daniela Rodler<sup>3</sup>, Fred Sinowatz<sup>3</sup>, Michael Pfaffl<sup>2</sup><sup>1</sup>University of Prishtina, Kosovo; <sup>2</sup>Animal Physiology & Immunology Weihenstephan, Technical University of Munich, Germany; <sup>3</sup>Department of Veterinary Sciences, Ludwig Maximilian University of Munich, Germany; [bajram.berisha@uni-pr.edu](mailto:bajram.berisha@uni-pr.edu)**P082****Use of Universal ProbeLibrary Probes for Detection of Highly Pathogenic Biological Agents****Karel Bílek**, Kateřina Rosenbergová, Martina Grochová, Hana Placáková, Oldřich Kubíček, Jiřina ProcházkováNational Institute for NBC Protection (SÚJCHBO, v.v.i.), Czech Republic; [bilek@suichbo.cz](mailto:bilek@suichbo.cz)**P083****Using In Vitro Transcribed mRNA For Gene Therapy Targeting Viral Infections****Andreas Oswald**, Ulrike ProtzerInstitut für Virologie, Technische Universität München, Germany; [andreas.oswald@tum.de](mailto:andreas.oswald@tum.de)**P084****Whole Genome Crispr Screening to Identify Potential SERD Molecule Resistance Mechanisms****Christophe Marcireau**, Karine Berthelot, Alice Williard, Hamida Fournet, Delphine Debono, **Gilbert Thill**, Helene Erasmus, Dorine Chassin, Christophe Lanneau, Veeranagouda Yaligara, Cecile Orsini, Michel Didier, Vincent Mikol, Monsif Bouaboula, Laurent DebusscheSanofi, France; [Gilbert.thill@sanofi.com](mailto:Gilbert.thill@sanofi.com)