qPCR-NGS-2013.net **18th – 22nd March 2013**

Symposium & Exhibition & Workshops

Next Generation Thinking in Molecular Diagnostics

TUM, Freising-Weihenstephan, Germany

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5th March 2013

qPCR & NGS 2013 EVENT ANNOUNCEMENT

Dear researcher,

The great international interest in the previous International **qPCR Events** from 2004 till 2011 with a constant audience of 400 to 600 people from all over the world motivates repeating the success in March 2013. We broaden our focus in transcriptomics from quantitative RT-PCR, over hybridisation array to **Next Generation Sequencing (NGS)** technologies. The date for the 6th International qPCR Symposium & Exhibition & Application Workshops is on **18th to 20th March 2013**. Parallel to the scientific symposium an **industrial exhibition** will take place where around 35 international companies will present their newest qPCR, array and NGS technologies. The symposium will be followed by various **qPCR & NGS Workshops** taking place March 21st and 22nd March powered by TATAA Biocenter, Bio-Rad and Genomatix.
Event location is the central lecture hall complex and the foyer at TUM (Technical University of Munich) in Freising Weihenstephan, Germany. The TUM and the Biotech region around Munich are part of the largest Biotech cluster in Europe, located close to the Munich airport (MUC) directly in the heart of Bavaria.

The focus of the qPCR & NGS 2013 Event will be on

Next Generation Thinking in Molecular Diagnostics

As usual the qPCR & NGS Event is structured in three parts:

1. **Symposium -** taking place March 18-20, including **various Talk & Poster Sessions**
2. **Industrial Exhibition** - taking place March 18-20
3. followed by various **qPCR & NGS Application Workshops** taking place March 21-22

The scientific organization is managed by international well-known scientists in the field of transcriptomics:

Stephen Bustin	Prof. of Allied Health and Medicine, Faculty of Health, Anglia Ruskin University, UK
Mikael Kubista	Prof. of Biotechnology, BTU, Czech Academy of Sciences & TATAA Biocenter, Sweden
Jo Vandesompele	Prof. at the Center of Medical Genetics, University of Ghent, Belgium
Michael W. Pfaffl	Prof. of Molecular Physiology, TUM, Weihenstephan, Germany (Scientific coordination)

The event organization will be managed by Sylvia Pfaffl, bioMCC, Germany
Eventmanagement@bioMCC.com

Symposium

The symposium focus on **74 lectures and 105 accepted posters** presented by international recognised experts in their application fields. The emphasis will be on unbiased, didactic information exchange.
Please browse the conference agenda => http://agendaHTML.qPCR-NGS-2013.net
One third of the talks will be presented by invited speakers, one third of the speakers will be selected from the submitted abstracts and one third will be qPCR and NGS company representatives. Various poster sessions will be presented in parallel in a separate poster exhibition hall. All scientific contributions will be published in the **qPCR & NGS 2013 Proceedings** (incl. ISBN 9783000410246).

Talk & Poster Sessions:

Please browse the conference agenda => http://agendaHTML.qPCR-NGS-2013.net

Download the agenda => http://agendaPDF.qPCR-NGS-2013.net

Register via our online tool => http://registration.qPCR-NGS-2013.net

Main topic: Molecular diagnostics
Markers in diagnostic, prognostic, and therapeutic, markers on DNA, RNA, microRNA level, disease markers, tissue specific markers, cancer markers, stem-cells markers, differentiation markers, methylation markers diagnostic quantification methods, epigenetics, SNP analysis, high resolution melt (HRM) applications, ...

Main topic: Next Generation Sequencing (NGS)
NGS applications in Genomics, Epigenomics, RNA-Seq, microRNA analysis, CHIP analysis; NGS data handling and analysis, ...

Main topic: Transcriptional Biomarkers
A session about the discovery, identification and validation of transcriptional biomarkers. In connection to this session a **METHODS special issue "Transcriptional Biomarkers"** (edited by Michael W. Pfaffl) is published in January 2013. At the meeting all participants will receive a print copy of this special Methods issue "Transcriptional Biomarkers" METHODS 2013 59(1) pages 1-192

High throughput analysis in qPCR
High throughput and gene expression profiling platforms, 384 – 1536 well applications and more, qPCR robotics; high throughput SNP application, real-time RT-PCR arrays (mRNA and microRNA), quantitative multiplexing …

Single-cells diagnostics
Single-cell sampling, circulating tumor cells (CTS), pre-amplification techniques, laser micro dissection, sub-cellular PCR, micro-manipulation of cell clusters, cellular micro injection, FACS spotting, single-cell handling, …

MIQE & QM strategies in qPCR
The MIQE guidelines: minimum information for publication of quantitative real-time PCR experiments. Following these guidelines will encourage better experimental practice, allowing more reliable and unequivocal interpretation of qPCR results. QM strategies in real-time PCR to guarantee better and more valid results...

non-coding RNAs - microRNA, siRNA and long non-coding RNAs
RNAi mechanism, extraction of non-coding RNAs, RT-qPCR technologies to detect microRNA and long-non coding RNAs, siRNA applications in combination with qRT-PCR, microRNA targets and microRNA precursors, new siRNA manipulation and microRNA technologies, ...

Digital PCR & Nano-fluidics
Digital PCR (dPCR) can be used to directly quantify and clonally amplify nucleic acids including DNA, cDNA, mRNA or microRNA. It allows a more reliable collection and sensitive measurement of nucleic acid amounts, applications in copy number variants, point mutations, and molecular diagnostics; …

Pre-analytical Steps
Pre-amplification, sampling technologies, DNA / RNA purification, extraction efficiency, DNA / mRNA / microRNA quality control, Reverse Transcription, RT quality control, external references, results from the SPIDIA study, ...

BioStatistics & BioInformatics
qPCR & NGS data analysis
qPCR: Software applications, data mining, calculation of relative expression, primer and probe design on mRNA and microRNA level, real-time PCR efficiency determination, mathematical modelling, multivariate expression profiling raw data analysis, statistics in real-time PCR, data management, multi-way expression profiling, multiple regression analysis, 3D data visualization.....

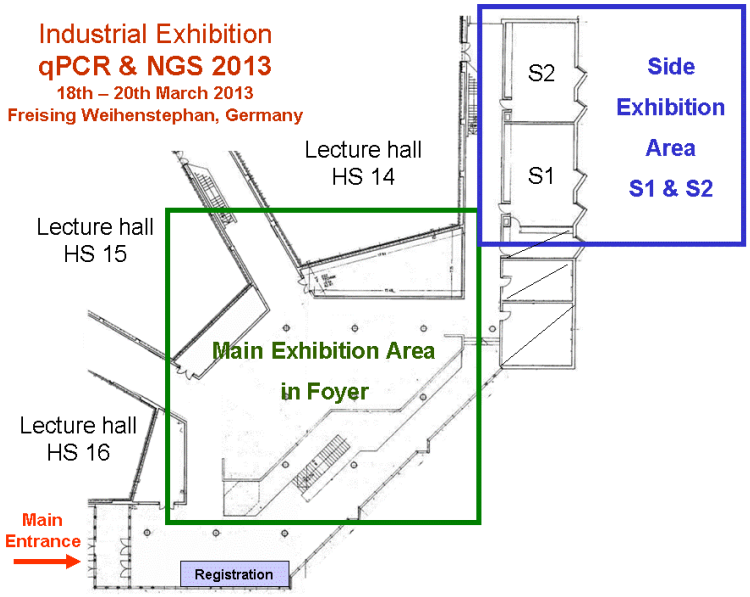
NGS: Information technology in the era of NGS, data management, mapping and alignment algorithms, data de novo assembly, NGS application on DNA, mRNA and microRNA level, comparison of NGS with conventional high throughput qPCR, and much more ... ...

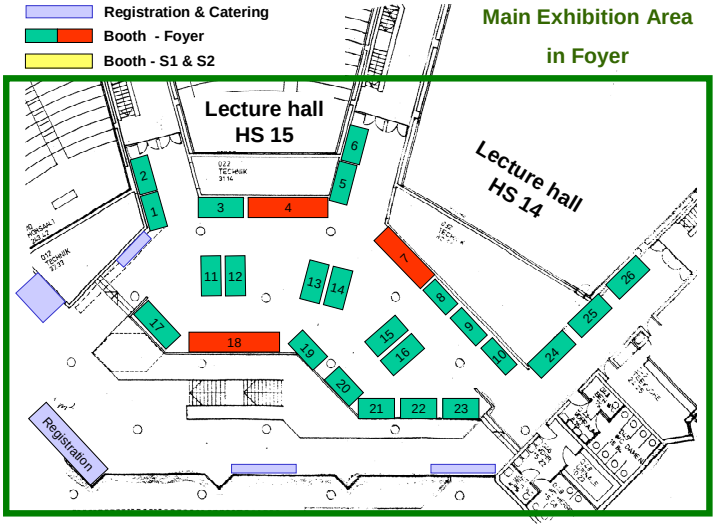
Industrial talks

Participating companies have the opportunity to sponsor the event and present their latest technologies. From our Lead-, Gold- and Session Sponsors we expect to have around 20 industrial presentations. All these presentations should be focused on key problems and scientific challenges in qPCR and should offer solutions to these. Participants like to be informed about methodological news based on innovative industrial research. The organizers strongly appeal to the participating companies to present an interesting academic talk (25 min talk and 5 min discussion) showing results from R&D and NOT sales promoting established and existing products. Therefore company representatives from the R&D and research orientated qPCR product specialists will be given priority.

Industrial Exhibition

An industrial exhibition will be held during the qPCR Symposium **March 18-20** in the **main exhibition area** foyer of the central lecture hall complex (marked by green frame) and in the **side exhibition area** (room S1 and S2 marked by blue frame). The exhibition sites are very close to the lecture halls HS 14 and HS 15 where the symposium lectures will be given. **The exhibition is fully booked!**





qPCR Workshops

The qPCR workshops will be held in parallel 21st and 22nd March and hosted by TATAA Biocenter (www.tataa.com) or Bio-Rad (www.Bio-Rad.com). All workshops offer extensive hands-on training by qPCR experts. The workshop labs and seminar rooms are close to the lecture hall complex. For a detailed description of the workshop contents => http://workshops.qPCR-NGS-2013.net

qPCR Workshop topics:

- **Basic real-time qPCR Application Workshop** (2-days) hosted by TATAA
- **Experimental design and statistical data analysis for qPCR** (2-days) hosted by TATAA
- **MIQE: Quality control of qPCR in Molecular diagnostics** (2-days) hosted by TATAA
- **Digital PCR** (2-days) hosted by Bio-Rad

NGS data analysis workshops

The NGS data analysis workshop on 21st and 22nd March is hosted by **Genomatix** (www.Genomatix.com).

- **NGS data analysis workshop** (2-days) hosted by Genomatix

Symposium & Workshop Fees

The registration fees include:

- Printed proceedings showing all abstracts of the scientific contributions (ISBN 9783000410246)
- Online access to full presentations: with permission from the authors all recorded talks, presentation slides, and posters will be available online as PDF on the symposium homepage, in a password protected area.
- Full catering service including all kind of drinks, coffee bar, milk bar, various cold or hot snacks, three lunch meals and two evening events: a *Get-Together-Reception* on Monday 18th, and an evening *Conference-Dinner* on Tuesday 19th, with a very delicious international buffet, non-alcoholic, alcoholic drinks and cocktails.

Symposium (3 days)	**Early registration fees** until 31st January 2013	**Late registration fees** from 1st February 2013
students*	320 Euro	**370 Euro**
academic attendants	420 Euro	**470 Euro**
industrial attendants	520 Euro	**570 Euro**
Workshop (2 days)		
students*	420 Euro	**470 Euro**
academic attendants	520 Euro	**570 Euro**
industrial attendants	620 Euro	**670 Euro**
Symposium + Workshop (5 days)		
students*	700 Euro	**800 Euro**
academic attendants	900 Euro	**1.000 Euro**
industrial attendants	1.100 Euro	**1.200 Euro**

*The students should present a valid student passport at the registration. **Net prices are displayed !**

For companies out of the EU (except Germany) providing a valid EU-VAT-ID with the registration: EU transaction without German VAT. The Reverse Charge Procedure applies as per German VAT law (UStG § 3a), VAT Liability is shifted to the recipient of the invoice. For all other participants: 19% German VAT are additionally charged to the net price.

Register via our online registration tool, called **CONFTOOL** => http://registration.qPCR-NGS-2013.net

If you have further questions, we are pleased to help you. Up to date information is available on the Symposium Homepage http://www.qPCR-NGS-2013.net

Hope to meet you in March at the qPCR & NGS 2013 Event in Freising!

Michael Pfaffl

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