

# Workshop on Nanomaterial Safety: Biomarkers

## St.Christoph/Arlberg, February 26<sup>th</sup> - 29<sup>th</sup>, 2012



### NanoLINEN (NANOtoxicology Link between INDian and European Nations)

<http://www.nanolinen.org>

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## Program

**Sunday, February 26<sup>th</sup>, 2012**

**Chimney Hall, Hospiz Hotel**

**7:00 p.m. Get-together – Welcome Reception**

**Thereafter Dinner at “BRUDERSCHAFTSSTUBE” (Ground-floor)**

**Monday, February 27<sup>th</sup>, 2012**

**Seminar room, Sporthotel, 2<sup>nd</sup> Floor**

**10:15 – 12:30 Chair:** Karahalil B (Ankara, Turkey), Fuchs D (Innsbruck, Austria)

**10:15 Introduction - NewIndigo / nanoLINEN**

Karahalil B (Ankara, Turkey)

**Introduction - Biomarker Workshop**

Fuchs D (Innsbruck, Austria)

**10:30 Multidimensional immunoinflammatory monitoring in acute inflammation and septic states**

Faist E (Munich, Germany)

**11:00 Applications of immune system biomarkers in clinical studies**

Fuchs D (Innsbruck, Austria)

**11:30 Immune system biomarkers in cardiovascular disease - A clinical perspective**

Kaski JC (London, United Kingdom)

**12:00 Identification and application of biomarkers in kidney transplantation**

Müller TF (Edmonton, Canada)

**12:30 – 3:15 p.m. Break**

**3:15 – 5:15 Chair:** Bonassi S (Rome, Italy), Fuith LC (Eisenstadt, Austria)

**3:15 Interferon- $\gamma$ -induced biochemical pathways - friend and foe in tumor immunology**

Brandacher G (Baltimore, MD)

**3:45 IL28B polymorphism, IP10 and other biomarkers in patients with hepatitis C virus infection**

Zoller H (Innsbruck, Austria)

**4:15 Pathophysiological networks and new therapeutic approaches in the anemia of chronic disease**

Weiss G (Innsbruck, Austria)

**4:45 Innate and adaptive immune system in Alzheimer's disease: therapeutic implications**

Blasko I (Innsbruck, Austria)

**5:15 – 5:40 Coffee Break**

**5:40 – 6:50 Chair:** Debbage P (Innsbruck, Austria)

**5:40 *In-vitro* models for the detection of long-term nanoparticle effects**

Froehlich E (Graz, Austria)

**6:10 Nano versus bulk toxicity: need for critical human biomarkers**

Tripathi A, Roy R, Dwivedi PD, Das M (Lucknow, India)

**6:30 Influence of TiO<sub>2</sub> nanoparticles vs. bulk material on human peripheral blood cells and on myelomonocytic cell line THP-1**

Schröcksnadel S, Herlin N, Carriere M, Fuchs D (Innsbruck, Austria; Grenoble & Sarclay, France)

**Tuesday, February 28<sup>th</sup>, 2012:**

**Seminar room, Sporthotel, 2<sup>nd</sup> Floor**

**10:15 – 12:25 Chair:** Karakaya A (Ankara, Turkey), Herlin N (Sarclay, France)

**10:15 Biomonitoring studies in exposed populations: An epidemiological perspective**

Bonassi S (Rome, Italy)

**10:45 Biomonitoring of occupational exposure to styrene**

Teixeira JP (Porto, Portugal)

**11:15 Evidence for short-term hepatotoxicity of gadolinium-bearing albumin-based nanoparticles in a rat model**

Debbage P (Innsbruck, Austria)

**11:45 Nanoparticle interaction with proteins: Does it co-relate with toxicity?**

Dwivedi PD, Roy R, Tripathi A, Das M (Lucknow, India)

**12:05 Different patterns of cytotoxicity in titanium dioxide nanoparticle treated cell lines**

Engin AB, Karahalil B (Ankara, Turkey)

**12:25 – 3:15 p.m. Break**

**3:15 – 5:15 Chair:** Müller TF (Edmonton, Canada), Brandacher G (Baltimore, MD)

**3:15 Microarray-based gene expression profiling: possibilities and limitations**

Gostner J (Innsbruck, Austria)

**3:45 Limitations of LC-tandem mass spectrometry in the clinical laboratory**

Seger C (Innsbruck, Austria)

**4:15 Neopterin and progress of malignant diseases - a glimpse of host-tumour interaction?**

Reibnegger G (Graz, Austria)

**4:45 Psychoneuroimmunology of HIV infection**

Kurz K, Zangerle R, Weiss G, Fuchs D (Innsbruck, Austria)

**5:15 – 5:40 Coffee Break**

**5:40 – 6:50 Chair:** Fröhlich E (Graz, Austria)

**5:40 Changes in neopterin levels and tryptophan degradation with silica nanoparticles**

Palabiyik SS, Girgin G, Tutkun E, Yilmaz H, Baydar T (Ankara, Turkey)

- 6:00 Effect of occupational zinc nanoaerosol exposure on neopterin levels and tryptophan degradation**  
Girgin G, Saraç ES, Baydar T, Aydın A, Şahin G (Ankara, Turkey)
- 6:20 Evaluation of genotoxicity in infertile men**  
Coskun E (Ankara, Turkey)
- 6:40 Closing remarks**  
Bonassi S (Rome, Italy)

**Wednesday, February 29<sup>th</sup>, 2012**

**Seminar room, Sporthotel**

- 9:30 nanoLINEN – Business Meeting**  
Karahalil B (Ankara, Turkey)



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**CONFERENCE ORGANISATION:**

**Scientific committee:** Stefano Bonassi (Rome), Alok Dhawan (Lucknow), Bensu Karahalil (Ankara), Dietmar Fuchs (Innsbruck)

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