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UNODC Expert Consultation
on Forensic Toxicology and Drug Control
Vienna, 28 to 29 June 2016

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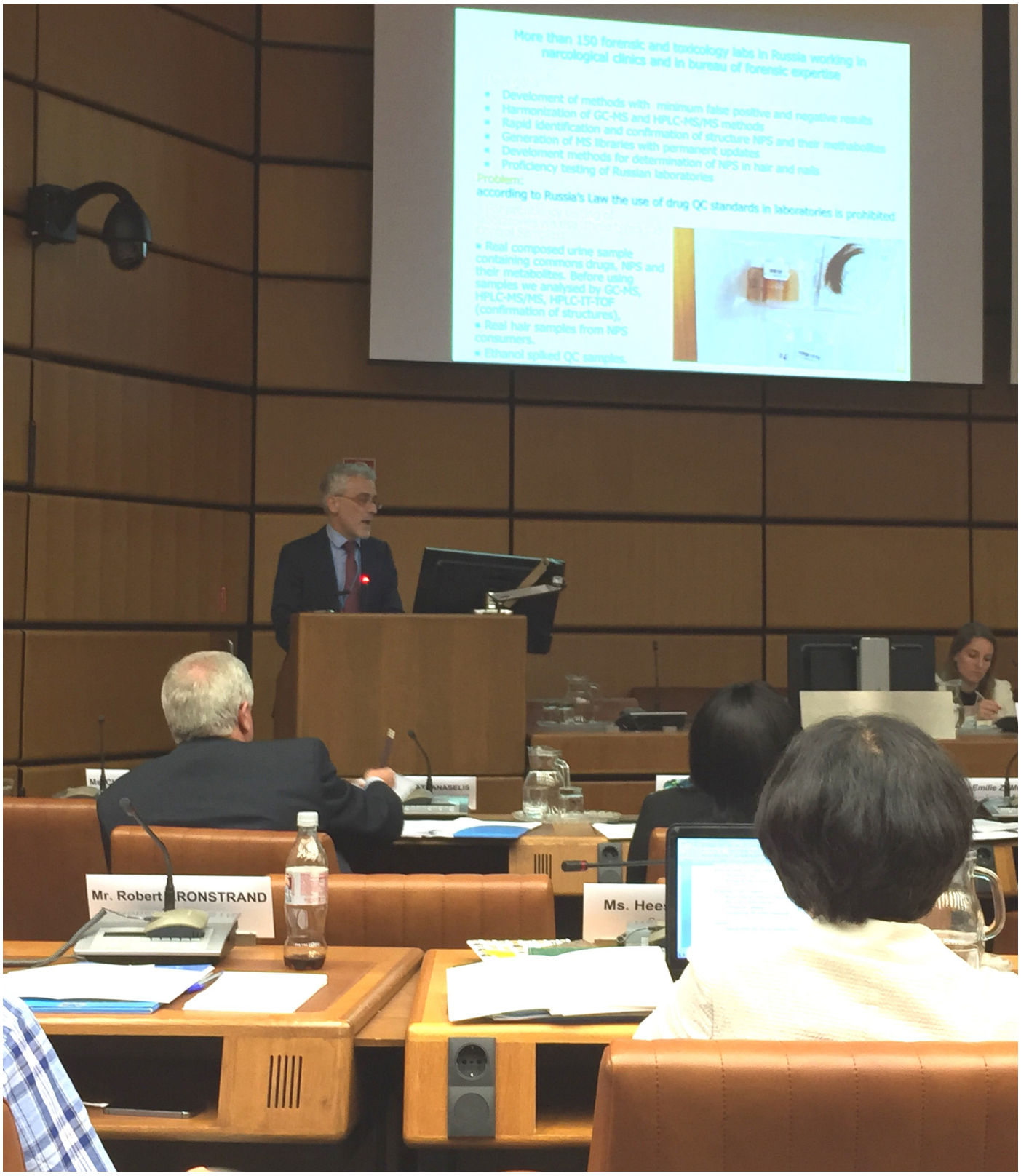

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The GC-MS and HPLC-MS/MS Determination of New Psyhoactive Sustances in Hair and Nails with New Version of MS Llibrary

Sergey Savchuk, Dr. of chem.,Toxicology Lab
Research Institute on Addictions
Moscow, Russia

More than 150 forensic and toxicology labs in Russia working in narcological clinics and in bureau of forensic expertise

Main goal:

- Develoment of methods with minimum false positive and negative results
- Harmonization of GC-MS and HPLC-MS/MS methods
- Rapid identification and confirmation of structure NPS and their methabolites
- Generation of MS libraries with permanent updates
- Develoment methods for determination of NPS in hair and nails
- Proficiency testing of Russian laboratories

Problem:

according to Russia's Law the use of drug QC standards in laboratories is prohibited

For proficiency testing of laboratories we use three types the Control Samples:

- Real composed urine sample containing commons drugs, NPS and their metabolites. Before using samples we analysed by GC-MS, HPLC-MS/MS, HPLC-IT-TOF (confirmation of structures),
- Real hair samples from NPS consumers.
- Ethanol spiked QC samples.

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Rational approach to toxicology-related data collection

Franco Tagliaro

Full professor of Forensic Medicine and Toxicology

University of Verona

Verona, Italy

UNODC Expert Consultation, Vienna, June 2016

New methods from pharmacological research

***Zebrafish* approach to rapid pharmacological screening**

M Tayyab Akhtar, S Ali,
R Verpoorte , MK Richardson
Behavioral effects of cannabinoids on zebrafish larvae. Planta Med 2012; 78 - PD123

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