



7th International Workshop on N-Acetyltransferases (NAT)

18 - 20 June 2016, Trier, Germany

hosted by
Environmental Toxicology
University Trier



 **Universität Trier**

Program

Saturday, 18th of June

14:30 Registration

Location: Penta Hotel, foyer in front of the meeting room P3

15:15 Welcome and Introduction (Organizing Committee)

15:30 NATs and Susceptibility to Diseases and Diagnosis (Chair: E. Sim)

15:30-15:50 Fluorescent probes for HUMAN(NAT1) detection in human breast cancer cell extracts (J. Egleton)

16:00-16:20 Chemically induced mammary tumor differences between rapid and slow arylamine N-Acetyltransferase congenic Fischer 344 rats (M. Stepp)

*16:30-16:50 NAT2*6A and bladder cancer risk (S. Selinski)*

17:00 Keynote Lecture: Genome-wide association studies – achievements and perspectives (F. Geller)

17:45 Session finished

18:00-19:30 Welcome Reception: Assortment of local Wines (Mosel-Saar-Ruwer) and Appetizers

Location: Penta Hotel, foyer in front of the meeting room P3

22:00-23:30 Guided Night-Tour through Trier's Historic City Center, Walking Tour "2000 years – 2000 steps"

Meeting point: Penta Hotel, reception desk

Sunday, 19th of June

9:00 Update on NAT Gene Nomenclature (Chair: D. Hein)

9:00-9:30 NAT gene nomenclature: towards standardisation of pharmacogenetic allele nomenclature and test result reporting (S. Boukouvala)

9:30-10:00/10:30 Discussion and feedback from attendees

10:30 Keynote Lecture: NAT Research and Accomplishments in the Field (E. Sim)

11:30 Refreshment Break

11:45 Metabolism of Aromatic Amines and Toxicity (Chair: J.-M. Dupret)

11:45-12:05 Arylamine and Alkylaniline Carcinogen Metabolism in Rapid and Slow Acetylators (D. Hein)

12:15-12:35 Isothiocyanates alter the bioactivation of carcinogenic aromatic amines through irreversible inhibition of arylamine N-acetyltransferases (F. Rodrigues-Lima/R. Duval)

12:45 Lunch

Location: Penta Hotel, Restaurant

14:15 Expression, Function and Regulation of NAT Enzymes in Microorganisms (Chair: F. Rodrigues-Lima)

*14:15-14:35 Resistance to 3,4-dichloroaniline in *F. solani* seems to operate only in part through the acetylation pathway catalyzed by arylamine N-acetyltransferases (J.-M. Dupret)*

14:45-15:05 Comparative genomic survey of microbial arylamine N-acetyltransferases (V. Garefalaki)

15:15 Refreshment Break

15:30 Expression, Function and Regulation of NAT Enzymes in Mammals (Chair: D. Grant)

15:30-15:50 Genetic heterogeneity in the slow acetylator N-acetyltransferase 2 phenotype in human hepatocytes (D. Hein)

16:00-16:20 Expression and activity of NAT1 in stratified epithelial tissue – human epidermis as model (J. Lichter)

16:30-16:50 NAT polymorphic variants in primates (G. Fakis)

17:00-17:20 Sequencing of NAT2 and acetylation status determination by caffeine test in Greenlanders (F. Geller)

17:30 Session finished

19:30-22:30 Conference Dinner

Location: Hotel Restaurant "Deutscher Hof", Südallee 25, Trier

Monday, 20th of June

9:00 Endogenous Functions of NATs, part 1 (Chair: R. Minchin)

9:00-9:20 Construction and characterization of MDA-MB-231 breast cancer cells stably expressing varying arylamine N-acetyltransferase 1 (S. Carlisle)

9:30-9:50 Untargeted polar metabolomics of transformed MDA-MB-231 breast cancer cells expressing varying levels of human arylamine N-acetyltransferase 1 (S. Carlisle)

10:00-10:15 Refreshment Break

10:15 Endogenous Functions of NATs, part 2 (Chair: R. Minchin)

10:15-10:35 CRISPR/Cas9 knockout of arylamine N-acetyltransferase 1 in human breast cancer cell lines (M. Stepp)

10:45-11:05 Arylamine N-Acetyltransferase 1 (NAT1) and Cellular Metabolism (R. Minchin)

11:15-11:35 late breaking abstract

11:45 Closing of the Workshop (Organizing Committee)

Registration Fee: 270€

Registration is open till 10th of June 2016.

For further information mail to

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