AARHUS UNIVERSITY

Press release

Please fill in this form and return it to graduateschoolhealth@au.dk in Word format along with a portrait photo in JPEG format, if you would like it to accompany your press release, no later than three weeks prior to your defence.

Basic information

Name: Louise Stride Nielsen Email: lsni@forens.au.dk Phone: 28153322

Department of: Forensic Medicine

Main supervisor: Christian Lindholst

Title of dissertation: Advances in comparative analyses of cocaine and amphetamine seizures

Date for defence: 9 April 2018 at (time of day): 13:00 Place: Auditorium A, Aarhus Universitetshospital, Palle Juul-Jensens Boulevard 99, 8200 Aarhus

Press release (Danish)

Ny viden skal være med til at kortlægge danske narkotikahandelsnetværk

Sammenligning af kemiske profiler er en udbredt praksis i retskemisk øjemed. Analyserne er populære blandt politiet, da de kan levere objektive beviser for slægtskabet imellem forskellige beslaglæggelser af illegale stoffer. I dag rekvireres kemiske profilanalyser primært imellem to eller flere sager, ofte som følge af en konkret mistanke om en sammenhæng sagerne imellem. Perspektiverne for arbejdet med kemiske profilanalyser rækker imidlertid længere end blot disse sag-til-sag sammenligninger. Med strategisk sammenligning er det muligt at opnå viden såsom forhandlernetværk, geografisk distribution og omsætningshastigheder om en større mængde illegale stoffer. Disse informationer kan politiet bruge i deres efterforskning som et supplement til andre typer politimæssig efterretning. Derfor har et nyt ph.d.-projekt fra Aarhus Universitet, Health, blandt andet undersøgt, hvordan stabiliteten af de kemiske profiler ændrer sig over tid, og med udgangspunkt heri, udviklet en metode til statistisk sammenligning af kemiske profiler til brug i strategisk sammenligning, som er uafhængig af eventuel ustabilitet i den kemiske profil. Projektet er gennemført af Louise Stride Nielsen, der forsvarer det d. 9/4 2018.

Forsvaret af ph.d.-projektet er offentligt og finder sted den 9/4 2018 kl. 13:00 i auditorium A, Aarhus Universitetshospital, Palle Juul-Jensens Boulevard 99, 8200 Aarhus. Titlen på projektet er "Advances in comparative analyses of cocaine and amphetamine seizures". Yderligere oplysninger: Ph.d.-studerende Louise Stride Nielsen, e-mail: lsni@forens.au.dk, tlf. 2815 3322.

Bedømmelsesudvalg:
Johan Dahlén, Associate Professor, Department of Psysics, Chemistry and Biology, Linköping University, Sverige.
Jan Baumbach, Chair of Experimental Bioinformatics, TUM School of Life Sciences Weihenstephan, Technical University of Munich, Tyskland.
Marianne Glasius, Associate Professor, Institut for Kemi, Aarhus Universitet, Danmark.

Press release (English)

New knowledge will help map Danish illegal drug trafficking

Comparative analyses of chemical profiles are widely used in forensic examinations. The analyses are popular among the police as they can provide objective evidence for the relationship between various seizures of illegal drugs. Today, chemical profile analyses are mainly requested for two or more cases based on a specific suspicion of a connection between the cases. The perspectives for the chemical profile analyses can, however, go beyond the scope of either rejecting or confirming relations between cases. Chemical profile analyses can also be applied in a strategic setting in order to obtain intelligence that can help police investigators obtain better understanding of the illegal drug trafficking market. A

new PhD project from Aarhus University, Health, has therefore investigated the stability of the chemical profiles over time and with this knowlegde, developed a method for statistical comparative analysis that are independent of potential instability of the chemical profiles. This method is to be applied in strategic comparisons in Denmark in the future. The project was carried out by Louise Stride Nielsen, who is defending her dissertation on 9/4 2018.

The defence is public and takes place on 9/4 2018 at 13:00 in auditorium A, Aarhus University Hospital, Palle Juul-Jensens Boulevard 99, 8200 Aarhus. The title of the project is "Advances in comparative analyses of cocaine and amphetamine seizures". For more information, please contact PhD student Louise Stride Nielsen, email: lsni@forens.au.dk, Phone +45 2815 3322.

Assessment committee:
Johan Dahlén, Associate Professor, Department of Psysics, Chemistry and Biology, Linköping University, Sweden.
Jan Baumbach, Chair of Experimental Bioinformatics, TUM School of Life Sciences Weihenstephan, Technical University of Munich, Germany.
Marianne Glasius, Associate Professor, Department of Chemistry, Aarhus University, Denmark.

Permission

By sending in this form:

- I hereby grant permission to publish the above Danish and English press releases as well as any submitted photo.
- I confirm that I have been informed that any applicable inventions shall be treated confidentially and shall under no circumstances whatsoever be published, presented or mentioned prior to submission of a patent application, and that I have an obligation to inform my head of department and the university's Patents Committee if I believe I have made an invention in connection with my work. I also confirm that I am not aware that publication violates any other possible holders of a copyright.