NEXS ANTI-DOPING SYMPOSIUM
11 November – 13 November

Comwell Holte
Kongevejen 495A, 2840 Holte, Denmark

ORGANIZERS:
Assoc. Professor Nikolai Nordsborg, University of Copenhagen
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Travel grants supported by:
# NEXS ANTI-DOPING SYMPOSIUM PROGRAM

## Day 1 – Monday 11 November, 2019

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<th>Time</th>
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<td>09.00-09.15</td>
<td><strong>Opening remarks</strong></td>
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<td>09.15-10.15</td>
<td><strong>An integrative omics solution</strong></td>
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<td></td>
<td>Prof. Yannis Pitsiladis, Sport and Exercise Science, School of Sport and Service Management, University of Brighton, UK</td>
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<td>10.15-10.30</td>
<td><strong>Break</strong></td>
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<td>10.30-11.15</td>
<td><strong>Metabolomics</strong></td>
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<td>Assis. Prof. Angelo D’Alessandro, Dept. of Biochemistry and Molecular Genetics, University of Colorado, USA</td>
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<td>11.15-12.00</td>
<td><strong>Ironomics</strong></td>
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<td>Dr. Nicolas Leuenberger, Swiss Laboratory for Doping Analyses, CH</td>
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<td>12.00-12.30</td>
<td><strong>Panel discussion</strong></td>
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<td>12.30-13.30</td>
<td><strong>Lunch</strong></td>
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<td>13.00-13.30</td>
<td><strong>Flow Cytometry (tentative)</strong></td>
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<td>Prof. Jan Pravsgaard Christensen, Dept. of Immunology and Microbiology, University of Copenhagen, DK</td>
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<td>13.30-14.00</td>
<td><strong>Data mining</strong></td>
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<td>Prof. Rasmus Bro, Dept. of Food Science, University of Copenhagen, DK</td>
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<td>14.00-14.30</td>
<td><strong>Break</strong></td>
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<td>14.30-15.15</td>
<td><strong>Single cell transcriptomics</strong></td>
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<td>Assoc. Prof. Jen-Tsan Ashley Chi, Dept. of Molecular Genetics and Microbiology, Duke University, USA</td>
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<td>15.15-15.45</td>
<td><strong>Panel discussion</strong></td>
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<td>16.00-18.00</td>
<td><strong>Social networking</strong></td>
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Day 2 – Tuesday 12 November, 2019

09.00-09.15  Opening remarks

09.15-10.15  Mammalian erythropoiesis
Prof. Merav Socolovsky, Dept. of Molecular, Cell and Cancer Biology, University of Massachusetts Medical School, USA

10.15-10.30  Break

10.30-11.15  Age distribution of the red blood cell population
Assoc. Prof. John M. Higgins, Dept. of Systems Biology, Harvard Medical School, USA

11.15-12.00  Current Status and Future of ESAs (tentative)
Dr. Steve Elliot, Scientific Advisory Board Member, Partnership for Clean Competition

12.00-12.30  Panel Discussion

12.30-13.30  Lunch

13.00-13.30  Anabolic steroids misuse
Prof. Caroline M. Kistorp, Dept. of Medical Endocrinology, Copenhagen University Hospital, DK

13.30-14.00  Beta2-agonist and glucocorticoids
Assoc. Prof. Morten Hostrup, Dept. of Nutrition, Exercise & Sports, University of Copenhagen, DK

14.00-14.30  Break

14.30-15.15  Athlete talk

15.15-15.45  Closing remarks

16.00-18.00  Senior Scientist Copenhagen Tour & Dinner // PhD journal club
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Day 3 – Wednesday 13 November, 2019

09.00-09.15  Opening remarks

09.15-10.15  Blood volume regulation
Prof. Carsten Lundby, Inland Norway University of Applied Sciences, NO

10.15-10.30  Break

10.30-11.15  Volume regulation
Prof. Michael Sawka, School of Biological Sciences, Georgia Institute of Technology, USA

11.15-12.00  Detecting blood volume manipulation
Assoc. Prof. Nikolai Nordsborg, Dept. of Nutrition, exercise & Sports, University of Copenhagen, DK

12.00-12.30  Panel Discussion

12.30-13.30  Lunch

13.30-14.00  The Athlete Biological Passport
Dr. Reid Aikin, Athlete Biological Passport Manager, World Anti-Doping Agency

13.30-14.00  Anti-Doping Science (tentative)
Dr. Jakob Mørkeberg, Senior Science Manager, Anti-Doping Denmark, DK

14.00-14.30  Break

14.30-15.15  The Future of Human Performance & Anti-Doping; Discussion

15.15-15.45  Closing remarks