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Executive Summary

In this document, we report the organization of the 4th U-PGx Personalized Medicine Day in Stockholm, Sweden. The document describes the approach that has been undertaken for the organization of the event, that includes the selection of the theme of the event and the topics to be discussed in the scientific program, the invitation of the speakers and moderators, the organization of the local logistics details of the event, such as the reservation of local accommodation, conference hall, catering and restaurant for the speakers' dinner, the setting up of the website, the overall advertisement of the event and the online registration form.

Introduction

The U-PGx Personalized Medicine Days are dissemination activities of the U-PGx project, aimed to raise awareness about pharmacogenomics and the U-PGx project in particular among healthcare professionals and biomedical scientists. These scientific events are held in the cities of partner organizations, particularly those of the 7 clinical implementation sites of the U-PGx project and are co-organized by the Golden Helix Foundation and the local partner, each time as the local co-organizer. These events are international educational scientific meetings, aiming to provide timely updates on the field of pharmacogenomics and personalized medicine to the local biomedical scientists, healthcare providers and biomedical students, to educate and inform them on the application of pharmacogenomics in modern medical practice, and to bring together faculty members from universities and research institutes from the local scientific arena working in the field of pharmacogenomics in order to initiate collaborative projects in this field to the benefit of society.

Description of the 4th U-PGx Personalized Medicine Day

The 4th U-PGx Personalized Medicine Day, part of a series of dissemination events for healthcare professionals and biomedical scientists that are being organized by the U-PGx project has been successfully organized on Monday June 18th, 2017 in Stockholm, Sweden in the STRIX Lecture hall of the Karolinska Institutet.

There were 84 registered participants and speakers coming mostly from Stockholm but also from other cities in Sweden and other countries in Europe. A dedicated website was



set for this conference (**Figure 1**), where information about the venue, the organizing and scientific committees and invited speakers, as well as the scientific program was available. Online registration was also available from the same website.

U-PGx | Ubiquitous Pharmacogenomics

The 4th U-PGx Personalized Medicine Day will be organized in Stockholm, Sweden. The meeting will be co-organized from the Golden Helix Foundation and the Karolinska Institutet, both partners of the Ubiquitous Pharmacogenomics (U-PGx) project, funded by the European Commission (H2020-668353). The meeting will be held in the **STRIX lecture hall** (address: von Eulers väg 4, Karolinska Institutet 171 65 Solna).

This international event is open for clinical pharmacologists, hospital pharmacists, general pharmacists, specialists, general practitioners, medical students, laboratory technicians, regulators, healthcare insurers and others interested in pharmacogenomics.

On behalf of the Organizing Committee

Co-organized by:

Funded by:

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Figure 1. Overview of the 4th U-PGx Personalized Medicine Day, where information about this conference was available.

Several partners of the U-PGx project gave lectures, such as Prof. Matthias Schwab (Stuttgart, DE), who gave the keynote lecture, Prof. Henk-Jan Guchelaar (Leiden, NL), Prof. Magnus Ingelman-Sundberg (Stockholm, SE), Dr. Siv Jönsson (Uppsala, SE) and Prof. George P. Patrinos (Patras, GR), while other renowned scientists in the field, such as Prof. Ingolf Cascorbi (Kiel, DE), Prof. Erik Eliasson (Stockholm, SE), Dr. Marin Jukic (Stockholm, SE), Prof. Richard Rosenquist (Stockholm, SE) and Prof. Julia Stingl (Bonn, DE) also gave interesting lectures.

The conference started with the welcome addresses from Prof. Magnus Ingelman-Sundberg, who was the chairman of the Organizing Committee.

The 1st session in the morning, that was co-chaired by Dr. Siv Jönsson (Uppsala, SE) and Prof. Magnus Ingelman-Sundberg (Stockholm, SE) started with the lecture of Prof. Henk-Jan Guchelaar (Leiden, NL), who gave a very nice overview of the U-PGx project, its overall

goals and objectives and some preliminary outcomes. The next lecture was delivered by Prof. Erik Eliasson (Stockholm, SE), who presented how pharmacogenomics is currently being implemented at the Karolinska Institutet with some examples of its successful implementation.

Prof. Matthias Schwab (Stuttgart, DE) gave the keynote lecture, addressing some key aspects of pharmacogenomics and its role in Precision medicine, how the different omics disciplines hold promise for a more holistic view of drug treatment individualization and what are the obstacles to implement pharmacogenomics in the clinic.

The last talk of the morning (1st) session was delivered by Prof. Julia Stingl (Bonn, DE; **Figure 2**), who gave the overall regulatory perspective of pharmacogenomics, how regulatory decisions are being made at the European Medicines Agency Pharmacogenomics Working Party and how this smoothens the clinical implementation of pharmacogenomics.

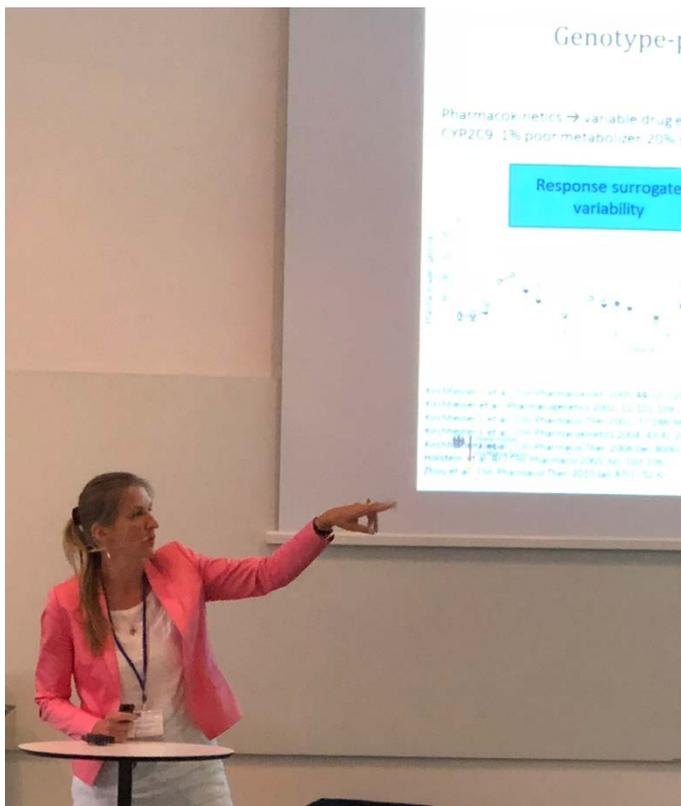


Figure 2. Prof. Julia Stingl (Bonn, DE) giving a talk at the 4th U-PGx Personalized Medicine Day.

After the lunch break, the afternoon session, co-chaired by Prof. Magnus Ingelman-

Sundberg (Stockholm, SE) and Prof. George P. Patrinos (Patras, GR), has started with the state-of-the-art lecture of Prof. Magnus Ingelman-Sundberg (Stockholm, SE), who addressed a very timely topic of how rare variants in pharmacogenes can be identified by next-generation sequencing, what is their role in clinical pharmacogenomics and how these can be used for the production of clinical guidelines, based on their potential effect in the overall drug metabolism. The next talk was delivered by Prof. George P. Patrinos (Patras, GR), who touched upon the ways information technology can play a role in pharmacogenomics, particularly in the generation of web-based databases and translational tools that help translate pharmacogenomics information into a clinically meaningful format. Next, Prof. Ingolf Cascorbi (Kiel, DE) gave an overview of application of pharmacogenomics in oncology, focusing in particular on the genomics and epigenomics of TKI function.

After the tea break, Dr Marin Jukic (Stockholm, SE) presented some case examples of pharmacogenomics in central nervous system diseases, and the use of animal models in these diseases. The last talk of the 2nd session was delivered by Prof. Richard Rosenquist Brandell (Stockholm, SE) who presented the main features of the project “Genomic Medicine Sweden” and how pharmacogenomics is currently included in this major and ambitious project.



Figure 3. Participants and overview of the lecture hall of the 4th U-PGx Personalized Medicine Day.

Lastly, Prof. Magnus Ingelman-Sundberg (Stockholm, SE) moderated a round-table discussion, in which Professors Henk-Jan Guchelaar (Leiden, NL), George P. Patrinos (Patras, GR), Matthias Schwab (Stuttgart, DE), Ingolf Cascorbi (Kiel, DE), Erik Eliasson (Stockholm, SE), and Richard Rosenquist (Stockholm, SE) participated. Prior to the start of the roundtable discussion, Prof. Ron H. van Schaik, Rotterdam, NL), Chairman of the European Society of Pharmacogenomics and Personalised Therapy (ESPT) presented the aims and goals of the Society. The panelists engaged into lively discussions with all participants (**Figure 3**) with



whom they discussed various issues related to the clinical implementation of pharmacogenomics, the bottlenecks that clinicians often face, the ethical legal and societal issues that relate to pharmacogenomics and most importantly how the healthcare professionals perceive the role of this new discipline, what is the role and stance of the general public and how the various stakeholders approach this new discipline, particularly as far as pharmacogenomic test reimbursement is concerned.

As with every U-PGx Personalized Medicine Day, the scientific program was printed in the usual format adopted for the previous meetings, aiming to assign a specific brand for these events. Also, the event was advertised in social media and sent through various mailing lists (both local and international).

Summary/Conclusions

Overall, the 4th U-PGx Personalized Medicine Day was successfully organized in Stockholm, Sweden. All participants were extremely satisfied and provided a very positive and useful feedback, while the general impression was that this was the most successful event from all U-PGx Personalized Medicine Days organized so far. This was mainly due to the contribution of the local organizing partner (led by Prof. Magnus Ingelman-Sundberg). The local organizer always plays a key role in such events, which are focused on the local scientific community.