

## The HEAP project Symposium 2024

### “Humanity and the environment: Moving exposome research from information to action”

Day 1 – Research infrastructures and data: Advancing knowledge on the environment and our health

#### Mon 27 May

|                                               |                                                                             |                                                              |
|-----------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------|
| 08:30–09:00                                   | Arrival at the IARC Nouveau Centre and registration                         |                                                              |
| 09:00–09:30                                   | Tour of the IARC biobank                                                    | Zisis Kozlakidis, IARC                                       |
| 09:30–09:45                                   | Welcome to IARC and opening remarks                                         | Joakim Dillner, KI<br>Zisis Kozlakidis, IARC                 |
| 09:45–10:15                                   | European exposome research infrastructures                                  | Jana Klanova, EIRENE                                         |
| <b>Session 1: Exposome data</b>               |                                                                             | <i>Roxana Merino Martinez. KI</i>                            |
| 10:15–11:00                                   | Personal exposometers for monitoring the environment                        | Allison Zhang, Stanford University/KI                        |
| 11:00–11:15                                   | <i>Tea/coffee break</i>                                                     |                                                              |
| 11:15–12:00                                   | DNA methylation in cancer prevention – opportunities and challenges         | Martin Widschwendter, Chiara Herzog, University of Innsbruck |
| 12:00–12:45                                   | The Consumer exposome - Consumer purchase data (CPD) and chronic disease    | Frederik Trier Møller, Statens Serum Institut                |
| 12:45–13:45                                   | <i>Lunch in IARC cafeteria</i>                                              |                                                              |
| <b>Session 2: The HEAP Platform in action</b> |                                                                             | <i>Zisis Kozlakidis, IARC</i>                                |
| 13:45–14:30                                   | International collaboration in comprehensive exposome research              | Ville Pimenoff, University of Oulu/KI                        |
| 14:30–15:15                                   | Overview of the HEAP data management and analysis platform                  | Jim Dowling, Hopsworks                                       |
|                                               | HEAP use case – Biopipe - Parallel computing and classification of cancers  | Sara Arroyo Muhr, KI                                         |
| 15:15–15:30                                   | <i>Tea/coffee break</i>                                                     |                                                              |
| 15:30–17:00                                   | Plenary session “From Information to Action“ The impact of the HEAP project | Roxana Merino Martinez/<br>Joakim Dillner, KI                |

### DAY 2 – EXPOSOME RESEARCH: ETHICS, LAW AND FUTURE PERSPECTIVES

#### Tues 28 May

|                                                              |                                                                                                                    |                                                                                |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 08:45–09:15                                                  | Arrival at the IARC Nouveau Centre and registration                                                                |                                                                                |
| 09:15–09:30                                                  | Welcome and opening remarks                                                                                        | Joakim Dillner, KI, Evert-Ben van Veen, Lygature                               |
| <b>Session 1: Exposome research and public health ethics</b> |                                                                                                                    | <i>Evert-Ben van Veen</i>                                                      |
| 09:30-09:35                                                  | Introduction                                                                                                       | Evert-Ben van Veen, Lygature                                                   |
| 09:35–09:50                                                  | EU wide scan of ethical and legal topics in exposome research: results of the EHEN Working Group on ethics and law | Daniel Groos, Lygature                                                         |
| 09:50-10:15                                                  | Exposome research, public health and health equity                                                                 | Sammie Jansen, RIVM/Wageningen University                                      |
| 10:15-10:35                                                  | <i>Tea/coffee Break</i>                                                                                            |                                                                                |
| 10:35–11:00                                                  | The Poison of Health Equity: On Mission Creep in Public Health                                                     | Caspar Safarlou, UMC Utrecht                                                   |
| 11:00–11:30                                                  | Discussion                                                                                                         |                                                                                |
| <b>Session 2: Governance of research projects</b>            |                                                                                                                    | <i>Olenka van Ardenne</i>                                                      |
| 11.30-11.35                                                  | Introduction                                                                                                       | Olenka van Ardenne, Lygature                                                   |
| 11.35–11.55                                                  | Open science and cross border research: new models of governance                                                   | Daniel Groos/Evert-Ben van Veen, Lygature                                      |
| 11:55–12:20                                                  | Stakeholder engagement – working with study participants                                                           | Ingrid Leib, Tamara Schmid. Lifestyle study team, University of Innsbruck      |
| 12.20–12:40                                                  | The European Health Data Space (EHDS) and exposome research                                                        | Melvin Thomas, TMF Berlin (technology platform for networked medical research) |
| 12.40–13.40                                                  | <i>Lunch in IARC cafeteria</i>                                                                                     |                                                                                |
| 13:40–14:00                                                  | Impact of the European Health Data Space (EHDS) and cross-border research                                          | Evert-Ben van Veen, Lygature<br>Artur Rocha, INESC TEC                         |
| 14.00–14:30                                                  | Discussion                                                                                                         |                                                                                |



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#### Session 3: Future enablers of exposome research

*Joakim Dillner*

|             |                                                         |                                                              |
|-------------|---------------------------------------------------------|--------------------------------------------------------------|
| 14:30–14:50 | International biobanking and Exposome research          | Wagida Anwar, Ain Shams University<br>Zisis Kozlakidis, IARC |
| 14.50–15:10 | Perspectives on environmental exposure and human health | Isabella Annesi-Maesano, Montpellier University<br>Hospital  |
| 15.10–15.30 | <i>Tea/coffee break</i>                                 |                                                              |
| 15:30–15.45 | Long-term outlook of HEAP IT tools                      | Stefan Negru, CSC – IT Center for Science                    |
| 15:45–16.00 | International Human Exposome Network (IHEN) Cost Action | Martine Vrijhied, IS Global<br>Zisis Kozlakidis, IARC        |
| 16:00–16.30 | Plenary session on sustainability                       | Joakim Dillner, KI                                           |
| 16:30-16:45 | Closing remarks                                         | Joakim Dillner, KI                                           |



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MEMBER OF THE  
European Human Exposome **NETWORK**