<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Location</th>
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<tr>
<td>08:30</td>
<td>Registration and welcoming coffee (N. Mandela Room)</td>
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<tr>
<td>09:10</td>
<td>Opening conference (Aula A)</td>
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| 09:25 | Plenary I (Aula A)                                                                                | Albert Van den Berg (UTwente, NL)  
                      | “From Lab on a Chip to Organs on Chip”                                                            |                  |
| 09:25 | Parallel sessions 1                                                                              |                  |
|       | **Aula B**                                                                                        | **Aula C**        | **Aula D** |
| 10:10 | O1                                                                                               | O11               | O21        |
| 10:30 | O2                                                                                               | O12               | O22        |
| 10:50 | O3                                                                                               | O13               | O23        |
| 11:10 | Coffee break (N. Mandela Room)                                                                     |                  |
| 11:35 | Keynote I                                                                                        | Keynote II        | Keynote III |
|       | Tim Stakenborg (IMEC)                                                                            | Stéphanie Descroix (Institut Curie, FR) | David Cannella (ULB) |
| 12:05 | O4                                                                                               | O14               | O24        |
| 12:25 | O5                                                                                               | O15               | O25        |
| 12:45 | O6                                                                                               | O16               | O26        |
| 13:05 | Lunch and poster session 1 (N. Mandela Room)                                                      |                  |
| 14:05 | Plenary II (Aula A)                                                                               | Lucia Smit (Braingain)  
                      | “How to manage your career as a PhD: challenges and opportunities”                           |                  |
| 14:40 | Parallel sessions 3                                                                              |                  |
|       | **Aula B**                                                                                        | **Aula C**        | **Aula D** |
| 14:40 | O7                                                                                               | O17               | O27        |
| 15:00 | O8                                                                                               | O18               | O28        |
| 15:20 | O9                                                                                               | O19               | O29        |
| 15:40 | O10                                                                                | O20               | O30        |
| 16:00 | Coffee break and poster session 2 (N. Mandela Room)                                               |                  |
| 17:00 | Plenary III (Aula A)                                                                              | Frédéric van Gansberghe (Galactic sa/nv)  
                      | “And now, what’s next?”                                                                          |                  |
| 17:30 | Closing remarks and awards (Aula A)                                                                |                  |
| 17:45 | Networking reception (N. Mandela Room)                                                             |                  |
Oral presentations parallel sessions (speaker, institution and title presentation)

**Plenary**

I. Albert Van den Berg (UTwente, NL). From Lab on a Chip to Organs on Chip.  
chair: Wim De Malsche (VUB)

II. Lucia Smit (Braingain). How to manage your career as a PhD: challenges and opportunities.  
chair: Kris Pauwels (VUB)

III. Frédéric van Gansberghe (Galactic sa/nv). And now, what’s next?  
chair: Benoit Scheid (ULB)

**Chemistry and Chemical Engineering**

chair: Julien Cousin-Saint-Remi (VUB)


**Agriculture and Food Technology I**

chair: Christian Hermans (ULB)


O4. Julie Vanderstraeten (UGent). Designer cellulosics for a customized conversion of lignocellulosic biomass to valuable bulk and fine chemicals.

**Agriculture and Food Technology II**

chair: Barbara De Conink (KUL)

O7. Elien Lemmens (KUL). The impact of controlled steeping and germination of wheat on hydrolysis of phytate and arabinoxylan and on mineral bio-accessibility.
O8. Inga Tarasenko (UCL). The immediate response of tomato and rice to tephra deposition: an experimental study.
O9. Marie Vandermies (ULg). Catabolic selectable marker eases genome editing in Yarrowia lipolytica.
Biomathematics

chair: Dominique Maes (VUB)

Human Health I

chair: Mariya Petrova (KUL)
Keynote II. Stéphanie Descroix (Institut Curie, FR). Microfluidics for biomimetism : from 3D co-culture to gut on chip.
O15. Gaétan Kalala (ULg). Effect of a diet rich in prebiotic fibers of inulin type and behavior on intestinal health in obese patients in an human in vitro fermentation patterns

Human Health II

chair: Kris Pauwels (VUB)

Environment I

chair: Chris Callewaert (UGent)
O22. Rosanne Reitsema (UA). Effects of climate change on macrophyte growth, biomass allocation, physiology and nutrient stoichiometry.
**Environment II**

chair: Jelle Hofman (UA)


O30. Myrsini Sakarika (UA). Bridging resource recovery to reuse: microbes as next-generation fertilizer.

**Key-enabling Technologies**

chair: Benoit Scheid (ULB)


O24. Pauline Herpels (KUL). Photoreactive crosslinking reveals novel direct interaction partners of the persister regulator OBG.


**Poster presentations** (speaker, institution and title presentation)

Uneven numbers – Poster Session 1  
Even numbers – Poster Session 2

**Chemistry and Chemical Engineering**

P3. Martyna Baca (VUB). Achieving a peak capacity of 1500 using an 8m long chromatographic chip.  

**Agriculture and Food Technology**


P21. Els Debonne (UGent). Assessment of the antifungal preservation potential of natural water or oil soluble compounds in both in-vitro and bread baking trials.

P22. Catherine Mermans (UGent). A G326E substitution in the glutamate-gated chloride channel 3 (GlUCl3) of the two-spotted spider mite Tetranychus urticae abolishes the agonistic activity of macrocyclic lactones.


P24. Willy Irakoze (UCL). Comparative effects of chloride and sulfate salinities on two contrasting rice cultivars (Oryza sativa L.) at the seedling stage.


P32. Rayangnéwendé Adèle Ouédraogo (UCL). Evaluation de différentes formulations de composts associées ou non au Trichoderma et aux champignons mycorhiziens arbusculaires sur le rendement de la tomate (Solanum lycopersicum) et sur le sol en conditions semi-contrôlées.


P34. Manon Demulder (VUB). Chemical inhibitors of the SOG1 transcription factor to promote aluminium tolerance in maize and barley.

P35. Anne-Sophie Mathieu (UCL). Impact of high temperatures on sugar metabolism and yield in Cichorium intybus L. var sativum.

P36. Marie Vandermeers (ULg). Versatile regulated promoter for Yarrowia lipolytica.

P37. Alexis Fernandez (ULg). Does pearling process concentrate β-Glucans in barley grain?

P38. Amaury Gérard (ULg). What is the landscape of artisanal cheese production in Belgium?

P39. Hassina Hafida Boukhalfa (Mohamed Khider University – Biskra, Algeria). Improvement of spray retention on barley leaves.

P40. Quentin Rivière (ULB). Role of the circadian clock in the response of the plant-model Arabidopsis thaliana to magnesium deficiency.

P41. Soundous El-Hajjaji (ULg). Inventory of the raw milk butter production in Wallonia (Belgium).

P42. Amaury Gérard (ULg). Study of the growth potential of Listeria monocytogenes in cheeses made by Belgian farmers.

P43. Phuc Le Ho (KUL). Change of electrolyte leakage of dragon fruit (Hylocereus undatus) during storage.

P44. Reda Melhaoui (Université Mohammed Premier Oujda, Maroc). Tocopherol analysis in almond oils produced in eastern Morocco.
P45. Ali Sedaghat Doost (ULg). Fabrication of thymol nano-emulsions as a potential natural antioxidant.

P46. Kahramen Deghnouche (Mohamed Khider University – Biskra, Algeria). Inventory and study of the nutritional value of spontaneous forage plants in an arid region of Algeria.

P47. Fingu Mabola Junior Corneille (ULg). Impact of endophytic entomopathogenic fungus on plant attractiveness in aphid-virus-plant interactions.


P49. Kahramen Deghnouche (Mohamed Khider University – Biskra, Algeria). Evaluation of growth performance Ouled Djellal lambs according to sex, size of the litter and the parity in a semi-arid region of Algeria.


Biomathematics

P51. Floris Dalemans (KUL). A prediction model for the seed and oil yield of Pongamia pinnata.

P52. Gleb Goussarov (UGent). Whole Genome Statistics for Comparing Bacterial Strains.

P53. Nicolas Dierckxsens (ULB). Targeted assembly and variance calling from whole genome data.


Human Health

P59. Jone Paesmans (VUB). Revealing the function of TBC1D24 mutations in epilepsy and related neurological diseases.

P60. Jose C. Jimenez-Lopez (EEZ – CSIC, Spain). Blue lupin seed β-conglutin proteins reverse back the induced insulin resistance in pancreatic cells.


P63. Mate Kiss (VUB). Non-canonical IL-1β release by myeloid cells promotes tumor progression and resistance to immunotherapy.

P64. Evangelia Bolli (VUB). Nanobody-based depletion of protumoral tumor-associated macrophages as novel cancer therapy.


P68. Shahbaz Bashir (KUL). Quantification of immune response in skin swelling test using an image-based platform.
P69. Ana Rita Pombo Antunes (UGent). Dissecting the heterogeneity and functions of the glioblastoma immune compartment.

P70. Laure Verstraete (KUL). In vitro and in vivo identification of persisters determinants in natural and clinical Pseudomonas aeruginosa strains.


P72. Bram Lories (KUL). Responses to ecological competition link biofilm formation, virulence and antibiotic resistance in Salmonella.

P73. Mieke De Buck (KUL). COOH-terminal SAA1 peptides fail to induce chemokines but synergize with CXCL8 and CCL3 to recruit leukocytes via FPR2.

P74. Helena Van Damme (VUB). The CCL8/CCR8 axis maintains an immunosuppressive tumor microenvironment.

P75. Hanne Vissenkaeckens (UGent). Cellular quercetin uptake, localization and metabolism under stressed conditions.

P76. Khaoula Toumi (ULg). Assessment of exposure of workers to pesticide residues in tomato greenhouses.

P77. Hassina Hafida Boukhalfa (Mohamed Khider University – Biskra, Algeria). Operator exposure risks in phytosanitary practices, case of Biskra – Algeria.

P78. Sara Abouelasrar Salama (KUL). Proteolytic cleavage of serum amyloid A (SAA) 1 by matrix metalloproteinases fine-tunes the inflammatory capacity of this acute phase protein.

Environment

P79. Hassan Maklad (VUB). Phosphorylation of the TetR transcription factor FadR in the archaeon Sulfolobus acidocaldarius affects its ligand binding ability.


P82. Hui Xu (UGent). Greater contribution of belowground than aboveground maize biomass to the stable soil organic carbon pool.

P83. Michiel Maertens (KUL). The impact of vegetation changes on soil moisture over the Dry Chaco

P84. Tess Goessens (UGent). Environmental screening of multi-class antimicrobial drug residues in salt and fresh water ecosystems using targeted and untargeted high resolution mass spectrometry.


P88. Gilles Olive (Ecole Industrielle et Commerciale de la Ville de Namur). Can Medauroidea extradentata (Brunner von Wattenwyl, 1907) and/or Haaniella echinata (Redtenbacher, 1906) (Phasmatodea: Phasmatidae) help us to fight Fallopia japonica ((Houtt.) Ronse Decr., 1988)?

P89. Tri Truong (UGent). Development a water monitoring system based on biological indicators with Ben Tre river system - the latest branch of Mekong River Basin before going to the sea.

P90. Kamilia Farhi (Mohamed Khider University – Biskra, Algeria). Estimation of the Black bellied sandgrouse group’s size in watering site in South-East of Algeria.
P91. Elena Borregán Ochando (UA). Incorporating the USEPA’s “CompTox” dashboard and the “ForIdent” platform in workflows for the identification and preliminary assessment of organic emerging micropollutants in water.

P92. Marlies Volckaert (UGent). Supply chain of forest products supported by spatial information systems.


P94. Edelbis López Dávila (UGent). Pesticides knowledge and use by Cuban farmers from Sancti Spíritus regions.

**Key-enabling Technologies**

P95. Fréderick Matheuse (VUB). Liquid Chromatography and advanced 3D printing: a match made in heaven?


P98. David Sybers (VUB). Development of fluorescent reporters for thermoacidophilic archaea


P100. Bernd Peeters (KUL). AuNP-labelled FO-SPR sensors to develop innovative DNAzyme-based bioassay concepts.


P102. Laura Alaimo (UMons). Collective cell migration in geometric confinements imposed by microchannels.

P103. Dries Vloemans (KUL). Integration of passive SAT-based heating system on POC microfluidic (i)SIMPLE platform.

P104. Iene Rutten (KUL). DNA origami nano-architectures for well-defined and robust biosensing interfaces.


P106. Steve Schoonooghe (VUB). Nanobodies: from research tools to diagnostics & therapeutics.