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Plant breeding innovations are unlocking the future of food security and biodiversity protection.

## Welcome Message

It is our great pleasure to welcome you to ISBR 2025 - our 17<sup>th</sup> ISBR Symposium in the beautiful town of Ghent.

The Symposium features a diverse lineup of outstanding keynote and plenary speakers, complemented by multiple in-depth parallel sessions and workshops, as well as Pecha Kucha and poster sessions. You will experience a broad program that explores many aspects of the development and use of biotechnologies for sustainable development, ranging from the latest scientific discoveries in plant, animal and microbial research through to communicating with the public and addressing global regulatory challenges. We aim to provide new insights, raise awareness of challenges related to the adoption of new technologies and propose solutions on how to best advance the application of bio-innovation. The involvement of experts from different stakeholder groups including academia, government bodies, technology developers and users, as well as risk assessors and regulators, is key to this endeavour and again features at this symposium.

Many people have been involved in organizing the symposium and developing the program. I would like to thank all of them for their hard work and our numerous sponsors for their generous support of our activities. Most importantly, I would like to thank you as registrants for your participation. In addition to the structured scientific program, I hope you will also find time to engage informally, learn from each other's experiences, and catch up with old friends or make new ones.

Let's all work together to make the 17<sup>th</sup> ISBR Symposium another memorable success!



Joerg Romeis
President ISBR



Jennifer Anderson Program Committee Chair



Marc Heijde Local Organizing Committee Chair



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#### DIAMOND









#### **PLATINUM**





#### **GOLD**









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CropLife Europe is committed to expanding the farmer's toolbox with cutting-edge agricultural innovations from biopesticides, digital and precision farming to plant biotechnology traits and conventional pesticides. Together they support sustainable and productive farming.

Despite the availability of advanced technologies, excessive regulatory hurdles are preventing farmers from accessing the latest solutions they need to thrive.

To ensure European agriculture remains competitive and resilient, we must streamline regulatory processes that currently hinder innovation from reaching the field.

To this end, we call for:



#### A SCIENCE-BASED AND PREDICTABLE FRAMEWORK

Rules must be proportionate, science- and risk-based, grounded in the latest scientific consensus and designed to be future-proof. Outdated, overlapping or redundant requirements should be removed where they add no safety value.



#### EFFICIENT AND TRANSPARENT PROCESSES

Clear legal timelines and adherence as well as responsibilities and consistent enforcement of existing rules are needed for farmers, innovators and regulators to know what to expect.



#### **TIMELY ACCESS FOR FARMERS**

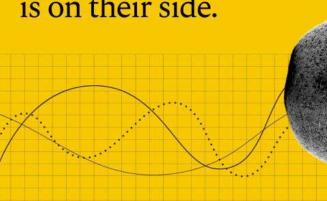
Approval processes should enable timely access to innovative tools so farmers can stay competitive and continue to produce in accordance with the EU's goals.

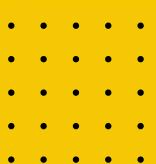
CropLife Europe represents sustainable crop protection solutions: innovative and science-based, our solutions keep crops healthy and contribute to providing Europeanswitha safe, affordable, healthy, and sustainable food supply.

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Farmers are rising to the climate challenge.

Agricultural innovation is on their side.









## **Programme at a Glance**

| Time               | SUNDAY,<br>2 Nov 2025 | MONDAY,<br>3 Nov 2025  | TUESDAY,<br>4 Nov 2025   | WEDNESDAY,<br>5 Nov 2025  | THURSDAY,<br>6 Nov 2025  |  |  |
|--------------------|-----------------------|--|--|---|--|--|--|
| Pre-<br>Morning    |                       |  | REGISTRATION   |   |  |  |  |
|                    |                       | WELCOME & OPENING ADDRESS  |  |   |  |  |  |
| Morning sessions   |                       | Plenary session I:<br>Advancing Public<br>Understanding and<br>Support for Bio-Innovation  | Plenary session II:<br>Exploring Scientific<br>Advancements,<br>Opportunities, and<br>Challenges<br>in Bio-innovation  | Plenary session III:<br>Governance, Policy,<br>and Regulatory<br>Frameworks: Exploring<br>the global landscape<br>and impact on<br>bio-innovation           | Plenary session IV:<br>Enhancing the potential<br>of bio-innovation for a<br>sustainable future  |  |  |
|                    |                       |  | MORNING CO   | OFFEE BREAK   |  |  |  |
|                    |                       | Plenary session I<br>(cont.)   | Plenary session II<br>(cont.)  | Plenary session III<br>(cont.)  | Plenary session IV (cont.)   |  |  |
|                    |                       |  | LUNCH  |   | ** Closing session **  |  |  |
|                    |                       | Parallel Mon 1:<br>Plant Breeding Innovation:<br>Enabling applications<br>and regulatory frameworks<br>(Chair: Raymond Dobert)                         | on implementation of   | Parallel Wed 1: Safety considerations for agricultural microbial products derived from new genomic techniques (NGTs) (Chair: Andrew Roberts, Natasha Dixon) | Join us for a visit at the VIB & BASF facilities or the VIB field trial location! VIB and BASF are offering you an exclusive opportunity to visit some of their facilities on Thursday, Nov 6, 2025. These two tour options are designed to give you |  |  |
|                    |                       | Parallel Mon 2:<br>Coordinating capacity<br>building efforts in<br>biosafety in plant<br>biotechnology for the<br>global south<br>(Chair: Marc Heijde) | Workshop 2:<br>Ethics and evolution<br>workshop: considerations<br>for human intervention;<br>(Organized by<br>Detlef Bartsch,<br>René Custers,<br>Peter Thygesen) | Parallel Wed 2:<br>Strategies for Modernizing<br>Biotechnology Regulatory<br>Frameworks<br>(Chair: Bill Doley)  | a first hand look at how<br>plant biotech research is<br>performed in containment<br>facilities and on the field.  |  |  |
| Afternoon sessions | REGISTRATION          | Parallel Mon 3: Data Transportability of Confined Field Testing: Current status of discussions and future prospects (Chair: Shuichi Nakai)             | Workshop 3:<br>Examples of Regulatory<br>Modernization for<br>GM Crops;<br>(Organized by<br>Abby Simmons)  | Parallel Wed 3: Innovation and modernization on the safety assessment of newly expressed proteins in Genetically Modified (GM) Crops                        |  |  |  |
|                    |                       | · ,  |  | (Chair: Tao Geng)   |  |  |  |
|                    |                       | Parallel Mon 4:<br>Global Status of<br>Animal Biotechnology<br>Regulations<br>(Chair:<br>Alison Van Eenennaam)   | Workshop 4: Al-Driven innovations: Potential for risk analysis in biosafety research (Organized by Pieter Windels)   | Parallel Wed 4: Hands-on experience with Crop Composition Database: A tool used in food and feed safety assessment (Chair: Bhavneet Bajaj)                  |  |  |  |
|                    |                       | Parallel Mon 5: Communicating Complexities and Enhancing Public Support for Bio-Innovation (Chair: David Hudson)                                       |  | Parallel Wed 5:<br>Scientific Advancements,<br>Challenges, and<br>Regulatory Considerations<br>- Genome Editing<br>(Chair: Fan-LI Chou)                     |  |  |  |

| Time      | SUNDAY,<br>02 Nov 2025 | MONDAY,<br>3 Nov 2025  | TUESDAY,<br>04 Nov 2025   | WEDNESDAY,<br>05 Nov 2025   | THURSDAY,<br>6 Nov 2025  |
|-----------|------------------------|--|---|---|--|
|           |                        | AFTERNOON (  | Join us for a visit at the<br>VIB & BASF facilities or<br>the VIB field trial |   |  |
| N.        |                        | Parallel Mon 6:<br>Safe(r) Innovation<br>Approaches – Non-<br>regulatory approaches<br>fostering safety in<br>innovation<br>(Chair: Andrew Roberts,<br>Marco Gielkens) | Workshop 1: Continued   | Parallel Wed 6:<br>Public- Private- Producer<br>perspectives on gene<br>editing innovation (Chair:<br>Stuat Smyth)  | location! VIB and BASF are offering you an exclusive opportunity to visit some of their facilities on Thursday, Nov 6, 2025. These two tour options are designed to give |
|           | Z<br>O                 | Parallel Mon 7: Trends, perspectives and recent developments on streamlining the regulatory assessment of GM stacked trait products (Chair: Miguel Vega-Sanchez)       | Workshop 2: Continued   | Parallel Wed 7: Developments in Gene Drive – Advances in risk assessment, regulatory frameworks and field trial design (Chair: Andrew Roberts)  | you a first hand look at<br>how plant biotech<br>research is performed<br>in containment facilities<br>and on the field.   |
| Afternoon | REGISTRATION           | Parallel Mon 8:<br>Harnessing bio-<br>Innovation: addressing<br>regulation to tackle<br>global challenges (Chair:<br>Marcos Pupin)                                     | Workshop 3: Continued   | Parallel Wed 8:  Design considerations for non-target risk assessment studies – lessons learned from insect resistant GE crops and challenges for new traits and technologies (Chair: Michael Meissle, Christopher Brown) |  |
|           |                        | Parallel Mon 9: Advancing community engagement in gene drive research: Bridging perspectives and practices (Chair: Claudia Emerson)                                    | Workshop 4: Continued   | Parallel Wed 9:<br>Communicating the<br>science of GMOs and<br>emerging biotechnology<br>tools (Chair: Willy Tonui,<br>Rosalia Omungo)  |  |
|           |                        | Parallel Mon 10: Scientific<br>Advancements, Challenges,<br>and Regulatory<br>Considerations -<br>Genetically Modified Crops<br>(Chair: Patrick Rüdelsheim)            |   | Parallel Wed 10:<br>Exploring New Methods,<br>New Technologies, and<br>Scientific Advancements in<br>Bio-Innovation (Chair:<br>Mitscheli Sanches da<br>Rocha)   |  |
| ing       | OME                    | Pecha Kucha 1  | Poster session 2  | 6   |  |
| Evening   | WELCOME                | Poster session 1   | ISBR Members' Meeting   | - Symposium dinner  |  |

ISBR 2025 - Ghent

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## **Detailed Programme**

Sunday | November 2, 2025

18:00-

20:00

Welcome Reception (Sunday, 2nd Nov 2025)

Venue: Ghent ICC, 1st floor

Dress code: Informal

Light snacks, limited drinks, and a cash bar will be available. We encourage you to register early and join this

networking opportunity.



## Monday | November 3, 2025

| 08:00           | Registration  |  |  |   |  |  |
|-----------------|---|--|--|---|--|--|
| 09:00-<br>09:45 |   | Opening session  Jan & Hubert Van Eyckroom   |  |   |  |  |
| 09:00           | Welcome address:  | Joerg Romeis, ISBR Pr  | esident  |   |  |  |
| 09:15           | Opening address: N  | Marc Van Montagu   |  |   |  |  |
| 09:45-<br>13:00 | <b>Plenary 1: Advanci</b><br>Jan & Hubert Van Ey  |  | ing and Support for I  | <b>Bio-Innovation</b> (Chair:   | : Fan-Li Chou )  |  |
| 09:45           | Opening remarks: I  | Fan-Li Chou  |  |   |  |  |
| 09:50           | <b>Keynote 1: Julie Bo</b><br>Through Effective Co  | -  | Dialogue: Building Su  | pport for Biosciences   |  |  |
| 10:35           | Plenary 1.1: Germa<br>Insights from Resear  | •  | ublic Trust and Suppor   | t for Bio-Innovation:   |  |  |
| 11:05-<br>11:30 |   | MORNING  | COFFEE BREAK   |   |  |  |
| 11:30           | -   | <b>u Takahara</b> - Initiative:<br>gricultural Genome Edi  | s for Science Commun<br>ting   | ication in Japan to Fo  | ster Public  |  |
| 12:00           | Plenary 1.3: Reynar   | nte Ordonio - Accelera   | ating Philippine Moder   | rn Biotechnology: A F   | ocus on Innovation   |  |
| 12:30           | <b>Plenary 1.4: Zachar</b> vs permanent poten   | -  | rception of gene drive   | e research in terms of t  | temporary  |  |
| 13:00           | Introduce the ABSTO   | C-ISBR Scholarship awa   | irdees (ABSTC & Joerg  | g Romeis)   |  |  |
| 13:10-<br>14:00 |   | L  | UNCH   |   |  |  |
|                 | Jan & Hubert<br>Van Eyckroom  | Guislainroom 1   | Baekeland 2  | Baekeland 3   | Baekeland 1  |  |
| 14:00-<br>15:30 | Parallel Mon 1:<br>Plant Breeding<br>Innovation: Enabling<br>applications and<br>regulatory<br>frameworks                         | Parallel Mon 2:<br>Coordinating<br>capacity building<br>efforts in biosafety in<br>plant biotechnology<br>for the global south | Parallel Mon 3: Data<br>Transportability of<br>Confined Field<br>Testing: Current<br>status of discussions<br>and future prospects     | Parallel Mon 4:<br>Global Status of<br>Animal<br>Biotechnology<br>Regulations             | Parallel Mon 5:<br>Communicating<br>Complexities and<br>Enhancing Public<br>Support for Bio-<br>Innovation                   |  |
| 14:00           | Raymond Dobert<br>Introduction  | Marc Heijde<br>Introduction  | Shuichi Nakai<br>Introduction  | Alison Van<br>Eenennaam<br>Introduction   | David Hudson<br>Introduction   |  |
| 14:05           | Genetic Diversity in<br>Plant Breeding in the<br>Context of Breeding<br>Methods and Time-<br>scales, <b>Rod</b><br><b>Snowdon</b> | Evolution of<br>Biotechnology and<br>Biosafety Regulatory<br>Frameworks in East<br>Africa, <b>Anne Muia</b>                    | Data Transportability in Argentina: Regulatory Evolution and Implementation in the Environmental Risk Assessment of GM, Andrés Frankow | Global Animal<br>Biotechnology<br>Regulatory<br>Paradigms, <b>Daniel</b><br><b>Kovich</b> | The European<br>Biosafety<br>Association:<br>Fostering Bio-<br>Innovation in a<br>Member-Focused<br>Manner, <b>Pat Casey</b> |  |

ISBR 2025 - Ghent

## Monday | Continued

|                 | Jan & Hubert<br>Van Eyckroom   | Guislainroom 1  | Baekeland 2   | Baekeland 3  | Baekeland 1  |
|-----------------|--|---|---|--|--|
| 14:20           | BREEDIT: A<br>Multiplex Genome<br>Editing Strategy to<br>Improve Complex<br>Quantitative Trait,<br>Hilde Nelissen        | Coordinating Capacity Building Efforts in Biosafety in Plant Biotechnology for the Global South: AUDA-NEPAD's Role in Strategic Repositioning of Africa, Samuel Timpo | Data Transportability:<br>Insights from<br>Paraguay, <b>Danilo</b><br><b>Fernández Ríos</b>   | Regulatory<br>landscape for NGTs<br>in farm animals:<br>Status in Europe,<br>Ana Granados<br>Chapatte              | Strategic Pathways for Biotechnology and Biosafety in the Philippines: Integrating Innovation and Governance for a Sustainable Bioeconomy, Leocris Batucan   |
| 14:35           | Harnessing Natural<br>Chromosomal<br>Changes to Unlock<br>Plant's Genetic<br>Potential, <b>Maria</b><br><b>Fedorova</b>  | Michigan State University's Capacity Building Efforts in Agricultural Biotechnology and Biosafety in the Global South, Karim Maredia                                  | Data Portability for<br>Confined Field<br>Testing in Brazil, Luiz<br>F. Protasio Pereira  | Update on the<br>Animal<br>Biotechnology<br>Regulatory<br>Considerations in<br>Asia-Oceania,<br>Rhodora Aldemita   | Certified Pipelines<br>and Rules-as-Code<br>Frameworks:<br>Leveraging Safe-by-<br>Design Principles<br>and Automation to<br>Streamline<br>Regulatory Decisions<br>without<br>Compromising<br>Safety, <b>Tom Ruts</b> |
| 14:50           | Argentina Regulatory<br>Paradigm for Gene<br>Editing: Experience<br>Supporting New<br>Technologies,<br>Facundo Simeone   | Advancing Cartagena Protocol Implementation through Coordinated Capacity Building, Felix Moronta- Barrios   | Role of Data Transportability (DT) in Regulating Agricultural Biotechnology in Africa: Current Experiences and Future Directions, Jerry Nboyine | Regulatory Pathways<br>for Animal<br>Biotechnologies in<br>Africa: Trends and<br>Implications,<br>Margaret Karembu | Science-Based Policies and the Global Impact of Transgenic Crops: The Case of Latin America through Biotec-Latam, Maria Luz Zapiola  |
| 15:05           | Future-Proofing<br>Policies for Plant<br>Breeding<br>Innovations, <b>Khaoula</b><br><b>Belhaj Fragniere</b>              | Twenty Years of<br>Biosafety Capacity<br>Development and<br>Coordination: Some<br>Thoughts on Next<br>Steps, <b>John Komen</b>  | Data Transportability<br>of GM Crops in<br>Japan: The Case of<br>GM Soybeans,<br>Kazuyuki Hiratsuka   | Regulatory Status of<br>the Animal Biotech<br>in the Americas,<br><b>Pedro Rocha</b>                               | Future-proofing Gene Technology Innovations: A Market Choice Framework for Global Supply Chains, <b>David</b> Hudson   |
| 15:20           | Raymond Dobert<br>Discussion   | Marc Heijde<br>Discussion   | Shuichi Nakai<br>Discussion   | Alison Van<br>Eenennaam<br>Discussion  | David Hudson<br>Discussion   |
| 15:30-<br>16:00 |  | AFTERNO   | ON COFFEE BREAK   |  |  |
|                 | Baekeland 1  | Jan & Hubert Van<br>Eyckroom  | Baekeland 2   | Guislainroom 1   | Baekeland 3  |
| 16:00-<br>17:30 | Parallel Mon 6:<br>Safe(r) Innovation<br>Approaches – Non-<br>regulatory<br>approaches fostering<br>safety in innovation | Parallel Mon 7: Trends, perspectives and recent developments on streamlining the regulatory assessment of GM stacked trait products                                   | Parallel Mon 8:<br>Harnessing bio-<br>Innovation:<br>addressing<br>regulation to tackle<br>global challenges                                    | Parallel Mon 9: Advancing community engagement in gene drive research: Bridging perspectives and practices         | Parallel Mon 10: Scientific Advancements, Challenges, and Regulatory Considerations - Genetically Modified Crops   |

## Monday | Continued

|       | Baekeland 1   | Jan & Hubert Van<br>Eyckroom  | Baekeland 2   | Guislainroom 1  | Baekeland 3  |
|-------|---|---|---|---|--|
| 16:00 | A.Roberts,<br>M.Gielkens<br>Introduction  | M. Vega-Sanchez<br>Introduction   | Marcos Pupin<br>Introduction  | Claudia Emerson<br>Introduction   | Patrick<br>Rüdelsheim<br>Introduction  |
| 16:05 | Moving Towards a Safe(r) Innovation Approach in the Context of Modern Biotechnology - Activities and Discussions within OECD, Marco Gielkens                | Conventional<br>Breeding and What<br>This May Tell Us on<br>the Safety of GM<br>Stacks, <b>René</b><br><b>Custers</b> | Harnessing Bio-<br>innovation for<br>sustainable fuel<br>production,<br><b>Delphine Skopinski</b>   | Gene Drive Research: Engaging Communities from an Ethical Perspective, Claudia Emerson  | Proportionate and<br>Case-by-Case Risk<br>Assessment of GMO<br>Products:<br>Challenging a One-<br>Size-Fits-All<br>Approach, <b>June Yao</b> |
| 16:20 | Evolution of Safe-by-<br>Design Principles to<br>Advance New GM<br>Insect Protection<br>Technologies to the<br>Marketplace, <b>Debbie</b><br><b>Mahadeo</b> | Global Overview of<br>GM Stack<br>Regulations:<br>Challenges and<br>Opportunities,<br>Yoonhui Sung                    | Argentine Advances<br>in the Process of<br>Simplify and<br>Digitalize GM<br>Microorganisms Risk<br>Assessment and<br>Registration,<br>Facundo Simeone | Practical Application<br>of a Relationship-<br>based Model to<br>Engagement for<br>Gene Drive Vector<br>Control Programs,<br>Ana Kormos | From Law to Lab (and Beyond): Variations in Applying the GMO Definition Across the EU, Patrick Rüdelsheim                                    |
| 16:35 | SIA in Practice –<br>Developing Gene<br>Drive, <b>Zach</b><br><b>Adelman</b>  | TBD, <b>Shai Joseph</b>   | Sustainable Weed<br>Control Strategy with<br>Genetically<br>Modified,<br>Glyphosate-Tolerant<br>Eucalyptus, <b>Maria</b><br>Paula Galan               | Community Agreement for Genetically Modified Mosquitoes: Lessons learned for a future gene drive model., Alexandre Quach                | One Global Risk<br>Assessment for<br>Genetically Modified<br>Crops, <b>Gary</b><br><b>Rudgers</b>  |
| 16:50 | Embedding Safety<br>from the Start: Non-<br>Regulatory<br>Approaches to<br>Safe(r) Innovation in<br>Microbial<br>Biotechnology, Leah<br>Buchman             | Japan Category<br>Approach to Stacked<br>Trait Products,<br><b>Hiroaki Kodama</b>                                     | Agricultural Bio-<br>Innovations<br>Fundamental for<br>Climate Change<br>Mitigation, <b>Stuart</b><br><b>Smyth</b>                                    | Building Trust for<br>Effective Dialogue,<br><b>Lucy Mulenke</b> i  | Reframing History of<br>Safe Exposure<br>(HoSE) in<br>Environmental Risk<br>Assessment of Novel<br>Traits, Joy<br>Honegger                   |
| 17:05 | Safer Innovation<br>Approaches - iGEM,<br><b>Christopher Isaac</b>  | CTNBio's Risk Assessment Approach to Stacked Events for Food, or Feed or for Processing, Alexandre Nepomuceno         | GMO Legislation: A<br>Key Driver of<br>Innovation in Brazil,<br>Ana Claudia Peluso  | How Can<br>Stakeholder<br>Perceptions of<br>Synthetic Biology<br>Inform Community<br>Engagement?, Lucy<br>Carter                        | Advances in Developing and Deploying Genetically Engineered TELA® Maize in Africa, Sylvester Oikeh   |
| 17:20 | A.Roberts,<br>M.Gielkens<br>Discussion  | M. Vega-Sanchez<br>Discussion   | Marcos Pupin<br>Discussion  | Claudia Emerson<br>Discussion   | Patrick<br>Rüdelsheim<br>Discussion  |

ISBR 2025 - Ghent

## Monday | Continued

| 17:30-<br>18:05 |                                | <b>Pecha Kuch</b> a (Chair: Andrew Roberts) Jan & Hubert Van Eyckroom   |
|-----------------|--------------------------------|---|
| 17:30           | Intro (10 min)                 |   |
| 17:40           | Nida Ansari                    | Artificial Intelligence for Protein 3D Structural Analyses and Applications on<br>Allergenicity Risk Assessment                           |
| 17:45           | Mr Oluwafemi<br>Ayobola Falade | Leveraging Gene-Edited BMPR2 Sheep Models for Biomedical Innovation: Advancing Understanding of Heritable Pulmonary Arterial Hypertension |
| 17:50           | Rina Matsuoka                  | Quantification of the Digestive Resistance of Plant Proteins  |
| 17:55           | Ms Haruka<br>Morimoto          | Omics Analyses of Null Segregants Obtained from the RdDM Transgenic Plants  |
| 18:00           | Ms Kausalya<br>Sakthivel       | Genome Editing in Rice using CRISPR/Cas9 for the Development of Thermo-sensitive Genic Male Sterile Lines                                 |
| 18:05-<br>19:00 |                                | Poster session 1  |
| 19:00           |                                | DAY ENDS  |

ISBR 2025 - Ghent



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#### Tuesday | November 4, 2025

| 07:00                                       | Student Breakfast   |   |   |   |  |  |
|---|---|---|---|---|--|--|
| 08:00                                       | Registration  |   |   |   |  |  |
| 09:00-<br>13:00                             |   | <b>ing Scientific Advancemen</b><br>scheli Sanches da Rocha) Ja   | ts, Opportunities, and Chan<br>n & Hubert Van Eyckroom  | allenges in   |  |  |
| 09:00                                       | Opening remarks: Mitsch   | eli Sanches da Rocha  |   |   |  |  |
| 09:15                                       | Keynote 2: Steven Runo  | - Can Genome Editing Drive  | e Food Security in Africa?  |   |  |  |
| 10:00                                       | Plenary 2.1: Cathie Martin  | n - Healthy plants; healthy p   | people - fortifying vitamins a  | and   |  |  |
| 10:30                                       | •   | aul - QCAV-4, a Cavendish bultivation and consumption   | panana with Fusarium wilt tro<br>in Australia   | ppical race 4 resistance  |  |  |
| 11:00-<br>11:30                             |   | MORNING COFFEE  | BREAK   |   |  |  |
| 11:30                                       | Plenary 2.3: Jane Fife - Adams and Plant Health   | dvancing Agricultural Biolog  | gicals: The Next Chapter in (   | Crop Protection   |  |  |
| 12:00                                       | Plenary 2.4: Clint Nesbitt  | t - Perspectives on animal bi   | iotechnology: Gene edited f   | PRRS-resistant pigs   |  |  |
| 12:30                                       | Plenary 2.5: Reinhilde Sch  | noonjans - "Regulatory risk   | assessment and food innova  | ition in Europe"  |  |  |
| 13:00-<br>14:00                             |   | LUNCH   |   |   |  |  |
|   | Jan & Hubert Van Eyckroom Baekeland 1 Baekeland 2 Baekeland 3   |   |   |   |  |  |
|   | Eyckroom  |   |   |   |  |  |
| 14:00-<br>15:30                             | Workshop 1: Government perspective on implementation of genome edited plant regulatory policies: Challenges and solutions   | Workshop 2:<br>Ethics and evolution<br>workshop: considerations<br>for human intervention   | Workshop 3:<br>Examples of Regulatory<br>Modernization for GM<br>Crops  | <b>Workshop 4:</b> Al-Driven innovations: Potential for risk analysis in biosafety research                                     |  |  |
|   | Workshop 1: Government<br>perspective on<br>implementation of genome<br>edited plant regulatory<br>policies: Challenges and   | Ethics and evolution workshop: considerations   | Examples of Regulatory<br>Modernization for GM  | Al-Driven innovations:<br>Potential for risk analysis in  |  |  |
|   | Workshop 1: Government perspective on implementation of genome edited plant regulatory policies: Challenges and solutions  Organized by Khaoula Belhaj-Fragnière;   | Ethics and evolution<br>workshop: considerations<br>for human intervention  Organized by Detlef   | Examples of Regulatory Modernization for GM Crops  Organized by Abby Simmons  | Al-Driven innovations: Potential for risk analysis in biosafety research  Organized by  |  |  |
| 15:30<br>15:30-                             | Workshop 1: Government perspective on implementation of genome edited plant regulatory policies: Challenges and solutions  Organized by Khaoula Belhaj-Fragnière;   | Ethics and evolution workshop: considerations for human intervention  Organized by Detlef Bartsch, René Custers   | Examples of Regulatory Modernization for GM Crops  Organized by Abby Simmons  | Al-Driven innovations: Potential for risk analysis in biosafety research  Organized by  |  |  |
| 15:30<br>15:30-                             | Workshop 1: Government perspective on implementation of genome edited plant regulatory policies: Challenges and solutions  Organized by Khaoula Belhaj-Fragnière; John McMurdy  Jan & Hubert Van                      | Ethics and evolution workshop: considerations for human intervention  Organized by Detlef Bartsch, René Custers  AFTERNOON COFF                                     | Examples of Regulatory Modernization for GM Crops  Organized by Abby Simmons  | Al-Driven innovations: Potential for risk analysis in biosafety research  Organized by Pieter Windels                           |  |  |
| 15:30<br>15:30-<br>16:00                    | Workshop 1: Government perspective on implementation of genome edited plant regulatory policies: Challenges and solutions  Organized by Khaoula Belhaj-Fragnière; John McMurdy  Jan & Hubert Van Eyckroom Workshop 1: | Ethics and evolution workshop: considerations for human intervention  Organized by Detlef Bartsch, René Custers  AFTERNOON COFF  Baekeland 1  Workshop 2:           | Examples of Regulatory Modernization for GM Crops  Organized by Abby Simmons  EE BREAK  Baekeland 2  Workshop 3: Continued                  | Al-Driven innovations: Potential for risk analysis in biosafety research  Organized by Pieter Windels  Baekeland 3  Workshop 4: |  |  |
| 15:30<br>15:30-<br>16:00<br>16:00-<br>17:00 | Workshop 1: Government perspective on implementation of genome edited plant regulatory policies: Challenges and solutions  Organized by Khaoula Belhaj-Fragnière; John McMurdy  Jan & Hubert Van Eyckroom Workshop 1: | Ethics and evolution workshop: considerations for human intervention  Organized by Detlef Bartsch, René Custers  AFTERNOON COFF  Baekeland 1  Workshop 2: Continued | Examples of Regulatory Modernization for GM Crops  Organized by Abby Simmons  EE BREAK  Baekeland 2  Workshop 3: Continued  50 min) meeting | Al-Driven innovations: Potential for risk analysis in biosafety research  Organized by Pieter Windels  Baekeland 3  Workshop 4: |  |  |

## **Workshop Descriptions**

Workshop 1: The successful global deployment of plant breeding innovation hinges on the effective implementation of regulatory policies, and the ability of researchers and developers to navigate them. In the last decade, an increasing number of countries are adopting and implementing innovation enabling regulatory frameworks pertaining to plant breeding innovation, such as genome editing. This session will showcase government regulatory implementation experiences, highlighting challenges and sharing best practices. Discussions will explore opportunities for science-based and future-proofing regulatory policies and implementation through international collaboration and industry-government dialogue. By minimizing divergence in regulatory decision making and aligning implementation, the development and adoption of solutions enabled through genome editing can be accelerated and trade can be facilitated. Facilitator: Jean-Paul Judson, Nowmore Organized by Khaoula Belhaj-Fragnière, International Seed Federation; John McMurdy, CropLife International

Workshop 2:Our abilities to intervene in the genetic material of organisms have gradually grown and have gained additional momentum with the introduction of technologies such as CRISPR and now also artificial intelligence. This enables us to develop organisms with certain characteristics more precisely. Until now, GMOs have almost all been introduced into heavily managed environments such as agricultural cropland. These GMOs have not been introduced with the intention to have effects outside agricultural fields, on the contrary. And the risk assessments for those GMOs were heavily focused on preventing undesired effects outside agricultural fields. But now with the advent of these newtechniques, organisms may be proposed and developed with the goal to introduce themto have intended effects on the natural environment, including potentially on biodiversity and evolution. Currently, most focus is mitigating diseases that are transmitted by for instance insects. Other proposals are aimed at benefits for the environment e.g. protecting endangered species and environmental remediation. But such interventions might have lasting effects on the environment and could in some cases lead to the establishment of engineered organisms in the environment. These developments raise intricate questions concerning ethics and sustainability. Biodiversity is declining and the amounts of natural habitats are decreasing. The workshop aims to address this question: Given the crisis for biodiversity, should we be engineering organisms for the natural environment and what is ethical and what is sustainable in this context? Key issues and further questions are: What is "Evolution"? Humans playing God? Humans and Nature - anthropocentric or nature focus Societal values and biodiversity conservation Concepts of "Evolutionary integrity" Intrinsic value ("Eigenvalue") of Nature What is "Environmental damage" in relation to evolution? The workshop is separated into three introductory talks and will include an interactive "world café" with all participants. For a more comperhensive outline please click here! Organizers: Detlef Bartsch, Federal Office for Consumer Protectio

Workshop 3: For nearly 30 years genetically modified (GM) crops have provided benefits to farmers, consumers, and the environment, without harm to humans, animals or the environment. Despite this excellent record of safety, the level of regulatory scrutiny has routinely increased, and farmers in many countries are unable to access GM crops due to long regulatory approval timelines and; commercialization delays. Modernized regulatory approaches that are risk-proportionate, consider the history of familiarity and safe use of agriculture biotechnology, as part of established plant breeding, are necessary so that agricultural innovations are available to those who would benefit the most. In support of regulatory policies that are predictable, science-based, and risk proportionate, CropLife International has developed recommendations focused on a core set of studies for GM Crops, leveraging problem formulation and determining plausible pathways to harm, to determine whether additional supplementary studies may be warranted to inform on the food, feed and environmental risk assessment. Several countries have adopted or are considering following a more streamlined approach for GM crop risk assessment. This workshop will highlight examples of regulatory streamlining from multiple countries in Latin America, as well as the United States. Regulators from select Latin American countries as well as the United States will share their experiences regulating GM crops, highlighting best practices in the region. Following brief presentations, the regulators will discuss a series of brief case studies that address what data is needed to make a conclusion on safety. The audience will also participate in the discussion of the case studies via a question-and-answer session. Participants will leave the workshop with a better understanding of using problem formulation to determine which data truly provides value to the risk assessment of GM crops. Organizers: Abby Simmons, CropLife International; Gabi Levitus, ArgenBio

Workshop 4: The workshop has the objective to investigate, together with participants and invited speakers, the potential applications of artificial intelligence (AI) in biosafety research and will include sessions focusing on the use of AI for risk assessment, risk management, and risk communication. The workshop will review and discuss real-world examples of AI in action today, assess feasibility for biosafety related risk analysis and provide insights into future developments. Attendees will gain insights from current examples and future possibilities, tailored to both technology developers and governmental regulators. The workshop is designed to have an explorative and engaging character, combining thought-provoking presentations with interactive activities. To begin, the presentations will serve to set the stage by providing participants with foundational knowledge and real-world examples of how AI is currently being applied in biosafety research. These presentations aim to stimulate fresh thinking and inspire participants by showcasing innovative use cases. Following this, the workshop will transition into interactive sessions where participants will take an active role in shaping the discussion. These sessions are intended to foster creative thinking by encouraging attendees to share their ideas, voice concerns, and propose potential solutions. Moreover, the workshop's structure is carefully designed to emphasize the critical improvance of collaboration and open dialogue between all stakeholders, including researchers, regulators, and technology developers. By providing a platform for meaningful exchange, we aim to highlight how collective efforts can support the integration of these transformative tools into existing frameworks. This collaborative approach ensures that diverse perspectives are considered, helping to build trust and consensus on how to use AI's potential while addressing potential uncertainties. The workshop acts a roadmap for continued dialogue and innovation. Facilitator & Session Orga

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# Transparency at Bayer Crop Science

Foster open, science-based dialogue.

Bayer has been a prominent player in the agriculture industry to enable access to safety studies for crop protection (CP) active ingredients and genetically modified (GM) crops. We continue to expand our transparency program.

#### **Example** components include:

- /// Access to full safety study reports for CP and GM crops, including scientific background information and educational materials.
- Learn the basics and discover the benefits of plant breeding.
- Virtual platform "OpenLabs 360°" to see how Bayer scientists conduct product safety testing.



Self-quided virtual reality tours where you can see our science at work.



Welcome to a behind-the-scene look at Bayer Crop Science. No need to wear safety classes for this selfguided tour (unless you want to, of course). Here you will learn how our scientists ensure genetically modified crop products are safe to eat and safe for the environment. Happy exploring!





#### Communicating the Science of GMOs and **Emerging Biotechnology Tools**

Wednesday, 5 November | 16:00-17:30 | Baekleand 3

This session will convene scientists, researchers, developers, and science journalists to review experiences, explore barriers in science communication, and share skills to overcome them. Speakers will describe examples of progress made to contextualize GMO acceptance in Africa. They will share communication tools and techniques that build competence in communicating to a variety of stakeholders about research, field trials, and the use of GMOs and other emerging technologies on the African continent. This side event aims to broaden scientists' communication repertoire and increase media and communicators' appreciation of scientific concepts to facilitate balanced communication of critical biotechnology topics allowing decision makers, publics, local communities access to these complex science topics.



#### **MODERATOR**

Dr. Willy Kiprotich Tonui, EBS

nairman and Executive Director, Environmental Health Safety (EHS Consultancy Ltd)



Andrew Kiggundu Biotechnology Consultant

"Case studies for communication about GMOs in Africa: Describing new technology



#### **SPEAKERS**

Givemore Munhenga Medical Scientist, National Institute for Communicable Diseases

'Case study of culturally relevant methods to communicate science: Maskandi Experience in South Africa



#### Philbert Nyinondi Communications Specialist

"Role of the media in communicating complex Science, Technology, and Innovation in Africa



Gloria Ogbaki Communications Specialist, National Biosafety Management Agency "Communication related to regulatory

decision making of GMOs



Rosalia Omungo CEO, Kenya Editors' Guild

The Science Communication Forum Africa: Science journalists and scientists working together"

#### EXPLORE MORE



Informed & Responsible **Decision Making** 

## Wednesday | November 5, 2025

| 08:00           | Registration   |   |  |   |  |
|-----------------|--|---|--|---|--|
| 09:00-<br>13:00 | Plenary session III: Governance and Regulatory Frameworks: Understanding the global landscape (Chairs: Jennifer Anderson and Suma Chakravarth) Jan & Hubert Van Eyckroom |   |  |   |  |
| 09:00           | Opening remarks: Jer   | nnifer Anderson   |  |   |  |
| 09:15           | <b>Keynote 3: Rodomiro</b> Global Landscape and  |   | , ,  |   | •  |
| 10:30           | Plenary 3.1: Samuel To<br>Challenges and Oppor   | •   | o Hunger Agenda: Ge  | nome Editing Policy La  | andscape,  |
| 10:30           | Plenary 3.2 Irène Sacr<br>Techniques   | <b>istan-Sanchez</b> - EU R   | egulatory Approaches   | to GM Crops and Nev   | w Genomic  |
| 11:00-<br>11:30 |  | MORNING   | COFFEE BREAK   |   |  |
| 11:30           | Plenary 3.3: Alison Van Eenennaam - Global Status of Animal Biotechnology  |   |  |   |  |
| 12:00           | Plenary 3.4: Luiz Filip<br>Governance in Bio-inr   |   | Brazil's Biosafety Fram  | nework: From Regulato   | ory Gaps to Adaptiv  |
| 12:30           | Plenary 3.5: Lourdes and Commercialization   |   |  |   | arch, Development,   |
| 13:00-<br>14:00 |  |   | LUNCH  |   |  |
|                 | Baekeland 3  | Baekeland 1   | Baekeland 2  | Guislainroom 1  | Jan & Hubert<br>Van Eyckroom   |
| 14:00-<br>15:30 | Parallel Wed 1: Safety considerations for agricultural microbial products derived from new genomic techniques (NGTs)   | Parallel Wed 2:<br>Strategies for<br>Modernizing<br>Biotechnology<br>Regulatory<br>Frameworks               | Parallel Wed 3:<br>Innovation and<br>modernization on<br>the safety<br>assessment of newly<br>expressed proteins in<br>Genetically Modified<br>(GM) Crops. | Parallel Wed 4: Hands-on experience with Crop Composition Database: A tool used in food and feed safety assessment              | Parallel Wed 5:<br>Scientific<br>Advancements,<br>Challenges, and<br>Regulatory<br>Considerations -<br>Genome Editing                              |
| 14:00           | A.Roberts, N.Dixon<br>Introduction   | Bill Doley<br>Introduction  | Tao Geng<br>Introduction   | Bhavneet Bajaj<br>Introduction  | Fan-Li Chou<br>Introduction  |
| 14:05           | Engineering<br>Microbes to Boost<br>Plant Immunity and<br>Fight Plant Disease,<br><b>Cynthia Gleason</b>   | Modernizing Biotechnology Regulation: Toward Trait-Based, Risk- Proportionate Frameworks, <b>Bill Doley</b> | Core and Supplemental Studies to Assess the Safety of Newly Expressed Proteins (NEP) in GM Crops, Elizabeth Lipscomb                                       | Compositional Variability in Food, Feed, and Fiber Crops: What Have We Learned from the Crop Composition Database? <b>Nancy</b> | Harnessing Insect<br>Genome Editing fo<br>a Sustainable Futur<br>Progress Towards th<br>Development of<br>Agricultural and<br>Forestry Pest Contry |

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## Wednesday | Continued

|                 | Baekeland 3  | Baekeland 1  | Baekeland 2   | Guislainroom 1   | Jan & Hubert<br>Van Eyckroom   |
|-----------------|--|--|---|--|--|
| 14:20           | Genome Editing<br>Regulation of<br>Microorganisms in<br>Brazil, <b>Galadino</b><br><b>Andrade</b>  | Proportionate<br>implementation of<br>the EU's regulatory<br>framework for<br>GMOs, <b>Jonny Hazell</b>                                | Exploring the Use of<br>in vitro Models for<br>Safety Assessment of<br>Newly Expressed<br>Proteins in GM<br>Crops, <b>Matias</b><br><b>Attene Ramos</b>                     | Development of Analytical Methodologies for Measuring Compositional Components in Agriculturally Important Crops, Ann Scaife                                   | Applying Alternative Regulatory Paradigms to Enable Genome Editing at Scale for Germplasm Improvement, Lieselot Bertho                                 |
| 14:35           | Increasing Interest in<br>Environmental Fate<br>Aspects of Gene<br>Edited Microbial-<br>based Agricultural<br>Products, <b>Lisa</b><br><b>Ortego</b>                           | Science-Based Regulation of Gene- Edited Herbicide- Tolerant Crops: Ensuring Consistency, Innovation, and Sustainability, Lucas Lieber | Novel Strategies for<br>Predicting<br>Allergenicity, <b>Clare</b><br><b>Mills</b>   | Interactive training with Crop Composition Database.  **personal laptops preferred for hands- on learning. The database is also compatible with smartphones ** | A Platform for<br>Genome Editing and<br>Functional Genomics<br>in Common Bean<br>Using Hairy Root<br>Composites, <b>Mary</b><br><b>Esther Toili</b>    |
| 14:50           | The Ever-Evolving World of Microbes: The Current State of Microbial Taxonomy, Genome Evolutionary Dynamics, and the Impact on Future Microbials Risk Assessment, Katie Karberg | Regulating the<br>Future of<br>Biotechnology:<br>Preparing for<br>Complexity and<br>Innovation, <b>Justin</b><br><b>Overcash</b>       | Artificial Intelligence<br>for Protein 3D<br>Structural Analyses<br>and Applications on<br>Allergenicity Risk<br>Assessment,<br>Abhiman<br>Saraswathi                       |  | Integrating Artificial Intelligence (AI) with Genome Editing for Crop Improvement: Potential Applications and Regulatory Implications, Felicity Keiper |
| 15:05           | Biological Products,<br>New Paradigms for<br>the Sustainability of<br>Crop Productions,<br>Patrick du Jardin   |  | Using Allergen Reference Doses to Inform Risk-Based Labeling Decisions: An Overview of the FAO/WHO Expert Consultation on Risk Assessment of Food Allergens, Joseph Baumert |  | Transgene-Free,<br>Low-Risk, and Over-<br>Regulated? The ALS<br>Case for<br>Rationalizing NGT1<br>Criteria, <b>Marina Pais</b>                         |
| 15:20           | A.Roberts, N.Dixon<br>Discussion   | Bill Doley<br>Discussion   | Tao Geng<br>Discussion  | Bhavneet Bajaj<br>Discussion   | Fan-Li Chou<br>Discussion  |
| 15:30-<br>16:00 |  | AFTERNO  | ON COFFEE BREAK   |  | I  |

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## Wednesday | Continued

|                 | Jan & Hubert   | Guislainroom 1   | Baekeland 2  | Baekeland 3  | Baekeland 1  |
|-----------------|--|--|--|--|--|
|                 | Van Eyckroom   | Guisiaiiii Ooiii 1   | Daekelalid 2   | Daekelalid 3   | Daekelaliu I   |
| 16:00-<br>17:30 | Parallel Wed 6:<br>Public- Private-<br>Producer<br>perspectives on<br>gene editing<br>innovation                           | Parallel Wed 7: Developments in Gene Drive – Advances in risk assessment, regulatory frameworks and field trial design                   | Parallel Wed 8:     Design     considerations for     non-target risk     assessment studies –     lessons learned from     insect resistant GE     crops and challenges     for new traits and     technologies | Parallel Wed 9:<br>Communicating the<br>science of GMOs<br>and emerging<br>biotechnology tools   | Parallel Wed 10: Exploring New Methods, New Technologies, and Scientific Advancements in Bio-Innovation  |
| 16:00           | Stuart Smyth<br>Introduction   | Andrew Roberts Introduction  | M.Meissle,<br>C.Brown<br>Introduction  | Willy Tonui<br>Introduction  | M. Sanches da<br>Rocha<br>Introduction   |
| 16:05           | Implications of EU<br>Regulation of GE<br>Crops, <b>Justus</b><br><b>Wesseler</b>  | Core and<br>Supplemental<br>Studies to Assess the<br>Safety of Newly<br>Expressed Proteins<br>(NEP) in GM Crops,<br>Werner Schenkel      | Study Design<br>Considerations of<br>Early Tier Non-target<br>Risk Assessment<br>Studies, <b>Jennifer</b><br><b>Anderson</b>   | Case Studies for<br>Communication<br>About GMOs in<br>Africa - Describing<br>New Technology and<br>Changing the<br>Narrative, <b>Andrew</b><br><b>Kiggundu</b> | Regulatory-Ready<br>Genetic Tools for<br>Mosquito<br>Suppression: A<br>Precursor to Gene<br>Drive Trials, <b>Nikolay</b><br><b>Kandul</b>  |
|                 | Gene Editing in<br>Australasia: Aligning<br>Public, Private, and<br>Producer<br>Perspectives, <b>Carl</b><br><b>Ramage</b> | Preparatory Work for<br>the Development of<br>Risk Assessment<br>Guidance for Gene<br>Drive Modified<br>Insects, <b>Boet</b><br>Glandorf | Study Design Considerations for Non-target Arthropod Field Studies Conducted to Support Risk Assessment of Insect-protected Genetically Modified Crops, Christopher Brown  | Case Study of Culturally Relevant Methods to Communicate Science - Experience of Art Based Communication Strategies in South Africa, Givemore Munhenga         | From Genomics to<br>the Field: Clubroot-<br>Resistant Cultivars<br>and Microbial<br>Biocontrols, <b>Edel</b><br><b>Perez Lopez</b>   |
| 16:35           | The EU Plant<br>Breeding Industries'<br>View on NGTs, <b>Petra</b><br><b>Jorasch</b>                                       | Advances in Field<br>Trial Design of Gene<br>Drive Technologies<br>and Implications for<br>Risk Assessments,<br>John Connolly            | Distinguishing Bt<br>Protein-effects from<br>Plant Matrix Effects<br>in Non-target<br>Studies, <b>Michael</b><br><b>Meissle</b>  | The Role of the<br>Media in<br>Communicating<br>Complex Science,<br>Technology and<br>Innovation in Africa,<br>Philbert S. Nyinondi                            | Suitability and<br>Advantages of using<br>Ants as Test<br>Organisms in<br>Ecotoxicity, <b>Mathias</b><br><b>Otto</b>   |
| 16:50           | Harnessing Gene Editing for Bacterial Wilt-Resistant Bananas: Bridging Science, Policy, and Production, Leena Tripathi     | Gene Drive<br>Regulation: A Closer<br>Look at International<br>Frameworks, <b>Zaira</b><br><b>Lanna</b>                                  | Leveraging Experience with Regulating GE Traits to Support Contemporary Non- target Evaluations, Amanda Pierce   | Communication Related to Regulatory Decision- Making of GMOs, Agbonma Gloria Ogbaki  | Development of Bt-<br>Expressing<br>Transgenic Coffee<br>Plants through<br>Somatic<br>Embryogenesis: A<br>Biotechnological<br>Strategy against<br>Coffee Berry Borer,<br>Eliana Valencia<br>Lozano |

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## Wednesday | Continued

|                 | Jan & Hubert<br>Van Eyckroom   | Guislainroom 1  | Baekeland 2   | Baekeland 3   | Baekeland 1   |  |
|-----------------|--|---|---|---|---|--|
| 17:05           | Public-Private-<br>Producer<br>Perspectives on<br>Gene Editing<br>Innovation, <b>Dan</b><br><b>Jenkins</b>   | Environmental Risk<br>Assessments with<br>Socio-Economic<br>Considerations,<br>Delphine Thizy | A Bioinformatics<br>Framework for<br>Ecological Risk<br>Assessment of RNAi-<br>based Biopesticides,<br>Emma De Neef | The Science<br>Communication<br>Forum Africa -<br>Science Journalists<br>and Scientists<br>Working Together,<br><b>Rosalia Omungo</b> | Biocentis:  Developing Genetic  Control for Insect  Pest and Vector  Species, Andrew  Hammond |  |
| 17:20           | Stuart Smyth Discussion  | Andrew Roberts<br>Discussion  | M.Meissle,<br>C.Brown<br>Discussion   | Willy Tonui<br>Discussion   | M. Sanches da<br>Rocha<br>Discussion  |  |
| 17:30-<br>19:00 |  | FREE TIME   |   |   |   |  |
| 19:00-<br>22:00 | Symposium Dinner  (Wednesday, 5th Nov 2025) – Fully booked  Venue: Ghent Marriott Hotel  Address: Korenlei 10, 9000 Ghent– Belgium  A symposium dinner ticket is required (TICKETS ARE SOLD OUT).  Enjoy a 3-course meal with limited drinks provided (cash bar available).  Please note that no transport is provided —  the Marriott is a 15-minute walk from the ICC. |   |   |   |   |  |
| 22:00           |  |   | DAY ENDS  |   |   |  |

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#### Thursday | November 6, 2025

| 08:00           | Registration  |
|-----------------|---|
| 09:00-<br>13:00 | Plenary session IV: Enhancing the potential of bio-innovation for a sustainable future (Chairs: Heidi Mitchell and Jennifer Anderson) Jan & Hubert Van Eyckroom |
| 09:00           | Opening remarks: Jennifer Anderson  |
| 09:15           | Keynote 4: Renée Anderson - Integrating Bio-Innovation for On-Farm Sustainability   |
| 10:00           | Plenary 4.1: Justus Wesseler - The contribution of bioeconomy value chains to improving sustainability  |
| 10:30           | Plenary 4.2: Simon Lillico - Gene editing livestock   |
| 11:00-<br>11:30 | MORNING COFFEE BREAK  |
| 11:30           | Plenary 4.3: Richard Kino - The Genetic Technology (Precision Breeding) Act 2023, England   |
| 12:00           | <b>Plenary 4.4: Erik Andreasson -</b> Potato Field trials in Sweden with changed expression of resistance and susceptibility genes                              |
| 12:30           | Plenary 4.5: Panel Discussion (moderated by Carl Ramage)  |
| 13:00           | Announce photo competition winners and poster presenter (Hennie Groenewald)   |
| 13:00-<br>13:30 | Closing session Hennie Groenewald, ISBR President   |
| 13:30           | SYMPOSIUM ENDS  |

## Optional Tours FULLY BOOKED

Join us for a visit at the VIB & BASF facilities or the VIB field trial location! VIB and BASF are offering you an exclusive opportunity to visit some of their facilities on Thursday, Nov 6, 2025.

These two tour options are designed to give you a first hand look at how plant biotech research is performed in containment facilities and on the field.

Delegates confirmed for the optional tours may collect lunch packs from the registration area. The coach will depart from ICC at 13:30 sharp. Please do not be late and bring identification for security access.

#### **Tour Options:**

- TOUR 1: Lab/Greenhouse Facility Tour: Discover the state-of-the-art laboratories @VIB and greenhouse facilities @BASF.
  - o This tour includes a 5-10 minute walk between two buildings.
  - Maximum capacity: 30 participants
- TOUR 2: Field Tour: Learn about the field trials with transgenic and genome edited plants with our field tour.
  - o Please note that this tour is subject to weather conditions, so be sure to bring weather proof clothing and footware.
  - Maximum capacity: 25 participants

LET'S BUILD THE

FuturaGene is proud to be the only company globally to have taken GM eucalyptus, from lab to field, providing a pipeline of varieties for a more sustainable and climate-resilient future



approvals\*, for genetically modified eucalyptus varieties



#### To address key global challenges...



Growing population



Increasing Climate wood demand





#### We can deliver solutions using biotechnology...



Produce more with less land & resources



More resilient Trees



Mechanized forestry production

<sup>\*</sup> Commercial approvals from CTNBio - National Technical Biosafety Commission - Brazil





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