



13th ICA Rectors and Deans Forum 2023

Artificial Intelligence & the One Health Triad Challenges for Life Science Universities

To be held on 19 and 20 October 2023
at JUNIA grande école d'ingénieurs, Lille, France

The goal of the ICA's Rectors and Deans Forums

This annual ICA Forum, for Rectors, Presidents, Deans, and senior academic and management staff in life science Universities in Europe, aims to provide these university decision makers from ICA's member universities with the opportunity to meet, to discuss current issues in the bioeconomy and life sciences, and to exchange views on these issues with relevant stakeholders in industry, government and NGOs.

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A Forum Focus

The Forum will address two separate topics, **Artificial intelligence (AI)** and the **One Health Triad**.

The face to face Rectors and Deans Forum programme on the 19 and 20 October will have two half day sessions focusing on the strategic management challenges of AI and the One Health Triad for life science universities. In the previous week there will be three Webinars focusing on the science relating to the One Health Triad. The three Webinars will set the context for the discussion of the strategic management challenges of the One Health Triad.

Artificial Intelligence (AI)

Artificial intelligence (AI) is a leading technology of the current age of the Fourth Industrial Revolution (Industry 4.0 or 4IR), with the capability of incorporating human behaviour, and intelligence and decision making into machines or systems. Life Science universities need to have informed conceptual understandings of the AI technologies, such as **machine learning, deep learning, neural networks, and algorithms**, for them to make decisions on the **implications of AI in education, and research and innovation**. There is also the need to consider the social and ethical implications of the pervasive exploitation of AI.

In research and innovation AI is already exploited to produce research outcomes and is contributing to practical applications in many life science areas. In agriculture and food AI has the potential to further contribute to developments in precision farming, improved decision making, animal health, controlled environments (e.g. greenhouses), environmental monitoring and modelling, for example for reducing food waste, and in understanding and catering for consumer needs.

Perhaps the most pressing challenge for universities is the incorporation of new AI technologies is in the area of teaching and learning. The current major concern comes with the opportunity for students to submit AI-generated work for assessment that is not their own work, through applications such as ChatGPT. Thereby the students may loose out on learning opportunities that are provided through such assignments. However, new AI tools such as ChatGPT have the potential to provide new learning opportunities for students which we have seen in past with the development of the internet search browsers. The challenge is to explore and adopt such opportunities to enhance the learning environment.

The One Health Triad

Commissioner Kyriakides, the EU Commissioner for Health and Food Safety, in May 2022 set the challenge to “put the One Health approach at the core of our action, recognising the intrinsic connection between the health of people, animals, plants and their shared environment”.



The challenge is to recognise that health not only requires a focus on disease issues in the One Health Triad but also to consider healthy nutrition and actions to ensure the sustainable environment. As the One Health Triad indicates it is not only necessary to consider the silos of healthy people, animals and the environment, but crucially it is necessary to consider the feedbacks which connect the three elements. The up-front example is antimicrobial resistance which can limit the

effectiveness of antibiotics in people because of their use in animals. Essentially One Health addresses a bio-system – a system of living organisms that interact with their environment. To operationalise the One Health system requires a greater focus on multi-sectorial and transdisciplinary actions. The term “Planetary Health” is also used in this connection addressing the impacts of human disruptions to Earth’s natural systems on human health and all life on Earth.

The ICA Rectors and Deans Forum will address the One Health challenge for life science universities addressing transdisciplinary co-operation within the university and beyond for research and policy development. Secondly to consider the development of the mindset of our graduates for a one health world through innovation in the degree programmes offered.

B Expected Outcomes

The delegates will take back to their universities their reflections on:

1. the extent of the current experience of AI in education and research in the university context?
2. the opportunities and threats of the use of AI in education
3. how life science universities are addressing the issue of One Health (in research, education and societal engagement)
4. the opportunities to apply for grant applications on the One Health topic

C Target Audience

The forum is primarily aimed at Rectors, Presidents, Deans, and senior academic and management staff in life science universities relating to the sustainable circular bioeconomy. In addition, academic/faculty staff and degree programme coordinators are encouraged to participate.

D Forum Format

This year there is a new format for the Forum. The face-to-face Rectors and Deans Forum programme on the 19 and 20 October will have two half day sessions focusing on the strategic management challenges of AI and the One Health Triad for life science universities. In the previous week there will be three Webinars focusing on the science relating to the One Health Triad. The three Webinars will set the scope for the discussion of the One Health Triad strategic management challenge for life science universities.

Each Session of the Webinars and the face-to-face Forum theme will be addressed by keynote speakers. In the Forum the keynote presentations will be followed by small round table breakout groups to discuss the issues raised, with a concluding report from the breakout groups of the issues raised in a plenary session.

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E Pre-Forum One Health Webinar Programmes

Monday 9 October at 13.00 – 14.00 CEST

Webinar: Healthy People from the One Health perspective

Stef Bronzwaer, European Food Safety Authority (EFSA), Parma, IT

Tuesday 10 October at 13.00 – 14.00 CEST

Webinar: Healthy Animals from the One Health perspective

Annemarie Rebel, Wageningen Bioveterinary Research Institute, Wageningen University and Research, NL

Wednesday 11 October at 13.00 – 14.00 CEST

Webinar: Healthy Environment from the One Health perspective

Raf Aerts, Part-time Professor, KU Leuven and part-time researcher Sciensano, Belgian One Health Institute.

F Forum Programme in JUNIA, Lille

THURSDAY 19 October

13.00 Buffet Lunch

Session 1 Strategic Management Issues of AI for Life Science Universities

14.00 Introduction

14.10 Keynote: Impact of AI on Teaching and Learning now and in the next 5 years

Matthieu Laneuville, Program Manager AI, SURF Innovation Laboratory, Utrecht, NL

14.40 Keynote: Impact of AI on Research now and in the next 5 years

Alistair Nolan, Senior Policy Analyst, Directorate for Science, Technology and Innovation, OECD, Paris, FR.

15.10 Coffee

15.40 Five short 10 minute interventions: Case Studies "how my university/faculty is addressing the strategic management challenges of AI in research, innovation or education"

16.40 Panel

17.10 Report back and closure

17.30 ICA General Assembly Follow up & ICA Excellence Awards

GA Follow up

Report by the President and announcement of the GA decisions.

ICA Excellence Awards

20.00 Forum Gala Dinner

Friday 20 October

Session 2 Strategic Management challenges for Life Science Universities of One Health Triad

9.00 Introduction

9.10 Keynote: Report of the outcomes of the three webinars focusing on the science of the One Health Triad.

Robbert Boudewijns, One Health Institute, KU Leuven, BE

9.40 Keynote: The EU policy on one health research and Innovation

to be confirmed

10.10 Keynote: The challenge to develop interdisciplinary education programmes focusing on the One Health Triad

Susanna Sternberg-Lewerin, SLU Future One Health, SLU Future One Health, Swedish University of Agricultural Sciences, SE

10.40 Coffee

11.10 Five short 10 minute interventions: Case Studies of "how my university/faculty is addressing the strategic management challenges of One Health in research, education and in society

12.00 Round table discussions

12.30 Report back and closure.

13.00 Lunch

G JUNIA Roundtable addressing the One Health challenge (Friday afternoon 20 October)

Come and share with staff from JUNIA how you are approaching the One Health challenge.

Even though the One Health approach is receiving more and more coverage in the scientific community, it remains, like all approaches that aim to be transdisciplinary, a real managerial and operational challenge for pilots of these projects. How do we get communities of specialists to work together, each with their **own expectations**, their **own fields of expertise** (associated with their **own vocabulary**) and, above all, their **own evaluation criteria**?

The arising question is to consider how, at the level of our institution's governance, is it feasible to initiate research strategies and policies aiming at integrating the One Health issue into an innovative and transdisciplinary collaborative approach.

We invite all Forum attendees to a round table discussion. After a brief presentation of research programs conducted at JUNIA (14.00 - 15.00) on the issue of One Health (human, animal, plant, and environment health) through transdisciplinary approaches, we will invite participants to share their experience and to reflect on the best methods to pave the way to successfully develop strategic partnerships to address One Health.

H Call for Contributions – short interventions as Case Studies

We are calling for Case Study contributions in Sessions 1 and 2 of the face to face Forum programme on 19 and 20 October

You are invited to prepare a 10 minute presentation involving NO MORE than three powerpoint slides. Please submit a brief statement of your intervention to Simon Heath at ICASecretariat@ica-europe.org by Friday 29 September. A selection of 5 Case Studies for each session will be selected from those submitted before the deadline.

Session 1 Case Study presentations are invited “of how my university/faculty is addressing the strategic management challenges of AI in research, innovation or education”

Session 2 Case Study presentations are invited “of how my university/faculty is addressing the strategic management challenges of One Health in research, education and in society

I Register online for the Webinars and the ICA Rectors and Deans Forum 2023

Please [click here](#) and complete the Registration Form for attendance.

There are no registration fees for the Webinars and for the JUNIA Roundtable on Friday afternoon 20 October.

Registration fee for attendance at the Forum in Lille

The Registration fee includes:

All meals from the start of the Forum in JUNIA from lunch on Thursday 19 October until and including lunch after the end of the Forum on Friday 20 October. There is no registration fee for the Friday afternoon roundtable session with staff from JUNIA (coffee will be provided but catering on Friday evening is your responsibility).

For ICA members The Registration fee for ICA Members is 400 €. For a second registration from the same institution the fee is 375€

For non-ICA members the registration fee is 550 €. If a registered non-member’s institution becomes a member of ICA in 2024, the membership subscription for 2024 will be reduced by 150 €.

The deadline for registration is Thursday 12 October. Registration can be cancelled free of charge before Thursday 12 October.

Please [click here](#) and complete the Registration Form for attendance at the Webinars and for attendance in Lille

J Book your hotel

Details of the suggested hotels can be viewed here
<https://www.ica-europe.info/forum-focus-home>

K How to reach Lille

JUNIA is in the center of Lille, and details of how to reach JUNIA will be sent in the joining instructions one week before the start of the ICA Forum. Lille can be reached by train from various airports. Guidance on reaching Lille can be viewed here
<https://www.ica-europe.info/how-to-reach-lille>

L Forum Organising Committee

Jos Van Orshoven KU Leuven (BE), **Alex Evans**, University College Dublin (IE),
Daniela Quaglino, University of Modena and Reggio Emilia (IT), and **Rasa Pakeltiene & Simon Heath**, ICA Secretariat.