



APPLICATION FORM INNOVATION AWARDS ROULLIER 2020

Submission online on

www.innovation-awards-roullier.com

Deadline: 29.02.2020, 14:00 Paris Time

Please visit us on the websites

www.innovation-awards-roullier.com

and

www.roullier.com/en

1. General Explanation

The contest will be carried out online, in a single step, on the Innovation Awards Roullier 2020 website: www.innovation-awards-roullier.com.

All relevant information about the Innovation Awards Roullier 2020 (confidentiality, eligibility and evaluation criteria, budget, duration...) can be found in the « Contest Rules », available on-line at: www.innovation-awards-roullier.com.

The deadline for the submission is **29.02.2020, 14:00 Paris Time**.

Complete this form and attach your resume in the same .pdf.

Incomplete submission will not be evaluated.

Declarations:

- The applicant declares to have the explicit consent of all co-applicants on their participation and on the content of this proposal.
- The information contained in this proposal is correct and complete. The applicant is responsible for the correctness of the information.
- This proposal complies with ethical principles (including the highest standards of research integrity and including, in particular, avoiding fabrication, falsification, plagiarism or other research misconduct).

29.02.2019	Closing date of applications
31.05.2020	Notification of Laureates
24.06.2020	Innovation Awards Roullier Ceremony
From 01.10.2020 to 01.01.2021	Expected start of research projects

2. Scientific Scope - Plant Nutrition Category

As natural medium for growth of plants, soil plays a vital role for the future of agriculture. Soil can be studied following three main views:

- **Physical characteristics** to contribute to water holding capacity, permeability to water, aeration, plasticity and nutrient supplying ability
- **Chemical properties** to improve the soil fertility and accessibility of plants to mineral nutrition
- **Biological traits** to serve well-purposed functions of soil

Innovation Awards Roullier 2020 wish to promote innovative approaches emphasizing the soil as a key player for the resilience of agriculture **and** profitability of crop production. In this framework, Innovation Awards Roullier 2020 will support research on:

- Soil fertility and plant nutrition
- Soil structure and water use efficiency
- Linking between soil and plant health and final productivity
- Soil management agro-based ecology
- Soil organic matter
- Soil management and climate change
- Soil microbiome
- Soil properties and farming systems resilience
- Soil biodiversity and functions

Successful proposal must include a plan for **valorization of the results** (patent, publications) and address the following area in soil science:

- **Sustainable intensification** of crop production systems by imaging novel approaches to manage **soil fertility, plant nutrition and crop health**
- **Product innovation** and services generated through **efficient crop management systems** based on new technologies, bio-based raw materials, **natural products** or industrial processes
- **Resilient crop production** systems allowing growth and intensification of agriculture under climate change and environmental impact like **biotic and abiotic stresses**

3. Scientific scope - Animal Nutrition Category

Animal production is constantly facing new challenges in addition to being responsible for feeding the world's population, which is expected to reach 10 billion human beings in 2050.

Animal feed is one of the main levers we can use to improve the performance of animal production. Other aspects are also important, such as animal health and welfare, product quality and safety, environmental impact and consumer and citizen expectations.

The main livestock species (i.e., swine, poultry and ruminants) require new solutions adapted to the types and stages of production (growing, gestating, lactating...), and to the different production conditions (conventional, high welfare, and alternative production systems).

Innovation Awards Roullier 2020 wish to promote innovative approaches focusing on animal nutrition (multispecies) in order to develop new and alternative feed products. We propose three main views:

- **Mineral nutrition and availability (Ca, P and Mg)**
- **Intestinal health and immunity**
- **Animal welfare and behavior**

In this framework, Innovation Awards Roullier 2020 will support research on:

- Increasing mineral efficiency (Ca, P, Mg) and develop new indicators of resource availability.
- Innovative key actions in magnesium-based or phosphorus-based animal feed (bioavailability, formulation and development of new products).
- Preservation of animal health to reduce the need for antibiotics.
- Innovative key action and formulations for the management of mycotoxin in ruminant or monogastric feed.
- Mycotoxins in aquaculture.
- Algae in animal feed (characterization, formulation and new products).
- Accommodate animal welfare demands (formulation and new products) in inorganic bedding.
- Accommodate animal welfare demands (formulation and new products) in biogas.
- Silage (organic or not-organic) conservation.

Successful proposal must include a plan for **valorization of the results** (patent, publications).

Application Form

1. Legal entity

Country	
University/Research Institute	
Department	
Laboratory	
Leader	
Address	
Website	

2. Project Acronym

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3. Contest Category

Plant Nutrition Animal Nutrition

4. Project Title (max. 120 characters)

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5. Abstract (max. 300 words)

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6. Duration (max. 18 months)

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7. Targeted Challenges (multiple selection according to your category)

Plant Nutrition		Animal Nutrition
<input type="checkbox"/> Plant Nutrition	<input type="checkbox"/> Climate Change	<input type="checkbox"/> Animal Nutrition
<input type="checkbox"/> Production Quality	<input type="checkbox"/> Water Management	<input type="checkbox"/> Mineral Nutrition
<input type="checkbox"/> Plant Health	<input type="checkbox"/> Soil Management	<input type="checkbox"/> Mineral Availability
<input type="checkbox"/> Precision Agriculture and Digitalization	<input type="checkbox"/> Agro-Ecology	<input type="checkbox"/> Animal Welfare and Behavior
<input type="checkbox"/> Agro Food Value Chain	<input type="checkbox"/> Farming System Transition	<input type="checkbox"/> Intestinal Health
		<input type="checkbox"/> Immunity

8. Fixed Keywords (multiple selection according to your category)

Plant Nutrition		Animal Nutrition	
<input type="checkbox"/> Soil Microbiome	<input type="checkbox"/> Soil Health	<input type="checkbox"/> Ruminants	<input type="checkbox"/> Animal Health
<input type="checkbox"/> Soil Practices	<input type="checkbox"/> Soil Intensification	<input type="checkbox"/> Swine	<input type="checkbox"/> Gut health
<input type="checkbox"/> Soil Chemistry	<input type="checkbox"/> Soil Fertility	<input type="checkbox"/> Poultry	<input type="checkbox"/> Immunity
<input type="checkbox"/> Soil Erosion	<input type="checkbox"/> Soil Salinity	<input type="checkbox"/> Aquaculture	<input type="checkbox"/> Antibiotic Reduction
<input type="checkbox"/> Soil Organic Matter	<input type="checkbox"/> Soil Pollution	<input type="checkbox"/> Mineral Nutrition	<input type="checkbox"/> Mycotoxin
<input type="checkbox"/> Soil Services	<input type="checkbox"/> Soil Cares	<input type="checkbox"/> Phosphorus	<input type="checkbox"/> Inorganic Bedding
<input type="checkbox"/> Soil-Plant Interactions	<input type="checkbox"/> Soil Structure	<input type="checkbox"/> Magnesium	<input type="checkbox"/> Biogas
<input type="checkbox"/> Soil Resilience	<input type="checkbox"/> Soil Biodiversity	<input type="checkbox"/> Algae Feed	<input type="checkbox"/> Silage Conservation

9. Free Keywords (max 5)

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10. Applicants Information (max. 2 persons)

Title	First name	Last name	Mail address	Phone number	Role in project

11. Main relevant publications for this call, you can attach them in the appendix

1.	
2.	
3.	
4.	
5.	

CRITERIA

1. EXCELLENCE

1.1 Does the proposal represent a cutting-edge thinking? (max. 150 words)

1.2 Describe the hypotheses and objectives of the proposal (max. 150 words)

1.3 What are the background and preliminary works? (max. 150 words)

1.4 Is the proposal related to another project in which the applicant is involved? (max. 150 words)

2. IMPACT

2.1 Explain the economic impact and benefits for industry (max. 150 words)

2.2 Explain the relevance of expected results for scientific progress (max. 150 words)

2.3 Explain the outreach activities of results (max. 150 words)

2.4 What are the main outcomes (knowledge, publications, patents, products)? (max. 150 words)

3. IMPLEMENTATION

3.1 Workplan, Tasks and Methods (max. 2 pages)

3.2 Estimated Cost et Financing

	Details	Costs
<i>Salaries</i>		. €
<i>Consumables</i>		. €
<i>Subcontracts</i>		. €
<i>Other costs</i>		. €
TOTAL COSTS		. €

Appendices

Attach, hereafter, your resume

You can also join your relevant publications