

2^{ED} NATIONAL SCIENTIFIC DAY

OXIDATIVE STRESS & CATTLE REPRODUCTION



13 December
2025

AXIS 1: METHODS FOR ASSESSING
OXIDATIVE STRESS

AXIS 2: OXIDATIVE STRESS & REPRODUCTION
IN BULLS

AXIS 3: OXIDATIVE STRESS & REPRODUCTION
IN DAIRY CATTLE

AXIS 4: OXIDATIVE STRESS IN VETERINARY
MEDICINE



IMPORTANT DATES

Deadline for submitting abstracts

November 30, 2025

Acceptance notification:

December 06, 2025

Email: nsday.gral@gmail.com

Event summary:

Oxidative stress plays a crucial role in dairy cow reproduction. It occurs when the balance between free radicals and antioxidants in the body is disrupted, which can cause damage to cells and tissues. This stress can be caused by various factors such as environmental changes, infections and poor nutrition. In farm animals, as in humans, oxidative stress is generated by physiological, environmental or nutritional stressors. Many biological molecules (lipids, proteins, carbohydrates, nucleic acids) can be 'oxidised' by the radical species generated during oxidative stress. In dairy cows, oxidative stress can lead to reduced fertility, lower conception rates and increased embryo mortality. Managing oxidative stress through proper nutrition, reduction of environmental stressors and the use of antioxidants can improve reproductive performance and overall health in dairy cows. In bulls, it can affect sperm quality, leading to decreased sperm motility (ability to move), DNA fragmentation and reduced sperm cell viability. These problems can lead to decreased fertility and reproductive difficulties. Similarly, there are strong correlations between various metabolic diseases or infectious or inflammatory conditions and antioxidant deficiency. To this end, a meeting between Algerian researchers will enable an assessment to be made of the scientific work carried out on the involvement of oxidative stress in the field of bovine reproduction and, consequently, create a space for collaboration between the various national research entities.

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Instructions for authors

- Language: French, English
- Abstract: 250-350 words.
- Type of communication: oral/poster
- Topics: 1/2/3/4
- Title: Times New Roman, 14 pts, centred, bold.
- Authors: Times New Roman, 12 pts, centred, bold, first name, surname¹, ... (1 affiliation) Highlight the name of the main author. Affiliation of the author/co-author: Times New Roman, 10 pts, centred, italics. Email address of the main author: Times New Roman, 10 pts, centred.
- Abstract text: Times New Roman, 11 pts, single spacing, justified.
- Keywords: 3 to 5 keywords (Times New Roman, 11 pts).
- Posters: A1 format.
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