

# Prospects and Development Plans of European Animal Science

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## Curriculum Vitae

Dr. Andrea Rosati is the Secretary General of the European Federation of Animal Science (EAAP) and of the World Association for Animal Production (WAAP). He is an accomplished figure in livestock science, combining academic achievement with extensive international management experience. After studying Animal Science in Italy, he earned MSc and PhD in Animal Science in the United States. He spent years in national and international roles managing animal performance recording, genetic evaluations, and global regulatory standards. As a professor, he taught statistics in veterinary faculties at Italian universities and co-managed multiple EU-funded research projects. He co-founded four scientific journals, authored three books and numerous articles, and organizes conferences, webinars, and workshops worldwide. He has managed since more than 20 years EAAP and WAAP. He was honoured with, among the others, the Knight of the French Order of Agricultural Merit and the International Award of American Society of Animal Science. Widely respected, he frequently advises on agriculture, livestock innovation, and global food security.



# Prospects and Development Plans of European Animal Science

European animal science stands at a critical juncture, shaped by converging pressures that simultaneously challenge traditional practices and open new research frontiers. Climate change, resource scarcity, evolving consumer expectations, regulatory frameworks, and the acceleration of digital technologies are redefining the boundaries and priorities of the discipline across the continent. This contribution outlines the current state of European animal science and identifies the strategic directions that will guide its development in the coming decade. Key areas of transformation include the adoption of precision livestock farming (PLF) tools like sensors, artificial intelligence, and data analytics, that are enabling real-time monitoring of animal health, welfare, and productivity. Alongside technological innovation, significant efforts are being directed toward reducing the environmental footprint of livestock production, with particular focus on enteric methane mitigation, circular feed systems, and land use efficiency.



The integration of animal science within broader One Health frameworks represents another important path, reflecting growing awareness of the interdependencies among animal, human, and ecosystem health. In parallel, the sector is confronting structural challenges: workforce renewal, the translation of scientific knowledge into scalable farm-level practices, and the need to maintain competitiveness within an increasingly regulated and market-sensitive environment. European scientific associations, research networks, and industry stakeholders play a central role in coordinating these transitions, fostering cross-disciplinary collaboration and ensuring that innovation remains grounded in robust evidence. The development of structured dialogue between academia and the productive sector is identified as a priority to bridge persistent gaps between research outputs and practical implementation. This contribution argues that the future of European animal science depends on its capacity to embrace complexity, foster interdisciplinary thinking, and position itself as a driver of sustainable food system transformation.