

PREFACE

The 1st International Conference on Veterinary, Animal, and Environmental Sciences (ICVAES 2019) is an international conference organized by Faculty of Veterinary Medicine, Universitas Syiah Kuala, that was held in Banda Aceh, Aceh, Indonesia, on October 15-16, 2019. The present conference's theme is **“Strengthening Food and Environmental Securities Through Development of Research and Technology in Veterinary, Animal, and Environmental Sciences”**.

The 1st ICVAES 2019 provides a very unique for all of us because this conference covers a wide range of topics in the Veterinary and animal sciences such as in a veterinary pharmaceuticals, food safety, zoonotic disease, animal biotechnology, veterinary biotechnology, marine biotechnology, animal husbandry, aquaculture and also physiology, reproduction, parasitology and animal nutrition. This also provided in Environmental Sciences such as in environmental biology, animal biodiversity, marine biodiversity, natural resources, climate change, and animal conservation.

This conference is attended by 6 invited speakers Prof. Dr. drh. Bambang Purwantara, M.Sc (Department of Veterinary Clinic Reproduction and Pathology, IPB University, Indonesia), Dr. Nadine Ruppert (School of Biological Sciences, University Sains Malaysia, Malaysia), Joe J. Figel, Ph.D. (Highline College, USA), Dr. Noor Khalidah Abdul Hamid (Pusat Pengajian Sains Kajihayat, Universiti Sains Malaysia, Malaysia), Dr. Julie Duboscq (The French National Centre for Scientific Research (CNRS, French), Prof. Dr. Faridah Hj. Hassan (Universiti Teknologi MARA, Malaysia).

It is also hoped that the conference will improve enhance collaborations in the future, between researchers from the countries in the region and those from various countries to solve the problems and to face the challenges of the Industrial Revolution 4.0. We sincerely hope that this conference will give a positive impact on every institution. All the accepted and presented manuscripts will be published as **Proceeding in E3S Web of Conferences, indexed by Scopus, Thomson Reuters, Proquest, EBSCO, CAS, and DOAJ**. Thank you to Rector Universitas Syiah Kuala, keynote speakers, invited speakers, the committee of ICVAES 2019, and all parties who have helped and provided support so that this conference can be held well.

Best regard,

Dr. Gholib, S.Pt., M.Si
Chairman of ICVAES 2019

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