

Director's letter

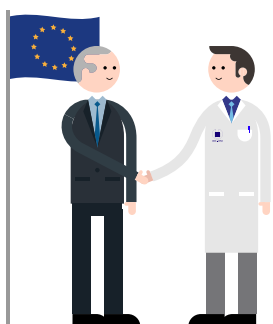
Ladies,
Gentlemen,

In recent years, CODA-CERVA has successfully pursued its mission as a centre of excellence that has become a reference in the field of animal health and safety in the food chain. Intent on operating in the best interests of citizens, professionals and the authorities, both in Belgium and abroad, our employees have stayed the course by relentlessly continuing their scientific work and research.

On 2 May 2017, as part of a day dedicated to Belgium, Vytenis Andriukaitis, European Commissioner for Health and Food Safety, honoured us with his presence during an official working visit. It took place on the CODA-CERVA site in Uccle in the presence of Maggie De Block, Federal Minister of Public Health and Social Affairs, Willy Borsus, Federal Minister of Small Enterprises and Agriculture, and a delegation of senior officials from various administrations active in the wider health sector.

This visit illustrates the importance the Belgian and European authorities afford to the crucial role of CODA-CERVA which, through the performance and reliability of its research work, helps guarantee safety in the food chain and secure the high quality of human and animal health.

During this working visit, Mr Andriukaitis wished to meet both scientists from CODA-CERVA and the Scientific Institute of Public Health (WIV-ISP), because of the complementary nature of the activities of the two institutions, but also in the light of their merger, within a few months, into a single federal institute known as Sciensano.



I would like to thank you wholeheartedly for the unwavering confidence that you have shown us for many years now and make the most of this opportunity to look back, through a selection of topics, at the main highlights that have marked the life and scientific activities of CODA-CERVA over these past three years.

In the hope that this summary makes for an enjoyable read,

Yours sincerely,

Pierre Kerkhofs
General Director CODA-CERVA

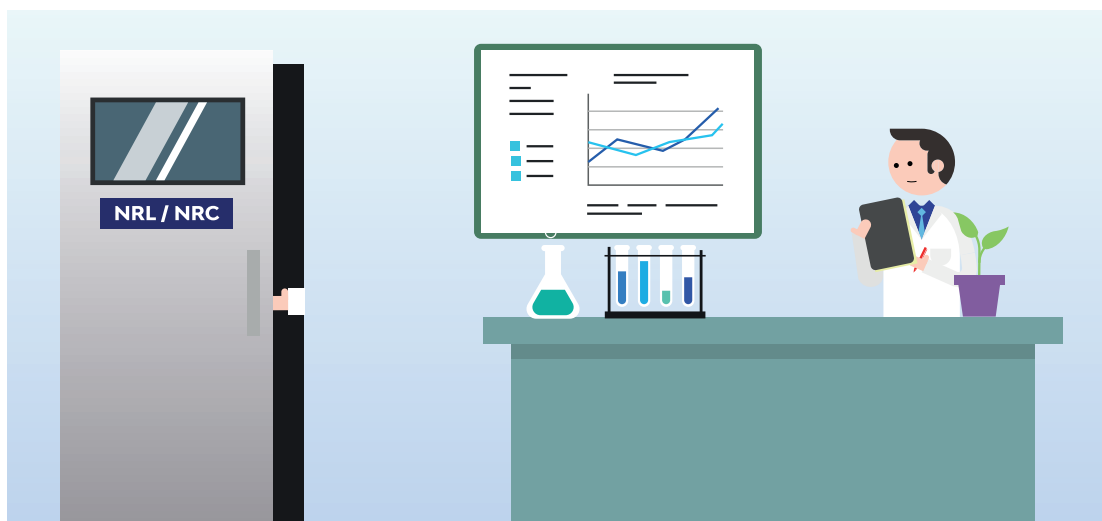
Our achievements

Epizootic diseases

CODA-CERVA is actively working to protect herds from the introduction of one or more epizootic diseases in Belgium. Our work has focused, among others, on capripox-induced diseases in sheep, goats and cattle, with a particular interest in the currently fast-spreading lumpy skin disease (LSD).

Conducted at national and international levels, and in collaboration with Morocco in particular, our studies have been supported by national, European and international donors. They have allowed us to improve our understanding of the epidemiological situation and aspects related to the transmission of the virus responsible for LSD. For example, our researchers have been able to characterize the best vaccine to use in case of introduction, while coupling it with the most appropriate diagnostic test.

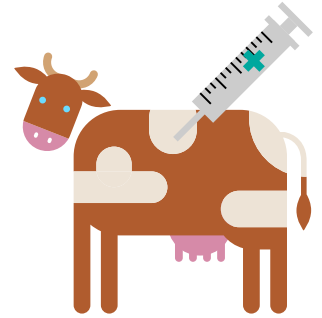
Starting in 2015, they compared the effectiveness and safety of vaccines and studied the transmission of the LSD virus, a task they are still pursuing to this day. Our teams have also developed a test that makes it possible to discriminate between infected and vaccinated animals (DIVA). This scientific work has contributed to the international recognition of CODA-CERVA in this field, and justified its application for the status of European Reference Laboratory for diseases caused by capripox. Our efforts have proved successful and the mission of European Reference Laboratory for Lumpy Skin Disease (LSD) was officially granted to CODA-CERVA on 1 January 2017.



Our achievements

Foot-and-mouth disease

As part of the European '*Prevention is better than cure*' strategy, vaccination against foot-and-mouth disease remains a health and veterinary priority. Following our work on in vitro measurement of vaccine efficacy, we studied the development of antiviral molecules that make it possible to block the replication of the virus pending the development of active immunity in infected animals. These studies were conducted in partnership with KU Leuven, the Rega Institute and Aratana.



In order to remain in direct contact with the regions of the world where the foot-and-mouth disease virus is prevalent, CODA-CERVA participated in a twinning project promoted by the Food and Agriculture Organization of the United Nations (FAO). This was carried out between 2014 and 2017 with the National Veterinary Institute of Nigeria, as well as with Botswana. We have set up a similar collaboration with Burundi and we will submit a new project to the World Organization for Animal Health (OIE) by the end of this year.

Bluetongue

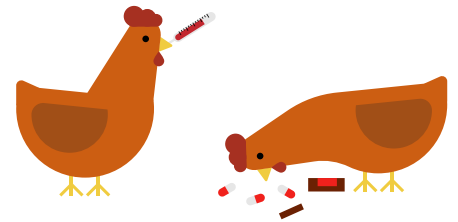
Bluetongue is a viral disease that affects domestic and wild ruminants. It is transmitted through mosquitoes of the genus *Culicoides*. The serotype 8 of this virus - which circulated epidemically in northern Europe between 2006 and 2009 - reappeared in France in the department of Allier in August 2015. CODA-CERVA epidemiologists were brought in at the time to evaluate the different vaccination measures to be considered, on the basis of a cost/benefit analysis of each vaccination strategy applied to the various situations of our Belgian flocks.



Our achievements

Bird flu

The highly pathogenic H5N8 bird flu virus made a new appearance in Europe at the end of 2016, in an advanced form and better adapted to wildlife. In response to these first European appearances, the Belgian authorities imposed additional preventive measures on professional and amateur breeders. Increased clinical vigilance has also been imposed on both domestic and wild birds. Despite these measures, a few cases of the H5N8 virus were observed in Belgium, in February and March 2017 in a first wave, and in June 2017 in a second.



Our researchers have managed to link most of the contaminations observed in June with the purchase of live animals sold in markets. The European Reference Laboratory carried out a series of sequencings for phylogenetic analysis. This revealed the presence of at least two independent contaminations in February/March. It also highlighted a close link between strains from samples taken in Belgium in June, and strains circulating in the Grand Duchy of Luxembourg and the United Kingdom (where the last cases were observed at the end of May).

These results demonstrate the importance of the work done by CODA-CERVA and the National Reference Laboratories (NRLs) in the identification, molecular characterization and epidemiology of major pathogens.

Vectorial diseases

In the wake of the Schmallenberg virus outbreak and the return of the bluetongue virus serotype 8 (BTV8), CODA-CERVA has been particularly active in research on vector-borne diseases. For example, our experts investigated the role of vectors in LSD or the pathogenesis and transmission of the Japanese encephalitis virus JEV in pigs.

As a National Reference Laboratory for West Nile Virus in birds, our avian Virology service identified the first strains observed in blackbirds and birds of prey in Belgium. They also tracked the Usutu virus outbreak.

Our achievements

Enzootic diseases

CODA-CERVA hosts the National Reference Laboratory for Enzootic Diseases. Mandated by the competent authorities, our experts ensure the quality of the diagnoses made in the front-line centres, such as DGZ Vlaanderen and ARSIA. They can, for example, decertify certain diagnostic reagents used, but also perform interlaboratory tests at Belgian and European levels. This is the case, for example, for infectious bovine rhinotracheitis (IBR), a disease whose declaration is now mandatory, or for bovine viral diarrhoea (BVD), for which an eradication programme kicked off in January 2015.

In terms of certification of diagnostic kits, processes are currently well integrated within each laboratory. For example, as part of the official IBR and BVD control plans for cattle, in 2016 our 'Enzootic and (re) emerging diseases' service carried out initial or complementary certifications of diagnostic kits used in the field. Our experts also controlled about fifty lots.

Bovine tuberculosis

With the emergence of new outbreaks on cattle farms and alpaca farms, bovine tuberculosis remained a major concern. Through their molecular typing and epidemiology work, our researchers have managed to establish a link between these new outbreaks and wildlife, on the one hand, and the importation of animals from high-prevalence countries, on the other.

By validating innovative diagnostic methods offering new perspectives in screening, our scientists have also played a major role in the 'Tuberculosis' working group set up by the Federal Agency for Safety in the Food Chain (FAVV-AFSCA). The contribution of CODA-CERVA made it possible to adapt the surveillance program for bovine tuberculosis to the epidemiological situation and the current economic challenges faced by farms.

Finally, CODA-CERVA has obtained funding for a pilot project in partnership with ARSIA and DGZ Vlaanderen, whose objective is to evaluate the IFN γ cytokine detection test as an alternative to intradermoreaction to detect positive animals.

Brucellosis and Q-fever

As another sign of confidence in the expertise of CODA-CERVA, the National Institute of Health Insurance-Disability (RIZIV-INAMI) has elected our institution to host the National Reference Centre of two major zoonoses, brucellosis and Q fever. In addition to our mission as a National Reference Laboratory for the safety of the food chain, this designation by RIZIV-INAMI undeniably offers further proof of the importance of our missions at the service of public health. Finally, an international workshop dedicated to Q fever was organised at CODA-CERVA as part of the Med-Vet-Net project.

Our achievements

Salmonellosis

As one of the most harmful zoonotic agents, swine salmonellosis is a real source of concern for Belgian health and veterinary authorities, which is why our scientists are actively working with them to develop an on-farm eradication programme. The aim of this close collaboration is obviously to further improve the sanitary quality of pork.

Avian salmonellosis remains the second most important zoonosis reported in Belgium. The authorities have therefore started a monitoring programme for this pathogen in poultry farms, with a particular focus on the resistance of isolated germs to antibiotics. As this resistance is likely to impact antibiotic treatments administered to humans, this surveillance programme has become mandatory at European level. Our scientists played a major role in the implementation of this programme at the Belgian level. With this in mind, they made a significant contribution to the study of the resistance of the bacterium *Staphylococcus aureus* to meticillin (MRSA).

Bee disease

Our experts have developed microscopic and molecular tests that are effective for most regulated diseases. They also took an active part in coordinating the new HealthyBee project, which aims to provide scientific support to beekeepers.

Reactivity - Proactivity

As part of the new *Mycoplasma gallisepticum* (CRD) infection control legislation, our 'Bacterial Diseases' service validated the PCR test that will be used for field screening. Faced with a shortage of BTV diagnostic kits, the 'Vesicular and exotic diseases' service carried out an emergency validation to allow the first-line laboratories to have access to validated diagnostic reagents. At the request of the sector, our scientists from the 'Bacterial zoonosis of livestock' service performed a validation on milk for the serological diagnosis of paratuberculosis.

In the field of diseases affecting small ruminants, our laboratory also conducted an analysis of the prevalence, genetic variation and interspecies transmission of sheep and goat lentiviruses (Visna-Maedi and CAEV). Their work was aimed at improving the diagnosis and supporting the programme of voluntary control of these conditions in Belgium.

Our achievements

Nanomaterials

In the field of safety in the food chain, the physico-chemical characterization of nanomaterials constitutes an important axis of our scientific research. In fact, while nanomaterials are increasingly used in various industrial applications, including food, health authorities lack the scientific knowledge necessary to develop standards to ensure the safety of users and consumers.

The mission of CODA-CERVA's scientists focuses on the use of nanomaterials in the food chain. Their work is carried out in the framework of European collaborations (DG SANTÉ, EFSA, JRC) and combines very advanced chemical analyses and the physical characterization of nanoparticles thanks to electron microscopy.

Launched in 2016 with funding from the FPS Public Health, the 'Nanofood @' project aims to determine the physical and chemical properties of nanomaterials present in three common food additives: titanium dioxide (E171), silver (E174) and gold (E175). EFSA recently confirmed its financial participation in the continuation of this project. With this expression of confidence, EFSA acknowledges CODA-CERVA's strong expertise in nanomaterials research.

Mycotoxins

Our scientists have been active contributors to an international training course entitled BTSF (Better Training for Safe Food) in the field of mycotoxins and their laboratory characterization. The first cycle was rolled out in 2015 at CODA-CERVA, followed in 2016 by a second cycle in Rome. The participation of CODA-CERVA has also been renewed for the years 2017 and 2018.

Our specialists in mycotoxins also successfully participated, at the level of the European Committee for Standardization (CEN), in the standardization of the chemical analysis of the detection of citrinin in food using the 'liquid chromatography tandem mass spectrometry' method (LC-MS/MS).

Finally, our work on large-scale preparation of mycotoxin analysis standards has been recognised by the Shanghai Academy of Agricultural Sciences (SAAS), with which we have signed a collaborative framework agreement and carried out two exchange missions in 2016 and 2017.

Our achievements

Publications, initiatives and scientific participation

Over the last three years, the number of publications has remained stable compared to previous years. Nevertheless, we took a conscious decision to focus on new technologies. For example, in 2016, our molecular platform published 16 articles in collaboration with the Reference Laboratories, exploring in particular the Next Generation Sequencing (NGS) technology. Similarly, CODA-CERVA organized two workshops of the Epizone network on bioinformatics and NGS as part of a project on coronaviruses.

We also organised two symposia on animal health in 2016 and 2017, dedicated to topics such as 'Abortion Protocol' and 'Enzootic and (re)emerging bovine viral diseases'. These symposia, to which foreign speakers were invited, were a resounding success. They brought together many animal health stakeholders, such as FAVV-AFSCA, ARSIA, DGZ Vlaanderen, Universities and experts from the Grand Duchy of Luxembourg.

With ERA-SURV, the National Reference Laboratories are an integral part of the new Plasur surveillance platform. Coordinated by FAVV-AFSCA, this project aims to draft a protocol between the public and private partners and the sectoral organizations concerned with veterinary epidemiology and public health (for the part devoted to zoonoses).

CODA-CERVA is also part of the 'Wildlife' working group organised by FAVV-AFSCA and the Regions. This project aims to better structure the surveillance of diseases affecting wildlife in Belgium, in order to increase its effectiveness.

Finally, the cooperation between CODA-CERVA and ANSES (French Agency for Food Safety, Environment and Labour in France) has continued at various levels. In this respect, the 2016 visit of the 'Deputy Director General of Laboratories' was an opportunity to review our existing lines of collaboration, to strengthen them and to identify new ones. The renewal of our Collaborative Framework Agreement for a further three years was formalised on 19 September 2017.

University

In August 2016, CODA-CERVA organised a meeting with FARAH, a research organisation within the Faculty of Veterinary Medicine of the University of Liège, to establish synergies and complementarities. Two areas of collaboration have already been identified: the (re)integration of CODA-CERVA into the veterinary doctoral school and a collaboration within the framework of the Specialisation Master in 'Integrated Management of Health Risks in Southern Countries' (GIRISS) organised by the Tropical Veterinary Institute of the University of Liège. Moreover, we also participate in the infectious diseases research centre of the University of Namur (Narilis).

Our achievements



Sciensano

CODA-CERVA and the Scientific Institute of Public Health (WIV-ISP) will merge in the coming months to create a new federal research centre called Sciensano.

With the imminent birth of this new institution, and in the framework of the Horizon 2020 programme of the European Union, CODA-CERVA and WIV-ISP participated in the construction and submission of the European Joint Research Project called 'One Health'. Submitted in February, this ambitious project was selected in June 2017 and will be launched in January 2018.

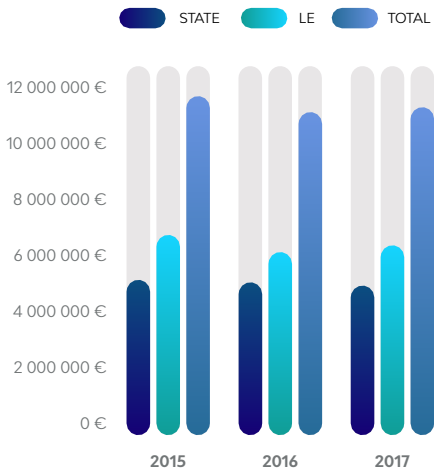
As regards chemical safety of the food chain, the relevant services of CODA-CERVA and WIV-ISP also joined forces to respond to FAVV-AFSCA call for tenders to award two National Reference Laboratory (NRL) mandates. Both applications submitted were accepted. They concerned 'Food Contact Materials, Heavy Metals and Nanomaterials', on the one hand, and 'Mycotoxins, Plant Toxins and Marine Toxins', on the other hand.

Finally, it should be emphasised that close collaboration between our scientists and their counterparts at the Scientific Institute of Public Health (WIV-ISP) will help develop a coordinated approach to the analysis of the antimicrobial resistance phenomenon. At Sciensano, they will continue to pursue several common objectives, such as reducing antibiotic consumption in farms and hospitals or improving the therapeutic efficacy of antibiotic treatments in human medicine.

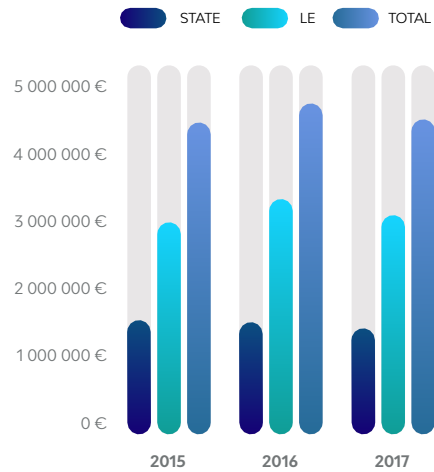


Budget

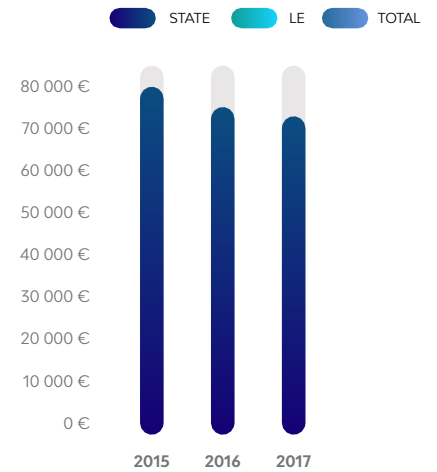
STAFF



OPERATING EXPENSES



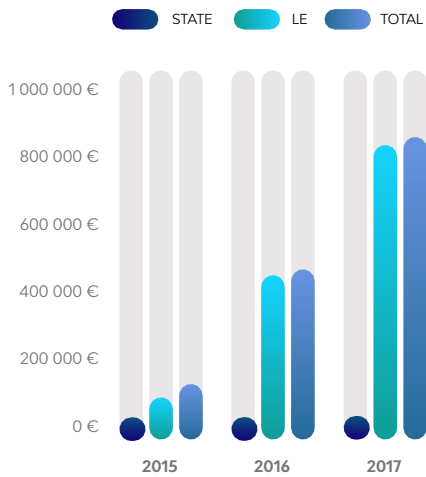
INFORMATICS EXPENSES



INVESTMENTS



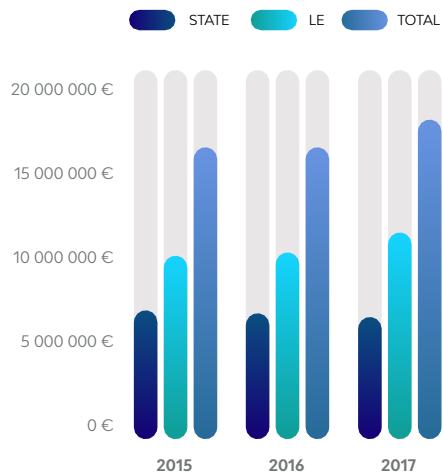
INVESTMENTS IN INFORMATICS



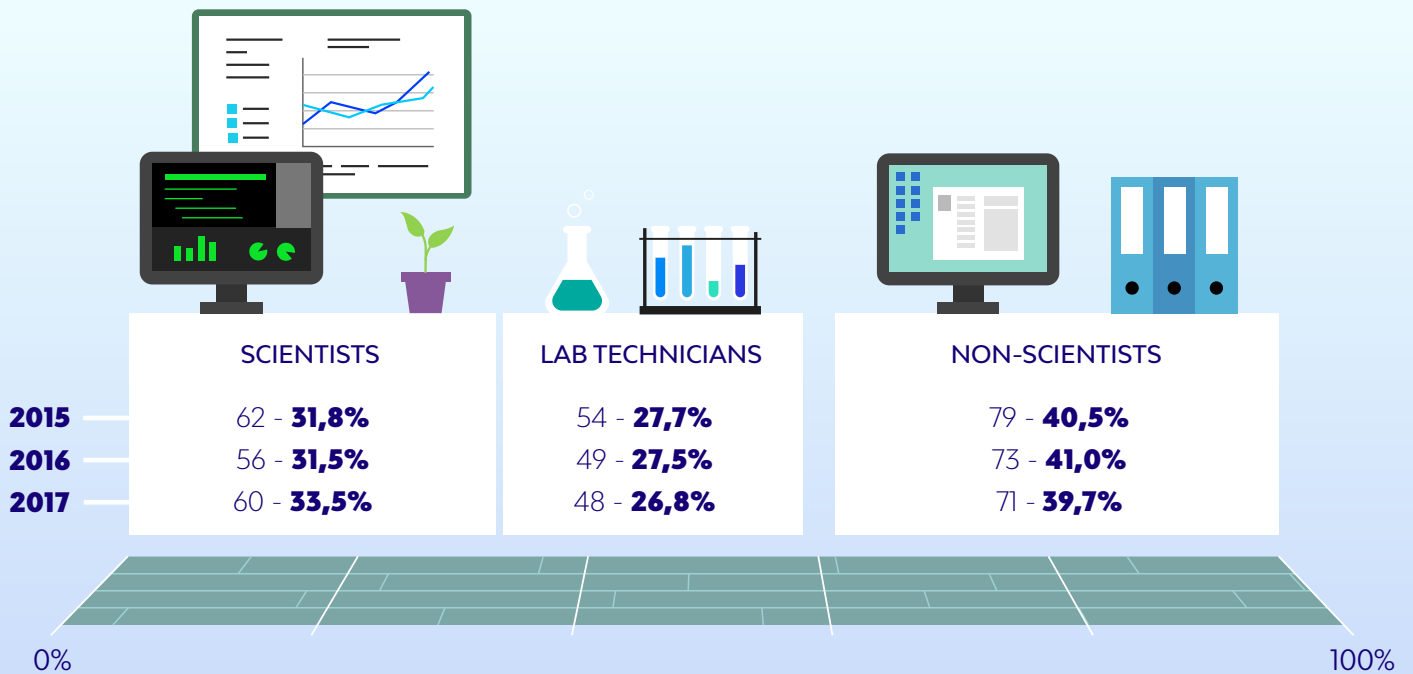
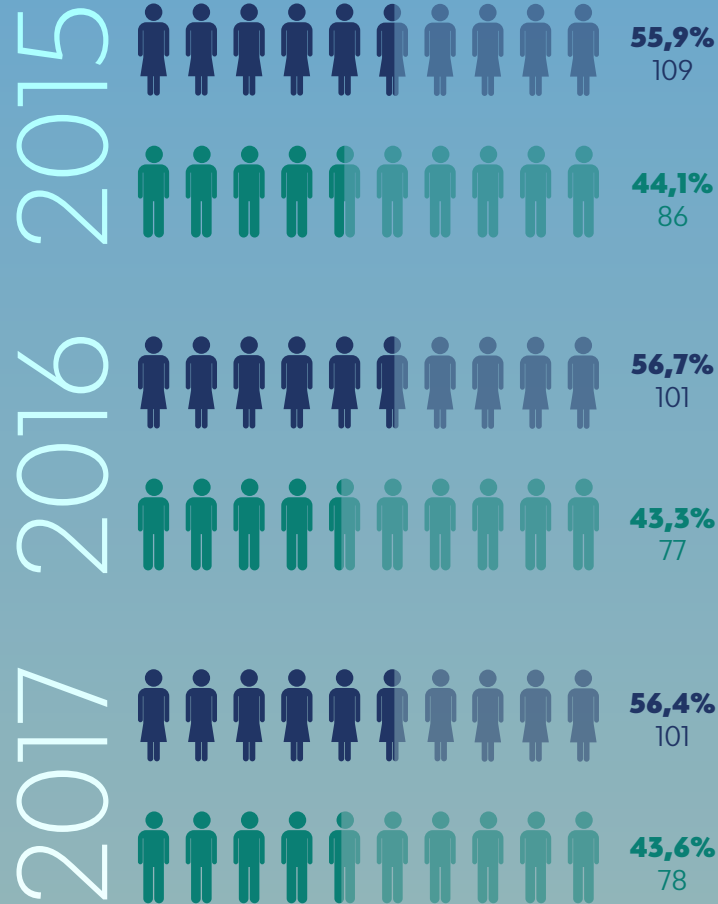
INVESTMENTS IN PROPERTY



TOTAL



Staff



Our publications in 2015-2017

Scientific articles

- Impact of *Acanthamoeba* Cysts on stress resistance of *Salmonella enterica* serovar Typhimurium, *Yersinia enterocolitica* 4/O:3, *Listeria monocytogenes* 1/2a, and *Escherichia coli* O:26. E. Lambrecht; J. Baré; K. Sabbe; K. Houf. *Appl Environ Microbiol.* 2017. DOI: 10.1128/AEM.00754-17
- The need for European OneHealth/EcoHealth networks. H. Keune; L. Flandroy; S. Thys; N. De Regge; M. Mori; N. Antoine-Moussiaux; M.P.M. Vanhove; J. Rebolledo; S. Van Gucht; I. Deblauwe; W. Hiemstra; B. Häsler; A. Binot; S. Savic; S.R. Ruegg; S. De Vries; J. Garnier; T. van den Berg. *Arch Public Health.* 2017. DOI: 10.1186/s13690-017-0232-6
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- Exploring the diversity of field strains of *Brucella abortus* biovar 3 isolated in West Africa. M. Sanogo; D. Fretin; E. Thys; C. Saegerman. *Front Microbiol.* 2017. DOI: 10.3389/fmicb.2017.01232
- Complete coding sequence of Usutu Virus strain *Gracula religiosa/U1609393/Belgium/2016* obtained from the brain tissue of an infected captive common hill myna (*Gracula religiosa*). S. Van Borm; B. Lambrecht; F. Vandenbussche; M. Steensels. *Genome Announc.* 2017. DOI: 10.1128/genomeA.00042-17
- Complete genome sequence of an avian metapneumovirus subtype A strain isolated from chicken (*Gallus gallus*) in Brazil. L.S. Rizzato; G.P. Scagion; T.C. Cardoso; R.M. Simão; L.C. Caserta; J.C. Benassi; L.B. Keid; T.M.F. de S. Oliveira; R.M. Soares; C.W. Arns; S. Van Borm; H.L. Ferreira. *Genome Announc.* 2017. DOI: 10.1128/genomeA.00688-17
- Complete genome sequence of the Lumpy Skin Disease virus isolated from the first reported case in Greece in 2015. E.I. Agianniotaki; E. Mathijs; F. Vandenbussche; K.E. Tasioudi; A. Haegeman; P. Iliadou; S.C. Chaintoutis; C.I. Dovas; S. Van Borm; E.D. Chondrokouki; K. De Clercq. *Genome Announcements.* 2017. DOI: 10.1128/genomeA.00550-17
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 - ⓪ Development and validation of a TaqMan probe-based real-time PCR method for the differentiation of wild type lumpy skin disease virus from vaccine virus strains. E.I. Agianniotaki; S.C. Chaintoutis; A. Haegeman; K.E. Tasioudi; I. De Leeuw; P.D. Katsoulos; A. Sachpatzidis; K. De Clercq; T. Alexandropoulos; Z.S. Polizopoulou; E.D. Chondrokouki; C.I. Dovas. *J Virol Methods*. 2017. DOI: 10.1016/j.jviromet.2017.08.011
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