

## **10. Research programmes, continuing and postgraduate education**

### **10.1. Factual information**

#### **10.1.1. Description of how the research activities of the Establishment and the implication of most academic staff in it contribute to research-based undergraduate veterinary education**

Teaching activity is regularly updated by the academic staff members drawing on not only the ULPGC research activities, but also the relevant published literature. In most of the lecturer's presentations, the evidence-based medicine is highlighted by the references to various sources of information, mostly peer-reviewed papers. The combined presentation and discussion of current external and internal research topics ensures the continuing up-to-date state of knowledge base of the undergraduate students.

Members of Academic staff are encouraged to complete research activities as part of the normal workload in a University Institution like the ULPGC as described in Chapter 9. The Research Structure of the ULPGC is organized into Research Groups ([Link to the List of Groups](#)).

The ULPGC has its own Regulation for recognising Research Groups which is based on their research activity and scientific productivity (i.e. participation in competitive projects, publications, patents, the defence of PhD Theses defended, etc). Therefore, every year the Research Groups activity is monitored by the Vice-Rectorate of Research and the groups are classified as type A+, type A and type B. For type B, two consecutive years in this last category means the loss of the current category.

All the ULPGC Research activity is published on the ULPGC website ([link](#)). A list of publications completed by Academic Staff is included in ANNEX XII (2015, 2016, 2017, 2018). In the last available Research Report (that of 2016 at the moment of writing of the present SER), the reader can find the classification of the Research Groups from page 30 onwards. The Research Groups related to the Faculty of Veterinary Medicine are the following (in the Productivity Category):

- **Animal Nutrition, Rural development and Rural Economy (A)**
- **Applied Anatomy and Herpetopathology (A)**
- **ECOAQUA – Aquaculture Research Group (A+)**
- **IUIBS – Veterinary Medicine and Therapeutic Research (A+)**
- **IUIBS – Environment and Health Group GIMAS (A+)**
- **IUSA – Animal Production and Biotechnology (A+).**
- **IUSA – Animal Reproduction (A)**
- **IUSA – Aquaculture and Wild Species Health, Infectious Diseases (A+)**
- **IUSA – Epidemiology and Veterinary Preventive Medicine (A+)**
- **IUSA – Histology and Veterinary Pathology (A+)**
- **OHAPA Research Group (A)**
- **Parasitology, dermatology and veterinary clinical pathology (A+)**

Collaborative scholarships: the Ministry of Education, Science and Sports and the ULPGC (from its own budget) invites applications for internships every year. The aim is to enable students to collaborate in the Departments, so that they can initiate research or undertake management directly linked to the studies they are currently taking. During the last three full academic years, a total of 27 collaborative scholarships were awarded to the students from the Faculty of Veterinary Medicine (10 in 2015-2016, 11 in 2016-2017 and 6 in 2017-2018).

### **10.1.2. Description of how the postgraduate clinical trainings of the Establishment contribute to undergraduate veterinary education and how potential conflicts in relation to case management between post- and undergraduate students are avoided**

The VTH internship program and PhD students' activities are completed in direct contact with the academic staff in different clinical services. Undergraduate students and interns/PhD students cooperate in the clinical training and teaching/learning activities. Interns are encouraged to invite the active participation of the undergraduate students in clinical cases management. At the same time, undergraduate students are invited to receive insights into the practical and experimental work of the intern activities; particularly in emergency clinical activities. In this way, the synergy of learning is achieved.

During the second and third year of the PhD program, the PhD student can be assigned teaching activities. A maximum of 60 hours of teaching activities are monitored by the PhD director as described in the [Regulation for the ULPGC 'Venia docendi'](#). Many of these hours are related to clinical activities carried out in the clinical services and under the supervision of the PhD director.

PhD students, like all the academic staff, are encouraged to engage in a high degree of continuous education based on their active participation at scientific meetings (national or international conferences and workshops). Indeed, part of the personal PhD training program is thus defined by the PhD program. For example, '**Research in Biomedicine**' includes a minimum of 50 hours spread over at least 2 conferences / courses ([link](#)). Also, 40 hours are included in the '**Animal Health and Food Safety**' Program ([link](#)) and 40 hours in the '**Sustainable Aquaculture and Marine Ecosystems**' Program ([link](#)).

### **10.1.3. Description of how undergraduate students:**

**-) are made aware of the importance of evidence-based medicine, scientific research and lifelong learning;**

All students are required to complete a case presentation in several subjects during the last year, as mentioned above (See 8.1.2). One of the evaluation criteria in the rubric for the assessment of this activity is: 'Scientific rigor (evidence-based medicine)'. For further information, consult the rubric for clinical case presentations ([link](#)).

In addition, the evaluation rubric designed for the assessment of the TFG (Final Degree Project) includes references to results from research activities; specifically in rubric item number 5 for the evaluation board (80% of the final grade) and for the tutor (the remaining 20%) includes the following evaluation item: '*Updated Bibliographical revision, with scientific rigor and based on evidence.*'

**-) are initiated to bibliographic search, scientific methods and research techniques, and writing of scientific papers;**

This is a general competences from the Veterinary Medicine Degree (specifically named T2). This competence is widely distributed over the different subjects (13 subjects, [link](#)). Therefore, this information is provided for undergraduates by the Academic Staff. The teachers also take them into account when designing the distribution of the contents of the syllabus, so that they can communicate their own knowledge to students in lectures, seminars, or practical classes, and also motivate them to develop a scientific approach to learning.

Moreover, during the last year, students are encouraged to complete a bibliographical searching course developed by the Library ([link](#)) in order to be able to prepare and write the Final Degree Project more effectively.

Students have also organized several scientific events over the last few years, and they have also participated as collaborators in scientific events organized by others.

**-) are offered to participate to research programmes on a non-compulsory basis.**

A large number of students have the opportunity to participate in research projects in different departments. These undergraduate students thus receive an insight into cutting-edge research activities (laboratory and desk-based work). Some examples are detailed in Annex IXb. Also, the majority of students are offered the opportunity to participate in research activities during their Final Degree Project as shown in Annex IXa.

#### **10.14. Description of how the continuing education programmes provided by the Establishment are matched to the needs of the profession and the community.**

The majority of the continuing education courses offered are organized in cooperation with the Official College of Veterinarians of Las Palmas ([link](#)). Some examples are the following: *Course in Shelter Medicine* in January 2017 ([link](#)); *Professional Opportunities Conference of Veterinarian. Take Full Control of your future* in June 2017 ([link](#)); and the conference 'VetFutures Europe: Identifying the Challenges of the Profession Now and in the Coming Decades' in February 2018 ([link](#)). Parallel of this, the Spanish Organization of Veterinary Colleges ([OCV](#)) has a national continuing education program which is organized in Veterinary Colleges and the Spanish Faculties of Veterinary Medicine.

Moreover, the continuing education program is completed by means of collaboration with scientific associations such as the Spanish Small Animal Veterinary Association ([AVEPA](#)). For example, the last activities which took place in the Canary Islands were: *Traumatology* in February 2018 ([link](#)); *Feline Medicine* in May 2018 ([link](#)) or *Neurology* in November 2018 ([link](#)).

We should also highlight the fact that every year, the Spanish Agency for Medicine ([AEMPS](#), member of the [EMA](#)) organizes an activity for the promotion of the Best Good Practice with Veterinary Medicines and Pharmacovigilance ([link](#)). This activity is also scheduled for the last year students and included in the final assessment of competences described in the portfolio (page 23).

Every two years the Official Colleges of Veterinarians from the Canary Islands (SC Tenerife and Las Palmas) organize the Canary Islands Veterinary Congress: [VETCAN 2016](#), [VETCAN 2018](#). Similarly, specifically related to Food Safety and Quality the Official Colleges of Veterinarians organize one congress every two years exclusively related to this topic, this was the last [VETCAN 2017](#) conference. The Faculty of Veterinary Medicine participates actively both members of academic staff and students.

Most of the continuing education activities organized or co-organized by the Faculty of Veterinary Medicine are published on the Website. (see the News section: [link](#)). Therefore, the proposals for these activities come from the profession itself. Indeed, the Veterinary College asks their associates about their preferences and then the most demanded areas of interest are included in the continuing education program.

Furthermore, the official postgraduate programmes of the ULPGC (Master's Degree) are also assessed by external agencies (the ANECA) and count down on support from the profession,

mainly the Official Veterinary College. Indeed, every year the Official Veterinary College of Las Palmas offers a scholarship for the Master's in Animal Health and Food Safety of the ULPGC and other postgraduate continuing education ([link](#)).

Numerous continuing education programs (both face-to-face and online) are received by the Faculty, Departments and Research Institutes, and these are organized by national and international associations and faculties. This information is mainly electronically communicated to all the stakeholders.

#### **10.15. Prospected number of students registered at post-graduate programmes for the next 3 academic years**

[Master's Degree in Animal Health and Food Safety](#): 25 students each academic year.

[Master's Degree in Marine Farming](#): 30 students each academic year.

#### **10.16. Description of how and by who research, continuing and postgraduate education programmes organised by the Establishment are decided, communicated to staff, students and stakeholders, implemented, assessed and revised.**

For the Official postgraduate offer (these official degree is called Master's and Doctorate), the proposal must be described and drawn up using the ULPGC Regulation for the Official Offer of Degrees ([link](#)). The proposal for Graduate or Postgraduate Degree Projects needs to include the following chapters: a) Description of the Degree, b) Justification, c) Objectives, d) Student Access and Admission, e) Planning of the Teachings, f) Academic Staff, g) Material Resources and Services, h) Expected Results, i) Quality Assurance System, and j) Implementation Timeframe. This proposal must be written by an *ad hoc* committee. The Project is then sent to the Faculty Board for approval and then to the University Government Council, later to the Canary Islands Government, and finally to the Spanish Ministry of Science, Innovation and Universities, who send the Project to an external agency for its evaluation (the ANECA). After its approval by all this government bodies the degree is published on the ULPGC website and communicated to the students, the general public and stakeholders. The Quality Assurance system includes the provision of several continuous assessment procedures for the official offer, including the extinction of the degree in the case of low demand. The procedure for the Official Offer is an institutional QAS procedure ([PI14](#))

Concerning the non-official course on offer ('*Títulos propios*' known as master's, university experts, diplomas and others), the procedure is similar to the official postgraduate courses on offer, although the Project in question is not sent externally to the Canary Islands Government or to the Ministry of Science, Innovation and Universities. After its approval by the University Government Council, the course is communicated to the students and stakeholders. For the non-official courses on offer, the ULPGC has approved a specific Regulation ([link](#)). The procedure for the Non-Official Offer is an institutional QAS procedure ([PI15](#)).

For the continuing education program offered by the Official Veterinary College and scientific and professional associations, the Faculty of Veterinary Medicine contributes to these activities by means of communication to stakeholders. The Dean's Office uses the e-mail database and the Faculty Website. Our participation in the organization of these activities is also focused on providing the facilities, in particular the Aula Magna or Graduation Hall for the lectures (free of charge if co-organized) and the Veterinary Teaching Hospital rooms, the Necropsy Room, the facilities managed by SGIAE, etc. for the practical training.

**Table 10.1.1. Number of students registered in postgraduate clinical training**

Training	2017	2016	2015	Mean
Internship	8	8	8	8
Resident*	3	3	3	3

\* EBVS Diplomate in the European College of Veterinary Pathology (ECVP).

**Table 10.1.2. Number of students registered in postgraduate research training**

Programmes	2017-18	2016-17	2015-16	Mean
<b>PhD students</b>				
6014 – Applied Research in Health Sciences	39	58	61	<b>52.6</b>
6020 – Animal Health and Food Safety	31	21	12	<b>21.3</b>
6023 - Sustainable Aquaculture and Marine Ecosystems	24	19	11	<b>18</b>
6025 – Research in Biomedicine	86	69	36	<b>63.6</b>
<b>Master Students</b>				
5010 – Master’s Degree in Veterinary Clinic and Therapeutic Research	17	9	9	<b>11.6</b>
5013 – Master’s Degree in Marine Farming	-	14	9	<b>11.5</b>
5020 – Master’s Degree in Animal Health and Food Safety	24	15	14	<b>17.6</b>

**Table 10.1.3. Number of students registered on other postgraduate programmes (including any external/distance learning courses).**

Continuing Education Program	Location	2017	2016	2015
IV Canary Island Small Animal Veterinary Congress. (28-29 October 2016)	LPA	-	240	-
II & III Canary Islands Veterinary Congress on Food Safety (17-18 November 2017, 13-14 November 2015)	LPA	105	-	92
Course: Accreditation for Personnel of Direction of Facilities of Radiodiagnosis (several dates)	LPA/TF	-/22	25/11	24/8
III Veterinary Congress of Small Ruminant Veterinary Medicine (25 July 2015).	TFE	-	-	53
Presentation of PRESCRIVET (7 March 2017)	TFE	52	-	-
Theoretic-Practical Workshop of Traumatology (28 April 2017)	TFE	24	-	-
Workshop of Small Animal Ophthalmology (25 May 2017)	TFE	56	-	-
Conferences of Canine Ethology (3 June 2017)	TFE	10	-	-
Conferences on Feline Medicine (8-9 September 2017)	TFE	45	-	-
Webseminar: The veterinary profession the Animal Welfare guarantor. (September 2017)	TFE	14	-	-
Information seminar for the veterinary client relationship (8 November 2017)	TFE	64	-	-
Course on Animal Shelter Medicine (12-14 January 2017)	LPA	22	-	-
Seminar ‘Animal Shelter Medicine’ (14 January 2017)	Lanzarote	11	-	-
New Threats to Global Health (One Health): Diseases transmitted by Vectors, (22 January 2016, 27 January 2017)	TFE/LPA	17	15	-
Interpretation of Analytical Results in Food Analysis Laboratory (24-25 March 2017)	LPA	63	-	-
Conference on Medication and Prescription in Equine and Food Animal Clinics (1 April 2017)	LPA	28	-	-
Workshop on Traumatology (5 May 2017).	LPA	16	-	-
Update on Dermatology (9-11 November 2017).	LPA	28	-	-
Advanced course on Small Animal Neurology (24-25 November 2017).	LPA	18	-	-
IV Canarian Technique Conference on Small Ruminants (21 January	LPA	68	-	-

2017)				
Conference on the Animal Abuse: Roots of Animal Mistreatment and Normative Response (5 July 2017),	LPA	23	-	-
Conferences on the Responsible Use of Antibiotics. (18 July 2017).	LPA/TFE	11/67	-	-
ABC of the Organic Agriculture and Soil Chromatography (18 - 21 November 2017)	LPA	11	-	-
Course on Exotic animals Medicine (15-16 January 2016)	LPA	-	24	-
Ophthalmology in small animals. Diseases of surgery and eye surface (14 April 2016)	LPA	-	36	-
Update in Equine Ophthalmology (15-16 April 2016)	LPA	-	20	-
Food quality and safety in the meat sector (17-18 June 2016)	LPA	-	42	-
Practical Course: Training in the management of Feline Communities (19 - 23 September 2016)	LPA	-	15	-
Course: Food Safety Standards, new challenges: Food Defence and Food Fraud (14-15 October 2016)	LPA	-	30	-
Practical Seminar of abdominal ultrasound in dogs (27 October 2016)	LPA	-	12	-
Practical Seminar on Urinary System Surgery in Dogs and Cats (27 October 2016)	LPA	-	14	-
Seminar: 'Presentation of the new model of the Equine Passport' (10 June 2016)	LPA	-	18	-
Seminar: 'Introduction to Hazard Analysis and Critical Control Points (HACCP)' (22 July 2016)	LPA	-	30	-
'Become thoroughly in your future' (19-26 October & 2-9 November 2016)	LPA	-	6	-
Seminar: The road to Directive 2010/63 / EU: legislation and practical experience in the United Kingdom (22 December 2016)	LPA	-	12	-
Conference: New Regulation for the Identification of Equines. 9 July 2016.	TFE	-	18	-
Workshops on non-pharmacological treatment of Small Animals Chronic Diseases. (2-3 November 2016)	TFE	-	21	-
Seminars about de Pastures and Forages. (30 November -1 December 2016)	TFE	-	9	-
I Conference on Antibiotic Responsible Use. (15-16 November 2016)	TFE	-	28	-
Course How to build a profitable Veterinary Clinic AEMVETE (26-27 November 2016)	TFE	-	21	-
Course: Consumer Food Information, Nutrition Statements and Healthy Properties in Foods (10-11 March 2015)	LPA	-	-	39
Course: Design of Training Actions in Food Security, (21-22 April 2015)	LPA	-	-	20
Course: ENT, Head and Neck and Reconstructive Surgery (17-19 June 2015)	LPA	-	-	26
Course: Introduction to Scientific Development and Communication (2-3 July 2015)	LPA	-	-	13
Course: Soft Tissue Surgery. (23-25 July 2015)	LPA	-	-	31
Course: Clinical Neurology. (10-11 September 2015)	LPA	-	-	31
Course: Water Quality and Safety (7-8 October 2015)	LPA	-	-	48
Course: Emergencies in Small Animals (29-30 October 2015)	LPA	-	-	41
Course: Accreditation for Personnel of Direction of Facilities of Radiodiagnosis, (Lanzarote) (23-27 November 2015)	LPA	-	-	12
Seminar: Defects and alterations of Canarian cheeses: (6 February 2015)	LPA	-	-	33
Seminar: Keys to Improve Teamwork in the Veterinary Field. (24 February 2015)	LPA	-	-	7
Seminar: How to Improve the Productivity of my Veterinary Clinic, (25 March 2015) (26 March 2015),	TF /LPA	-	-	31/11
Seminar: The Art of Persuasion, how to make the client say yes? (25 June 2015, 26 June 2015)	TF /LPA	-	-	22/10
Practical Workshop: Keys of Improvement for Selection Interviews, (12-14 May 2015)	LPA	-	-	5
Practical Workshop: Analysis of Business Ideas. How to Convert Ideas	LPA	-	-	10

in Business Models? (10 June 2015)				
Workshop: Neurology (12 September 2015)	LPA	-	-	10
Practical Workshop: Actions in Emergency Situations in Companion Animals (31 October 2015)	LPA	-	-	9
Conference on Dermatitis: Diagnosis and Therapeutic Possibilities (12 February 2015) (17 March 2015)	LPA/TFE	-	-	61/31
Pulmonary Hypertension (18 February 2015)		-	-	27
The Language of the Eye (21 March 2015)	La Palma	-	-	18
On Line Course: Radiological Diagnosis of the Thorax (9-17 June 2015)	TFE	-	-	9
On Line Course on Veterinary Anaesthesia: Key points for an effective and safety anaesthesia (9 - 14 July 2015).	TFE	-	-	9
II Conferences on Biosecurity (17 September 2015)	TFE	-	-	25
Seminar on Canine Ethology (25 - 27 September 2015)	TFE	-	-	32
Course on Management (AEMVETE) (12 December 2015)	TFE	-	-	20

These activities have been organized by the Official Veterinary Colleges of Las Palmas (LPA) and Santa Cruz de Tenerife (TFE). Some of them took place in the facilities of the Faculty of Veterinary Medicine and the Veterinary Teaching Hospital.

**Table 10.1.4. Number of attendees on continuing education courses provided by the Establishment**

Continuing Education Course in the Veterinary Faculty	2018	2017	2016	Mean
Course on Veterinary Biosecurity (16 October 2018)	42	-	-	
Conference: Veterinary Pharmacovigilance (Spanish Agency for Drugs and Sanitary Products, Ministry of Health)	62	57	67	<b>62</b>
Radiological Protection (ULPGC Unit for Radiological Protection)	67	57	60	<b>61,3</b>
Industrial Hygiene, First Aid and Hazardous Waste Management courses. (May-June 2018)	NA	-	-	-
Ethnological seminars on the majorero goat. (10-13 May 2018)	NA	-	-	-
Training food manipulators: food security and food control (online) (6 March 2018)	8			
Conference: VetFutures Europe (Identify the challenges of the profession now and in the coming decades) (16 February 2018)	NA	-	-	-
Management and nutrition in the New Companion Animals (2 February 2018)	38			
Training of food handlers in HACCP in the collective restoration sector (7 November 2017)	6	-	-	-
Online course 'Create your academic profile with ORCID' November 2017	-	NA	-	-
The role of the veterinarian in the Armed Forces. Career Opportunities. 22 November 2017	-	NA	-	-
Course on Pathology in Birds - AVAFES. 17 November 2017	-	NA	-	-
Colloquium 'The roads of veterinary specialization' 9 November 2017	-	NA	-	-
III Canary Island Course on Ruminant Medicine: <i>In Memoriam Marco Suárez Marin</i> (27-28 October 2017)	-	NA	-	-
Conference Experience at GREFA (Madrid Wild Animal Rescue Center) (6 October 2017)	-	NA	-	-
Conference 'Latest novelties in hemotherapy in small animals' (6 October 2017)	-	NA	-	-
Veterinary Multi-Thematic Days 2017 (5-6 May 2017)	-	NA	-	-
Course of identification and monitoring of the most common birds of Gran Canaria (March-April 2017)	-	NA	-	-
Conference: Quality and food safety in the Industry (2 March 2017)	-	NA	-	-
Conference: Business management in veterinary clinics (23 February 2016)	-	NA	-	-
Virtual exhibition literary works: 'Animals, literature and more ...' (January 2017)	-	NA	-	-
'Internships and Residences in Veterinary Medicine' (26 January 2017)	-	NA	-	-
Colloquium - Other work options in the veterinary profession - XXX	-	NA	-	-

anniversary Faculty (27 January 2017)				
The training of food manipulators in collective restoration: HACCP (7 November 2016)	-	6	-	-
Food security: food control and training of food handlers (6 March 2017)	-	4	-	-
Informative workshop about the Gran Canaria blue chaffinch ( <i>Fringilla polatzeki</i> ) (15 December 2016)	-	-	NA	-
How to improve your competence and professional profile? Working Orientation Workshop (25 October 2016)	-	-	NA	-
Workshop Stabilization of the avian patient and bandages. 15 September 2016	-	-	NA	-
Veterinary Multi-Thematic Days 2017 (6-7 May 2016)	-	-	NA	-
Conference Veterinarian of exotic animals: job opportunities. 25 April 2016	-	-	NA	-
Conference XXIX Anniversary Faculty of Veterinary. 'Role of the Veterinarian in a Zoo like Loro Parque' (29 January 2016)	-	-	NA	-
Bases for the training of food manipulators in collective restoration (4 November 2015)	-	-	10	-
Food security and training of food handlers (1 March 2016)	-	-	8	-

NA - These activities are offered to the Veterinary Faculty Community and do not require previous registration. Therefore, there is no registration of attendants.

**Table 10.1.5. List of the major funded research programmes in the Establishment which were on-going during the last full academic year prior the Visitation (2017)**

Scientific topics (Academic Staff Researcher)	grant (€)	Duration (Yrs)
Synthetic and natural nanopolymers for the reinnervation in skin wounds in rats: Experimental model for humane second intention cicatrization (Dr. Martin-Barrasa).	16,000.00	1 (2017)
244162/E50. Anticoccidial drug resistance, development of immunity and alternative control strategy in Norwegian lambs (Dr. Ruiz).	21,352.00	3 (2015-2017)
ADAPTARES. Adaptation to the climate change in the Macaronesia: Efficient use of the water and its reutilization (Dra. Palacios).	383,954.03	3 (2017-2019)
AGL2014-54683-R. New probiotics and its by-products to the control of diseases in relevant species for the marine and continental aquaculture (Dr. Real & Dra. Acosta).	146,250.00	3 (2015-2017)
AGL2016-79725-P. Functional diet for replacement of the marine ingredients for fishes: maximization of pathogen resistance by enforcing the epithelial barriers and immunization tools (Dr. Vitores).	121,000.00	2 (2016-2019)
Application of a Marine Strategy in the Canary Island on stranded cetaceans: conservancy situation of cetaceans by information provided in the stranded cases (Dr. Fernández).	105,462.00	3 (2017-2019)
BIOMEDAQU. Aquaculture meets Biomedicine: Innovation in Skeletal Health research (Dra. Izquierdo).	297,620.00	5 (2018-2022)
CGL2012-39681. Gaseous-Fat Embolus Pathology in cetaceans (Dr. Fernández).	117,000.00	1 (2017)
CGL2014-58829-C2-1-R. Holistic understanding of the functioning and resilience to local perturbation of a marine phanerogam: From molecular to biogeographic scale (Dr. Tuya).	116,160.00	3 (2015-2018)
CGL2015-71498-P. Gaseous-Fat Embolus Pathology in cetaceans - PEGCET-3 (Dr. Fernández).	133,947.00	3 (2016-2018)
Nutrition research in Poultry (Dra. Rodríguez-Ventura).	708.13	2 (2016-2017)
Clinical Toxicology (Dr. Pérez Luzardo).	20,000.00	1 (2018)
CTQ2015-64664-C2-1-P. Photocatalytic Elimination of NOX and COVS in gas emissions with TIO2 and mixed oxides (Dr. Gonzalez-Díaz).	87,725.00	3 (2016-2018)
DIVERSIFY. Exploring the biological and socio-economic potential of new/emerging candidate fish species for the expansion of the European	665,212.00	5 (2014-2019)



aquaculture industry (Dra. Izquierdo).		
Study of the invasion and intracellular traffic of <i>Photobacterium damselae</i> subsp. Piscicida with non-immune cells from Dorada ( <i>Sparus aurata</i> ) (Dr. Acosta).	99,433.18	5 (2012-2017)
GA652831. AQUAEXCELH2020. AQUAculture infrastructures for EXCELlence in European fish research towards 2020 (Dr. Afonso).	569,428.25	5 (2015-2020)
IMPAKT. International Mobility Programme for Academic And Knowledge Transfer (Dr. Argüello).	36,000.00	4 (2015-2018)
ISLANDAP. R+D+i towards aquaponic development in the up islands and the circular economy (Dra. Robaina).	706,012.07	3 (2017-2019)
KBEE-2001-5-288925. ARRAINA. Advanced research initiatives for nutrition & aquaculture (Dra. Izquierdo).	406,091.00	5 (2012-2017)
MACBIOBLUE. Demonstrative and technology transference Project for developing new products and process in the Blue-Biotechnology in the Macaronesia (Dra. Robaina).	495,918.80	5 (2017-2019)
MARISCOMAC. Development of technic-scientific conditions, technology and knowledge transfer to promote an exploitation and commercialization of MARISCOS in the Macaronesia (Dra. Hernández-Cruz).	166,031.15	3 (2017-2019)
MIMAR. Monitoring, control and mitigation of proliferation of marine organisms associated to human perturbances and climate changes in the habitats of the Macaronesia Region (Dr Acosta).	389,009.29	3 (2017-2019)
PARAGONE. PARAGONE: vaccines for animal parasites. (Dr. González-Pérez).	218,055.00	4 (2014-2019)
PerformFISH. Consumer driven Production: Integrating Innovative Approaches for Competitive and Sustainable Performance across the Mediterranean Aquaculture Value Chain (Dra. Izquierdo).	603,123.75	5 (2017-2022)
PERVEMAC II. Sustainable Agriculture and Food Safety in Macaronesia. Research about the Health benefits and risk of the vegetables food on the consumers and developing of strategies for minimizing (Dr. Pérez Luzardo).	394,388.84	3 (2017-2019)
PI1601873. PREDIMED PLUS. Effect of the losing weight by a hypocaloric Mediterranean diet and promotion of the physical activity for the prevention of cardiovascular disease. A study (Dr. Pérez Luzardo).	89,842.50	3 (2017-2019)
PROGENSA III. Improving the competitiveness of market of the Dorada ( <i>Sparus aurata</i> ) by genetic selection (Dr. Afonso).	144,566.52	2 (2017-2018)
REJET. Erasmus + capacity building in higher education. Reinforcement of Veterinary Studies in Asian Universities (Dr. Argüello & Dr. Corbera).	998,430.00	5 (2015-2019)
RTA2013-00023-C02-02. Genetic evaluation of F2 of Dorada ( <i>Sparus aurata</i> ) from PROGENSA for commercial interest characters and implementation of new technologies under industrial farming conditions (Dr. Afonso).	99,277.40	3 (2014-2017)
RTA2013-00075-C03-02. Developing new products from fishes in aquaculture. (Dr. Ginés).	110,000.00	3 (2014-2017)
SAF2010-20042. Use of blocked screw for speeding the fracture repair (Dr. Rodríguez-Grau-Bassas).	84,700.00	1 (2017)
SAF2015-65113-C2-2-R. Developing of new bioactive modulators of the oncogenic activity of STAT3/5 of the estrogens receptors (Dr. Diaz-Chico).	81,900.00	3 (2016-2018)
ULPGC2015-02. Influence of <i>Dirofilaria</i> in an hyperendemic area: Immune response to antigens of <i>Dirofilaria immitis</i> in humans with allergic comorbidities (asthma, allergic rhinitis, atopic dermatitis) in the Canary Islands (Dra. Carretón).	5,000.00	2 (2017-2018)

## 10.2. Comments

We need to highlight the ‘*Venia Docendi*’ Regulation of the ULPGC, managed by the Vice-Rector of Academic Planning and Staff, which permits the participation of the PhD students in teaching activities. Although, there is a limitation (60 hours) this is a great opportunity to introduce research activities to undergraduate students, and at the same time it is an opportunity for teacher training for these novice members of academic staff. The ‘*Venia Docendi*’ can also be granted to external professionals (limited to 15 hours), which it is a great opportunity for interaction with the professional activities.

The introduction of the Final Degree Project has been a recent improvement in the new curriculum. This activity enables the introduction of our undergraduate students to research activities and the possibility of putting into practice an initial scientific activity based on evidence updated Bibliographical revision.

The extensive continuing education program offered to our veterinary graduates is not only provided by the University, but also by professional colleges and scientific associations, as mentioned previously. We would like to highlight the enormous number of postgraduate activities that are detailed in Table 10.1.3., which are only from the Canary Islands Veterinary Professional Colleges.

Although the number of diploma holders of the EBVS has significantly increased since the last EAEVE Visitation, and one residency program (ECVP) is currently running, it would be desirable to set up new programmes.

## 10.3. Suggestions for improvement

From 2009-2018, the Master's Degree in Veterinary Clinic and Therapeutic Research was offered, but it had to be extinguished because of the low number of students applications. A minimum of 15 students is required every year for public funding. After the present ESEVT process and in order to fulfil the clinical postgraduate offer, the Faculty will complete a revision of the curriculum of Master's in Veterinary Clinic and Therapeutic Research in order to offer a renewed curriculum; this will be more specifically focused on clinical activity, following the VETCEE Standards of the Programme in Companion Animal Medicine. After its initial implementation and internal evaluation following the QAS of the Faculty, we will apply for its external evaluation and later for the approval the VETCEE.

We are committed to increasing the number of EBVS diploma holders. It is estimated that the incorporation of new academic staff in the forthcoming years, mainly motivated by retirements, will increase the numbers of this high standardized and specialized type of personnel.