

PARTNER IDENTIFICATION FORM	
PIC	999995602
Full legal name	Università degli Studi di Padova ( <b>Dipartimento di Biomedicina Comparata e Alimentazione</b> )
Legal name in EN	University of Padua ( <b>Department of Comparative Biomedicine and Food Science</b> )
Acronym	UNIPD
Department	Dipartimento di Biomedicina Comparata e Alimentazione (BCA)
Address	Viale dell'Università, 16
City	Legnaro (PD)
Country	Italy
Region	Veneto
Post Code	35020
City	Legnaro, Padova
Website	<a href="https://www.bca.unipd.it/en/">https://www.bca.unipd.it/en/</a>
Email	<a href="mailto:direzione.bca@unipd.it">direzione.bca@unipd.it</a>
Telephone	+ 39 049 8272952
PROFILE	
Type of Organisation	Higher or secondary education establishment
Is the partner organisation a public body?	Yes
Is the partner organisation a non-profit?	Yes
BACKGROUND AND EXPERIENCE	
Please briefly present the partner organization	The Department of Comparative Biomedicine and Food Science (BCA) is the department of the University of Padova that pursues excellence in research and teaching in all disciplines related to <b>veterinary medicine, comparative animal science and food safety</b> . Today, BCA is a flourishing department, rich in ideas and

	<p>specific expertise that has 51 active professors (2022). BCA supports scientific projects integrated with specific needs of the territory, promoting technological transfer of the obtained results. It develops relationships with the business community, public and professional associations.</p>
<p>Fields of research and topics of interest of the organization</p>	<p>In line with the EU multilevel priorities, the Department concentrates its scientific efforts toward the following topics:</p> <ol style="list-style-type: none"> <li>a. <b>Sustainable Production and Consumption</b></li> <li>b. <b>Climate Change, human impact, and Biodiversity</b></li> <li>c. <b>Water and Aquatic Organisms</b></li> <li>d. <b>Research and Innovation for Industries</b></li> <li>e. <b>One health</b></li> </ol> <p>In each of these clusters, the Department can give its contribution through the application of the following expertise:</p> <ol style="list-style-type: none"> <li>1. <b>Basic sciences applied to veterinary medicine</b> <ol style="list-style-type: none"> <li>1.1. Identification and classification, both on a morphological and molecular basis, of animal species (vertebrates and invertebrates) of veterinary and food interest</li> <li>1.2. Study of the structural organization of animals of veterinary medical interest, including through references to processes of differentiation and development</li> <li>1.3. Study of the physiology and behavior of species of veterinary interest, including in response to environmental changes, with particular reference to welfare conditions and stress potentials</li> <li>1.4. Study, in vitro and in vivo, of biochemical-molecular and cellular mechanisms resulting from exposure to xenobiotics (i.e., anticancer drugs, contaminants, natural substances)</li> </ol> </li> <li>2. <b>Study of animal genetic variability in natural and farmed populations</b> <ol style="list-style-type: none"> <li>2.1. Genetic analysis using biostatistical and biomolecular methodologies applied to the study of companion animals, farm animals and the quality of derived products</li> <li>2.2. Study of genome and gene expression in animal populations living in natural and farmed environments</li> <li>2.3. Comparative pharmacology and toxicology studies aimed at characterizing individual response to xenobiotics</li> <li>2.4. Bioethics applied to animal science</li> </ol> </li> <li>3. <b>Quality, food safety and consumer health</b> <ol style="list-style-type: none"> <li>3.1. Quality and safety of food of animal origin along the production chain</li> <li>3.2. Morphological and molecular investigations applied to food safety</li> <li>3.3. Pharmacology and toxicology applied to food safety</li> <li>3.4. Public health and food safety</li> <li>3.5. Bioethics applied to animal production</li> </ol> </li> </ol>

	<b>4. Comparative pathology and medicine</b> 4.1. Comparative pathology 4.2. Bioethics applied to experimental research	
What are the skills and expertise of key staff/persons of the organization?	<ul style="list-style-type: none"> <li>• 51 professors and researchers, 35 technicians and administrative employees,</li> <li>• At the moment, involved in 5 UE projects and 12 national/regional projects (ongoing). It has also signed 22 grant agreements for commissioned research activities with private and public bodies (ongoing).</li> <li>• The average number of publications in the period 2017-2021 has been 181 publications per year;</li> <li>• Centre of excellence for aquatic animal health research;</li> <li>• 3 patents in nanotechnology and biosensors, a direct drug patent to the treatment of diseases of the skeletal muscle, and finally a system of living cells of marine mammals for studies of cell biology, toxicological test and application for large-scale research.</li> <li>• ive patents in nanotechnology and biosensors, a direct drug patent to the treatment of diseases of the skeletal muscle and finally a system and method for cognitive assessment and training of an animal.</li> <li>• 2 spin-offs: a system and method for cognitive assessment and training of an animal and a development of products, materials, devices and processes based on nanoparticles.</li> </ul>	
<b>CONTACT PERSONS</b>		
Contract Person 1	Dr. Giulia Maria Mantovan - Head of Education, Postgraduate, Research and Third Mission Sector - <a href="mailto:ricerca.bca@unipd.it">ricerca.bca@unipd.it</a>	
Contact Person 2	Prof. Mery Giantin – Professor of veterinary Pharmacology and Food Toxicology and coordinator of the scientific research Committee – <a href="mailto:mery.giantin@unipd.it">mery.giantin@unipd.it</a>	
<b>European Union granted projects</b>		
<b>Programme</b>	<b>Year</b>	<b>Project identification</b>
Horizon Europe	2022	<a href="#">FishEUTrust: Building trust in EU fish supply chains</a>
Horizon Europe	2022	<a href="#">Improving Green Innovation for the Blue Revolution</a>
H2020	2020	<a href="#">Improving biosecurity compliance in poultry farms</a>
H2020	2019	<a href="#">Advancing European Aquaculture by Genome Functional Annotation</a>
LIFE	2019	<a href="#">LIFE DELFI</a>
H2020	2017	<a href="#">Integrating Innovative Approaches for Competitive and Sustainable Performance across the Mediterranean Aquaculture Value Chain -</a>
H2020	2016	<a href="#">Preventing and Mitigating farmed Bivalve Diseases</a>