

Alejandro CABEZAS-CRUZ



Affiliation

French National Research Institute for Agriculture, Food and Environment (INRAE)

Position

microbioTick Lab, head

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Summary of CV

- Publications in peer-reviewed journals: 237
- Book Chapters: 8 hard copy books & 8 e-Books
- Citations: 6348, h-index 43
- Patents: 2
- Declarations of Invention (DIRVs): 6
- Start-ups (founder): 1 (www.microxpace.com)
- Direction of PhD thesis: 8
- Verified peer-reviews (WoS): 440

Professional websites

Website (microbioTick): www.microbioTick.com

Web of Science Researcher ID: [P-2755-2017](https://publons.com/researcher/449403/alejandro-cabezas-cruz/)

ORCID: [0000-0002-8660-730X](https://orcid.org/0000-0002-8660-730X)

ResearchGate: https://www.researchgate.net/profile/Alejandro_Cabezas-Cruz

Web of Science Reviews: <https://publons.com/researcher/449403/alejandro-cabezas-cruz/>

Google scholar: <https://scholar.google.com/citations?user=S1rBBboAAAAJ&hl=en>

Frontiers Loop profile: [181573](https://loop.frontiersin.org/people/181573)

Scientific leadership

Selected as 'TickExpert': <https://www.expertscape.com/ex/ticks>

Selected as 'World's Top 2% Scientists': <https://www.mdpi.com/journal/pathogens/announcements/4792>

Entrepreneurship

Founder and chief scientific officer (CSO), microXpace: www.microxpace.com

PROFESSIONAL EXPERIENCE

February 2017-present: Chargé de Recherche de 1^{ère} classe (CRCN, Civil Servant), Institut National de la Recherche Agronomique (INRAE), Maisons-Alfort, France

October 2016-2017: Faculty of Science, University of South Bohemia, České Budějovice, Czech Republic
Function: Assistant professor

October 2016-2017: Institute of Parasitology, České Budějovice, Czech Republic
Function: PI

2011: Charité - Universitätsmedizin Berlin, Berlin, Germany
Function: Internship in the laboratory of Dr. Sophie Van Linthout
Topic: Cell culture and molecular biology

2010: University of Oxford, UK
Function: Visiting Scientist in the laboratory of Prof. Pat Nuttall
Topic: Functional characterization of tick molecules with immune modulator effect

2006 – 2010: Center for Genetic Engineering and Biotechnology (CIGB), Cuba
Function: Researcher
Topic: Development of recombinant vaccines against the cattle tick *Rhipicephalus microplus*

2001 – 2006: Centre of Molecular immunology (CIM), Cuba
Function: Internship in the laboratory of Dr. Enrique Montero
Topic: Immunology and animal models

EDUCATION

10.2013 – 09.9.2016: PhD in molecular and cellular aspects of biology
University of Lille 2, Institut Pasteur de Lille, Lille, France. “Très honorable avec felicitations” Degree
Dr. Raymond Pierce

01.2014 – 10.10.2014: PhD in basic and applied research in natural resources
University of Castilla-La Mancha (UCLM), Ciudad Real, Spain. Honors Degree (Summa Cum Laude)
Prof. José de la Fuente

04.2012 – 09.2013: Master in Parasitology, MSc
University of South Bohemia, České Budějovice, Czech Republic. Honors Degree
Prof. Libor Grubhoffer

09.2001 – 06.2006: Doctor of Veterinary Medicine, DVM
Agricultural University of Havana (UNAH), Havana, Cuba. Honors Degree
Dr. Dasha Fuentes Morales

OTHER DIPLOMAS

12.01.2018: ‘Habilitation à Diriger des Recherches’ (HDR). Maisons Alfort, France.

20.03.2017 – 31.03.2017: Regulatory Course on Animal Experimentation. Institut Pasteur, Paris, France.

10.2008 – 02. 2009: Biochemical Methods, College of Biological Sciences, University of Havana, Cuba.

06.2008 – 10.2008: Enzymology, College of Biological Sciences, University of Havana, Cuba.

03.2008 – 06.2008: Bio-molecules, College of Biological Sciences, University of Havana, Cuba.

TEACHING EXPERIENCE

Alejandro Cabezas-Cruz, an accomplished researcher and lecturer, has significant experience teaching. In particular, he designed and coordinated a comprehensive course on arthropod-microbe interactions (ID: EN - KMB609), which was conducted in English at the University of South Bohemia, Czech Republic, over two consecutive years (2021 and 2022). This teaching experience has significantly honed his pedagogical skills and reinforced his commitment to delivering top-notch education.

The primary objective of the course was to furnish students with a profound understanding of arthropod-microbe interactions, underscoring their paramount importance in both natural ecosystems and biological systems. The course structure comprised ten lectures and two workshops, each meticulously tailored to delve into specific facets of this intricate field. The technical skills covered by this course encompass a broad spectrum, including Bioinformatics, Artificial Intelligence, Statistical Analysis, and Network Analysis. On the scientific front, it covered aspects of Parasitology, Microbiology, Arthropod Biology, Molecular Biology, and Ecosystem Ecology.

PUBLICATIONS

2024

1. Banović P, Jakimovski D, Bogdan I, Simin V, Mijatović D, Bosilkovski M, Mateska S, Díaz-Sánchez AA, Foucault-Simonin A, Zajac Z, Kulisz J, Moutailler S, Cabezas-Cruz A. Tick-borne diseases at the crossroads of the Middle East and central Europe. *Infectious Diseases Now*. **Accepted** !
2. Sándor Ad, Corduneanu A, Orlova M, Hornok S, Cabezas-Cruz A, Foucault-Simonin A, Kulisz J, Zajac Z, Borzan M. Diversity of bartonellae in mites (Acari: Mesostigmata: Macronyssidae and Spinturnicidae) of boreal forest bats: effect of host specificity of mites and habitat selection of hosts on vector potential. *Medical and Veterinary Entomology*. **Accepted** !
3. Porcelli S, Heckmann A, Deshuillers P, Wu-Chuang A, Galon C, Mateos-Hernandez L, Rakotobe S, Canini L, Rego R, Šimo L, Lagrée AC, **Cabezas-Cruz A**, Moutailler S. Co-infection dynamics of *B. afzelii* and TBEV in C3H mice: insights and implications for future research. *Infection and Immunity*. e0024924. doi: 10.1128/iai.00249-24.
4. Abuin-Denis L, Piloto-Sardiñas E, Maitre A, Wu-Chuang A, Mateos-Hernández L, Paulino PG, Bello Y, Bravo FL, Gutierrez AA, Fernández RR, Castillo AF, Mellor LM, Foucault-Simonin A, Obregon D, Estrada-García MP, Rodríguez-Mallon A, **Cabezas-Cruz A**. Differential nested patterns of *Anaplasma marginale* and *Coxiella*-like endosymbiont across *Rhipicephalus microplus* ontogeny. *Microbiol Res*. 2024; 286:127790. doi: 10.1016/j.micres.2024.127790.
5. Diakou A, Foucault-Simonin A, Antoniou G, **Cabezas-Cruz A**, Földvári G. Tick paralysis induced by *Ixodes gibbosus*: enigmatic cases in domestic mammals from Cyprus. *Frontiers in Veterinary Science*. 11:1416501.
6. Wu-Chuang A, Mateos-Hernandez L, Abuin-Denis L, Maitre A, Avellanet J, García A, Fuentes D, **Cabezas-Cruz A**. Exploring the impact of breast cancer on colonization resistance of mouse microbiota using network node manipulation. *Heliyon*. 10(10), e30914.

7. Kulisz J, Hoeks S, Kunc-Kozioł R, Woźniak A, Zając Z, Schipper AM, **Cabezas-Cruz A**, Huijbregts MAJ. 2024. Spatiotemporal trends and covariates of Lyme borreliosis incidence in Poland, 2010-2019. *Scientific Reports*. 14, 10768. <https://doi.org/10.1038/s41598-024-61349-z>
8. Banović P, Foucault-Simonin A, Papić L, Savić S, Potkonjak A, Jurišić A, Radenković M, Mijatović D, Simin V, Bogdan I, Zając Z, Kulisz J, Woźniak A, Hartmann D, Perner J, Wu-Chuang A, Mateos-Hernandez L, Moutailler S, **Cabezas-Cruz A**. 2024. One Health approach to study human health risks associated with *Dermanyssus gallinae* mites. *Heliyon*. <https://doi.org/10.1016/j.heliyon.2024.e30539>
9. Abuin-Denis L, Piloto-Sardiñas E, Maître A, Wu-Chuang A, Mateos-Hernández L, Obregon D, Corona-González B, Fogaça A C, Palinauskas V, Aželytė J, Rodríguez-Mallon A, **Cabezas-Cruz A**. 2024. Exploring the impact of *Anaplasma phagocytophilum* on colonization resistance of *Ixodes scapularis* microbiota using network node manipulation. *Current Research in Parasitology & Vector-Borne Diseases*. 5, 100177. <https://doi.org/10.1016/j.crpvbd.2024.100177>
10. Grujić J, Budakov-Obradović Z, Klačnja J, Dinić R, Dolinaj V, **Cabezas-Cruz A**, Banović P. 2024. Blood Group Variations in COVID-19 Convalescent Plasma and Regular Blood Donors: A Comparative Analysis in the Serbian Population. *Microorganisms*. 12(5), 915.
11. Zając Z, Kulisz J, Woźniak A, Obregon D, Foucault-Simonin A, Bartosik K, Moutailler S, **Cabezas-Cruz A**. 2024. Spatial distribution and pathogen profile of *Dermacentor reticulatus* ticks in southeastern Poland: a genetic and environmental analysis. *Transboundary and Emerging Diseases*. Article ID 5458278.
12. Piloto-Sardiñas E, Abuin-Denis L, Maitre A, Foucault-Simonin A, Corona-González B, Díaz-Corona C, Roblejo-Arias L, Mateos-Hernández L, Marrero-Perera R, Obregon D, Svobodová K, Wu-Chuang A, **Cabezas-Cruz A**. 2024. Dynamic nesting of *Anaplasma marginale* in the microbial communities of *Rhipicephalus microplus*. *Ecology and Evolution*. 14(4):e11228.
13. Torres-Maravilla E, Parra M, Maisey K, Vargas R, **Cabezas-Cruz A**, Gonzalez A, Tello M, Bermudez-Humaran L. 2024. Importance of Probiotics and Fish Immunology in Aquaculture: Towards the Identification and Design of Novel Probiotics. *Microorganisms*. 2024, 12(3), 626.
14. Wu-Chuang A, Rojas A, Bernal C, Cardozo F, Valenzuela A, Romero C, Mateos-Hernández L, **Cabezas-Cruz A**. 2024. Influence of host microbiota-driven natural antibodies on dengue transmission. *Frontiers in Immunology*. doi: 10.3389/fimmu.2024.1368599.
15. Antúnez MP, Montesinos JCM, Corduneanu A, Obregón D, Moutailler S, **Cabezas-Cruz A**. 2024. Tick-borne viruses and their risk to public health in the Caribbean: spotlight on bats as reservoirs in Cuba. *Heliyon*. <https://doi.org/10.1016/j.heliyon.2024.e26118>.
16. Banović P, Mijatović D, Simin V, Stankov S, Vranješ N, Meletis E, Kostoulas P, Obregon D, **Cabezas-Cruz A**. 2024. Real-world evidence of rabies post-exposure prophylaxis in Serbia: Nation-wide observational study (2017-2019). *Travel Medicine and Infectious Disease*. <https://doi.org/10.1016/j.tmaid.2024.102697>.
17. Hussain S, Hussain A, Aziz MU, Song B, Zeb J, Moutailler S, Foucault-Simonin A, Smith RL, **Cabezas-Cruz A**, George D, Sparagano O. 2024. Exploring the co-infection and genetic diversity of multiple tick-borne pathogens in livestock population of Punjab, Pakistan. *Transboundary and Emerging Diseases*. 2024. <https://doi.org/10.1155/2024/9958535>.
18. Aželytė J, Maître A, Abuin-Denis L, Piloto-Sardiñas E, Wu-Chuang A, Žiegytė R, Mateos-Hernandez L, Obregon D, **Cabezas-Cruz A**, Palinauskas V. 2024. Impact of *Plasmodium relictum* infection on the colonization resistance of bird gut microbiota: A preliminary study. *Pathogens*. 13(1), 91.
19. Díaz-Corona C, Roblejo-Arias L, Piloto-Sardiñas E, Díaz-Sánchez AA, Angélique Foucault-Simonin², Galon C, Wu-Chuang A, Mateos-Hernández L, Zając Z, Kulisz J, Wozniak A, Castro-Montes de Oca MK, Lobo-Rivero E, Obregón D, Moutailler S, Corona-González B, **Cabezas-Cruz A**. 2024. Microfluidic PCR and network analysis

reveals complex tick-borne pathogen interactions in the tropics. *Parasites & Vectors*. 17(1):5. doi: 10.1186/s13071-023-06098-0.

20. **Cabezas-Cruz A**, Bermudez-Humaran L. 2023. Exploring the relationship between *Faecalibacterium duncaniae* and *Escherichia coli* in inflammatory bowel disease (IBD): insights and implications. *Computational and Structural Biotechnology Journal*. 23:1-9. doi: 10.1016/j.csbj.2023.11.027.

2023

21. Pavanelo DB, Piloto-Sardiñas E, Maitre A, Abuin-Denis L, Kopáček P, **Cabezas-Cruz A**, Fogaça AC. 2023. Arthropod microbiota: shaping pathogen establishment and enabling control. *Front. Arachn. Sci.* 2:1297733. doi: 10.3389/frchs.2023.1297733.
22. Paulino PG, Abuin-Denis L, Maitre A, Piloto-Sardiñas E, Obregon D, Santos HA, **Cabezas-Cruz A**. 2023. Dissecting the impact of *Anaplasma phagocytophilum* infection on functional networks, and community stability of the tick microbiome. *International Microbiology*. doi: 10.1007/s10123-023-00473-8
23. Banovic P, Mijatović D, Bogdan I, Simin V, Meletis E, Kostoulas P, Rus KR, Knap N, Korva M, Zupanc TA, **Cabezas-Cruz A**. 2023. Evidence of tick-borne encephalitis virus neutralizing antibodies in Serbian individuals exposed to tick bites. *Frontiers in Microbiology*. 14:1314538.
24. Roblejo-Arias L, Díaz-Corona C, Piloto-Sardiñas E, Díaz-Sánchez AA, Zajac Z, Kulisz J, Woźniak A, Moutailler S, Obregon D, Foucault-Simonin A, Corona-González B, **Cabezas-Cruz A**. 2023. First molecular characterization of *Dirofilaria immitis* in Cuba. *BMC Veterinary Research*. 19, 239.
25. Mateos-Hernández L, Maitre A, Abuin-Denis L, Obregon D, Edwige M, Patricia L, Maye J, Wu-Chuang A, Valiente-Moro C, **Cabezas-Cruz A**. 2023. Hierarchical shift of the *Aedes albopictus* microbiota caused by anti-microbiota vaccine increases fecundity and egg hatching rate in female mosquitoes. *FEMS Microbiology Ecology*. fiad140. doi: 10.1093/femsec/fiad140.
26. Ghafar A, **Cabezas-Cruz A**. 2023. Ticking off the Tick Vectors: *Rhipicephalus microplus* Fails to Transmit *Theileria orientalis*. *Pathogens*. 12(11):1311. doi: 10.3390/pathogens12111311.
27. Wu-Chuang A, Mateos-Hernandez L, Maitre A, Rego ROM, Šíma R, Porcelli S, Rakotobe S, Foucault-Simonin A, Moutailler S, Palinauskas V, Aželytė J, Símó L, Obregon D, **Cabezas-Cruz A**. 2023. Microbiota perturbation by anti-microbiota vaccine reduces the colonization of *Borrelia afzelii* in *Ixodes ricinus*. *Microbiome*. DOI: 10.1186/s40168-023-01599-7.
28. Maitre A, Wu-Chuang A, Mateos-Hernández L, Piloto-Sardiñas E, Foucault-Simonin A, Cicculi V, Moutailler S, Paoli JP, Falchi A, Obregón D, **Cabezas-Cruz A**. 2023. Rickettsial pathogens drive microbiota assembly in *Hyalomma marginatum* and *Rhipicephalus bursa* ticks. *Molecular Ecology*. DOI: 10.1111/mec.17058.
29. Jakimovski D, Grozdanovski K, Pavleva V, Banovic V, **Cabezas-Cruz A**, Spasovska K. 2023. Emergence of Crimean-Congo Hemorrhagic Fever in North Macedonia, July 2023. *Eurosurveillance*. 28(34):pii=2300409.
30. Corduneanu A, Zajac Z, Kulisz J, Wozniak A, Foucault-Simonin A, Moutailler S, Wu-Chuang A, Peter A, Sándor AD, **Cabezas-Cruz A**. 2023. Detection of bacterial and protozoan pathogens in individual bats and their ectoparasites using high throughput microfluidic real-time PCR. *Microbiology Spectrum*. DOI: 10.1128/spectrum.01531-23.
31. Wu-Chuang A, Hartmann D, Maitre A, Mateos-Hernández L, Frantová H, Urbanová V, Obregon D, **Cabezas-Cruz A**, Perner J. 2023. Low microbial community complexity in adult stages and female midguts of *Dermanyssus gallinae*. *Microbial Ecol*. DOI: 10.1007/s00248-023-02244-4.
32. Maye J, and **Cabezas-Cruz A**. 2023. Alternative and Complementary Approaches to Consider for Effective Babesia Vaccine Development. *Pathogens*. 12(9), 1166.

33. Thorel M, Obregon D, Mulot B, Maitre A, Mateos-Hernandez L, Moalic PY, Wu-Chuang A, **Cabezas-Cruz A**, Leclerc A. 2023. Conserved core microbiota in managed and free-ranging *Loxodonta africana* elephants. **Frontiers Microbiol.** 14. DOI: 10.3389/fmicb.2023.1247719.
34. Zajac Z, Kulisz J, Woźniak A, Bartosik K, Foucault-Simonin A, Moutailler S, Cabezas-Cruz A. Tick Activity, Host Range, and Tick-Borne Pathogen Prevalence in Mountain Habitats of the Western Carpathians, Poland. **Pathogens.** 12(9), 1186.
35. Mansour H, **Cabezas-Cruz A**, Peucelle V, Farce A, Salomé-Desnoulez S, Metatla I, Guerrero IC, Hollin T, Khalife J. Characterization of GEXP15 as a potential regulator of Protein Phosphatase 1 and partner of ribosomal complex in *Plasmodium falciparum*. **International Journal of Molecular Sciences.** 24(16), 12647.
36. de la Fournière S, Guillemi EC, Paoletta MS, Pérez A, Obregón D, Cabezas-Cruz A, Sarmiento NF, Farber MD. Transovarial transmission of *Anaplasma marginale* in *Rhipicephalus microplus* ticks results in a bottleneck for strain diversity. **Pathogens.** 2023. 12(8), 1010.
37. Piloto-Sardiñas E, Foucault-Simonin A, Wu-Chuang A, Mateos-Hernández L, Marrero-Perera R, Abuin-Denis L, Roblejo-Arias L, Díaz-Corona C, Zajac Z, Kulisz J, Wozniak A, Moutailler S, Corona-González B, **Cabezas-Cruz A**. 2023. Dynamics of infections in cattle and *Rhipicephalus microplus*: A Preliminary Study. **Pathogens.** 12(8), 998.
38. Almazán C, de Luna GR, Tinoco L, González-Álvarez VH, Zajac Z, Kulisz J, Woźniak A, **Cabezas-Cruz A**, Mosqueda J. 2023. Morphological and molecular identification of the brown dog tick in Mexico. **Veterinary Parasitology: Regional Studies and Reports.** 100908. DOI: 10.1016/j.vprsr.2023.100908.
39. Contreras M, Vaz-Rodrigues R, Villar M, Mazuecos L, Artigas-Jerónimo S, González-García A, Shilova NM, Bovin NV, Díaz-Sánchez S, Ferreras-Colino E, Pacheco I, Chmelař J, Kopáček P, **Cabezas-Cruz A**, Gortázar C, de la Fuente J. 2023. Allergic reactions to tick saliva components in zebrafish model. **Parasites & Vectors.** 16, 242.
40. Jakimovski D, Mateska S, Dimitrova E, Bosilkovski E, Mijatović D, Simin V, Bogdan I, Grujić J, Obradović ZB, Meletis E, Kostoulas P, **Cabezas-Cruz A**, Banović P. Tick-borne encephalitis virus and *Borrelia burgdorferi* seroprevalence in Balkan tick-infested individuals: a two-centre study. **Pathogens.** 12(7), 922.
41. Zbigniew Z, Obregon D, Foucault-Simonin A, Wu-Chuang A, Moutailler S, Galon C, Kulisz J, Woźniak A, Bartosik K, **Cabezas-Cruz A**. 2023. Disparate dynamics of pathogen prevalence in *Ixodes ricinus* and *Dermacentor reticulatus* ticks occurring sympatrically in diverse habitats. **Scientific Reports.** 13(1):10645.
42. **Cabezas-Cruz A**. Grand Challenges in Arachnid Microbiota and Diseases. 2023. **Front. Arachn. Sci.** DOI: 10.3389/frchs.2023.1215831
43. Svobodová K, Maitre A, Obregón D, Wu-Chuang A, Thaduri S, Locke B, de Miranda JR, Mateos-Hernández L, Krejčí AB, **Cabezas-Cruz A**. 2023. Gut microbiota assembly of Gotland varroa-surviving honey bees excludes major viral pathogens. **Microbiol. Res.** 274: 127418.
44. Fernández-Ruiz N, Pinecki-Socias S, Estrada-Peña A, Wu-Chuang A, Maitre A, Obregon D, **Cabezas-Cruz A**, de Blas I, Nijhof AM. Decontamination protocols affect the internal microbiota of ticks. 2023. **Parasites & Vectors.** 16(1):189.
45. Piloto-Sardiñas E, Cano-Argüelles AL, Maitre A, Wu-Chuang A, Mateos-Hernandez L, Corduneanu A, Obregon D, Oleaga A, Pérez-Sánchez R, **Cabezas-Cruz A**. 2023. Comparison of salivary gland and midgut microbiome in the soft ticks *Ornithodoros erraticus* and *Ornithodoros moubata*. **Frontiers in Microbiology.** 14:1173609.
46. Mazuecos L, Alberdi P, Hernández-Jarguín A, Contreras M, Villar M, **Cabezas-Cruz A**, Simo L, González-García A, Díaz-Sánchez S, Neelakanta G, Bonnet SI, Fikrig E, de la Fuente J. 2023. Frankenbacteriosis targeting interactions between pathogen and symbiont to control infection in the tick vector. **iScience.** 26(5):106697.

47. Hussain S, Hussain A, Aziz MU, Song B, Zeb J, Hasib FMY, Li J, Almendros A, **Cabezas-Cruz A**, George D, Sparagano O. First molecular confirmation of multiple zoonotic vector-borne diseases in pet dogs and cats of Hong Kong SAR. *Ticks Tick Borne Dis.* 14(4):102191.
48. Corduneanu A, Wu-Chuang A, Maitre A, Obregon D, Sándor AD, **Cabezas-Cruz A**. 2023. Structural differences in the gut microbiome of bats using terrestrial vs. aquatic feeding resources. *BMC Microbiology.* 23: 93.
49. Rego ROM, Lopez JE, Cabezas-Cruz A. 2023. Editorial: Biological Drivers of Vector–Pathogen Interactions – Vol II. *Front Cell Infect Microbiol.* 13:1170834.
50. Aželytė J, Wu-Chuang A, Maître A, Žiegytė R, Mateos-Hernandez L, Obregon D, Palinauskas V, **Cabezas-Cruz A**. 2023. Avian malaria parasites modulate gut microbiome assembly in canaries. *Microorganisms.* 11(3), 563.
51. Díaz-Sánchez AA and **Cabezas-Cruz A**. 2023. Can Domestic Cats Act as Reservoirs of *Cytauxzoon felis*? *Pathogens*, 12(2), 266.
52. **Cabezas-Cruz A** and Banović P. 2023. Understanding Tick-Borne Encephalitis Virus Foci, a Tale of Two Mountains. *Pathogens*, 12(2), 265.
53. Ghafar A, Davies N, Tadepalli M, **Cabezas-Cruz A**, Moutailler S, Foucault-Simonin A, Gauci CG, Stenos J, Hufschmid J, Jabbar A. 2023. Unravelling the diversity of microorganisms in ticks from Australian wildlife. *Pathogens.* 12(2), 153.
54. Zeb J, Song B, Senbill H, Aziz MU, Hussain S, Khan MA, Qadri I, **Cabezas-Cruz A**, de la Fuente J, Sparagano OA. 2023. Ticks Infesting Dogs in Khyber Pakhtunkhwa, Pakistan: Detailed Epidemiological and Molecular Report. *Pathogens.* 12(1), 98.

2022

55. Banović P, Díaz-Sánchez AA, Foucault-Simonin A, Mateos-Hernandez L, Wu-Chuang A, Galon C, Simin V, Mijatović D, Bogdan I, Corona-González B, Coronado Báez L, Kulisz J, Woźniak A, Zajac Z, Obregón D, Moutailler S, **Cabezas-Cruz A**. Emerging tick-borne spotted fever group rickettsioses in the Balkans. *MEEGID.* 105400.
56. Hodžić A, Dheilly NM, **Cabezas-Cruz A**, Berry D. Holobiont of metazoan parasites: Multi-dimensional host-parasite-microbiota interactions. *Trends Parasitol.* <https://doi.org/10.1016/j.pt.2022.11.012>.
57. Cabezas-Cruz A, Fogaça AC. 2022. Lock and Key: Why *Rickettsia* Endosymbionts Do Not Harm Vertebrate Hosts? *Pathogens.* 11(12), 1494.
58. **Cabezas-Cruz A**, Maitre A. 2022. Is Plant Microbiota a Driver of Resistance to the Vector-Borne Pathogen *Xylella fastidiosa*? *Pathogens.* 11(12), 1492.
59. Paulino PG, Peckle M, Mendonça LP, Massard CL, Antunes S, Couto J, Domingos A, Guedes Junior DS, **Cabezas-Cruz A**, Santos HA. 2022. Differential Expression of Immune Genes in the *Rhipicephalus microplus* Gut in Response to *Theileria equi* Infection. *Pathogens.* 11(12), 1478.
60. Banović P, Piloto-Sardiñas E, Mijatović D, Foucault-Simonin A, Simin V, Bogdan I, Obregón D, Mateos-Hernández L, Moutailler S, **Cabezas-Cruz A**. 2022. Differential detection of tick-borne pathogens in human platelets and whole blood using microfluidic PCR. *Acta Tropica.* 238: 106756.
61. Obregon D, Wu-Chuang A, **Cabezas-Cruz A**. 2022. Editorial: Insights into the relationships between host and vector microbiota, host health and response to disease. *Front Vet Sci.* 9:1002247. doi: 10.3389/fvets.2022.1002247

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230. Silva J B, **Cabezas-Cruz A**, Fonseca AH, Barbosa JD, de la Fuente J. 2014. Infection of water buffalo in Rio de Janeiro Brazil with *Anaplasma marginale* strains also reported in cattle. *Vet Parasitol*. 205 (2014): 730–734.
231. Tonk M, **Cabezas-Cruz A**, Valdés JJ, Rego RO, Chrudimská T, Strnad M, Šíma R, Bell-Sakyi L, Franta Z, Vilcinskas A, Grubhoffer L, Rahnamaeian M. 2014. Defensins from the tick *Ixodes scapularis* are effective against phytopathogenic fungi and the human bacterial pathogen *Listeria grayi*. *Parasit Vectors*. 7: 554.
232. Silva JB, Fonseca AH, Barbosa JD, **Cabezas-Cruz A**, de la Fuente J. 2014. Low genetic diversity associated with low prevalence of *Anaplasma marginale* in water buffaloes in Marajó Island, Brazil. *Ticks Tick Borne Dis*. 5(6): 801-804.

2013

233. **Cabezas-Cruz A**, Passos LM, Lis K, Kenneil R, Valdés JJ, Ferrolho J, Tonk M, Pohl AE, Grubhoffer L, Zwegarth E, Shkap V, Ribeiro MF, Estrada-Peña A, Kocan KM, de la Fuente J. 2013. Functional and Immunological Relevance of *Anaplasma marginale* Major Surface Protein 1a Sequence and Structural Analysis. *PLoS ONE*. 8(6): e65243.
234. **Cabezas-Cruz A**, Vancová M, Zwegarth E, Ribeiro MF, Grubhoffer L, Passos LM. 2013. Ultrastructure of *Ehrlichia mineirensis*, a new member of the *Ehrlichia* genus. *Vet Microbiol*. 167(3–4): 455–458.

235. Pohl AE, **Cabezas-Cruz A**, Ribeiro MF, Silveira JA, Silaghi C, Pfister K, Passos LM. 2013. Detection of genetic diversity of *Anaplasma marginale* isolates in Minas Gerais, Brazil. *Rev Bras Parasitol Vet.* 22(1):129–135.
236. Zwegarth E, Schöl H, Lis K, **Cabezas-Cruz A**, Thiel C, Silaghi C, Ribeiro MF, Passos LM. 2013. In vitro culture of a novel genotype of Ehrlichia sp. from Brazil. *Transbound Emerg Dis.* 60 (Suppl. 2) 86–92.
237. Preston SG, Majtán J, Kouremenou C, Rysnik O, Burger LF, **Cabezas-Cruz A**, Chiong Guzman M, Nunn MA, Paesen GC, Nuttall PA, Austyn JM. 2013. Novel immunomodulators from hard ticks selectively reprogramme human dendritic cell responses. *PLoS Pathogens.* 9(6): e1003450.

2012

238. **Cabezas-Cruz A**, Zwegarth E, Ribeiro MF, da Silveira JA, de la Fuente J, Grubhoffer L, Valdés JJ, Passos LM. 2012. New species of *Ehrlichia* isolated from *Rhipicephalus (Boophilus) microplus* shows an ortholog of the *E. canis* major immunogenic glycoprotein gp36 with a new sequence of tandem repeats. *Parasit Vectors.* 5: 291.

BOOK CHAPTERS AND E-BOOKS

-
1. Sanches, G. S., Bechara, G. H., **Cabezas-Cruz, A.**, & de la Fuente, J. 2024. Capítulo 17: Estudos genômicos de carrapatos. In D. M. Barros-Battesti, R. Z. Machado, & M. R. André (Eds.), Ectoparasito fauna brasileira de importância veterinária: Volume 3. Acarofauna de importância veterinária: Parasitiformes - Ixodida, Parte II (pp. [407-422]). Colégio Brasileiro de Parasitologia Veterinária. ISBN: 978-65-84598-93-5.
 2. **Cabezas-Cruz, A.**, Obregon, D., Contreras, M., Alberdi, P., Bard, E., Villar, M., de la Fuente, J. 2024. *Anaplasma*. In: Molecular Medical Microbiology (3rd edition). doi: 10.1016/B978-0-12-818619-0.00028-9.
 3. **Cabezas-Cruz A.** 2021. Can the impact of climate change on the tick microbiome bring a new epidemiological landscape of tick-borne diseases? In: Climate, Ticks and Disease. Ed. Pat Nuttall. CABI Climate changes series <https://www.cabi.org/bookshop/book/9781789249637/>
 4. Espinosa PJ, Alberdi P, Villar M, **Cabezas-Cruz A**, de la Fuente. 2018. Heat shock proteins in vector-pathogen interactions: the *Anaplasma phagocytophilum* model. In: Heat Shock Proteins in Veterinary. *Springer*. 12:375-398. Online ISBN: 978-3-319-73377-7
 5. **Cabezas-Cruz A**, Pollet T, Estrada-Peña A, Allain E, Bonnet SI, Moutailler S. 2018. Handling the microbial complexity associated to ticks. In: Ticks and Tick-Borne Diseases, Editor Dr. Muhammad Abubakar. *InTechOpen*. Online ISBN 978-953-51-6499-9.
 6. Kocan KM, de la Fuente J, **Cabezas-Cruz A**. 2015. The genus *Anaplasma*: New challenges after reorganization. In *Revue Scientifique et technique (International Office of Epizootics)*. 34(2):577-586.
 7. Estrada-Peña A, de la Fuente J, Cabezas-Cruz A. 2018. Functional Redundancy and Ecological Innovation Shape the circulation of Tick-Transmitted Pathogens. In Tick-Host-Pathogen Interactions. Editors: Bonnet SI, Nijhof AM, de La Fuente J. Lausanne: Frontiers Media. doi: 10.3389/978-2-88945-542-3
 8. Cabezas-Cruz A, Espinosa PJ, Obregón DA, Alberdi P, de la Fuente J. 2018. *Ixodes scapularis* tick cells control *Anaplasma phagocytophilum* infection by increasing the synthesis of phosphoenolpyruvate from tyrosine. In Tick-Host-Pathogen Interactions. Editors: Bonnet SI, Nijhof AM, de La Fuente J. Lausanne: Frontiers Media. doi: 10.3389/978-2-88945-542-3
 9. Contreras M, Alberdi P, Mateos-Hernández L, de Mera IGF, García-Pérez AL, Vancová M, Villar M, Ayllón N, Cabezas-Cruz A, Valdés JJ, Stuen S, Gortazar C, de la Fuente J. 2018. *Anaplasma phagocytophilum* MSP4 and HSP70 proteins are involved in interactions with host cells during pathogen infection. In Tick-Host-Pathogen Interactions. Editors : Bonnet SI, Nijhof AM, de La Fuente J. Lausanne : Frontiers Media. doi: 10.3389/978-2-88945-542-3
 10. Cabezas-Cruz A, Alberdi P, Valdés JJ, Villar M, de la Fuente J. 2018. *Anaplasma phagocytophilum* infection subverts carbohydrate metabolic pathways in the tick vector, *Ixodes scapularis*. In Tick-Host-Pathogen Interactions. Editors : Bonnet SI, Nijhof AM, de La Fuente J. Lausanne : Frontiers Media. doi: 10.3389/978-2-88945-542-3

11. de la Fuente J, Antunes S, Bonnet S, Cabezas-Cruz A, Domingos AG, Estrada-Peña A, Johnson N, Kocan KM, Mansfield KL, Nijhof AM, Papa A, Rudenko N, Villar M, Alberdi P, Torina A, Ayllón N, Vancova M, Golovchenko M, Grubhoffer L, Caracappa S, Fooks AR, Gortazar C, Rego ROM. 2018. Tick-pathogen interactions and vector competence: identification of molecular drivers for tick-borne diseases. In Tick-Host-Pathogen Interactions. Editors : Bonnet SI, Nijhof AM, de La Fuente J. Lausanne : Frontiers Media. doi: 10.3389/978-2-88945-542-3
12. Cabezas-Cruz A, Estrada-Peña A, Rego ROM, de la Fuente J. 2018. Tick-pathogen ensembles: do molecular interactions lead ecological innovation? In Tick-Host-Pathogen Interactions. Editors : Bonnet SI, Nijhof AM, de La Fuente J. Lausanne : Frontiers Media. doi: 10.3389/978-2-88945-542-3
13. Artigas-Jerónimo S, Villar M, Cabezas-Cruz A, Valdés JJ, Estrada-Peña A, Alberdi P, de la Fuente J. 2020. Functional Evolution of Subolesin/Akirin. In Tick and Tick-Borne Pathogens: Molecular and Immune Targets for Control Strategies. Editors: Ali, A., Mulenga, A., Vaz, I. S. Jr. Lausanne: Frontiers Media SA. doi: 10.3389/978-2-88966-060-5E-Book
14. Artigas-Jerónimo S, Estrada-Peña A, Cabezas-Cruz A, Alberdi P, Villar M, de la Fuente J. 2020. Modeling Modulation of the Tick Regulome in Response to *Anaplasma phagocytophilum* for the Identification of New Control Targets. In Tick and Tick-Borne Pathogens: Molecular and Immune Targets for Control Strategies. Editors: Ali, A., Mulenga, A., Vaz, I. S. Jr. Lausanne: Frontiers Media SA. doi: 10.3389/978-2-88966-060-5E-Book

Patents

-NEW PEPTIDES WITH EFFICIENT ANTIFUNGAL AND ANTI-MYCOTOXIN ACTIVITY : TICK DEFENSIN GAMMA-CORE INHIBITS MYCOTOXIN PRODUCTION AND GROWTH OF FUSARIUM GRAMINEARUM.

Inventors: **Alejandro Cabezas-Cruz**, Florence Forget and Vessela Atanasova.

Status : Patent (filed): No. dépôt France FR2004090.

-THE PROBIOTIC BACTERIUM ESCHERICHIA COLI NISSLE 1917 DECREASES THE SEVERITY OF MAJOR INFECTIOUS DISEASES IN ANIMALS LACKING ENDOGENOUS CARBOHYDRATE ALPHA-GAL.

Inventors: **Alejandro Cabezas-Cruz**, Luis Bermudez-Humaran, Lourdes Mateos-Hernández, Verónica Risco-Castillo, Astrid Holzer, Edgar Torres-Maravilla, José de de la Fuente and Jacques Guillot.

Status : Patent (filed): No. dépôt EU: 20305597.5.

Editorial activity and contribution as reviewer

Section Editor-in-Chief:

Section *Arachnid Microbiota and Diseases*, Frontiers in Arachnid Science

<https://www.frontiersin.org/journals/arachnid-science/sections/arachnid-microbiota-and-diseases>

Section Editor-in-Chief:

Section *Ticks*, Pathogens

<https://www.mdpi.com/journal/pathogens/sections/Ticks>

Guest Editor (Selected):

New Frontiers in Tick Research:

https://www.mdpi.com/journal/pathogens/special_issues/New_Frontiers_in_Tick_Research

Biological Drivers Of Vector-Pathogen Interactions (I):

<https://www.frontiersin.org/research-topics/9511/biological-drivers-of-vector-pathogen-interactions>

Biological Drivers Of Vector-Pathogen Interactions (II):

<https://www.frontiersin.org/research-topics/27154/biological-drivers-of-vector-pathogen-interactions---vol-ii>

Contribution as reviewer of peer-reviewed scientific articles

Verified reviews (Publons): 482

<https://publons.com/researcher/449403/alejandro-cabezas-cruz/>

Contribution as reviewer of research grants

The Czech Science Foundation (GACR)

Croatian Science Foundation (HRZZ)

National Center of Science and Technology Evaluation (NCSTE)

Outreach

de la Fuente, J., Cabezas-Cruz, A. 2019. Alpha-Gal syndrome. Trade-off between allergy and protection to infectious diseases. Research Outreach 110. <https://researchoutreach.org/articles/alpha-gal-syndrome-trade-off-between-allergy-protection-infectious-diseases/>

INVITED PRESENTATIONS

-
- 2024:** Balkan Association for Vector Borne Diseases, Novi Sad, Serbia
2do. Congreso Nacional Impactos y Estrategias de Prevención y Control de la Caligidosis en la Salmonicultura Chilena, Puerto Varas, Chile
Democritus University of Thrace, Greece
- 2023:** Behaviour and Evolution Seminar, Bielefeld University, Germany, 24 May
V Congreso Internacional AGROCIENCIA 2023, Varadero, Cuba, June
Montpellier Ecology and Evolution Seminars (SEEM), Montpellier, France
- 2022:** TTP10, *Keynote speaker, Romania, 24-28 August
BioTick2022, *Keynote speaker, Cuba, 27-31 March
Jornada de inmunología veterinaria, Symposium (online), Mexico, 31 August-1 September
University of São Paulo, Seminar (online), Brazil, 19 August
'International Symposium on Research and Postgraduate Studies in Natural Sciences', Symposium (online), Mexico, 20 May
- 2021:** FéRI 2021, Journées d'Animation Scientifique, France, 5-6 July
Justus Liebig University Giessen, Giessen, Germany
Arthromint, virtual meeting, Brazil, 4-5 August
CVET 7029 –Epidemiology of Vector-Borne Diseases, virtual meeting, Brazil, 27 September-1 August
Arthropod vectors and vector-borne diseases: a One Health perspective, Webinar (online), 1 September
- 2018:** ICOPA, *Keynote speaker, South Korea, 19-24 August
Institut für Parasitologie, Wien, Austria
- 2017:** Justus Liebig University Giessen, Giessen, Germany
Institute of Hygiene and Tropical Medicine, Lisbon, Portugal
Veterinary Research Institute, Brno, Czech Republic
South Bohemia University, České Budějovice, Czech Republic
- 2016:** Federal Research Institute for Animal Health, Jena, Germany
- 2015:** Institute of Hygiene and Tropical Medicine, Lisbon, Portugal

COMPETITIVE FUNDING

2023

2023-2025 - Carlos Chagas Filho Foundation for Research Support in the State of Rio de Janeiro (FAPERJ), grant Proc. E-26/210.149/2023 (SEI-260003/001754/2023 - APQ1). Blocking the transmission of *Theileria equi* by anti-microbiota vaccines. R\$ 755.394,00. Participant (Researcher) - Alejandro Cabezas-Cruz

2022

2022-2026: EU-funded COST Action, grant CA21170. Prevention, anticipation and mitigation of tick-borne disease risk applying the DAMA protocol (PRAGMATICK). ca. 500,000 €. Project coordinator: Dr. Gábor Földvári - participant Alejandro Cabezas-Cruz

2022-2025: Research Council of Lithuania, grant S-MIP-22-52. Natural anti- α -Gal antibodies and the protection against avian malaria. 149,994 €. Project PI: Dr. Vaidas Palinauskas, co-PI Alejandro Cabezas-Cruz

2022-2026: Austrian Science Fund (FWF), grant (Einzelprojekte) P 36130. The impact of the tick gut microbiome on *Ixodes ricinus* vector competence for *Borrelia afzelii*. 408,560.25 €. Project PI: Dr. Adnan Hodžić, Collaboration partner - Alejandro Cabezas-Cruz

2022-2023: Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq), grant 402234/2022-7 (6748207135527005). Blocking the transmission of *Theileria equi* by anti-microbiota vaccines. R\$ 73,598. Project PI: Prof. Huarrisson Azevedo Santos, Collaboration partner - Alejandro Cabezas-Cruz.

2021

2021-2024: LabEx IBEID – Integrative Biology of Emerging Infectious Diseases, Pasteur Institute, Paris with contribution of ENVA and ANSES. New insights on tick-borne pathogen co-infections. 635,000 €, PIs - Sara Moutailler, Ladislav Simo and Alejandro Cabezas-Cruz

2019

2019-2021: Ministry of Education, Youth and Sports (MEYS) of the Czech Republic. (grant number CZ.02.2.69/0.0/0.0/17_050/0008489). COEVOTICK: Experimental evolution of coinfections by tick-borne pathogens. 4,000,000 CZK (154,860 €), PI - Alejandro Cabezas-Cruz. Declined by PI

2019-2021: Consejería de Educación, Cultura y Deportes, JCCM, grant CCM17-PIC-036 (SBPLY/17/180501/000185). Characterization of the immune response to alpha-Gal and applications for the control of infectious diseases. Scientific coordinator: Jose de la Fuente (IREC, Spain). 154,000 €, Participant (Researcher) - Alejandro Cabezas-Cruz

2018

2018-2020: DIM1Health, Neural basis of tick-pathogen interactions, 103,600 €, PIs - Ladislav Simo and Alejandro Cabezas-Cruz

2018: INRA young researcher grant, Tick-borne pathogens coinfections, 10,000 €, PI -Alejandro Cabezas-Cruz

AWARDS AND SCHOLARSHIPS

- 2023:** Cuban Academy of Sciences Award
- 2020:** Cuban Academy of Sciences Award
- 2019:** Prize, Ministry of Science, Technology and Environment of the Republic of Cuba (CITMA)
Outstanding Reviewer Award, Publons
Cuban Academy of Sciences Award
- 2018:** Prize, Ministry of Science, Technology and Environment of the Republic of Cuba (CITMA)
Outstanding Reviewer Award, Publons
- 2017:** Odile Bain Memorial Prize (OBMP)
Marie Skłodowska-Curie Actions Seal of Excellence.
Outstanding Reviewer Award, Publons
- 2016:** Outstanding Reviewer Award, Publons
- 2015:** Outstanding Reviewer Award, Ticks and Tick-borne Diseases
- 2013 – 2016:** Doctoral Scholarship, University of Lille 2 (€ 46 800)
- 2012:** Marie Skłodowska-Curie Scholarship (€ 81 022) (Early-Stage Researcher)
- 2010:** Cuban Academy of Sciences Award

THESIS DIRECTION AND SUPERVISION OF EXPERIENCED RESEARCHERS

- 2023 – Present:** Director of **PhD Thesis** of Elianne PILOTO-SARDIÑAS
Institution: University of Havana, Cuba
Thesis: Characterization of the tick microbiome as a strategy to identify key taxa whose manipulation modifies their vectorial capacity.
- 2023 – Present:** Director of **PhD Thesis** of Lianet ABUIN-DENIS
Institution: University Paris-Est, France
Thesis: Pathogen manipulation of microbiota-mediated modulation of tick neurophysiology.
- 2021 – Present:** Director of **PhD Thesis** of Apolline MAÎTRE
Institution: EnvA, France
Thesis: Anti-microbiota vaccines for the control of tick-borne pathogens affecting livestock in Corsica.
- 2021 – Present:** Co-director of **PhD Thesis** of Justė AŽELYTĖ
Institution: The Nature Research Centre, Lithuania
Thesis: Anti-microbiota vaccines against avian malaria.
- 2021 – Present:** Co-director of **PhD Thesis** of Caina NING
Institution: EnvA, France
Thesis: Cholinomimetic-mediated activities of peptidergic neurons innervating the salivary glands of the tick *Ixodes ricinus*.
- 2021 – 2022:** Director of **PhD Thesis** of Alejandra WU-CHUANG
Institution: University Paris-Saclay, France
Thesis: Anti-tick microbiota vaccines: a novel approach for the control of tick-borne pathogens.
- 2021:** Director of **Master 2 Thesis** of Lianet ABUIN DENIS
Institution: Sorbonne Université, France

Thesis: Tick-microbiota-pathogen interactions: opportunities for tick-borne pathogens control.

2021: Director of **Master 2 Thesis** of Mouna Naila AZZOUNI

Institution: Université de Paris-Est Creteil Val de Marne, France

Thesis: Modulation of anti- α -Gal immunity as a One Health approach for the control of infectious diseases.

2020: Director of **Master 2 Thesis** of Youman AL BAYDA

Institution: Université de Versailles Saint-Quentin-En-Yvelines, France

Thesis: Selection of specific aptamers for tick α -Gal detection.

2019 – 2022: Co-director of **PhD Thesis** of Ivan Pacheco Carrillo

Institution: University of Castilla-La Mancha, Spain

Thesis: Characterization of the vector-host interaction for the control of infectious diseases.

2018 – Present: Co-supervisor of **Postdoctoral** fellow Lourdes Mateos-Hernández

Institution: INRAE-ANSES, France

Project: Alpha-Gal syndrome, trade-off between allergy and protection to infectious diseases.

2019 – 2021: Co-supervisor of **Postdoctoral** fellow Andrea Gomez-Chamorro

Institution: INRAE (France)-Oxford University (UK)

Project: Experimental evolution of coinfections by tick-borne pathogens.

2017 – 2019: Co-director of **PhD Thesis**. Pedro Jose Espinosa Prados

Institution: University of Castilla-La Mancha, Spain

Thesis: Host-pathogen interactions in *Anaplasma phagocytophilum*.

2018: Director of **Master Thesis** of Eléonore ALLAIN

Institution: University of Bordeaux, France

Thesis: Detection of pathogenic and non-pathogenic bacteria associated to ticks.

2017: Co-director of **Undergraduate Thesis** of Myriam Denoual*

Institution: Nantes-Atlantic National College of Veterinary Medicine, Food Science and Engineering (Oniris Nantes), France

Thesis: Molecular characterization of *Anaplasma ovis* from an anaplasmosis outbreak in goats from Corsica, France.

***Thesis proposed by the Academy of Veterinary Sciences of France (l'Académie Vétérinaire de France, AVF) to be awarded the prize Xavier Bernard.**

2016 – 2018: Director of **Undergraduate Thesis** of Sewmi Madu and Julia Gobl

Institution: University of South Bohemia, Czech Republic

Thesis: Role of Histone Modifying Enzymes in the embryogenesis of the soft tick *Ornithodoros moubata*.

MEMBER OF THESIS COMMITTEE

2023: Hala Mansour,

Institution: University of Lille, France.

Degree: PhD

Thesis: Etude de la fonction de GEXP15, une protéine régulatrice de la protéine Phosphatase 1, dans le cycle de développement intraérythrocytaire de *Plasmodium falciparum*.

Role: Examiner

2022: Vincent Cicculli,

Institution: Università di Corsica Pasquale Paoli, France.

Degree: PhD

Thesis: HOLIS-Tick: Identification et maîtrise des maladies vectorielles transmises par les tiques en Corse.

Role: Rapporteur

2022: Valentin Leannec-Rialland,
Institution: University of Bordeaux, France.
Degree: PhD
Thesis: Tick defensin γ -core reduces *Fusarium graminearum* growth and abrogates mycotoxins production with high efficiency.
Role: Invitee

2021: Sara Artigas Jeronimo,
Institution: University of Castilla-La Mancha, Spain.
Degree: PhD
Thesis: Multi-Omics approaches to the study of cellular biological processes and vaccine development.
Role: Rapporteur

2021: Jorge Alonso Carné,
Institution: University of Zaragoza, Spain.
Degree: PhD
Thesis: Utilización de la teledetección para la modelización y control de presencia de garrapatas en un proceso de cambio climático. Validación de variables y relaciones fenológicas.
Role: Rapporteur

2020: Pavlína Věchtová,
Institution: University of South Bohemia, Czech Republic.
Degree: PhD
Thesis: Comparative transcriptomics of *Ixodes ricinus* tick life stages.
Role: Rapporteur

2016: Lisa Hain, Bachelor Thesis.
Institution: University of South Bohemia, Czech Republic.
Degree: Master
Thesis: Understanding the role of bb0454 during infection by *Borrelia afzelii*.

CONFERENCE/WORKSHOP - PRESENTATIONS/POSTERS (Selected)

2024: The Conference of Research Workers in Animal Diseases (CRWAD), Chicago, United States
16th European Bat Research Symposium (EBRS-2024), Tarragona, Spain
EMOP 2024 Wroclaw, Poland
Labex IBEID International Conference, Adapting to Change: Emerging Infectious Diseases in a Shifting Climate, Paris, France

2023: V Congreso Internacional de las Ciencias Agropecuarias AGROCIENCIAS, Varadero, Cuba
European Veterinary Parasitology College meeting (EVPC), Maisons-Alfort, France
Journées scientifiques et doctorales de l'Anses (JSDA), Maisons-Alfort, France
10th Conference of the Scandinavian-Baltic Society for Parasitology (CSBSP10), Tartu, Estonia
1st Simposion Internacional 'Garrapatas, vectores de interes veterinario e innovacion para su control', Queretaro, Mexico
Ondo 2023 Pharma Food Congress - Functional Food and Phytomedicines: Promoting Translational Research for Societal Impact, Ondo, Nigeria
15th International Symposium on Ticks and Tick-borne Diseases (ISTTBD-XV), Weimar, Germany

2021: 7th European Veterinary Immunology Workshop

- 2020:** de la Fuente J, Urra JM, Ferreras-Colino E, Contreras M, Cabrera CM, de Mera IGF, Villar M, **Cabezas-Cruz A**, Gortázar C. 2020. Immunity to glycan alpha-Gal and COVID-19: possibilities for disease control and prevention. SciTech Central COVID-19. 11th International Virtual Seminar on COVID-19.
<https://www.scitcentralconferences.com/accepteddetails/international-virtual-seminar-on-covid-19/1151>
- 2019:** Organization of FCTM 1. Maisons-Alfort, France
[https://www.paru.cas.cz/novinky/novinka/5022-french-czech-tick-meeting-1-fctm-1-/,](https://www.paru.cas.cz/novinky/novinka/5022-french-czech-tick-meeting-1-fctm-1-/)
<https://www.vet-alfort.fr/actualites-de-l-ecole/deux-jours-consacres-aux-tiques>
 BioTick2019, Varadero, Cuba (ORAL PRESENTATION)
 13th International Symposium on Ticks and Tick-borne Diseases 2019, Weimar, Germany (ORAL PRESENTATION)
- 2018:** ICOPA, Daegu, South Korea (KEYNOTE SPEAKER)
 Tick and Tick-Borne Pathogens Seminar Series, Ceske Budejovice, Czech Republic (ORAL PRESENTATION)
- 2017:** IX International Conference on Ticks and Tick-borne Pathogens (TTP-9), Cairns, Australia (ORAL PRESENTATION)
 International Congress on Rickettsia and other Intracellular Bacteria (ESCCAR) 2017, Marseille, France (ORAL PRESENTATION)
 Neglected Vectors and Vector-Borne Diseases (EurNegVec): COST Action TD1303, Crete, Greece (ORAL PRESENTATION)
 ENVA research day, Maisons Alfort, France (ORAL PRESENTATION)
- 2016:** Workshop on Arthropod-Borne Diseases, Jena, Germany (ORAL PRESENTATION)
- 2015:** Molecular and Cellular Biology of Helminths IX, Hydra, Greece (POSTER)
- 2014:** VIII International Conference on Ticks and Tick-borne Pathogens (TTP-8), Cape Town, South Africa (POSTER)
- 2013:** II Tick-borne diseases workshop, Berlin, Germany (ORAL PRESENTATION)
 International Symposium on Ectoparasites of Pets (ISEP) conference 2013, Munich, Germany (ORAL PRESENTATION)
 XII. International Jena Symposium on Tick-Borne Diseases, Jena, Germany (POSTER)
- 2012:** POSTICK immunology workshop, Research Center Borstel, Borstel, Germany (ORAL PRESENTATION)
 Joint conference on emerging and reemerging epidemics affecting global health, Orvieto, Italy (POSTER)
 Euroscience Open Forum (ESOF) and Marie Curie Actions Conferences, Dublin, Ireland
 I Tick-borne diseases workshop, Berlin, Germany (ORAL PRESENTATION)
 POSTICK bioinformatics workshop, University of Glasgow Veterinary School, Glasgow, UK