

Liste des publications PFIE 2021

Articles :

Baillou A, **Kasal-Hoc N, Barc C**, Cognié J, **Pinard A, Pezant J**, Schulthess J, Peltier-Pain P, Lacroix-Lamandé S, Laurent F. Establishment of a newborn lamb gut-loop model to evaluate new methods of enteric disease control and reduce experimental animal use. *Veterinary Sciences*, 2021, 8 (9): art 170. [10.3390/vetsci8090170](https://doi.org/10.3390/vetsci8090170). [hal-03356183](https://hal.archives-ouvertes.fr/hal-03356183)

Caballero I, Ringot-Destrez B, Si-Tahar M, Barbry P, Guillon A, Lantier I, Berri M, Chevaleyre C, Fleurot I, **Céline Barc**, Ramphal R, Pons N, Paquet A, Lebrigand K, Baron C, Bähr A, Klymiuk N, Léonard R, Robbe-Masselot C. Evidence of early increased sialylation of airway mucins and defective mucociliary clearance in CFTR-deficient piglets. *Journal of Cystic Fibrosis*, 2021, 20: 173-82. [10.1016/j.jcf.2020.09.009](https://doi.org/10.1016/j.jcf.2020.09.009). [hal-02967168](https://hal.archives-ouvertes.fr/hal-02967168)

De Clercq K, Vandaele L, Vanbinst T, **Riou M**, Deblauwe I, Wesselingh W, **Pinard A**, Van Eetvelde M, **Boulesteix O**, Leemans B, Gélineau R, Vercauteren G, Van der Heyden S, Beckers J-F, Saegerman C, Sammin D, de Kruif A, De Leeuw I. Transmission of Bluetongue Virus Serotype 8 by Artificial Insemination with Frozen–Thawed Semen from Naturally Infected Bulls. *Viruses*, 2021, 13(4): art 652. <https://doi.org/10.3390/v13040652> [hal-03213304](https://hal.archives-ouvertes.fr/hal-03213304)

Gaboriaud P, Sadrin G, **Guillon E**, Fort G, Niepceyron A, Lallier N, Rossignol C, Larcher T, Sausset A, Guabiraba R, Silvestre A, Lacroix-Lamandé S, Schouler C, Laurent F, Bussière F I. The Absence of Gut Microbiota Alters the Development of the Apicomplexan Parasite *Eimeria tenella*. *Frontiers in Cellular and Infection*, 2021, 10: art 632556. [10.3389/fcimb.2020.632556](https://doi.org/10.3389/fcimb.2020.632556) [hal-03156323](https://hal.archives-ouvertes.fr/hal-03156323)

Gunia M, Lantier F, Bed'hom B, **Guillon E**, Helies V, Helloin E, Herbert C, Maupin M, **Riou M**, Robert R, Garreau H. *Pasteurella multocida* experimental infection 1): resistance and hematological response. 12th World Rabbit Congress, Nov 2021, Nantes, France. [hal-03508584](https://hal.archives-ouvertes.fr/hal-03508584)

Gunia M, Lantier F, Bed'hom B, **Guillon E**, Helies V, Helloin E, Herbert C, Maupin M, **Riou M**, Robert R, Garreau H. *Pasteurella multocida* experimental infection 2): genetic parameters. 12th World Rabbit Congress, Nov 2021, Nantes, France. [hal-03508609](https://hal.archives-ouvertes.fr/hal-03508609)

Guillon A, Pardessus J, L'hostis G, Fevre C, **Barc C**, Dalloneau E, Jouan Y, Bodier-Montagutelli E, Perez Y, Thorey C, Mereghetti L, Cabrera M, **Riou M**, Vecellio L, Le Guellec S, Heuzé-Vourc'h N. Inhaled bacteriophage therapy in a porcine model of pneumonia caused by *Pseudomonas aeruginosa* during mechanical ventilation. *British Journal of Pharmacology*, 2021, 178(18): 3829-42. [10.1111/bph.15526](https://doi.org/10.1111/bph.15526). [hal-03228074](https://hal.archives-ouvertes.fr/hal-03228074)

Lion A, Secula A, Raçon C, **Boulesteix O, Pinard A, Deslis A**, Hägglund S, Salem E, Cassard H, Näslund K, Gaudino M, Moreno A, Brocchi E, Delverdier M, Zohari S, Baranowski E, Valarcher JF, Ducatez MF, Meyer G. Enhanced pathogenesis caused by Influenza D virus and *Mycoplasma bovis* coinfection in calves: a disease severity linked with overexpression of IFN- γ as a key player of the enhanced innate immune response in lungs. *Microbiology Spectrum*, 2021, 9(3): e0169021. [10.1128/spectrum.01690-21](https://doi.org/10.1128/spectrum.01690-21).

López-Gálvez L, Fleurot I, Chamero P, Trapp S, Olivier M, Chevaleyre C, **Barc C, Riou M**, Rossignol C, Guillon A, Si-Tahar M, May T, Barbry P, Bähr A, Klymiuk N, Sirard J-C, Caballero I. Airway administration of flagellin regulates the inflammatory response to *Pseudomonas aeruginosa*. *American Journal of Respiratory Cell and Molecular Biology*, 2021, 65(4): 378-89. [10.1165/rcmb.2021-0125OC](https://doi.org/10.1165/rcmb.2021-0125OC). [hal-03258174](https://hal.archives-ouvertes.fr/hal-03258174)

Sallé G, Canlet C, Cortet J, Koch C, Malsa J, Reigner F, **Riou M, Perrot N**, Blanchard A, Mach N. Integrative biology defines novel biomarkers of resistance to strongylid infection in horses. *Scientific Reports*, 2021, 11(1): art 14278. [10.1038/s41598-021-93468-2](https://doi.org/10.1038/s41598-021-93468-2). [hal-03284457](https://hal.archives-ouvertes.fr/hal-03284457)

Saidi A, Gaboriaud P, Lalmanach AC, Vanderlynden L, Fessard A, Vettori P, Fort G, Guabiraba R, Schouler C, Laurent F, **Guitton E**, Lecaille F, Bussière FI, Lalmanach G. Upregulation of gut cathepsin L during *Eimeria tenella* infection. *Research in Veterinary Science*, 2021, 140: 109-16. ([10.1016/j.rvsc.2021.08.013](https://doi.org/10.1016/j.rvsc.2021.08.013)) ([hal-03331820](https://hal.archives-ouvertes.fr/hal-03331820))

Valarcher, J.F.; Hägglund, S.; Näslund, K.; Jouneau, L.; Malmström, E.; **Boulesteix, O.**; **Pinard, A.**; **Leguéré, D.**; **Deslis, A.**; **Gauthier, D.**; Dubuquoy C, Pietralunga V, Rémot A, Falk A, Shevchenko G, Bergström Lind S, Von Brömssen C, Vargmar K, Zhang B, Kwong PD, Rodriguez MJ, Garcia Duran M, Schwartz-Cornil I, Taylor G, Riffault S. Single-Shot Vaccines against Bovine Respiratory Syncytial Virus (BRSV): Comparative Evaluation of Long-Term Protection after Immunization in the Presence of BRSV-Specific Maternal Antibodies. *Vaccines*, 2021, 9 (3): art 236. ([10.3390/vaccines9030236](https://doi.org/10.3390/vaccines9030236)). ([hal-03182920](https://hal.archives-ouvertes.fr/hal-03182920))

Matériel et méthodes :

López-Gálvez L, Fleurot I, Chamero P, Trapp S, Olivier M, Chevalyere C, **Barc C**, **Riou M**, Rossignol C, Guillon A, Si-Tahar M, May T, Barbry P, Bähr A, Klymiuk N, Sirard J-C, Caballero I. Airway Administration of Flagellin Regulates the Inflammatory Response to *Pseudomonas aeruginosa*. *American Journal of Respiratory Cell and Molecular Biology*, 2021, 65(4):378-89. ([10.1165/rcmb.2021-0125OC](https://doi.org/10.1165/rcmb.2021-0125OC)). ([hal-03258174](https://hal.archives-ouvertes.fr/hal-03258174))

[The authors ... also thank **Jérémy Pezant**, **Alain Deslis**, and **Alexis Pléau** and the staff of the Plateforme d'Infectiologie Expérimentale (Unité d'Enseignement 1277, Centre de Recherche Val de Loire, INRAE, Nouzilly, France) as well as ... for their technical support].

Rambault M, Doz-Deblauwe E, Le Vern Y, Carreras F, Cunha P, Germon P, Rainard P, Winter N, Remot A. Neutrophils Encompass a Regulatory Subset Suppressing T Cells in Apparently Healthy Cattle and Mice. *Frontiers in Immunology*, 2021, 12 : art 625244. ([10.3389/fimmu.2021.625244](https://doi.org/10.3389/fimmu.2021.625244)). ([hal-03180156](https://hal.archives-ouvertes.fr/hal-03180156))

[Experimental protocols complied with French law (Décret 2001–464 29/05/01) and European directive 2010/63/UE for the care and use of laboratory animals and were carried out under Authorization for Experimentation on Laboratory Animals Number D-37-175-3 (**Animal facility UE-PFIE**, INRAE Centre Val de Loire for mice) and E 37-175-2 (UE-PAO, INRAE Centre Val de Loire for bovine)] [Six-to eight-week-old C57BL/6 mice and OT-II transgenic mice for the OVA MHC class II complex-specific TCR (16) on a C57BL/6 genetic background were bred at the resident PFIE animal facility before use]

Ribeiro E Silva A, Sausset A, Bussière FI, Laurent F, Lacroix-Lamandé S, Silvestre A. Genome-Wide Expression Patterns of Rhopty Kinases during the *Eimeria tenella* Life-Cycle. *Microorganisms*. 2021, 9(8), art 1621. ([10.3390/microorganisms9081621](https://doi.org/10.3390/microorganisms9081621)). ([hal-03329095](https://hal.archives-ouvertes.fr/hal-03329095))

[All animal experimentations have been performed in the Infectiology of Farm, Model, and Wildlife Animals Facility (**PFIE**, Centre INRAE Val De Loire: <https://doi.org/10.15454/1.5572352821559333E12>, accessed on 25 July 2021); member of the National Infrastructure EMERG'IN]

Saidi A, Gaboriaud P, Lalmanach A-C, Vanderlynden L, Fessard A, Vettori P, Fort G, Guabiraba R, Schouler C, Laurent F, **Guitton E**, Lecaille F, Bussière FI, Lalmanach G. Upregulation of gut cathepsin L during *Eimeria tenella* infection. *Research in Veterinary Science*, 2021, 140: 109-16. ([10.1016/j.rvsc.2021.08.013](https://doi.org/10.1016/j.rvsc.2021.08.013)) ([hal-03331820](https://hal.archives-ouvertes.fr/hal-03331820))

[Chickens were hatched in the Infectiology of Farm, Model and Wildlife Animals Facility (**PFIE**, INRAE: doi:10.15454/1.5572352821559333E12; member of the National Infrastructure EMERG'IN) as described elsewhere (Guitton et al., 2020)]

Sallé G, Canlet C, Cortet J, Koch C, Malsa J, Reigner F, **Riou M**, **Perrot N**, Blanchard A, Mach N. Integrative biology defines novel biomarkers of resistance to strongylid infection in horses. *Scientific*

Reports, 2021, 11(1): art 14278. [10.1038/s41598-021-93468-2](https://doi.org/10.1038/s41598-021-93468-2). [hal-03284457](https://hal.archives-ouvertes.fr/hal-03284457) [Haematological and serum biochemical parameters were recorded at PFIE (UE-1277 PFIE, INRAE, <https://doi.org/10.15454/1.5535888072272498e12>).]

Valarcher, J.F.; Hägglund, S.; Näslund, K.; Jouneau, L.; Malmström, E.; **Boulesteix, O.**; **Pinard, A.**; **Leguéré, D.**; **Deslis, A.**; **Gauthier, D.**; Dubuquoy C, Pietralunga V, Rémot A, Falk A, Shevchenko G, Bergström Lind S, Von Brömssen C, Vargmar K, Zhang B, Kwong PD, Rodriguez MJ, Garcia Duran M, Schwartz-Cornil I, Taylor G, Riffault S. Single-Shot Vaccines against Bovine Respiratory Syncytial Virus (BRSV): Comparative Evaluation of Long-Term Protection after Immunization in the Presence of BRSV-Specific Maternal Antibodies. *Vaccines*, 2021, 9(3): art 236. [10.3390/vaccines9030236](https://doi.org/10.3390/vaccines9030236). [hal-03182920](https://hal.archives-ouvertes.fr/hal-03182920)
[We thank ... INRAE PFIE (https://www6.val-de-loire.inrae.fr/pfie_eng/) (accessed on 7 March 2021).] for housing the vaccine trial]

Remerciements :

Baillou A, **Kasal-Hoc N**, **Barc C**, Cognié J, **Pinard A**, **Pezant J**, Schulthess J, Peltier-Pain P, Lacroix-Lamandé S, Laurent F. Establishment of a newborn lamb gut-loop model to evaluate new methods of enteric disease control and reduce experimental animal use. *Veterinary Sciences*, 2021, 8(9): art 170. [10.3390/vetsci8090170](https://doi.org/10.3390/vetsci8090170). [hal-03356183](https://hal.archives-ouvertes.fr/hal-03356183)
[We are also very grateful to ... **Fanny Faurie-Sarcé** (PFIE, INRAE) for the production of the C. parvum nluc-INRAE transgenic strain]

Chuard A, Courvoisier-Guyader K, Rémy S, Spatz S, Denesvre C, Padeloup D. The Tegument Protein pUL47 of Marek's Disease Virus Is Necessary for Horizontal Transmission and Is Important for Expression of Glycoprotein gC. *Journal of Virology*, 2021, 95(2): art e01645-20. [10.1128/JVI.01645-20](https://doi.org/10.1128/JVI.01645-20). [hal-03157517](https://hal.archives-ouvertes.fr/hal-03157517)
[All animal experiments were carried out at the Experimental Infectiology Facilities (PFIE) of INRAE (Nouzilly). We are grateful to **Patrice Cousin**, **Sébastien Lavillatte**, **Arnaud Faurie**, and **Olivier Dubès** for their invaluable help with animal care and handling]

Gaboriaud P, Sadrin G, **Guillon E**, Fort G, Niepceyron A, Lallier N, Rossignol C, Larcher T, Sausset A, Guabiraba R, Silvestre A, Lacroix-Lamandé S, Schouler C, Laurent F, Bussière F I. The Absence of Gut Microbiota Alters the Development of the Apicomplexan Parasite *Eimeria tenella*. *Frontiers in Cellular and Infection*, 2021, 10: art 632556. [10.3389/fcimb.2020.632556](https://doi.org/10.3389/fcimb.2020.632556) [hal-03156323](https://hal.archives-ouvertes.fr/hal-03156323)
[We are thankful to **T. Chaumeil**, **M. Renouard**, **S. Lavillatte**, **P. Cousin**, **A. Faurie**, **O. Dubès**, **M. Girault** from the Infectiology of Farm, Model and Wildlife Animals Facility (PFIE), for the animal care and skills with the animal experiments]

Guillon A, Pardessus J, L'hostis G, Fevre C, **Barc C**, Dalloneau E, Jouan Y, Bodier-Montagutelli E, Perez Y, Thorey C, Mereghetti L, Cabrera M, **Riou M**, Vecellio L, Le Guellec S, Heuzé-Vourc'h N. Inhaled bacteriophage therapy in a porcine model of pneumonia caused by *Pseudomonas aeruginosa* during mechanical ventilation. *British Journal of Pharmacology*, 2021, 178(18): 3829-42. [10.1111/bph.15526](https://doi.org/10.1111/bph.15526). [hal-03228074](https://hal.archives-ouvertes.fr/hal-03228074)
[Many thanks to **Stéphane Abrioux** and **Edouard Guillon**, directors of the Experimental Infectiology Platform (UE-1277 PFIE, INRAE Centre Val de Loire, Nouzilly, France), to the zootechnical staff of the "Zone Confinée" group, and particularly to **Olivier Boulesteix** (Leader of the "Zone Confinée" group), **Jérémy Pezant**, **Anne Pinard**, **Alexis Pléau**, **Noémie Perrot** and **Alain Deslis** (zootechnicians) for expert and dedicated help with the pig experiments and to **Nathalie Kasal-Hoc** (DMV of PFIE) for the authorizations of the deliverable veterinary drugs.]

Oliveira M, Ribeiro Rodrigues D, Guillory V, Kut E, Giotis E, Skinner M, Guabiraba R, Bryant C, Ferguson B. Chicken cGAS Senses Fowlpox Virus Infection and Regulates Macrophage Effector Functions. *Frontiers in Immunology*, 2021, 11: art 613079 [10.3389/fimmu.2020.613079](https://doi.org/10.3389/fimmu.2020.613079). [hal-](https://hal.archives-ouvertes.fr/hal-03228074)

[03157392](#))

[We thank the experimental facility **PFIE** (Plateforme d'Infectiologie Expérimentale, Centre INRAE Val de Loire, Nouzilly, France) for providing the animals used for the isolation of primary macrophages]

Rainard P, Repérant-Ferter M, Gitton C, Germon P. Shielding Effect of Escherichia coli O-Antigen Polysaccharide on J5-Induced Cross-Reactive Antibodies. *MSphere*, American Society for Microbiology., 2021, 6 (1), 15 p. ([10.1128/mSphere.01227-20](#)). ([hal-03155115](#))

[We are also grateful to **Hélène Jammes**, **Christophe Richard**, **Valérie Gelin**, and **Thierry Chaumeil** for their help in setting up blood sampling at the INRAE facility in Bressonvilliers]

Rambault M, Doz-Deblauwe E, Le Vern Y, Carreras F, Cunha P, Germon P, Rainard P, Winter N, Remot A. Neutrophils Encompass a Regulatory Subset Suppressing T Cells in Apparently Healthy Cattle and Mice. *Frontiers in Immunology*, 2021, 12 : art 625244. ([10.3389/fimmu.2021.625244](#)). ([hal-03180156](#))

[**Corinne Beauge** and her team (PFIE, INRAE, Nouzilly) are gratefully acknowledged for mice care.]

Ribeiro E Silva A, Sausset A, Bussière FI, Laurent F, Lacroix-Lamandé S, Silvestre A. Genome-Wide Expression Patterns of Rhopty Kinases during the *Eimeria tenella* Life-Cycle. *Microorganisms*. 2021, 9(8), art 1621. ([10.3390/microorganisms9081621](#)). ([hal-03329095](#))

[We thank the Infectiology of Farm, Model and Wildlife Animals Facility (PFIE), for the animal care and help with the animal experiments (**Thierry Chaumeil**, **Fanny Faurie-Sarcé**, **Olivier Dubes** and **Mylène Girault**)]

Roche SM, Holbert S, Le Vern Y, Rossignol C, Rossignol A, Velge P, Virlogeux-Payant I. A large panel of chicken cells are invaded *in vivo* by *Salmonella* Typhimurium even when depleted of all known invasion factors. *Open Biology*, 2021, 11: art 210117. ([10.1098/rsob.210117](#)). ([hal-03441032](#))

[We would like to thank ... the staff of the Experimental Platform for Infectious Diseases of Institut National de Recherche pour l'Agriculture, l'Alimentation et l'Environnement (**PFIE**, INRAE Val de Loire) for caring for the chicks and participating in the experiments]

Saidi A, Gaboriaud P, Lalmanach AC, Vanderlynden L, Fessard A, Vettori P, Fort G, Guabiraba R, Schouler C, Laurent F, **Gitton E**, Lecaille F, Bussière FI, Lalmanach G. Upregulation of gut cathepsin L during *Eimeria tenella* infection. *Research in Veterinary Science*, 2021, 140: 109-16. ([10.1016/j.rvsc.2021.08.013](#)) ([hal-03331820](#))

[We thank ... **T. Chaumeil**, **M. Renouard**, **S. Lavillatte**, **P. Cousin**, **A. Faurie**, **O. Dubès**, **M. Girault** (PFIE) for the animal care and help with the animal experiments]

Zenner C, Hitch TCA, Riedel T, Wortmann E, Tiede S, Buhl EM, Abt B, Neuhaus K, Velge P, Overmann J, Kaspers B, Clavel T. Early-Life Immune System Maturation in Chickens Using a Synthetic Community of Cultured Gut Bacteria. *mSystems*, 2021, 6: e01300-20 ([10.1128/mSystems.01300-20](#)) ([hal-03234418](#))

[We also thank ... all staff members of the INRAE experimental unit PFIE (Plateforme d'Infectiologie Expérimentale, Centre INRAE Val de Loire, Nouzilly, France), especially **Patrice Cousin**, **Olivier Dubès**, **Sébastien Lavillatte**, and **Laurence Mérat** for their technical support with the animal experiments performed at INRAE.]

Communications orales :

Baillou A, **Chaumeil T**, **Barc C**, Le Vern Y, Sausset A, Schulthess J, Peltier-Pain P, Lacroix-Lamandé S, Laurent F. Characterization of the intestinal mononuclear phagocytic cells in the intestine of the lamb to better understand the immune response against *Cryptosporidium parvum*. Apicomplexa virtual Meeting: Host-parasite interactions, Apr 2021, virtual, France. ([hal-03227702](#))

Baillou A, **Chaumeil T**, **Barc C**, Levern Y, Sausset A, Schulthess J, Peltier-Pain P, Lacroix-Lamandé S, Laurent F. Characterization of intestinal macrophages and dendritic cell subsets in neonatal lambs at homeostasis and following *Cryptosporidium parvum* infection. 13. European Multi-colloquium of Parasitology (EMOP 2021), Oct 2021, Belgrade, Serbia. [\(hal-03448564\)](#)

Gunia M, Lantier F, Bed'hom B, **Guillon E**, Helies V, Helloin E, Herbert C, Maupin M, **Riou M**, Robert R, Garreau H. *Pasteurella multocida* experimental infection 1): resistance and hematological response. 12th World Rabbit Congress, Nov 2021, Nantes, France. [\(hal-03508584\)](#)

Gunia M, Lantier F, Bed'hom B, **Guillon E**, Helies V, Helloin E, Herbert C, Maupin M, **Riou M**, Robert R, Garreau H. *Pasteurella multocida* experimental infection 2): genetic parameters. 12th World Rabbit Congress, Nov 2021, Nantes, France. [\(hal-03508609\)](#)

Riou M, Ducournau C, Chapey E, **Pinard A**, **Leguéré D**, **Gauthier D**, Peyron F, Dimier-Poisson I. New ethical diagnostic tool for immunological monitoring of toxoplasmosis in sheep. Congrès annuel conjoint des Sociétés Françaises de Mycologie Médicale et de Parasitologie (SFP-SFMM), Oct 2021, Lyon, France [\(hal-03476965\)](#)

Sutton G, Thieulent C, Fortier C, Hue E, Marcillaud Pitel C, **Pléau A**, **Deslis A**, **Guillon E**, Paillot R, Pronost S. Identification and in vitro and in vivo characterization of a new equid herpesvirus-1 DNA polymerase (ORF30) genotype associated with a C2254 / H752 strain in French horses. 11th International Equine Infectious Diseases Conference, Sep 2021, online, France. pp.58-59, [\(10.1111/evj.86_13495\)](#). [\(hal-03375470\)](#)

Sutton G, Carnet F, Normand C, Thieulent C, Hue E, Fortier C, **Pléau A**, **Deslis A**, **Guillon E**, Buisson B, Pronost S, Paillot R. Development of an assay using real time cell analysis for the measurement of equid herpesvirus 1 specific neutralizing antibody in horses after experimental infection or field vaccination. 11th International Equine Infectious Diseases Conference, Sep 2021, Online, France. pp.54-55, [\(10.1111/evj.79_13495\)](#). [\(hal-03375462\)](#)

Thieulent C, Sutton G, Hue E, Fortier C, Toquet M-P, **Pléau A**, **Deslis A**, **Guillon E**, Paillot R, Pronost S. Intérêt du valganciclovir dans le traitement des infections à herpès virus équin 1 chez les équidés. XXIIIème journées francophones de virologie, Société Française de Virologie, Apr 2021, Montpellier, France. [\(hal-03232358\)](#)

Thieulent C, Sutton G, Hue E, Fortier C, Toquet M-P, **Pléau A**, **Deslis A**, **Guillon E**, Paillot R, Pronost S. Traitement au valganciclovir des infections à herpès virus équin 1. Journées Sciences & Innovations Equines - 2021, IFCE, May 2021, Saumur, France. [\(hal-03230969\)](#)

Thieulent C, Sutton G, Toquet MP, Fremaux S, Hue E, Fortier C, **Pléau A**, **Deslis A**, **Abrioux S**, Pronost S, Paillot R. Oral administration of valganciclovir reduces clinical signs, virus shedding and cell-associated viraemia in ponies experimentally infected with equid herpesvirus-1. 11th International Equine Infectious Diseases Conference, Sep 2021, Online, France. pp.56-56, [\(10.1111/evj.82_13495\)](#). [\(hal-03362463\)](#)

Posters :

Baillou A, **Chaumeil T**, **Barc C**, Le Vern Y, Sausset A, Schulthess J, Peltier-Pain P, Lacroix-Lamandé S, Laurent F. Intestinal mononuclear phagocyte subsets of young ruminants: Characterization at homeostasis and during *Cryptosporidium parvum* infection. 7 European Veterinary Immunology Workshop (EVIW), Aug 2021, Online, Serbia. [\(hal-03382558\)](#)

Cauty A, Moiré N, Rossignol C, **Beaugé C**, **Mérat L**, **Lortscher E**, Dimier-Poisson I, **Riou M**. Impact du traitement au paracétamol sur le bien-être et la physiopathologie des souris infectées par *Toxoplasma gondii*. 16. Congrès national de la SFM - Microbes 2021, Sep 2021, Nantes, France. [\(hal-03389758\)](#)

Cauty A, Moiré N, Rossignol C, **Beaugé C**, **Mérat L**, **Lortscher E**, Dimier-Poisson I, **Riou M**. Impact of paracetamol treatment on the welfare and the pathophysiology of mice to toxoplasmosis. Congrès annuel conjoint des Sociétés Françaises de Mycologie Médicale et de Parasitologie (SFP-SFMM), Oct 2021, Lyon, France. ([hal-03477033](#))

Kempf F, Drumo R, Chaussé AM, Kubasova T, Menanteau P, **Guitton E**, Rychlik I, Velge P. Inoculation of four commensal bacteria in chicken has an impact on the gut microbiota composition, Salmonella colonisation and the immune response. EJP-One Health Annual Scientific Meeting, Jun 2021, Copenhagen, Denmark. ([hal-03472686](#))

León Janampa N, **Barc C**, Darrouzain F, Gatault P, **Riou M**, **Pinard A**, **Pezant J**, Caballero-Posadas I, Rossignol C, Gaudy-Graffin C, Brand D, Marlet J. Modeling Hepatitis E infection in immunocompromised patients using a new pig model. 17 International Symposium on Viral Hepatitis and Liver Diseases (ISVHLD), Jun 2021, Taipei, Taiwan. ([hal-03388900](#))

Riou M, Pajusco N, Travel A, Ducatez M, Rossignol C, Breton, **Pléau A**, Warin P, Souchet C, **Mérat L**, Jbenyeni A, Gyerin J-L, Simon L, Brouard B, Creach P. Development of automated measures of indicators of wellbeing and health of poultry: special case of avian infectious bronchitis. World's Poultry Congress (WPC), 2021, Online, France. ([hal-03385257](#))

Riou M, Pajusco N, Travel A, Ducatez M, Rossignol C, Lebreton S, **Pléau A**, Warin L, Souchet C, **Mérat L**, Jbenyeni A, Guérin, J-L, Simon L, Brouard B, Creach P. Développement de mesures automatisées des indicateurs de bien-être et de santé des volailles : cas particulier de la bronchite infectieuse aviaire. 16 Congrès national de la SFM - Microbes 2021, Sep 2021, Nantes, France. ([hal-03390115](#))

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Produits à destination de l'institut :

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