

^{èmes}
57 Journées
de la Recherche
Porcine



Program of French Swine Days



2025, February, 4 & 5
in Saint-Malo, France

ifip —
Institut du porc

INRAE



How to register?

I would like to register for the 57th Journées de la Recherche Porcine, on Tuesday, February 4 and Wednesday, February 5, 2025, and pay the fees (access to the 2 days, collection of papers, lunches, breaks, aperitif cocktail on Tuesday evening, 5/02): 460 € incl. VAT for registration before January 7, 2024 / 520 € incl. VAT for registration after January 7, 2025.

I have noted that by registering before January 7, 2025, I benefit from the preferential rate of 460 € incl. VAT (instead of 520 € incl. VAT).

I am a :

- Speaker or exhibitor or INRAE, student (work, lunches, breaks and cocktails) : Tuesday €65 /Wednesday €45 / 2 days €85
- Session chairman, Organizing and Support Committee, IFIP employee: free of charge

Link to the webform:

<https://ifip.asso.fr/inscription-aux-jrp-2025/>



English translation of oral presentations.

For non-French-speaking participants, simultaneous translation into English of all oral presentations will be provided live by 3 specialized interpreters present throughout the 2 days, with headsets provided in the room.

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Contact by mail : jrp@ifip.asso.fr

9:45 - Opening

Fabrice Laurent, INRAE

10:00 - Welfare, livestock management and reproduction

Chairman: Séverine Parois, ANSES

Oral interventions

1. **Animal welfare, human welfare. Putting one welfare in pig production into perspective**, Yannick Ramonet et Xavier Boivin
2. **Implications for French farming of the EFSA opinion on pig welfare: focus on sows**, Louise Kremer, Camille Bezançon, Agnès Tiret, Geneviève Aubin-Houzelstein, Virginie Michel
3. **Assessment of economic and organizational impacts of measures recommended in EFSA reports to improve pig welfare**, Valérie Courboulay, Alexia Aubry, Patrick Chevillon, Nadine Guingand, Anne Hemonic, Yvonnick Rousselière
4. **Impacts of three types of farrowing pens (crate, temporary confinement, lift crate and temporary confinement) on the performance and behaviour of sows and piglets**, Valérie Courboulay et Sylviane Boulot
5. **Outdoor pigs from birth to finishing: feedback on an innovative system**, Clémence Berne, Florine Marie, Florence Maupertuis, Stanislas Lubac, Brieuc Desaint, Carl Sheard
6. **Consequences of stopping tail docking on the condition of pig tails and on technical results**, Yannick Ramonet et Nicolas Villain
7. **Characterization of vocalisations associated with behaviours related to tail biting**, Océane Amichaud, Adèle Denis, Carole Guérin, Alexandre Poissonnet, Johan Thomas, Céline Tallet, Valérie Courboulay
8. **Does the energy intake of lactating sows exposed to chronic or occasional heat stress increase by formulating a less thermogenic feed or distributing feed only during the coolest hours of the day?**, Nathalie Quiniou, Julie Dupuis, David Renaudeau
9. **Influence of heat stress during gestation on feeding behaviour, growth performance, and carcass composition of pigs**, David Renaudeau, Gérard Dumas, Mathieu Monziols, Aira Maye Serviento

Posters

10. **Water consumption of pig farms in the Auvergne-Rhône-Alpes region**, Johan Thomas, Cassandre Boyer, Terence Dechaux, Aymeric Maillot, Bruno Dounies, Yvonnick Rousselière
11. **Towards better understanding of social interactions between gestating sows living in dynamic groups**, Mélodie Gelas, Anna Blanc, Caroline Clouard, Charlotte Gaillard
12. **Towards automatic detection of different types of social interactions in a group of gestating sows**, Anna Blanc, Manon De La Bourdonnaye, Johan Thomas, Alexandre Poissonnet, Valérie Courboulay, Mathieu Simon, Charlotte Gaillard
13. **Study of the farrowing duration of sows to evaluate the risk factors for difficult farrowings and understand their variability**, Adèle Drouet, Amandine Massiot, Mathias David, Vincent Begos, Jean-Charles Besnard, Camille Lucas, Antonin Pichaud
14. **Do litter size and piglet survival in alternative free-farrowing houses depend on the weight and physical condition of the sows?**, Sylviane Boulot et Sophie Ambrois
15. **Sow neck injuries and needle-and-syringe injections: a descriptive study**, Théo Nicolazo, Erell Abily, Arnaud Lebre, Justine Jeusselin, Céline Chevence, Valérie Normand, Gwenaél Boulbria, Florent Peyre, Charlotte Teixeira Costa
16. **Effects of spraying a bacterial inoculant in maternity rooms on sow and piglet performance**, Caroline Achard, Bastien Frayssinet, Juan Sebastian Ospina, Virgile Gueneau, Eric Chevaux, Fernando Bravo de Laguna
17. **Ultrasonographic assessment of stomach and colostrum intake in new-born piglets**, Sylviane Boulot et Gwendoline Hervé
18. **Acquiring thermograms to assess the comfort of newborn piglets in an alternative free-farrowing house**, Sylviane Boulot, Sophie Ambrois, Yvonnick Rousselière
19. **Effects of grinding teeth on piglet facial lesions, sow teat lesions and performances**, Claudie Guyomarc'h, Nicolas Villain, Yannick Ramonet
20. **Effects of feeder length and pen layout on behaviour and tail biting of weaned piglets with intact tails**, Caroline Rébillard, Tiphaine Potiron, Noémie Ory
21. **Evaluation of a playful and attractive enrichment combining the fibra'ball and fibra'pig in response to tail-biting during the post-weaning phase**, Caroline Rébillard, Tiphaine Potiron, Noémie Ory
22. **Evaluation of effects of a desiccant based on eucalyptus essential oil on piglet hypothermia at birth**, Solenn Challali, Flavie Jezegou-Bernard, Sylviane Boulot, Anne-Cécile Delahaye, Gwendoline Hervé, Anne Morvan
23. **Influence of season on hair cortisol concentration in pigs with and without access to the outdoors: results of a field study**, Solenn Gavaud, Julie Lion, Anissa Jahoui, Zoé Godefroy, Jeanne Bertrand, Karine Haurogné, Céline Tallet, Blandine Lieubeau, Julie Hervé
24. **Cleanliness of the floor and location of pig manure in a new open-plan livestock house**, Yvonnick Rousselière, Sophie Ambrois, Romain Richard, Mathilde Radek

25. **Can chasteberry fruits reduce mounting and aggressive behaviours of uncastrated male pigs?**, *Ghylène Goudet, Anne-Lyse Lainé, Juliette Ballin, Thibaut Chabrilat, Tony Terrasson, Stéphane Ferchaud*
26. **Is changing the feeding strategy by modifying feed access or antioxidant supplementation a good strategy to mitigate impacts of summer heat waves on finishing pigs?**, *David Renaudeau, Eloise Delamaire, Nathalie Quiniou*
27. **Inferring social dynamics and aggression of grower-finisher pigs using data from automated feeding stations**, *Luis-Andres Gonzalez-Gracia, Laurence Maignel, Patrick Gagnon, Éric Paquet, Jamie Ahloy-Dallaire*
28. **Long term pig tracking with computer vision: development of a hidden Markov model using individual identification**, *Sophie Ngo Bibinbe, Laurence Maignel, Patrick Gagnon, Jamie Ahloy-Dallaire, Éric Paquet*
29. **Effect of sperm pressurization in auto-insemination doses on sperm quality and preservation**, *Justine Abarnou, Jean-Rémi Cazette, Valentine Marre, Isabelle Mérour*
30. **Visual and anatomical characteristics of teat defects**, *Morgane Loury, Sylviane Boulot, Vincent Cousin*

12:30 - 2:00 - Buffet lunch

2:00 : Environment

Chairman Romain Girault, INRAE

Oral interventions

1. **Guidelines on future scenarios for the pig sector**, *Sandrine Espagnol, Nicolas Rouault, Emma Gourlez, Apolline Pissot, Nadine Guingand*
2. **Estimating the environmental performance of collective manure management through modeling**, *Florence Garcia-Launay, Alice Cadéro, Pascal Levasseur, Vincent Blazy, Sylvain Foray, Pierre Thiriet, Sandrine Espagnol*
3. **Influence of manure cooling on NH3, N2O and CH4 emitted by a pig-fattening building**, *Nadine Guingand, Yvonnick Rousselière, Solène Lagadec, Mélynda Hassouna*

Posters

4. **Overview of environmental impacts of pig feed**, *Didier Gaudré*
5. **Technical, economic and environmental management of slurry and manure of pig, beef and poultry farms**, *Pascal Levasseur, Nadine Guingand, Séverine Bourrin, Léonard Jarrige de la Sizeranne*
6. **Amounts of pig waste in the Massif Central**, *Pascal Levasseur, Solène Honor, Laurent Alibert*
7. **The utility of installing photovoltaic plants on pig farms for self-consumption of the energy produced**, *Frédéric Kergourlay et Pascal Poudenx*
8. **In-vitro analysis of gas emissions from pig waste: methodology**, *Nicolas Joguet, Quentin Morin-Ogier, Tristan Chalvon-Demersay*
9. **Influence of livestock waste characteristics on acidification methods to decrease ammonia volatilization during spreading**, *Anne-Sophie Langlois, Marie-Line Daumer, Nadine Guingand, Stéphanie Sommier, Solène Lagadec*
10. **Protecting workers in pig farming from ammonia and particulate matter: overview of preventive and protective measures**, *Solène Lagadec, Caroline Depoudent, Khaled Amin, Dominique Bellanger, Lise Leroux, Pauline Lecorguille, Carole Delaqueze, Véronique Le Gall, Nadine Guingand*
11. **Acidifying slurry and digestate to reduce ammonia emissions: assessment of agronomic and environmental effects**, *Mariana Moreira, Daniel Hanocq, Pierre Gautier, Anne-Sophie Langlois*
12. **The influence of robotic pig-slurry collection on slurry's methane-production potential**, *Arnaud Buchet, Alexandra Bily, Yasmine Quinquis, Yoann Lucas, Cédric Domain*



English translation of oral presentations.

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2:45 - Animal Nutrition (part1)

Chairman: **Bertrand Messenger**, ALILIS

Oral interventions

1. **Effects of the number of meals and feeding time on the growth performance of fattening pigs fed liquid diets**, *Emmanuel Janvier, Hervé Fortune, Eric Schetelat, Alain Abherve-Gueguen, Claire Launay*
2. **Performances of growing pigs as a function of the cereal used in pelleted feeds: comparison of maize, barley and wheat**, *Nathalie Quiniou, Anastasia Agouros, Maud Le Gall, Katia Quéméneur, Yannick Lechevestrier, Mathieu Monziols, Lucile Montagne, Etienne Labussiere*
3. **Impacts of distributing wrapped forage to fattening pigs on socio-technical-economic performance in organic farming**, *Nicolas Kolytcheff, Constance Drique, Marie Couasnon, Florence Maupertuis, Clémence Berne*

3:30 - 4:15 : Posters session and coffee break

4:15 - Animal Nutrition (part 2)

4. **Pressure-cooked protein crops for pigs and piglets: performance, protein self-sufficiency, and carbon footprint reduction**, *Mathieu Guillevic, Thierry Solignac, Alexandra Klouyten, Damien Craheix, Guillaume Chesneau*
5. **Administering high levels of vitamins to gestating sows to improve reproductive performance and piglet survivability**, *Béatrice Sauvé, Hannah Burlet, Laetitia Cloutier, Lucie Galiot, Gabrielle Dumas, Isabelle Audet, Matheus Costa, Danyel Bueno-Dalto*
6. **Bone mineralization kinetics of primiparous and multiparous sows and their litters during lactation as a function of dietary phosphorus and calcium intake**, *Nicolas Coquil, Julien Heurtault, Marie-Pierre Létourneau-Montminy, Patrick Schlegel*
7. **Characterisation of feed-intake patterns of lactating sows and relations with their performance: case study of the Tai Zumu line**, *Thelma Van Gheluwe, Nathan Maudet, Clément Girres, Guillaume Lenoir*
8. **Considering the real-time weight of gestating sows to estimate energy requirements for precision feeding**, *Clément Ribas, Charlotte Gaillard, Nathalie Quiniou*

Posters

9. **Assessment of the mineral status of gestating sows using saliva samples and two analytical methods**, *Clément Ribas, Charlotte Gaillard, Nathalie Quiniou*
10. **Effects of a bacterial xylanase on the short-chain fatty acids and the microbiota of late gestating sows**, *Sandrine Dufourny, Christelle Boudry, Sébastien Gofflot, Benjamin Dubois, José Wavreille*
11. **Supplementation with Lithothamnium, a source of marine calcium, to improve farrowing performance and reduce the risk of lameness in pregnant and lactating sows**, *Nicolas Aubertin, Benjamin Ribeiro, Margot Poujol, Maeliss Brunon, Jérôme Le Douce, Eric Pagot*
12. **Effects of adding micronutrients around parturition on the farrowing performance of hyperprolific sows**, *Stéphane Benaben, Anouk Cottin-Tillon, Emmanuel Landeau*
13. **Impacts on sows and litters of increasing feed frequency during gestation**, *Noémie Kermarrec, Yves Doussal, Mathieu Gloaguen*
14. **Effects of supplementing sow lactation diets with postbiotics derived from *Saccharomyces cerevisiae* on weaning performance**, *Maud Le Gall, Katia Quéméneur, Danté Werbrouck, Graziano Mantovani*
15. **Is including former food products as 25% of the diet of lactating sows too high?**, *Marion Girard, Peng Lin, Charlotte Fleuti, Giuseppe Bee*
16. **Feeding a dietary dual-strain *Bacillus* product to sows improves piglet birth weight and creep feed intake while decreasing sow backfat loss during lactation**, *Daniele Lima, Said El Bohdidi, Anna Paula Pinoti Pavaneli, Juliana Purceno Dos Santos, Eduardo Rael*
17. **Effects of replacing palm oil in piglet milk replacer for suckling piglets**, *Peter Vant Veld, Ashley Sijmonsbergen, Clément Moire, Ard van Enckevort*
18. **Impacts of rye in the diet of gestating sows on their microbiota and that of their piglets**, *Leila Mazroua, Éléonore Lemieux, Luca Lo Verso, Anthony T. Vincent, Jamie Ahloy-Dallaire, Frédéric Guay*
19. **Medium-chain fatty acids improve feed conversion ratio of both newly-weaned boars and gilts**, *Maartje De Vos, Christopher Marcq, Silke De Smet, Adelaide Panattoni, Anna Hettiarachchi, Sebastiaan Theuns*
20. **A blend of cinnamon and garlic with specific anti-pathogenic properties that promotes the health of weaned piglets**, *Auréli Montagnon, Simon Binet, Jun Young Mun, Jin Soo Kim, Lien Vande Maele*
21. **Effects of a protein drink on piglet performance in farrowing and post-weaning**, *Claudio Trombani, Bernard Fily, Vincent Burlot, Jeanne Fernand-Genty, Sophie Vigneron*
22. **Impacts of trace mineral sources on feed-use efficiency in weaned piglets**, *Roberto Barea, Mireille Huard, Silvia Peris*
23. **Effect of replacing lactose with maltodextrin in post-weaning piglet diets**, *Jeroen Degroote, Damien Truffin, Laure Darras, Pierre Linder*

24. **Effects of supplementation of antioxidant and anti-inflammatory compounds on the growth and antioxidant and inflammatory status of weaned piglets,** *Eya Selmi, Anthony T. Vincent, Marie-Pierre Létourneau-Montminy, Luca Lo Verso, Frédéric Guay*
25. **Successful zearalenone degradation in piglets unveiled: Evaluating a zearalenone hydrolase with EFSA-requested biomarkers,** *Barbara Doupovec, Barbara Streit, Manuela Killinger, Laure Rouxel, Dian Schatzmayr*
26. **Vitamin C modulates vitamin D metabolism and may enhance the immune system's ability to recognize viruses in weaned piglets naturally infected with the Porcine Reproductive and Respiratory Syndrome virus,** *Danyel Bueno Dalto, Mihai-Victor Curtasu, Carl A. Gagnon, Laetitia Cloutier, Frédéric Guay, Marie-Pierre Létourneau-Montminy*
27. **Effects of a microencapsulated blend of botanicals on weaning piglets artificially challenged with E. coli LPS,** *Andrea Bonetti, Benedetta Tugnoli, Andrea Piva, Chad H. Stahl, Ester Grilli*
28. **Effects of protected benzoic acid on zootechnical performance and intestinal health of post-weaning piglets,** *Roberto Barea, Mireille Huard, Dragan Sefer, Dejan Peric*
29. **Double-buffered sodium butyrate improves gut health in post weaning piglets in the context of reduced dietary energy and protein contents,** *Clémence Marecaille, Hélène Pithon, Celsa Manceaux, Xavier Roulleau*
30. **Decrease in dietary crude protein level associated with supplementation with branched-chain amino acids and monosodium glutamate in post-weaning piglets. Impacts on zootechnical performance,** *Constance Drique, Marie Couasnon, Yannick Ramonet, Aude Simongiovanni*
31. **Muramidase and Lactobacillus-extract postbiotics improve production and health parameters of nursery piglets,** *Yanhong Luo, Antonio Vargas Laguna, Daniel Planchenault, Aurelia Séon*
32. **The "synbiotic" concept improves the health status and performance of weaned piglets,** *Andrea Remmersmann et Alexandra Schlagheck*
33. **A Mg-protected Zn source improves growth performances of post-weaning piglets,** *Zoé Garlatti, Margaux Tansu, Elodie Bacou, Amélie Juanchich, Josselin Le Cour Grandmaison*
34. **Effect of a high dose of the next generation phytase on piglet performance (from 21-70 days of age) fed diets with reduced digestible phosphorus,** *Auréli Auvray, Barthold Christian Hillen, Perrine Leb, Bertrand Messager*
35. **Influence of pre-weaning supplementation of a novel iron-fortified peat product on blood haemoglobin and pre- and post-weaning growth in pigs,** *Hanne Coppens, Guillaume Le Gall, Tim Verbruggen, Joost Van Den Borne*
36. **Effects of live yeast for fattening pigs evaluated on the scale of a production area,** *Pierre Gaignon, David Brillouet, David Guillou*
37. **Effects of adding a bacterial xylanase to a wheat- and rye-based diet on the performance of fattening pigs in a German context,** *Emmanuel Landeau, Christelle Boudry, Ariane Von Mallinckrodt*
38. **The potential of stable isotopes as biomarkers of bioavailability in pigs: evaluation of two organic sources of zinc,** *Roberto Barea, Mireille Huard, Tracy Rode, Deana Hancock, Heather Tucker, Jesus Alberto Acosta*
39. **Increased dietary energy content increases average daily gain and carcass weight in entire male pigs fed ad libitum,** *Nathalie Quiniou, Anastasia Agouros, Maud Le Gall, Katia Quéméneur, Yannick Lechevestrier, Lucile Montagne, Etienne Labussière*
40. **Development of an in vitro model for mineral solubilization and absorption in pigs,** *Amélie Juanchich, Eva Dupuis, Lun Jing, Tristan Chalvon-Demersay, Edouard Coudert*
41. **Nutritional values of different cereal co-products in pigs,** *Maxime Traineau, Didier Gaudré, David Guillou, Anthony Bertin, Alain Abhervé-Gueguen, Yves Doussal, Maud Le Gall, Maria Vilarino*
42. **Effects of pelleting on digestive and metabolic use of energy from diets containing wheat, maize and barley in pigs,** *Labussière Etienne, Anastasia Agouros, Maud Le Gall, Katia Quéméneur, Yannick Lechevestrier, Nathalie Quiniou, Lucile Montagne*
43. **Effects of different fat sources on apparent total energy digestibility in the intestinal tract of piglets,** *Ralph Schemmer et Georg Duse*

6:30-8:30 : Cocktail reception



9:00 : Animal Health

Chairman: **Myène Petit**, ANSP

Oral interventions

1. **The mycotoxin zearalenone modulates expression of hepatic genes involved in immunometabolic signalling**, *Nina Le Moël*, Marion Garofalo, Maite Corti Isgro, Philippe Pinton, Sylvie Puel, Anne Fougerat, Clemence Rives, Nicolas Cabaton, Didier Gaudré, Mickaël Albin, Isabelle P. Oswald, Laura Soler
2. **Trends in the seroprevalence of influenza A virus infections on fattening pig farms in France between 2008 and 2022**, *Séverine Hervé*, Nicolas Rose, Nicolas Barbier, Roselyne Fonseca, Gaëtan Pinsard, Stéphane Quéguiner, Stéphane Gorin, Agnès Jardin, Gaëlle Simon
3. **Development of an audit to assess risk factors for diarrhea in the farrowing unit. Implementation in 20 affected farms**, *Sophie Brilland*, Agnès Jardin, Eric Lewandowski, Nathalie Capdevielle, Philippe Leneveu
4. **Effects of oral vaccination against E. coli F4/F18 on performance, animal exposure to antibiotic and behaviour of post-weaning pigs**, *Mélanie Libert*, Guillaume Jousset, Thomas Goues, Bernard Fily, Vincent Burlot, Jeanne Fernand-Genty, Sophie Vigneron
5. **The INAPORC Panel: 12 years of monitoring antibiotic use in pig farming in France**, *Alexandre Poissonnet*, Marie-Lou Bernard, Claire Chauvin, Anne Hémonic
6. **Study of effects of farm factors and changes in practices on antibiotic use for digestive purposes in piglets**, *Arnaud Buchet*, Vivien Samson, Bastien Riera, Mathieu Gloaguen
7. **Choice of control methods to validate the cleaning and disinfection of pig transport lorries**, *Isabelle Corrége*, Eric Gault, Jeanne Cottet, Mireille Le Dimna, Gaëtan Pinsard, Charlie Cador, Marina Brichet-Piquet, Olivier Bourry

Posters

8. **Diagnosis of coccidiosis by PCR: detection frequency of Cystoisospora suis in France**, *Sophie Brilland*, Nathalie Capdevielle, Philippe Leneveu, Agnès Jardin
9. **Bayesian estimation of the sensitivity and specificity of coprological and serological diagnostic tests for detecting Ascaris suum infestation on pig farms**, *Maxime Delsart*, Jean-Michel Répérant, Chantal Benoit, Edouard Boudin, Jean-François Da-Costa, Virginie Dorenlor, Florent Eono, Eric Eveno, Stéphane Kerphérique, Gilles Poulain, Marie Souquière, Martine Thomas-Henaff, Françoise Pol, Barbara Dufour, Nicolas Rose, Christelle Fablet
10. **Evaluation of porcine parvovirus prevalence in vaccinated boar semen from artificial insemination centres**, *Gwendoline Hervé*, Isabelle Corrége, Laurence Guilbert-Julien, Isabelle Mèroux
11. **Monitoring of excretion of Rotavirus type A following routine vaccination of sows in a farrow-to-finish farm**, *Arnaud Lebre*, Théo Nicolazo, Céline Chevalance, Pauline Berton, Eric Bousquet, Justine Jeusselin, Charlotte Teixeira-Costa, Valérie Normand, Gwenaél Boulbria
12. **Review of lung scores on 2 500 French pig farms from 2021-2023. Analysis of annual (2018-2023) and seasonal variability**, *Philippe Leneveu*, Bertrand Maynard, Mathieu Charles, Marine Gosselin, Guillaume Jousset, Aline Lefebvre, Jérémy Morin, Jean Luc Sévin, Christian Spindler, Eric Lewandowski, Maxime Delsart
13. **Utility of a sound-based technology for monitoring respiration in a swine post-weaning and fattening unit**, *Gwendoline Hervé*, Jeanne Cottet, Dorothée Desson, Nathalie Robert
14. **Frequency of detection of Mycoplasma hyopneumoniae and influenza type A virus in the respiratory mucus of growing pigs exhibiting respiratory troubles**, *Agnès Jardin*, Eric Lewandowski, Sophie Brilland, Philippe Leneveu
15. **Antimicrobial declaration with Calypso: what is the situation in the pig sector?**, *Basile Pasquereau*, Anne Chevalance, Delphine Urban, Franck Fournes
16. **Selenium poisoning in pigs: a review of current knowledge based on monitoring a clinical case**, *Justine Eppe*, Justin Marchal, José Wavreille, Martine Laitat
17. **Multivariate approach to relationships between intestinal health in piglets and digestive microbiota**, *Cléo Omphalios* et Samy Jullian
18. **Bacillus velezensis PB6 supports weaned piglet performance and farm economic results**, *Eric N'Guetta*, Sebastián Casiró, Ricardo Neto, Valentine Van Hamme, Alexandra Wealleans
19. **Study of dynamics of the intestinal microbiota in pigs using non-invasive sampling**, *Inés García Viñado*, Federico Correa, Paolo Trevisi, Giuseppe Bee, Catherine Ollagnier
20. **Development of an in vitro intestinal wound healing model on a porcine intestinal cell line**, *Emilia Benassai*, Soline Moisdon, Eva Dupuis, Tristan Chalvon-Demersay, Edouard Coudert
21. **Precision-cut liver slices: an ex-vivo model to analyse oestrogenic mycotoxins**, *Marion Garofalo*, Maite Corti Isgro, Philippe Pinton, Sylvie Puel, Nina Le Moël, Emma Billon, Mickaël Albin, Damien P. Prévèraud, Delphine Payros, Isabelle P. Oswald, Laura Soler
22. **Developing an audit of sow foot lesions to increase sow longevity based on multicentric screening of farms in western France**, *Lucie Gautier*, Pierre Pralus, Luis da Veiga, Mathieu Couteau
23. **Measuring the acid-base balance, ionogram, and clinical biochemistry of sows**, *Mathieu Couteau*, Marion Chabanne, Chloé Guilloton, Victor Prod'homme, Maxime Delsart
24. **Reconstituted essential oils in pig production: a strategy to deal with variability in natural sources**, *Sergi López-Vergé*, Oriol Anglada, Gemma Teto, Jose J. Pastor
25. **Factors associated with iron-deficiency anaemia of suckling piglets**, *Ninon Caudeyron*, Caroline Larchevêque, Gwenaél Mehoulas, Charlie Cador

26. **Effect of excess zinc in post-weaning piglets naturally infected with porcine reproductive and respiratory syndrome**, *Alexia Godbout, Laetitia Cloutier, Aude Simongiovanni, Carl Gagnon, Marie-Pierre Letourneau Montminy*
27. **Encapsulated calcium butyrate: A key to support post-weaning performance and alleviate intestinal stress**, *Eric N'Guetta, Sebastián Casiró, Valentine Van Hamme, Mara Costa*
28. **A vitamin-supplementation strategy using vitamins D and C to improve pig robustness during the nursery period in a natural disease-challenge model**, *Mihai-Victor Curtasu, Danyel Bueno Dalto, Carl A. Gagnon, Laetitia Cloutier, Frédéric Guay, Marie-Pierre Letourneau-Montminy*
29. **Population pharmacokinetic modelling of different sulphonamides associated with trimethoprim in pigs**, *Marine Boulanger, Jean-François Taillandier, Jérôme Henri, Marlène Lacroix, Béatrice Roques, Aude Ferran, Alexis Viel*
30. **Identification of contamination biomarkers in pig transport lorries**, *Mireille Le Dimna, Isabelle Corrége, Romain Richard, Charlie Cador, Yannick Blanchard, Olivier Bourry*
31. **Assessing risks of viral contamination associated with using recycled water in slaughterhouses to wash pig transport lorries**, *Mireille Le Dimna, Gaëtan Pinsard, Isabelle Corrége, Alain Le Roux, Loréna Girre, Charlie Cador, Marina Brichet-Piquet, Olivier Bourry*

10:45 - 11:30: Posters session and coffee break

11:30 - Economics and Sociology

Présidence : **Anne-Charlotte Dockès**, Directrice Approches Sociales et Transfert - Institut de l'Elevage (Idele)

Communications orales

1. **Role of co-design processes in promoting innovation in organic and outdoor pig systems**, *Florine Marie, Sarah Lombard, Mélanie Goujon, Anne Collin, Stéphanie Mothes*
2. **What are the optimal ages and weights for selling fattening pigs in order to maximize farmers' income?**, *Pierre Gaignon, Gael Goasdoue, David Guillou*
3. **A cross-section of farmer and consumer typologies: identifying points of convergence to better support changes in livestock farming**, *Jeanne Cottet, Justine Robin, Yvonnick Rousselière, Romain Piovan, Elsa Delanoue*
4. **Quantitative assessment of the consumption of pork products in France in 2021**, *Valérie Diot et Julien Alapetite*
5. **Food sovereignty in European and French markets: dynamics for the pork industry**, *Elisa Husson*

Posters

6. **Identifying the determinants of implementing a CSR approach in pig farming**, *Arnaud Buchet, Pierre-Yves Conan, Noémie Ory, Charlie Cador, Mélanie Kutschera, Perrine Jamen, Franck Montagnon, Melinda Buisson, Cédric Domain, Frédéric Pennamen, Corentin Hamard, Jean-Yves Legaud*
7. **The contribution of an artistic approach to addressing societal concerns about pig farming among students**, *Justine Faure, Céline Martel, Charlotte Baheu*
8. **Realism of graphic representations of pigs and pig farming in children's press and literature in France**, *Caroline Depoudent, Axel Bonhomme, Audrey Flocon, Rozenn Le Guennic, Abdou Salam Lo, Léa Robillard, Sophie Brajon, Vanessa Lollivier*
9. **Outdoor access at all stages of an animal's life: analysis of meat consumer perceptions of this new pig rearing concept**, *Jeanne Cottet, Elsa Delanoue, Mathilde Radek, Sophie Ambrois, Yvonnick Rousselière*
10. **Development of a self-assessment test for farmers regarding the attractiveness of pig farming**, *Claudie Guyomarc'h, Caroline Depoudent, Anaïs Le Gac*
11. **The role of secondary and higher education in making jobs in the pig sector more attractive**, *Lou-Ann Barrier, Bérénice Bessine, Manon Chevalier, Lise Guyonvarch, Pierre Morelon, Christine Roguet, Lucile Montagne*
12. **Meat sold in short distribution channels: economic and quality challenges for pig and cattle farmers**, *Arnaud Bozec, Christèle Pineau, Jean-Michel Capelier, Sophie Alain, Clémence Bièche*
13. **Trends in the association of herbivores and pigs in the Massif Central: lessons from the 2010 and 2020 agricultural censuses**, *Christine Roguet, Solène Honor, Hélène Rapey, Bruno Dounies*
14. **The US pork industry at a crossroads: thoughts on future dynamics**, *Elisa Husson et Nicolas Rouault*
15. **"DATA DES MARCHÉS": an economic-data visualisation tool serving stakeholders in the pork sector**, *Léa Dulon et Elisa Husson*

12:45- 2:15 : Buffet lunch

2:15 - Genetics and meat quality

Chairman: **Bruno Ligonesche**, Nucléus

Oral interventions

1. **Selective breeding effectively influences the gut microbiota in pigs**, Catherine Larzul, Fany Blanc, Gaëtan Lemonnier, Deborah Jarde, Marie-Noëlle Rossignol, Charline Niort, Claire Rogel-Gaillard, Jordi Estelle
2. **Synthèse - Holobionts: a new dimension in pig breeding?**, Catherine Larzul, Vanille Deru, Claire Rogel-Gaillard, Céline Carillier-Jacquin, Jordi Estelle
3. **Relation between in vitro microbial fermentations and in vivo performance in pigs selected for their residual feed intake**, Olivier Zemb, Lauren Jouaron, Jordi Estelle, Anaïs Cazals, Caroline Achard, Marion Schiavone, Tiffany Page, Laurent Cauquil, Carole Bannelier, Amir Aliakbari, Yvon Billon, Yves Farizon, Hélène Gilbert
4. **Genetic determinism of resilience to environmental challenge using daily feed intake records for three lines of pigs**, Tomasi Tusingwiire, Carolina Garcia-Baccino, Céline Carillier, Bruno Ligonesche, Catherine Larzul, Zulma Vitezica
5. **Influence of multiple maternal-ability components on early litter survival and growth**, Océane Girardie, Denis Laloë, Mathieu Bonneau, Yvon Billon, Jean Bailly, Ingrid David, Laurianne Canario
6. **Analysis of the feeding behaviour of growing pigs and its relations with energy efficiency and social interactions**, Laurence Maignel, Patrick Gagnon, Luis-Andres Gonzalez-Gracia, Jamie Ahloy-Dallaire, Éric Paquet
7. **A participatory approach for the co-design of a pork production chain based on the Martinique feral pig**, Nicolas Degras, Julie Labatut, Gisèle Alexandre, Nathalie Mandonnet, Audrey Fanchone, Jean-Luc Gouridine

Posters

8. **LIPH4SAS: a French national research infrastructure for phenotyping livestock**, Jean-Pierre Bidanel, Yvon Billon, Mouna Loucif, Stéphane Ingrand
9. **Computer vision to automatically record farrowing traits**, Manuel Revilla, Anatolii Savchuk, Dennis Janssen, Bram Visser, Abe Huisman
10. **MoSBReal: automated recording and monitoring of postures of lactating sows**, Téo Cochou, Mathieu Bonneau, Jean-François Bomp, Juliette Magadray, Aurélie Le Dreau, Bruno Ligonesche, Clémentine Perrochon, Céline Chesnet, Guillaume Lenoir, Laurianne Canario
11. **Characterisation of innovative phenotypic indicators of animal robustness and health on production farms for genetic selection**, Alexandre Poissonnet, Bill Yehouenou, Gwendoline Hervé, Céline Carillier-Jacquin, Catherine Larzul, Arnaud Buchet, Bruno Ligonesche, Maxime Banville
12. **A new rapid method for measuring skatole in pig plasma and fat**, Samuel Stewart, Emmanuel Scorsone, Armel Prunier, Matthieu Hamel
13. **Phenotypic analysis of traits associated with muscle growth and feed efficiency for different French pig lines under selection**, Maxime Banville, Mathieu Monziols, Delphine Loiseau, Claire Hassenfratz, Sandrine Schwob
14. **Impacts of genomic selection in a swine population managed by optimal contribution selection (OCS)**, Loïc Flatres-Grall, Florence Ytournal, Guillaume Lenoir, Kambiz Kasheffard
15. **Prediction of digestive efficiency in two production systems: organic and conventional**, Céline Carillier-Jacquin, Sonja Allen, Etienne Labussière, Philippe Ganier, Claire Hassenfratz, Marie-José Mercat, Charline Niort, Stéphane Ferchaud, William Hebrard, Hélène Gilbert
16. **Characteristics of uncastrated male pigs in organic farming**, Stéphane Ferchaud, Tony Terrasson, Charline Niort
17. **Study of the genetic determinism of the number and proportion of non-functional teats in two maternal lines**, Morgane Loury, Carolina Garcia Baccino, Aurélie Le Dreau
18. **Enhancing genetic selection for maternal traits using data from free-farrowing systems**, Léa Belmonte, Claudia A. Sevellano, Lisette Van Der Zande, Eli Grindflek, Kristine H. Martinsen
19. **Reproduction and production trade-offs in sire line selection**, Denis Cudrey, Tifenn Vissault, Guillaume Lenoir, Florence Ytournal
20. **Estimation of amino acid requirements of growing pigs by sex and terminal crossbreed based on periodic weight and feed intake measurements**, Nathalie Quiniou et Michel Launay
21. **Growth performance and body composition in pigs following protein and phosphorus restriction**, Cécile MD Bonnefont, Claudia Kasper, Albert Brun, Ludovic Brossard, Tamas Donko, Michael Oster, Maria Font-i-Furnols, Patrick Schlegel
22. **Impact of dietary L-histidine supplementation on histidine-containing dipeptides and pork quality**, Bart Matton, Esra Kurt, Ronald van Kol, Bas Philipse, Stefaan De Smet, Ediz Klont, Ronald Klont

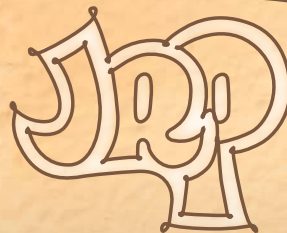
4:15 : Clôture

Michel Marcon, IFIP





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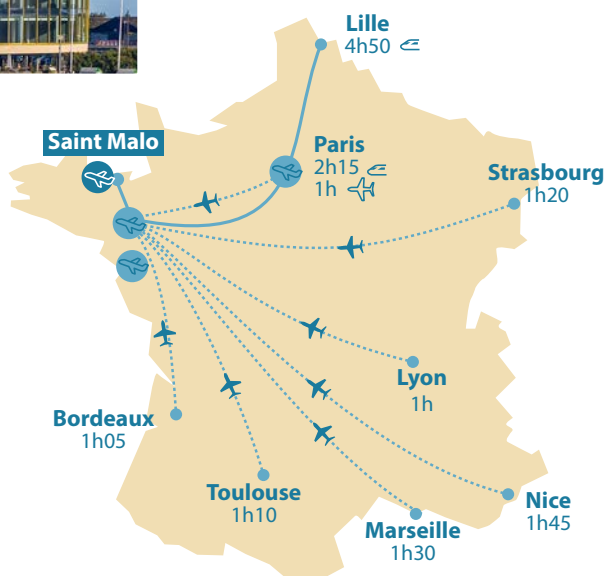
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