

AXE1 - Publications 2017

1. **Alexandre-Gouabau, M. C. , Antignac, J.-P., Molamine, M., Qannari, E. M., Cariou, V., Moyon, T., Souchard, A., Simon, L., Boscher , C., Boquien, C. (2017).** Le lipidome du lait maternel prédictif de la trajectoire pondérale postnatale du prématuré. *Nutrition Clinique et Métabolisme*, 31 (1), 37. , DOI : 10.1016/j.nupar.2016.10.020
2. **Amarger, V. , Giudicelli, F., Pagniez, A., Parnet, P. (2017).** Perinatal high methyl donor alters gene expression in IGF system in male offspring without altering DNA methylation. *Future Science OA*, 3 (1). , DOI : 10.4155/fsoa-2016-0077 <http://prodinra.inra.fr/record/394778>
3. **Barnoud, D., Darmaun, D., Jirka, A. (2017).** Controversy: Use of semi-elemental mixtures in enteral nutrition. *Nutrition Clinique et Métabolisme*, 31 (2), 87-92. , DOI : 10.1016/j.nupar.2017.03.005 <http://prodinra.inra.fr/record/407168>
4. **Betoko A, Lioret S, Heude B, Hankard R, Carles S, Forhan A, Regnault N, Botton J, Charles MA, de Lauzon-Guillain B; EDEN Mother-Child Cohort Study Group.** Influence of infant feeding patterns over the first year of life on growth from birth to 5 years. *Pediatr Obes.* 2017 Aug;12 Suppl 1:94-101.
5. **Boubred F, Jamin A, Buffat C, Daniel L, Borel P, Boudry G, Le Huëron-Luron I, Simeoni U.** Neonatal high protein intake enhances neonatal growth without significant adverse renal effects in spontaneous IUGR piglets. *Physiol Rep.* 2017 May;5(10). pii: e13296. doi: 10.14814/phy2.13296.
6. **Boué G, Cummins E, Guillou S, Antignac JP, Le Bizec B, Membré JM.** Development and application of a probabilistic risk-benefit assessment model for infant feeding integrating microbiological, nutritional and chemical components. *Risk Analysis* 2017;37(12):2360-2388.
7. **Bourlieu-Lacanal, C., DEGLAIRE, A., De Oliveira, S. C., Ménard, O., Le Gouar, Y., Carrière, F., Dupont, D. (2017).** Towards infant formula biomimetic of human milk structure and digestive behaviour. *OCL Oilseeds and Fats Crops and Lipids*, 24 (2), D 206. , DOI : 10.1051/ocl/2017010 <http://prodinra.inra.fr/record/391259>
8. **Chouraqui JP, Tavoularis G, Emery Y, Francou A, Hébel P, Bocquet M, Hankard R, Turck D.** The French national survey on food consumption of children under 3 years of age - Nutri-Bébé 2013: design, methodology, population sampling and feeding practices. *Public Health Nutr.* 2018;21(3):502-514.
9. **De Oliveira, S. C., Bellanger, A., Ménard, O., Pladys, P., Le Gouar, Y., Dirson, E., Kroell, F., Dupont, D., DEGLAIRE, A., Bourlieu-Lacanal, C. (2017).** Impact of human milk pasteurization on gastric digestion in preterm infants: a randomized controlled trial. *American Journal of Clinical Nutrition*, 105 (2), 379-390. , DOI : 10.3945/ajcn.116.142539 <http://prodinra.inra.fr/record/385167>
10. **De Oliveira, S. C., Bellanger, A., Ménard, O., Pladys, P., Le Gouar, Y., Henry, G., Dirson, E., Rousseau, F., Carrière, F., Dupont, D., Bourlieu-Lacanal, C., DEGLAIRE, A. (2017).** Impact of homogenization of pasteurized human milk on gastric digestion in the preterm infant: A randomized

- controlled trial. *Clinical Nutrition*, 20, 1-11. , DOI : 10.1016/j.clnesp.2017.05.001
<http://prodinra.inra.fr/record/397239>
11. **De Oliveira, S. C., Bourlieu-Lacanal, C., Ménard, O., Bellanger, A., Carrière, F., Dirson, E., Le Gouar, Y., Pladys, P., Dupont, D., DEGLAIRE, A. (2017).** Peut-on mimer la digestion gastrique du nouveau-né grâce à un modèle in vitro dynamique ?. *Nutrition Clinique et Métabolisme*, 31 (1), 45. , DOI : 10.1016/j.nupar.2016.10.038 <http://prodinra.inra.fr/record/391703>
 12. **Dicky, O. , Ehlinger, V., Montjaux, N., Gremmo-Féger, G., Sizun, J., Rozé, J.-C., Arnaud, C., Casper, C. (2017).** Policy of feeding very preterm infants with their mother's own fresh expressed milk was associated with a reduced risk of bronchopulmonary dysplasia. *Acta Paediatrica*, 106 (5), 755-762. , DOI : 10.1111/apa.13757 <http://prodinra.inra.fr/record/422004>
 13. **Durrmeyer, X., Marchand-Martin, L., Porcher, R., Gascoïn, G., Rozé, J.-C., Storme, L., Favrais, G., Ancel, P. Y., Cambonie, G. (2017).** Abstention or intervention for isolated hypotension in the first 3 days of life in extremely preterm infants: association with short-term outcomes in the EPIPAGE 2 cohort study. *Archives of Disease in Childhood-Fetal and Neonatal Edition*, 2017 Nov (102(6)), 490-496. , DOI : 10.1136/archdischild-2016-312104 <http://prodinra.inra.fr/record/422006>
 14. **Le Huërou-Luron I, Bouzerzour K, Ferret-Bernard S, Ménard O, Le Normand L, Perrier C, Le Bourgot C, Jardin J, Bourlieu C, Carton T, Le Ruyet P, Cuinet I, Bonhomme C, Dupont D.** A mixture of milk and vegetable lipids in infant formula changes gut digestion, mucosal immunity and microbiota composition in neonatal piglets. *Eur J Nutr*. 2018 Mar;57(2):463-476. doi: 10.1007/s00394-016-1329-3. Epub 2016 Oct 15.
 15. **Leclerc, L., Thorin, C., Flanagan, J., Biourge, V., Serisier, S., Nguyen, P.** Higher neonatal growth rate and body condition score at 7 months are predictive factors of obesity in adult female Beagle dogs (2017) *BMC Veterinary Research*, 13 (1), art. no. 104, DOI: 10.1186/s12917-017-0994-7
 16. **Legrand, A. , Frondas, A., Aubret, F., Corre, A., Flamant, C., Simon, L., Desrobert, C., Rozé, J.-C. (2017).** Randomised controlled trial shows that co-bedding twins may reduce birthweight recovery delay, parenteral nutrition weaning time and hospitalisation. *Acta Paediatrica*, 106 (2), 2055-2059. , DOI : 10.1111/apa.13885 <http://prodinra.inra.fr/record/422080>
 17. **Martin Agnoux A, El Ghaziri A, Moyon T, Pagniez A, David A, Simard G, Parnet P, Qannari EM, Darmaun D, Antignac JP, Alexandre-Gouabau MC.** Maternal protein restriction during lactation induces early and lasting plasma metabolomic and hepatic lipidomic signatures of the offspring in a rodent programming model. *J Nutr Biochem*. 2017;55:124-141.
 18. **Martin Agnoux, A., El Ghaziri, A., Moyon, T., Pagniez, A., David, A., Simard, G., Parnet, P., Qannari, E. M., Darmaun, D., Antignac, J.-P., Alexandre-Gouabau, M. C. (2017).** Maternal protein restriction during lactation induces early and lasting plasma metabolomic and hepatic lipidomic signatures of the offspring in a rodent programming model. *Journal of Nutritional Biochemistry*, 1-60. , DOI : 10.1016/j.jnutbio.2017.11.009 <http://prodinra.inra.fr/record/419570>

19. **Rozé, J.-C., Ancel, P.-Y., Lepage, P., Martin-Marchand, L., Al Nabhani, Z., Delannoy, J., Picaud, J.-C., Lapillonne, A., Aires, J., Durox, M., Darmaun, D., Neu, J., Butel, M.-J. (2017).** Nutritional strategies and gut microbiota composition as risk factors for necrotizing enterocolitis in very-preterm infants. *American Journal of Clinical Nutrition*, 106 (3), 821-830. , DOI :10.3945/ajcn.117.
<http://prodinra.inra.fr/record/410607>
20. **Savchuk I, Morvan ML, Søbørg T, Antignac JP, Gemzell-Danielsson K, Le Bizec B, Söder O, Svechnikov K.** Resveratrol inhibits steroidogenesis in human fetal adrenocortical cells at the end of first trimester. *Molecular Nutrition and Food Research* 2017;61(2),1600522.
21. **Sevrin, T., Alexandre-Gouabau, M. C., Darmaun, D., Palvadeau, A., André, A., Nguyen, P., Ouguerram, K., Boquien, C. (2017).** Use of water turnover method to measure mother's milk flow in a rat model: Application to dams receiving a low protein diet during gestation and lactation. *Plos One*, 12 (7), e0180550. , DOI : 10.1371/journal.pone.0180550 <http://prodinra.inra.fr/record/405317>
22. **Sicard, M., Nusinovici, S., Hanf, M., Muller, J. B., Guellec, I., Ancel, P., Gascoin, G., Rozé, J.-C., Flamant, C. (2017).** Fetal and postnatal head circumference growth: Synergetic factors for neurodevelopmental outcome at 2 years of age for preterm infants. *Neonatology*, 112 (2), 122-129. , DOI : 10.1159/000464272 <http://prodinra.inra.fr/record/422087>
23. **Simon, L., Nusinovici, S., Flamant, C., Cariou, B., Rouger, V., Gascoin, G., Darmaun, D., Roze, J.-C., Hanf, M. (2017).** Post-term growth and cognitive development at 5 years of age in preterm children: Evidence from a prospective population-based cohort. *Plos One*, 12 (3). , DOI : 10.1371/journal.pone.0174645 <http://prodinra.inra.fr/record/398119>
24. **Tran, N. T. , Alexandre-Gouabau, M. C., Pagniez, A., Ouguerram, K., Boquien, C., WINER, N., Darmaun, D. (2017).** Neonatal Citrulline Supplementation and Later Exposure to a High Fructose Diet in Rats Born with a Low Birth Weight: A Preliminary Report. *Nutrients*, 9 (4), 1-15. , DOI : 10.3390/nu9040375 <http://prodinra.inra.fr/record/403088>
25. **Tran, N. T., Amarger, V., Bourdon, A., Misbert, E., Grit, I., WINER, N., Darmaun, D. (2017).** Maternal citrulline supplementation enhances placental function and fetal growth in a rat model of IUGR: involvement of insulin-like growth factor 2 and angiogenic factors. *Journal of Maternal-Fetal and Neonatal Medicine*, 30 (16), 1906-1911. , DOI : 10.1080/14767058.2016.1229768 <http://prodinra.inra.fr/record/397933>
26. **Vidailhet, M., Rieu, D., Feillet, F., Bocquet, A., Chouraqui, J. P., Darmaun, D., Dupont, C., Frelut, M. I., Girardet, J. P., HANKARD, R., Rozé, J.-C., Simeoni, U., Turk, D., Briend, A.(2017).** Vitamin A in pediatrics: An update from the Nutrition Committee of the French Society of Pediatrics. *Archives de Pédiatrie*, 24 (3), 288-297. , DOI :10.1016/j.arcped.2016.11.021 <http://prodinra.inra.fr/record/422085>

27. Yao Y, Voillet V, Jegou M, SanCristobal M, Dou S, Romé V, Lippi Y, Billon Y, Père MC, Boudry G, Gress L, Iannucelli N, Mormède P, Quesnel H, Canario L, Liaubet L, Le Huërou-Luron I. Comparing the intestinal transcriptome of Meishan and Large White piglets during late fetal development reveals genes involved in glucose and lipid metabolism and immunity as valuable clues of intestinal maturity. *BMC Genomics*. 2017 Aug 22;18(1):647. doi: 10.1186/s12864-017-4001-2.