

CURRICULUM VITAE

EDUCATION

- November 1997 PhD Degree in Animal Nutrition. Veterinary School, Autonomous University of Barcelona (UAB, Spain).
- June 1990 Doctor in Veterinary Medicine (DVM). Autonomous University of Barcelona (UAB, Spain).

PROFESSIONAL AND RESEARCH EXPERIENCE

February 2004 – Present. Researcher (2004-2006) and Senior Researcher (2007 to present) at the Nutrition Department of Skretting Aquaculture Research Centre (Skretting ARC).

Main responsibilities are:

- Management of research and development projects on fish nutrition focused on European sea bass, Sea bream, Atlantic salmon Tilapia and Shrimp. Among others, my expertise areas are the nutritional evaluation of plant protein raw materials (quality, digestibility and feed inclusion level) and fish meal substitution, establishment of nutrient requirements for these aquaculture species (protein, amino acids, energy and mineral requirements).
- Management of research projects to develop nutritional solutions for new feed products. For example the development of diets for low oxygen conditions for European sea bass and Tilapia
- Coordination for Skretting ARC of the research projects for Mediterranean species with external public R&D centres (Bologna University, IRTA, IMIDA, Udine University).
- Participation as a researcher representative for Skretting ARC in public founded projects at EU level (FP6, FP7 and 2020 programmes)

June 2001 - January 2004. Technical Service Manager Europe Feed Additives Division for Lucta, S.A. (Barcelona, Spain).

Main responsibilities were: coordination and supervision of technical activities/trials on pigs and ruminants poultry with feed flavours in research institutes (Europe), initiate and evaluate field trials with existing products, publications of trial results, internal training to feed additives commercial team and technical support to sales force (Europe).

September 1998 – May 2001. Technical Service Manager Feed Additives Division (Spain and Portugal) for Degussa Hüls, S.A. (Barcelona, Spain).

Main responsibilities were: presentation to customers of feed additive products (amino acids and vitamins) their application and use, scientific and technical updates, deal with technical inquiries/problems of customers, elaboration of lectures and seminars for customers, initiating and controlling of trials, exchange of information with universities, research institutes, laboratories breeders, etc.

October 1996 - August 1998. Formulator at the Research and Formulation Department of

Ralston Purina Europe Inc. (Saint-Quentin-en-Yvelines, France).

Responsible for the formulation of feed for poultry, ruminants and swine for nine Spanish plants, quality control of raw materials, prices and availability, evaluation of the use of new raw materials and the resolution of field problems related to feed.

February 1996 - September 1996. Assistant Professor of the Animal Nutrition Unit of the Veterinary School of the Autonomous University of Barcelona (Spain).

Lectures on general energy metabolism, pig production and practical lessons on Weende and Van Soest feed analysis.

1993-96. Funded by the Animal Nutrition Unit of the Veterinary School of the Autonomous University of Barcelona. (Work Research Frame: Potenciación de Grupos de Calidad, CIRIT GRQ-93-1020).

Patents

Feed for fish comprising carvacrol and optionally salvia extract. European Patent Specification EP 2 946 673 B1. Date of publication, 20-06-2018. Bulletin 2018/25. Proprietor: Nutreco IP Assets B.V. 5831 JN Boxmeer (NL). Inventors: Wolfgang Koppe, Alex Obach and Ramon Fontanillas

Feed for Tuna fish (*Thunnus* spp.). Applicant: Skretting Aquaculture Research Center AS, Nutreco IP Assets B.V. Inventors: Jan Jonkers, Vukasin Draganovich, Grethe Rosenlund, Ramon Fontanillas, Dian Rocio Urrea de Muzdeka. (submitted)

PUBLICATIONS

Articles (peer-reviewed)

1. Partial replacement of fish oil with vegetal oils in commercial diets: The effect on the quality of gilthead seabream (*Sparus aurata*)
Animal Feed Science and Technology, Volume 265, 2020,
2. The effect of dietary vitamin D3, minerals (Ca, P) and plant-protein sources in the development of systemic granulomatosis in meagre (*Argyrosomus regius*, Asso, 1801). Tsertou M.I.a,b, S. Chatzifotisb, R. Fontanillasd, E. Cotouc, E. Fountoulakic, E. Antonopouloua, P. Kathariosb, Aquaculture 521 (2020) 735052
3. Effects of increased protein, histidine and taurine dietary levels on egg quality of greater amberjack (*Seriola dumerili*, Risso, 1810). S. Sarih, A. Djellata, J. Roo, C.M. Hernández-Cruz, R. Fontanillas, G. Rosenlund, M. Izquierdo, H. Fernández-Palacios. Aquaculture, Volume 499, 2019, Pages 72-79.
4. Dietary requirement for n-3 long-chain polyunsaturated fatty acids for fast growth of meagre (*Argyrosomus regius*, Asso 1801) fingerlings. M. Carvalho, H. Peres, R. Saleh, R. Fontanillas, G. Rosenlund, A. Oliva-Teles, M. Izquierdo, Aquaculture, Volume 488, 2018, Pages 105-113
5. Effects of copper levels in diets high in vegetable ingredients on gilthead sea bream (*Sparus aurata*) fingerlings. David Domínguez, Paula Sarmiento, Zakarya Sehnine, Pedro Castro, Lidia Robaina, Ramón Fontanillas, P. Antony

Jesu Prabhu, Marisol Izquierdo. *Aquaculture*, Volume 507, 2019, Pages 466-474,

6. Effects of dietary protein and lipid levels on growth, body composition and nutrient utilization of *Channa striata*. Katheline Hua, Wolfgang Koppe, Ramon Fontanillas. *Aquaculture*, Volume 501, 2019, Pages 368-373.
7. Optimum selenium levels in diets high in plant-based feedstuffs for gilthead sea bream (*Sparus aurata*) fingerlings. Domínguez, D, Sehnine, Z, Castro, P, et al. *Aquacult Nutr.* 2020; 26: 579– 589.
8. Effects of calcium carbonate inclusion in low fishmeal diets on growth, gastrointestinal pH, digestive enzyme activity and gut bacterial community of European sea bass (*Dicentrarchus labrax* L.) juveniles. Luca Parma, Manuel Yúfera, Carmen Navarro-Guillén, Francisco J. Moyano, Matteo Soverini, Federica D'Amico, Marco Candela, Ramon Fontanillas, Pier Paolo Gatta, Alessio Bonaldo *Aquaculture*, Volume 510, 2019, Pages 283-292,
9. Redox challenge in a cultured temperate marine species during low temperature and temperature recovery. Sánchez-Nuño, S., Sanahuja, I., Fernández-Alacid, L., Ordóñez-Grande, B., Fontanillas, R., Fernández-Borràs, J., Blasco, J., Carbonell, T., Ibarz, A. *Frontiers in Physiology*, section Aquatic Physiology. (2019)
10. Effects of increased protein, histidine and taurine dietary levels on egg quality of greater amberjack (*Seriola dumerili*, Risso, 1810). Sarih, S., Djellata, A., Roo, J., Rosenlund, G., Fontanillas, R., Hernandez-Cruz C., Izquierdo, M., Fernández-Palacios, H. *Aquaculture* (2019), 499, 15, 72-79.
11. Cold-induced growth arrest in gilthead sea bream *Sparus aurata*: Metabolic reorganisation and recovery. S. Sánchez-Nuño, O. Tufan Eroldogan, I. Sanahuja, I.n Özshahinoglu, J. Blasco, J. Fernández-Borràs, R. Fontanillas, P. Guerreiro, A. Ibarz. *Aquaculture Environment Interactions*. Volume 10, 2018, 511– 528.
12. Impact of dietary oil source on the shelf-life of gilthead seabream (*Sparus aurata*). Álvarez, A., Fontanillas, R., García-García, B., Hernández, M.D. *Journal of Aquatic Food Product Technology* (2018), DOI: 10.1080/10498850.2018.1484543
13. Feeding European sea bass with increasing dietary fibre levels: Impact on growth, blood biochemistry, gut histology, gut evacuation. Bonvini, E., Bonaldo, A., Parma, L., Mandrioli, L., Sirri, R., Grandi, M., Fontanillas, R., Viroli, C., Gatta, P. P. (2018), <https://doi.org/10.1016/j.aquaculture.2018.05.017>.
14. Integrated study on production performance and quality traits of European sea bass (*Dicentrarchus labrax*) fed high plant protein diets. Bonvini, E., Parma, L., Badiania, A, Fontanillas, R., Gatta, P.P., Sirri, F., Nannoni, E., Bonaldo, A. *Aquaculture* 484 (2018), 126–132
15. Dietary combination of vitamin E, C and K affect the incidence of systemic granulomatosis in on-growing meagre (*Argyrosomus regius*). Ruiz, M.A., Betancor, M.B., Robaina, L., Montero, D., Hernández-Cruz, C.M., Izquierdo,

M., Rosenlund, G, Fontanillas, R., Caballero M.J. *Aquaculture* (2018), <https://doi.org/10.1016/j.aquaculture.2018.08.078>.

16. Effects of feeding low fishmeal diets with increasing soybean meal levels on growth, gut histology and plasma biochemistry of sea bass. Bonvini, E, Bonaldo, A., Mandrioli, L., Sirri, R., Dondi, F., Bianco, C., Fontanillas, R., Mongile, F., Gatta P.P., Parma, L. *Animal* (2018) May;12(5):923-930. doi: 10.1017/S1751731117002683.
17. Quality characteristics of fillets of rainbow trout fed acid or re-esterified rapeseed oils as dietary fat sources. Trullàs, C., Fontanillas, R., Tres, A., Sala, R. *Aquaculture* (2017), 480, 22-31.
18. Fatty acid digestibility in gilthead sea bream fed diets containing native, re-esterified or acid vegetable oils. Trullàs, C., Fontanillas, R., Tres, A., Sala, R. *Aquaculture Nutrition*, (2017), 23; 537–547.
19. Retrospective study of pathology-based investigative techniques for the assessment of diet-induced changes in liver and intestine of flatfish. Sirri, R., Sarli, G., Bianco, C., Bonaldo, A., Gatta, PP., Fontanillas, R., De Vico, G., Carella, F., Brachelente, C., Parma, L., Mandrioli, L. *Italian Journal of Animal Science* (2017), DOI: 10.1080/1828051X.2017.1364610.
20. Next-generation sequencing characterization of the gut bacterial community of gilthead sea bream (*Sparus aurata*, L.) fed low fishmeal based diets with increasing soybean meal levels. Parma, L., Candela, M., Soverini, M., Turroni, S., Consolandi, C., Brigidi, P., Mandrioli, L., Sirri, R., Fontanillas, R., Gatta, PP., Bonaldo, A., *Animal Feed Science and Technology* (2016), 222: 204–216.
21. Effects of dietary protein-to-lipid ratio on digestive and absorptive processes in sea bass fingerlings. Garcia-Melian, I., Ordóñez Grande, B., Machahua, C., Buenestado, S., Fontanillas, R., Gallardo, M.A. *Aquaculture* (2016), 463, 163-173.
22. Modulation of digestive and absorptive processes with age and/or after a dietary change in gilthead sea bream. Garcia-Melian, I., Ordóñez Grande, B., Valentin, J.M., Fontanillas, R., Gallardo, M.A. *Aquaculture* (2016), 459, 54-64.
23. A primary phosphorus-deficient skeletal phenotype in juvenile Atlantic salmon *Salmo salar*: the uncoupling of bone formation and mineralization. Witten, P. E., Matthew, O, Fontanillas, R., Soenens, M., McGurk, C., Obach, A. *Journal of Fish Biology* (2016), 88(2), 690-708.
24. Acid and re-esterified rapeseed oils as alternative vegetable oils for rainbow trout diets: Effects on lipid digestibility and growth. Trullàs, C., Fontanillas, R., Tres, A., Barroeta, AC., Sala, R. *Aquaculture* (2016), 451, 186-194.
25. Vegetable re-esterified oils in diets for rainbow trout: effects on fatty acid digestibility
Trullàs, C., Fontanillas, R. Tres, A., Sala, R. *Aquaculture* (2015); 444:28-35.
26. Feeding turbot juveniles *Psetta maxima* L. with increasing dietary plant protein levels affects growth performance and fish welfare. Bonaldo, A., Di Marco, P., Petoichi, T., Marino, G., Parma, L., Fontanillas, R., Koppe, W., Mongile, F.,

Finoia, M.G., Gatta P.P. *Aquaculture Nutrition* (2014), 21(4), 1-13.

27. Adipose tissue and liver metabolic responses to different levels of dietary carbohydrates in gilthead sea bream (*Sparus aurata*). Bou, M., Todorevi, M., Fontanillas, R., Capilla, E., Gutiérrez, J., Navarro, I. *Comparative Biochemistry and Physiology - Part A Molecular & Integrative Physiology* (2014), 175, 72-81.
28. Effects of dietary lipid level on growth and feed utilization of gilthead seabream (*Sparus aurata* L.) at Mediterranean summer temperature. Mongile, F., Bonaldo, A., Fontanillas, R., Mariani, L., Badiani, A., Bonvini, E., Parma, L. *Italian Journal of Animal Science* (2014); 13(1), 30-35.
29. Dietary histidine requirement to reduce the risk and severity of cataracts is higher than the requirement for growth in Atlantic salmon smolts, independently of the dietary lipid source. Remø, S. C. Hevrøy, E. M., Olsvik, P.A., Fontanillas, R., Breck, O., Waagbø, R. *British Journal of Nutrition* (2014), 111 (10), 1759-1772.
30. Naturally occurring stable isotopes reflect changes in protein turnover and growth in gilthead Sea bream (*Sparus aurata*) juveniles under different dietary protein levels. Martin-Perez, M., Fernandez-Borras, J., Ibarz, A., Felip, O., Fontanillas, R., Gutierrez, J., Blasco, J. J. *Agric. Food Chem.* (2013), 61, 8924–8933.
31. High levels of dietary phytosterols affect lipid metabolism and increase liver and plasma TAG in Atlantic salmon (*Salmo salar* L.). Liland, n. S., Espe, M., Rosenlund, G., Waagbø, R., Hjelle, J.I., Lie, Ø., Fontanillas, R., Torstensen, B. E. *British Journal of Nutrition*, 2013, 110 (11), 1959-1967.
32. Different protein to energy ratio diets for gilthead sea bream (*Sparus aurata*): Effects on digestive and absorptive processes. García-Meilán, I., Valentín, J. M., Fontanillas, R., Gallardo, M.A. *Aquaculture* (2013), 412-413:1-7.
33. Utilization of denaturing gradient gel electrophoresis (DGGE) to evaluate the intestinal 1 microbiota of brown trout *Salmo trutta fario*. Manzano, M., Iacumin, L., Giusto, C., Cecchini, F., Patthey, C., Fontanillas, R., Comi, G. *Journal of Veterinary Science & Medical Diagnosis.* (2012); 1(2):1-6.
34. Characterisation and expression of calpain family members in relation to nutritional status, diet composition and flesh texture in Gilthead Sea bream (*Sparus aurata*). Salmerón, C., García de la serrana, D., Jiménez-Amilburu, V., Fontanillas, R., Navarro, I. *PLoS ONE* (2013), 8(9):e75349. doi:10.1371/journal.pone.0075349.
35. The impact of temperature on the metabolome and endocrine metabolic signals in Atlantic salmon (*Salmo salar*). Kullgren, A., Jutfelt, F., Fontanillas, R., Sundell, K., Samuelsson, L., Wiklander, K., Kling, P., Koppe, W., Larsson, D.G., Björnsson, B.T., Jönsson, E. *Comparative biochemistry and physiology Part A, Molecular & integrative physiology* (2013), 164 (1): 44-53.
36. Effects of variable protein and lipid proportion in gilthead sea bream (*Sparus aurata*) diets on fillet structure and quality. D. García, Fontanillas, R., Koppe, W., Fernández-Borràs, J., Blasco, J. Martín-Pérez, M., Navarro, I., Gutiérrez, J. *Aquaculture Nutrition* (2012), 19(3), 368-381.

37. Seasonal variations in the intestinal microbiota of farmed Atlantic salmon (*Salmo salar* L.). Hovda, MB., Fontanillas, R., McGurk, C., Obach, a., Rosnes, JT. *Aquaculture Research* (2011), 1-7. Short communication.
38. Histomorphologic hepatic features and growth performances of juvenile Senegalese sole (*solea senegalensis*) fed isoenergetic practical diets with variable protein/lipid levels. Bonaldo, A., Parma, L., Mandrioli, L., Sirri, R., Fontanillas, R., Badiani, A., Gatta, PP. *Journal of Applied Ichthyology* (2012), 28 (4), 628-632.
39. Increasing dietary plant proteins affects growth performance and ammonia excretion but not digestibility and gut histology in turbot (*Psetta maxima*) juveniles. Bonaldo, A., Parma, L., Mandrioli, L., Sirri, R., Fontanillas, R., Badiani, A., Gatta, PP. *Aquaculture*, (2011), 318:101-108.
40. Growth, feed utilization and liver histology of juvenile Dover sole (*Solea*, L.) fed isoenergetic diets with increasing dietary protein levels. Gatta, PP., Parma, L., Guarniero, I., Mandrioli, L., Sirri, R., Fontanillas, R., Bonaldo, A. *Aquaculture Research* (2011), 42-3, 313-321.
41. Dietary histidine supplementation prevents cataract development in adult Atlantic salmon, (*Salmo salar* L) in seawater. Waagbø; R., Tröbø, C., Koppe, W., Fontanillas, R., Breck, O. *British Journal of Nutrition* (2010), 104,1460-1470.
42. Growth, flesh adiposity and fatty acid composition of Atlantic salmon (*Salmo salar*) families with contrasting flesh adiposity: Effects of replacement of dietary fish oil with vegetable oils. Bell, J.G., Pratoomyot, J., Strachan, F., Henderson, R.J., Fontanillas, R., Hebard, A., Guy, D.R., Hunter, D., Tocher, D. R. *Aquaculture* (2010), 306 (1-4), 225-232.
43. Nested PCR for the detection of *Candidatus* arthromitus in fish. Manzano M, Giusto C, Iacumin L, Patthey C, Cecchini F, Fontanillas R, Comi G. (2010) *FEMS microbiology letters* (2010) Jul 1; 308 (1):35-9.
44. The influence of different dietary energy content and feeding regimes on growth and feed utilization of European sea bass (*Dicentrarchus labrax*, L.). Bonaldo, A. Badiani, A. Fagioli, P. Fontanillas, R. Koppe, W. Mariani, L. Gatta, P. P. *Italian Journal of Animal Science* (2009), 8, Supplement 2, 842-844.
45. Growth and feed utilization of gilthead sea bream (*Sparus aurata*, L.) fed to satiation and restrictively at increasing dietary energy levels. Bonaldo, A; Isani, G; Fontanillas, R; Parma, L; Grilli, E; Gatta, P. P. *Aquaculture International* (2010),18(5), 909-919.
46. Novel production of Atlantic salmon (*Salmo salar*) protein based on combined replacement of fish meal and fish oil with plant meal and vegetable oil blends. Torstensen, B.E., Espe, M., Sanden, M., Stubhaug, I., Waagbø, R., Hemre, G.-I., Fontanillas R., Nordgarden, U., Hevrøy, E.M., Olsvik, P., Berntssen, M.H.G. *Aquaculture* (2009), 285: 193-200.
47. Characterisation of the intestinal microbiota of farmed Atlantic salmon (*Salmon salar* L.). Hovda, MB., Lunestad, B. T., Fontanillas, R., Rosnes, J.T., *Molecular*

Aquaculture (2007), 272 (1-4) 581-588.

48. Influence of genotype/phenotype on effects of replacement of dietary fish oil with vegetable oils in Atlantic salmon (*Salmo salar*) families/strains selected on the basis of flesh adiposity: growth, flesh proximate and fatty acid compositions. Bell, J.G., Pratoomyot, J., Strachan, F., Henderson, R.J., Fontanillas, R., Hebard, A., Guy, D. R., Hunter, D., Tocher, D.R. Aquaculture (2010), 306, 225-232.
49. Mass spectrometric profiling – A diagnostic tool in fish?. Provan, F., Bjørnstad, A., Pampani, D.M., Lynga, E.; Fontanillas, R., Andersen, O.K., Koppe, W. and Bamber, S. Marine Environmental Research (2006), 62: S105-S108.
50. Performance and carcass quality of broiler chickens fed diets supplemented either with BiolysReg. 60 or L-Lysine-HCL. Fontanillas, R. Hohler, D. Mack, S. Neme, R. Rostagno, H. S. Cahiers Options Mediterraneennes (2001). 54: 177-180.
51. Backfat fatty acid evolution in swine fed diets high in either cis-monounsaturated, trans or n-3 Fats. Fontanillas, R., Barroeta, A., Baucells, M. D. and Guardiola F., Journal of Animal Science (1998), 76: 1045-1055.
52. Effect of feeding highly cis-monounsaturated, trans or n-3 fats on lipid composition of muscle and adipose tissue of pigs. Fontanillas, R., Barroeta, A., Baucells, M. D. and Codony R. Journal Agriculture and Food Chemistry (1997), 45: 3070-3075.

Abstracts

Effects of dietary fibre on growth, gut histology and gut evacuation of european sea bass (*dicentrarchus labrax*). E. Bonvini, L. Parma, L. Mandrioli, R. Sirri, C. Viroli, R. Fontanillas, P.P. Gatta and A. Bonaldo. Aquaculture Europe 2016. Edinburgh, Scotland.

Pyrosequencing characterization of the gut microbiota of gilthead sea bream (*sparus aurata*) fed increasing levels of soybean meal in low fish meal based diets. L. Parma, M. Candela, P. Brigidi, L. Mandrioli, R. Sirri, R. Fontanillas, PP. Gatta and A. Bonaldo. Aquaculture Europe 2015, Rotterdam, Netherlands.

Potential use of rapeseed re-esterified acid oil and rapeseed acid oil in diets for rainbow trout Trullàs, C.1, Fontanillas, R.2, Tres, A.3, Sala, R.1. Aquaculture Europe 2014.

Influencia de la inclusión de aceites vegetales en la dieta sobre el rendimiento en el engorde de la dorada (*Sparus aurata*) . A Hernández, B García-García, R Fontanillas, M D Hernández Congreso Nacional de Acuicultura, Barcelona - Spain; 11/2011.

Candidatus *Arthromitus* detection using molecular methods. Manzano, M., Cecchini, F., Fontanot, M., Iacumin, L., Comi, G., Fontanillas, R. Current Opinion in Biotechnology (2011), 22S, S15–S152, doi:10.1016/j.copbio.2011.05.028.

Influence of graded dietary protein levels on gilthead seabream performances (*Sparus aurata*, L.). P.P. Gatta; R. Fontanillas; W. Koppe; O. Mordenti; L. Parma; A. Bonaldo, in: Conference Proceedings della Società Italiana delle Scienze Veterinarie, s.l, s.n, 2009, 63, pp. 464 - 466 (atti di: LXIII CONVEGNO NAZIONALE S.I.S.VET, Udine, Italy, 21-24 settembre 2009)

Fontanillas, R.; Jutfelt, F.; Sundell, K.; Koppe, W. Dietary plant protein and sub-optimal rearing temperatures, alone and in combination, adversely affects intestinal functions in Atlantic salmon. XIII International Symposium on Fish Nutrition and Feeding, Florianopolis, June 1 to 5, 2008, Brazil.

Waagbø, R.; Trösse, C.; Breck, O.; Koppe, W.; Fontanillas, R. Dietary Histidine Supplementation Prevents Cataract Development In Atlantic Salmon Growers In Their 2nd Year In Sea. XIII International Symposium on Fish Nutrition and Feeding, Florianopolis, June 1 to 5, 2008, Brazil.

Bonaldo, A.; Fontanillas, R.; Koppe, W.; Fagioli, P.; Mariani, L.; Parma, L.; Gatta, P.P. Effect of dietary energy level and ration on growth and feed utilization of Gilthead sea bream (*Sparus Aurata*): preliminary findings. XIII International Symposium On Fish Nutrition And Feeding, Florianopolis, June 1 To 5, 2008, Brazil.

Provan, F., Fontanillas R., Koppe W., Bamber, S., Pampanin D., Bjørnstad A. and Andersen O.K., 2005. Proteomics as state of the art technology to assess fish health. Bioinformatics Forum for Young Scientifics, Randsvangen (Norway), April 15-17.

Urán, P.A., Van Houcke, J., Rombout, J.H., Koppe W., Fontanillas, R., Schrama, J.W. and Verreth, J.A., 2005. Comparison of methodologies for measuring the degree of soybean-induced enteritis in Atlantic salmon *Salmo salar*. World Aquaculture Meeting, Bali, (n301).

Roura, E., Fontanillas, R. and Bikker, P., 2004. Botanical additives did not affect feed intake in weanling pigs when masked by a flavour but growth or faecal consistency were not affected either. Journal of Animal Science, vol. 81, suppl. 1, 203.

Bikker, P., Fontanillas, R. and Roura, E., 2003. Dietary supplementation with botanicals compounds depresses piglet feed intake while faecal E. coli content remain unchanged. Journal of Animal Science, vol. 81, suppl. 1, 203.

Pérez-Portabella, I., Ibañez, C., Puyuelo, C., Fontanillas, R., Solà, J., Blanco, I. and Roura, E., 2003. Fat content of corn, animal plasma and fish and soybean meal is the main single parameter affecting retention of aromatic compounds typical of a strawberry flavour. Journal of Animal Science, vol. 81, suppl. 1, 199.

Extension publications

Provan, F., Andersen, O.K., Bamber, S., Fontanillas, R., Koppe, W. 2006. Protein profiling – Evaluation condition of farmed Atlantic salmon. Global Aquaculture Advocate, volume 9, 5:80-85.

Fontanillas, R. and Roura, E., 2003. Does flavourful feed give better performance? (1) Feed Tech, 7 (1) 13-15.

Fontanillas, R. and Roura, E., 2003. Does flavourful feed give better performance? (2) Feed Tech, 7 (2) 14-16.

Fontanillas, R. y Roura, E., 2003. Palatabilidad y consumo alimentario en el cerdo: de la percepción sensorial a las mejoras productivas. Anaporc, nº 231: 24.

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Roura, E. and Fontanillas, R., 2002. Fruity flavours improve feed palatability and piglet performance. Feed Tech, 6 (8):18-19.

Fontanillas R., Mack, S. y R. Rademacher, 2001. Estrategias nutricionales para reducir la excreción nitrogenada en cerdos. Anaporc, 209: 36.

Fontanillas, R., Barroeta, A. C., Xalabarder, A. y Codony, R., 1995. Efecto de la utilización de la grasa de la dieta sobre los rendimientos productivos y características de la canal y la carne de diferentes razas de cerdos. ANAPORC, 147:5-17.

Seminars

Fontanillas, R. "Ideal protein for broiler diets." XXXVI Scientific Symposium of the Spanish Section of the World Poultry Society Association (WPSA). Valladolid (Spain), 20-22nd October 1999.

Fontanillas, R., Blanch, A., Baucells, M. D. and Barroeta, A., 1994. "The Effect of the inclusion of different fat sources in poultry diets on the muscle, abdominal fat and skin fatty acid profile." XXXI Scientific Symposium of the Spanish Section of the World Poultry Society Association (WPSA). Pamplona (Spain), 28-30th September 1994.

Fontanillas, R., Barroeta, A. C., Xalabarder, A. and Codony, R. 1994. "The Effect of the utilisation of diet fat level on the productive and carcass characteristics of different pig breeds". XV Symposium ANAPORC. Segovia (Spain) 16-17th November 1994.

Patents

Feed for fish comprising carvacrol and optionally salvia extract. European Patent Specification EP 2 946 673 B1. Date of publication, 20-06-2018. Bulletin 2018/25. Proprietor: Nutreco IP Assets B.V. 5831 JN Boxmeer (NL). Inventors: Wolfgang Koppe, Alex Obach and Ramon Fontanillas

Feed for Tuna fish (*Thunnus* spp.). Applicant: Skretting Aquaculture Research Center AS, Nutreco IP Assets B.V. Inventors: Jan Jonkers, Vukasin Draganovich, Grethe Rosenlund, Ramon Fontanillas, Dian Rocio Urrea de Muzdeka. (submitted)

Languages

Catalan (mother tongue) and Spanish (mother tongue), English (fluent), French and Italian (basic)