

**PERSONAL INFORMATION Nicolae Corcionivoschi BSc MSc PhD DrHC MIFST FHEA MRSB****Positions and work experience**

2023 – now	Head of Bacteriology Branch, Agri-Food and Biosciences Institute, Belfast, NI
2014 – 2023	Head of Food Microbiology Unit, Agri-Food and Biosciences Institute, Belfast, NI
2012 – 2014	Senior Research Fellow – NCRC, Dublin
2005 – 2012	Senior Postdoctoral Scientist – UCD, Dublin
2004 – 2005	Scientist – National Research Council of Canada, Ottawa

**Education and training**

2022	Postgraduate Certificate in Higher Education Teaching, Queens University Belfast
2022	Postgraduate Certificate in Pedagogy, USAMV Cluj Napoca
2018	Challenge of Science Leadership Certificate – Barefoot Thinking Company
2014	Habilitation Thesis – PhD Supervisor in Biological Sciences
2005	PhD – Molecular Microbiology – University of Edinburgh, Scotland, United Kingdom
1999	MSc – Animal Nutrition – USAMVB King Michael I, Timisoara, Romania
1998	BSc – Biotechnology – USAMVB King Michael I, Timisoara, Romania

**Professional memberships:**

Fellow of the United Kingdom Higher Education Academy  
 Honorary Member Romanian Academy of Scientists  
 Institute of Food Science and Technology – Elected Member  
 Royal Society of Biology – Elected Member  
 British Society of Animal Science  
 Society for Applied Microbiology  
 Society of Microbiology (UK)  
 Member of the Poultry Research Network <http://phm.net/members/>

**Academic appointments:**

Doctor Honoris Causa – USAMVB King Michael I of Romania, Timisoara (2018)  
 Ulster University Fellow  
 PhD Supervisor – Habilitation in Biotechnology  
 Honorary Professor - USAMVB King Michael I of Romania, Timisoara  
 Associate Member – Research Institute of University of Bucharest

**Editorial appointments:**

Associate Editor – BMC Microbiome  
 Associate Editor – BMC Animal Microbiome  
 Associate Editor – Irish Veterinary Journal  
 Associate Editor – Frontiers – Veterinary Infection  
 Associate Editor – Foodborne Pathogens and Disease

**Awards:**

The Irish Time Innovation Award - 2020  
 Belfast Ambassador Recognition Award (2018) for the CHRO 2019 International Conference  
 Second Prize (2012) – Irish Society of Gastroenterology Winter Meeting  
 Young Investigator Travel Award (2007) – European Society of Clinical Microbiology and Infectious Disease.  
 Young Investigator Travel Award (2005) – Society of General Microbiology  
 Darwin Trust of Edinburgh (2001-2003) – Doctoral fellowship

## Publications

1. Corcionivoschi N, Balta I, McCleery D, Pet I, Iancu T, Julean C, Marcu A, Stef L, Morariu S. Blends of Organic Acids Are Weaponizing the Host iNOS and Nitric Oxide to Reduce Infection of *Piscirickettsia salmonis* In Vitro. *Antioxidants*. 2024; 13(5):542. <https://doi.org/10.3390/antiox13050542>.
2. Constantin M, Chifiriuc MC, Mihaescu G, Corcionivoschi N, Burlibasa L, Bleotu C, Tudorache S, Mitache MM, Filip R, Munteanu S-G and Gradisteanu Pircalabioru G (2024) Microbiome and cancer: from mechanistic implications in disease progression and treatment to development of novel antitumoral strategies. *Front. Immunol.* 15:1373504. doi: 10.3389/fimmu.2024.1373504.
3. Imbrea A-M, Balta I, Dumitrescu G, McCleery D, Pet I, Iancu T, Stef L, Corcionivoschi N, Liliana P-C. Exploring the Contribution of *Campylobacter jejuni* to Post-Infectious Irritable Bowel Syndrome: A Literature Review. *Applied Sciences*. 2024; 14(8):3373. <https://doi.org/10.3390/app14083373>.
4. Balta, I., D. McCleery, S. R. F. David, E. Pet, D. Stef, T. Iancu, I. Pet, L. Stef and N. Corcionivoschi (2024). "The mechanistic role of natural antimicrobials in preventing *Staphylococcus aureus* invasion of MAC-T cells using an in vitro mastitis model." *Irish Veterinary Journal* 77(1): 3.
5. Vigh, A.; Criste, A.D.; Corcionivoschi, N.; Gerard, C. Rumen Solubility of Copper, Manganese and Zinc and the Potential Link between the Source and Rumen Function: A Systematic Review. *Agriculture* **2023**, *13*, 2198. <https://doi.org/10.3390/agriculture13122198>
6. Corcionivoschi, N.; Balta, I.; Butucel, E.; McCleery, D.; Pet, I.; Iamandei, M.; Stef, L.; Morariu, S. Natural Antimicrobial Mixtures Disrupt Attachment and Survival of *E. coli* and *C. jejuni* to Non-Organic and Organic Surfaces. *Foods* **2023**, *12*, 3863. <https://doi.org/10.3390/foods12203863>
7. Grigorescu, A., Balta, I., Julean, C., Simiz, E., Voia, S., Alexa, E., Popescu, I., Marcu, A., Pet, I., Callaway, T., Corcionivoschi, N., Stef, L. (2023). Dietary protected fat and conjugated linoleic acid improves ewe milk fatty acid composition. *South African Journal of Animal Science*, 53(2):197-210
8. Bunduruş, I.A.; Balta, I.; Butucel, E.; Callaway, T.; Popescu, C.A.; Iancu, T.; Pet, I.; Stef, L.; Corcionivoschi, N. Natural Antimicrobials Block the Host NF-κB Pathway and Reduce *Enterocytozoon hepatopenaei* Infection Both In Vitro and In Vivo. *Pharmaceutics* **2023**, *15*, 1994. <https://doi.org/10.3390/pharmaceutics15071994>
9. Butucel, E.; Balta, I.; Bundurus, I.A.; Popescu, C.A.; Iancu, T.; Venig, A.; Pet, I.; Stef, D.; McCleery, D.; Stef, L.; Corcionivoschi, N. Natural Antimicrobials Promote the Anti-Oxidative Inhibition of COX-2 Mediated Inflammatory Response in Primary Oral Cells Infected with *Staphylococcus aureus*, *Streptococcus pyogenes* and *Enterococcus faecalis*. *Antioxidants* **2023**, *12*, 1017. <https://doi.org/10.3390/antiox12051017>
10. Koyun, O.Y.; Balta, I.; Corcionivoschi, N.; Callaway, T.R. Disease Occurrence in- and the Transferal of Zoonotic Agents by North American Feedlot Cattle. *Foods* **2023**, *12*, 904. <https://doi.org/10.3390/foods12040904>
11. Bunduruş, I.A.; Balta, I.; Ştef, L.; Ahmadi, M.; Peţ, I.; McCleery, D.; Corcionivoschi, N. Overview of Virulence and Antibiotic Resistance in *Campylobacter* spp. Livestock Isolates. *Antibiotics* **2023**, *12*, 402. <https://doi.org/10.3390/antibiotics12020402>.
12. Geunhye Hong, Cadi Davies, Zahra Omole, Janie Liaw, Anna D. Grabowska, Barbara Canonico, Nicolae Corcionivoschi, Brendan W. Wren, Nick Dorrell, Abdi Elmi, Ozan Gundogdu, "Campylobacter jejuni Modulates Reactive Oxygen Species Production and NADPH Oxidase 1 Expression in Human Intestinal Epithelial Cells", *Cellular Microbiology*, vol. 2023, Article ID 3286330, 14 pages, 2023. <https://doi.org/10.1155/2023/3286330>.
13. Butucel, E.; Balta, I.; McCleery, D.; Marcu, A.; Stef, D.; Pet, I.; Callaway, T.; Stef, L.; Corcionivoschi, N. The Prebiotic Effect of an Organic Acid Mixture on *Faecalibacterium prausnitzii* Metabolism and Its Anti-Pathogenic Role against *Vibrio parahaemolyticus* in Shrimp. *Biology* **2023**, *12*, 57. <https://doi.org/10.3390/biology12010057>.
14. Butucel, E.; Balta, I.; McCleery, D.; Popescu, C.A.; Iancu, T.; Pet, I.; Marcu, A.; Horablaga, N.-M.; Stef, L.; Corcionivoschi, N. The Effect Citrox BCL on *Legionella pneumophila* Mechanisms of Biofilm Formation, Oxidative Stress and Virulence. *Antioxidants* **2022**, *11*, 2186. <https://doi.org/10.3390/antiox11112186>
15. Luca Robinson, Janie Liaw, Zahra Omole, Nicolae Corcionivoschi, Abderrahman Hachani, Ozan Gundogdu (2022). In silico investigation of the genus *Campylobacter* type VI secretion system reveals genetic diversity in organization and putative effectors. *Microbial Genomics* Volume 8, Issue 10. <https://doi.org/10.1099/mgen.0.000898>

16. Butucel, E.; Balta, I.; McCleery, D.; Morariu, F.; Pet, I.; Popescu, C.A.; Stef, L.; Corcionivoschi, N. Farm Biosecurity Measures and Interventions with an Impact on Bacterial Biofilms. *Agriculture* 2022, 12, 1251. <https://doi.org/10.3390/agriculture12081251>.
17. Chifiriuc MC, Filip R, Constantin M, Pircalabioru GG, Bleotu C, Burlibasa L, Ionica E, Corcionivoschi N and Mihaescu G (2022) Common themes in antimicrobial and anticancer drug resistance. *Front. Microbiol.* 13:960693. doi: 10.3389/fmicb.2022.960693
18. Igori Balta, Eugenia Butucel, Lavinia Stef, Ioan Pet, Gratiela Gradisteanu-Pircalabioru, Carmen Chifiriuc, Ozan Gundogdu, David McCleery, and Nicolae Corcionivoschi. Anti-Campylobacter Probiotics: Latest Mechanistic Insights. *Foodborne Pathogens and Disease*. Ahead of print. <http://doi.org/10.1089/fpd.2022.0039>
19. Gradisteanu Pircalabioru G, Liaw J, Gundogdu O, Corcionivoschi N, Ilie I, Oprea L, Musat M, Chifiriuc M-C. Effects of the Lipid Profile, Type 2 Diabetes and Medication on the Metabolic Syndrome — Associated Gut Microbiome. *International Journal of Molecular Sciences*. 2022; 23(14):7509. <https://doi.org/10.3390/ijms23147509>
20. Balta Igori, Lavinia Stef, Eugenia Butucel, Gratiela Gradisteanu Pircalabioru, Adelina Venig, Patrick Ward, Myriam Deshaies, Ioan Pet, Ducu Stef, Osman Y. Koyun, Todd R. Callaway, Ozan Gundogdu, and Nicolae Corcionivoschi. 2022. "The Antioxidant Effect of Natural Antimicrobials in Shrimp Primary Intestinal Cells Infected with *Nematopsis messor*" *Antioxidants* 11, no. 5: 974. <https://doi.org/10.3390/antiox11050974>. Corresponding author.
21. McMurray, R.L.; Ball, M.E.E.; Linton, M.; Pinkerton, L.; Kelly, C.; Lester, J.; Donaldson, C.; Balta, I.; Tunney, M.M.; Corcionivoschi, N.; Situ, C. The Effects of *Agrimonia pilosa* Ledeb, *Anemone chinensis* Bunge, and *Smilax glabra* Roxb on Broiler Performance, Nutrient Digestibility, and Gastrointestinal Tract Microorganisms. *Animals* 2022, 12, 1110. <https://doi.org/10.3390/ani12091110>
22. Price CL, Warrilow AGS, Rolley NJ, Parker JE, Thoss V, Kelly DE, Corcionivoschi N, Kelly SL. (2022) Cytochrome P450 168A1 from *Pseudomonas aeruginosa* is involved in the hydroxylation of biologically relevant fatty acids. *PLoS ONE* 17(3): e0265227. <https://doi.org/10.1371/journal.pone.0265227>
23. Butucel, Eugenia, Igori Balta, Mirela Ahmadi, Gabi Dumitrescu, Florica Morariu, Ioan Pet, Lavinia Stef, and Nicolae Corcionivoschi. 2022. "Biocides as Biomedicines against Foodborne Pathogenic Bacteria" *Biomedicines* 10, no. 2: 379. <https://doi.org/10.3390/biomedicines10020379>. Corresponding author.
24. Black Z, Balta I, Black L, Naughton PJ, Dooley JSG and Corcionivoschi N (2021) The Fate of Foodborne Pathogens in Manure Treated Soil. *Front. Microbiol.* 12:781357. doi: 10.3389/fmicb.2021.781357. Corresponding author.
25. Balta, Igori, Lavinia Stef, Ioan Pet, Tiberiu Iancu, Ducu Stef, and Nicolae Corcionivoschi. 2021. "Essential Fatty Acids as Biomedicines in Cardiac Health" *Biomedicines* 9, no. 10: 1466. Corresponding author.
26. Balta, I.; Butucel, E.; Mohylyuk, V.; Criste, A.; Dezmirean, D.S.; Stef, L.; Pet, I.; Corcionivoschi, N. Novel Insights into the Role of Probiotics in Respiratory Infections, Allergies, Cancer, and Neurological Abnormalities. *Diseases* 2021, 9, 60. Corresponding author.
27. Balta I, Marcu A, Linton M, Kelly C, Stef L, Pet I, Ward P, Pircalabioru GG, Chifiriuc C, Gundogdu O, Callaway T, Corcionivoschi N. The in vitro and in vivo anti-virulent effect of organic acid mixtures against *Eimeria tenella* and *Eimeria bovis*. *Scientific Rep.* 2021 Aug 10;11(1):16202. Corresponding author.
28. Robinson L, Liaw J, Omole Z, Xia D, van Vliet AHM, Corcionivoschi N, Hachani A, Gundogdu O. Bioinformatic Analysis of the *Campylobacter jejuni* Type VI Secretion System and Effector Prediction. *Front Microbiol.* 2021 Jun 29;12:694824.
29. Corcionivoschi, N.; Gundogdu, O. Editorial: Foodborne Pathogen *Campylobacter*. *Microorganisms* 2021, 9, 1241. <https://doi.org/10.3390/microorganisms9061241>
30. Balta, I., Marcu, A., Linton, M., Kelly, C., Gundogdu, O., Stef, L., Pet, I., Ward, P., Deshaies, M., Callaway, T., Sopharat, P., Gradisteanu-Pircalabioru, G., & Corcionivoschi, N. (2021). Mixtures of natural antimicrobials can reduce *Campylobacter jejuni*, *Salmonella enterica* and *Clostridium perfringens* infections and cellular inflammatory response in MDCK cells. *Gut Pathogens*, 13(1), 37. Corresponding author.
31. Jeni RE, Dittoe DK, Olson EG, Lourenco J, Corcionivoschi N, Ricke SC, et al. Probiotics and potential applications for alternative poultry production systems. *Poultry Science*. 2021;100(7):101156.
32. Gradisteanu Pircalabioru, G.; Corcionivoschi, N.; Gundogdu, O.; Chifiriuc, M.-C.; Marutescu, L.G.; Ispas, B.; Savu, O. Dysbiosis in the Development of Type I Diabetes and Associated Complications: From Mechanisms to Targeted Gut Microbes Manipulation Therapies. *Int. J. Mol. Sci.* 2021, 22, 2763. <https://doi.org/10.3390/ijms22052763>

33. Corcionivoschi, N., Thompson, S. A., & Gundogdu, O. (2021). Editorial: Developments in Campylobacter, Helicobacter & Related Organisms Research - CHRO 2019. *Frontiers in microbiology*, 11, 622582. <https://doi.org/10.3389/fmicb.2020.622582>
34. Igori Balta, Mark Linton, Laurette Pinkerton, Carmel Kelly, Patrick Ward, Lavinia Stef, Ioan Pet, Adina Horablaga, Ozan Gundogdu, Nicolae Corcionivoschi. The effect of natural antimicrobials on the Campylobacter coli T6SS+/- during in vitro infection assays and on their ability to adhere to chicken skin and carcasses. *International Journal of Food Microbiology*, 2021, 108998, ISSN 0168-1605. [Corresponding author.](#)
35. Criste, A., Copolovici, L., Copolovici, D., Kovacs, M., Madden, R. H., Corcionivoschi, N., Gundogdu, O., Berchez, M., & Urcan, A. C. (2020). Determination of changes in the microbial and chemical composition of Țaga cheese during maturation. *PLoS One*, 15(12), e0242824.
36. Igori Balta, Mark Linton, Laurette Pinkerton, Carmel Kelly, Lavinia Stef, Ioan Pet, Ducu Stef, Adriana Criste, Ozan Gundogdu, Nicolae Corcionivoschi. The effect of natural antimicrobials against Campylobacter spp. and its similarities to Salmonella spp, Listeria spp., Escherichia coli, Vibrio spp., Clostridium spp. and Staphylococcus spp, *Food Control*, 2020, 107745, ISSN 0956-7135. [Corresponding author.](#)
37. Balta, L. Stef, I. Pet, P. Ward, T. Callaway, S.C. Ricke, O. Gundogdu, and N. Corcionivoschi, Antiviral activity of a novel mixture of natural antimicrobials, in vitro, and in a chicken infection model in vivo. *Scientific Reports* 10 (2020) 16631. <https://doi.org/10.1038/s41598-020-73916-1>. [Corresponding author.](#)
38. A. McKenna, U.Z. Ijaz, C. Kelly, M. Linton, W.T. Sloan, B.D. Green, U. Lavery, N. Dorrell, B.W. Wren, A. Richmond, N. Corcionivoschi, and O. Gundogdu, Impact of industrial production system parameters on chicken microbiomes: mechanisms to improve performance and reduce Campylobacter. *Microbiome* 8 (2020) 128. [Corresponding author.](#)
39. McMurray, R.; Ball, M.; Tunney, M.; Corcionivoschi, N.; Situ, C. Antibacterial Activity of Four Plant Extracts Extracted from Traditional Chinese Medicinal Plants against *Listeria monocytogenes*, *Escherichia coli*, and *Salmonella enterica* subsp. *Enterica* serovar Enteritidis. *Microorganisms* **2020**, *8*, 962.
40. Lauren Ford, Alexandros Ch. Stratakos, Katerina Theodoridou, Jaimie T. A. Dick, Gary N. Sheldrake, Mark Linton, Nicolae Corcionivoschi, Pamela J. Walsh. *ACS Omega* **2020**, April 10, 2020 <https://doi.org/10.1021/acsomega.9b03687>.
41. Campbell, M.; Ortuño, J.; Stratakos, A.C.; Linton, M.; Corcionivoschi, N.; Elliot, T.; Koidis, A.; Theodoridou, K. Impact of Thermal and High-Pressure Treatments on the Microbiological Quality and *In Vitro* Digestibility of Black Soldier Fly (*Hermetia illucens*) Larvae. *Animals* **2020**, *10*, 682.
42. Criste, A.; Urcan, A.; Bunea, A.; Pripon Furtuna, F.; Olah, N.; Madden, R.; Corcionivoschi, N. Phytochemical Composition and Biological Activity of Berries and Leaves from Four Romanian Sea Buckthorn (*Hippophae Rhamnoides* L.) Varieties. *Molecules* **2020**, *25*(5), 1170; <https://doi.org/10.3390/molecules25051170>.
43. Alexandros Ch Stratakos, Umer Zeeshan Ijaz, Patrick Ward, Mark Linton, Carmel Kelly, Laurette Pinkerton, Pam Scates, Jane McBride, Ioan Pet, Adriana Criste, Ducu Stef, Jillian M. Couto, William T. Sloan, Nick Dorrell, Brendan W. Wren, Lavinia Stef, Ozan Gundogdu, Nicolae Corcionivoschi, *In vitro* and *in vivo* characterisation of *Listeria monocytogenes* outbreak isolates, *Food Control*, Volume 107, **2020**, 106784, ISSN 0956-7135. [Corresponding author.](#)
44. Pinkerton, L.; Linton, M.; Kelly, C.; Ward, P.; Gradisteanu Pircalabioru, G.; Pet, I.; Stef, L.; Sima, F.; Adamov, T.; Gundogdu, O.; Corcionivoschi, N. Attenuation of *Vibrio parahaemolyticus* Virulence Factors by a Mixture of Natural Antimicrobials. *Microorganisms* **2019**, *7*, 679. [Corresponding author.](#)
45. Liaw Janie, Hong Geunhye, Davies Cadi, Elmi Abdi, Sima Filip, Stratakos Alexandros, Stef Lavinia, Pet Ioan, Hachani Abderrahman, Corcionivoschi Nicolae, Wren Brendan W., Gundogdu Ozan, Dorrell Nick. The Campylobacter jejuni Type VI Secretion System Enhances the Oxidative Stress Response and Host Colonization. *Frontiers in Microbiology*. Dec. **2019**, Vol 10, p2864.
46. Stratakos, A. C., Inguglia, E. S., Linton, M., Tollerton, J., Murphy, L., Corcionivoschi, N., Tiwari, B. K. (2019). Effect of high pressure processing on the safety, shelf life and quality of raw milk. *Innovative Food Science and Emerging Technologies*, *52*, 325-333. <https://doi.org/10.1016/j.ifset.2019.01.009>.
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48. Ungureanu, V., Corcionivoschi, N., Gndogdu, O., Pacala, N., Stef, L., Madden, B. (2019). The emergence of B lactamase producing Escherichia coli and the problems in assessing their potential contribution to foodborne illness - a review. *Agrolife Scientific Journal*. [Corresponding author.](#)

49. Sima, F., Stratakos, A., Stef, L., Gundogdu, O., Pet, I., Pacala, N., Pet, E., Lazar, V., Ward, P., Corcionivoschi, N. (2019). Agrolife Scientific Journal; The effect of an antimicrobial mixture on *Cryptosporidium*. Corresponding author.
50. Ungureanu VA, Stratakos AC, Gundogdu O, Stef L, Pet I, Pet E, Pacala N, Corcionivoschi N. Virulence of a T6SS *Campylobacter jejuni* chicken isolate from North Romania. *BMC Res Notes*. 2019 Mar 28;12(1):180. doi: 10.1186/s13104-019-4201-8. PubMed PMID: 30922352; PubMed Central PMCID: PMC6437841. Corresponding author.
51. Gosemann JH, Friedmacher F, Hofmann A, Zimmer J, Kuebler JF, Rittinghausen S, Suttkus A, Lacher M, Alvarez L, Corcionivoschi N, Puri P. Prenatal treatment with rosiglitazone attenuates vascular remodeling and pulmonary monocyte influx in experimental congenital diaphragmatic hernia. *PLoS One*. 2018 Nov 12;13(11):e0206975. doi: 10.1371/journal.pone.0206975.
52. Ijaz UZ, Sivaloganathan L, McKenna A, Richmond A, Kelly C, Linton M, Stratakos AC, Lavery U, Elmi A, Wren BW, Dorrell N, Corcionivoschi N, Gundogdu O. Comprehensive Longitudinal Microbiome Analysis of the Chicken Cecum Reveals a Shift From Competitive to Environmental Drivers and a Window of Opportunity for *Campylobacter*. *Front Microbiol*. 2018 Oct 15;9:2452. doi: 10.3389/fmicb.2018.02452. Corresponding author.
53. Stratakos AC, Linton M, Ward P, Campbell M, Kelly C, Pinkerton L, Stef L, Pet I, Stef D, Iancu T, Theodoridou K, Gundogdu O, Corcionivoschi N. The Antimicrobial Effect of a Commercial Mixture of Natural Antimicrobials Against *Escherichia coli* O157:H7. *Foodborne Pathog Dis*. 2018 Oct 2. doi: 10.1089/fpd.2018.2465. [Epub ahead of print] PubMed PMID: 30277811. Corresponding author.
54. Sima F, Stratakos AC, Ward P, Linton M, Kelly C, Pinkerton L, Stef L, Gundogdu O, Lazar V, Corcionivoschi N. A Novel Natural Antimicrobial Can Reduce the in vitro and in vivo Pathogenicity of T6SS Positive *Campylobacter jejuni* and *Campylobacter coli* Chicken Isolates. *Front Microbiol*. 2018 Sep 7;9:2139. doi: 10.3389/fmicb.2018.02139. Corresponding author.
55. Sibanda N, McKenna A, Richmond A, Ricke SC, Callaway T, Stratakos AC, Gundogdu O, Corcionivoschi N. A Review of the Effect of Management Practices on *Campylobacter* Prevalence in Poultry Farms. *Front Microbiol*. 2018 Aug 24;9:2002. doi: 10.3389/fmicb.2018.02002. Review. Corresponding author.
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59. Alexandros Ch Stratakos, Filip Sima, Patrick Ward, Mark Linton, Carmel Kelly, Laurette Pinkerton, Lavinia Stef, Ioan Pet, Nicolae Corcionivoschi. The in vitro effect of carvacrol, a food additive, on the pathogenicity of O157 and non-O157 Shiga-toxin producing *Escherichia coli*. *Food Control*, Volume 84, 2018, Pages 290-296, ISSN 0956-7135, <https://doi.org/10.1016/j.foodcont.2017.08.014>. Corresponding author.
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61. C. Kelly, O. Gundogdu, G. Pircalabioru, A. Cean, P. Scates, M. Linton, L. Pinkerton, E. Magowan, L. Stef, E. Simiz, I. Pet, S. Stewart, R. Stabler, B. Wren, N. Dorrell, and N. Corcionivoschi, The *In Vitro* and *In Vivo* Effect of Carvacrol in Preventing *Campylobacter* Infection, Colonization and in Improving Productivity of Chicken Broilers. *Foodborne Pathog Dis* 14 (2017) 341-349. Corresponding author.
62. David Colyle, Annemarie O'Donnell, Nicolae Corcionivoschi, John Gillick, Prem Puri. Rho-kinase expression in Hirschsprung's disease. 2015. *Paediatric Surgery International*. Aug. 2015.
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## Participation at scientific meetings as speaker/organiser

- 2019 – Organiser of CHRO 2019 Belfast, Northern Ireland (Chair of LOC and member of the scientific committee)
- 2019 – 70th annual EAAP meeting. Ghent (Belgium). Ortuño, J., Campbell, M., Stratakos, A., Linton, M., Corcionivoschi, N., Theodoridou, K. (2019) Effect of heating and high-pressure processing on the potential of Black Soldier Fly larvae as feed.
- 2019 – Nicolae Corcionivoschi – FSAI 2019 – Food safety, Dublin,
- 2019 - McMurray, R., Ball, M.E.E., Tunney, M.M., Corcionivoschi, N. and Situ, C. (2019). *World Poultry Science Association Programme and Summaries*, 34.
- 2018 – University of Agricultural Sciences and Veterinary Medicine Annual Meeting (Invited Plenary Speaker)
- 2017 - N. Corcionivoschi, – The in vitro and in vivo effect of Carvacrol in preventing *Campylobacter* infection, colonisation and improve chicken broilers productivity. 19th International Workshop on *Campylobacter*, *Helicobacter* and Related Organisms. Nantes, France.
- 2016 – Royal Society of Chemistry – Invited speaker. Science at Stormont, meeting organised by the RSC and the Northern Ireland Assembly on Antimicrobial Resistance. How to reduce the use of antibiotics and improve gut health in poultry.
- 2016 - Carmel Kelly, Pam Scates, Mark Linton, Laurette Pinkerton, Lavinia Stef, Eliza Simiz, Robert H. Madden and Nicolae Corcionivoschi – INRA-ROWETT Gut Microbiology – 20 years and continuing. 20-23/06/2016 – oral presentation.
- 2015 - Nicolae Corcionivoschi – World Poultry Science Association, UK Branch, Annual Meeting, Chester, England, Oral presentation. Virulence characteristics of hcp+ *Campylobacter jejuni* and *Campylobacter coli* isolates from retail chicken.
- 2015 – Nicolae Corcionivoschi – British Society of Animal Science, Annual Meeting, Chester, England, Oral presentation. The role of human isolated probiotics in preventing *C. jejuni* colonisation of poultry.
- 2013 – L. Alvarez, M. Strengert, N. Corcionivoschi, B. Bourke, U.G. Knaus. ROS signaling in mucosal immunity. SFRR – Europe 2013 Meeting “The new era of –omics in Free Radicals in Biology and Medicine”. Athens, Greece.
- 2013 - Hunziker M, O'Donnell AM, Gosemann J, Hofmann A, Alvarez L, Corcionivoschi N and Puri P: Increased Desmin Tyrosine Phosphorylation in Congenital Pelviureteric Junction Obstruction. 14th European Congress of Paediatric Surgery, Leipzig, Germany, June 2013.[Oral Presentation].
- 2012 - Hunziker M, Gosemann J, O'Donnell AM, Alvarez L, Corcionivoschi N and Puri P: Altered Anocatmin-1 (ANO1) Tyrosine Phosphorylation in Congenital Ureteropelvic Junction Obstruction. American Academy of Pediatrics, New Orleans, USA, October, 2012. [Poster Presentation]
- 2012 - Hunziker M, Gosemann J.H., O'Donnell AM, Corcionivoschi N, McDermott M and Puri P: Platelet-Derived Growth Factor Receptor Alpha Cells: A Novel Cell Type In The Human Ureter. 25th International Symposium, London, UK
- 2012 - N. Corcionivoschi, L Alvarez, U. Knaus and B. Bourke (2012) – Mucosal reactive oxygen species decrease virulence by disrupting *Campylobacter jejuni* phosphotyrosine signaling. American Society for General Microbiology. General Meeting. San Francisco, USA
- 2012 – Rome, Italy - 59th BAPS Annual International Congress/ 13th EUPSA Congress.
- 2012 – Villars-sur-Ollon, Switzerland - Subversion of Host Cellular Organization and Functions by Pathogens. EMBO Meeting.
- 2012 – Kilkenny, Ireland - Irish Society of Gastroenterology, Spring Meeting.
- 2011 - N. Corcionivoschi, L Alvarez, U. Knaus and B. Bourke. The role of ROS in mediating *Campylobacter jejuni* pathogenicity – Dublin, Ireland, Dublin Academy of Pathogenomics and Infection Biology, Annual Meeting – speaker
- 2011 - N. Corcionivoschi, L Alvarez, U. Knaus and B. Bourke (2011) – Mucosal reactive oxygen species decrease virulence by disrupting *Campylobacter jejuni* phosphotyrosine signaling. 15th International Workshop on *Campylobacter*, *Helicobacter* and Related Organisms. Vancouver, Canada – speaker.
- 2009 – Philadelphia, USA – American Society for General Microbiology, General Meeting.
- 2008 – Montreal, Canada – Canadian *Campylobacter* Conference

## Curriculum Vitae

- 2007 - N. Corcionivoschi, M. Clyne, B. Bourke – Alteration in bacterial capsular polysaccharide following co-culture with human epithelial cells. 14th International Workshop on Campylobacter, Helicobacter and Related Organisms. Rotterdam, Netherlands
- 2007 – Toronto, Canada - American Society for General Microbiology, General Meeting.
- 2007 - N. Corcionivoschi, M. Clyne, B. Bourke – Alteration in bacterial capsular polysaccharide following co-culture with human epithelial cells. Irish Society of Gastroenterology. Winter Meeting. Dublin, Ireland
- 2005 - N. Corcionivoschi – A novel cytochrome P450 from Campylobacter jejuni 11168. Brisbane, Gold Coast, Australia - 13th International Workshop on Campylobacter, Helicobacter and Related Organisms.
- 2003 – St. Andrews, UK – Enzyme Mechanism: A Structural Perspective, Society of Biochemistry.

### Books and book chapters

1. Probiotics – current status - Nicolae Corcionivoschi and Dan Drincianu, Editura Mirton Timisoara, 2009.
2. Cytochromes P450 in bacterial pathogens – Nicolae Corcionivoschi, Editura Ars Docendi, Bucharest.
3. Manipulation of human and animal microbiome – Romanian Academy of Science, 2015.
4. Food and Feed Safety Systems and Analysis – Chapters 7 and 8. Elsevier. 2017
5. Pre and Probiotics for Poultry Gut Health (2023) – Chapter: Go With Your Gut – a Scientific Approach to Excellence in Business?
6. E-book. Developments in Campylobacter, Helicobacter & Related Organisms Research – CHRO 2019, Gundogdu, O., Corcionivoschi, N., Thompson, S. A., eds. (2021). Developments in Campylobacter, Helicobacter & Related Organisms Research – CHRO 2019. Lausanne: Frontiers Media SA. doi: 10.3389/978-2-88966-480-1.
7. Pre and Probiotics for Poultry Gut Health. Chapter 7 Go With Your Gut – a Scientific Approach to Excellence in Business? Anne Richmond, Nicolae Corcionivoschi, Ozan Gundogdu. (ISBN 978-1-80062-272-2).
8. Callaway, T.R.; Koyun, O.; Corcionivoschi, N.; Baloyi, J.J.; Ateba, C.; Stef, L.; El Jeni, R.; Bu, D. Practical Applications of Probiotics in Beef Cattle Production. In Direct-Fed Microbials and Prebiotics for Animals: Science and Mechanisms of Action, Callaway, T.R., Ricke, S.C., Eds.; Springer International Publishing: Cham, 2023; pp. 301-322.

### Invited for Departmental seminars at:

London School of Hygiene and Tropical Medicine, London UK  
National Children Research Centre, Dublin Ireland  
Royal Society of Chemistry  
Queens University Belfast  
Ulster University  
European Food safety Authority, Irish Branch  
Food Safety Authority, NI Branch  
Teagasc, Morepark, Ireland  
University of British Columbia, Vancouver, Canada  
AFBI, Fall Forum, University of Wisconsin, USA  
DAERA, NI – Seminar Series, Ballykelly Northern Ireland, January 2020

### Computer skills

Microsoft Office™ tools  
Graph Prism  
Microscope image processing tools

### Driving licence

B

**Prof. dr. ing. HC Nicolae Corcionivoschi PhD, MIFST**