

PERSONAL INFORMATION

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Positions and work experience

- 2014 – now Head of Food Microbiology, 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
- 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
- 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://phrn.net/members/>
- Romanian Academy of Scientists

Academic appointments:

- Doctor Honoris Causa – USAMVB King Michael I of Romania, Timisoara (2018)
- Ulster University Fellow
- PhD Supervisor – Habilitation in Biotechnology (2013)
- 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

PhD Students supervision

- **Eugenia Butucel** – PhD Student. Natural antimicrobials and bacterial virulence. Funded by Auranta (2021-2024). USMAV Timisoara.

Curriculum Vitae

- **Callie Hughes** – PhD Student. Shaping the optimal poultry gastrointestinal tract microbiome through dietary interventions to aid in achieving net zero emissions and sustainable poultry production systems. Funded by Moy Park (2021-2024). Queens University Belfast.
- **Phillip Burrows** – PhD student. Untangling the importance of poultry associated microbiomes for food security. Funded by Moy Park (2019-2023). Second supervisor. Queens University Belfast
- **Zoe Black** – PhD Student. Identification, characterisation and fate of bacterial pathogens in a range of organic manures applied to arable soils in Northern Ireland. Funded by DAERA (2019-2023). Ulster University.
- **Igori Balta** – PhD student. The impact of natural antimicrobials in modulating the host immune system to reduce viral and bacterial pathogens in farm animals. Funded by Auranta (2020-2025) – USAMV Cluj Napoca
- **Aaron McKenna** – PhD student. Identification and prevalence of T6SS virulence factors in *Campylobacter* isolates within Moy Park farms (2016-2019). Funded by Moy Park – Second Supervisor - writing up – Queens University
- **Nompilo Sibanda** – PhD student. The effect of management practices on *Campylobacter* presence in Northern Ireland poultry farms (2016-2019). Funded by Moy Park. Second Supervisor – Queens University
- **Vlad Ungureanu** – PhD student. Prevalence of highly virulent *Campylobacter jejuni* strains from the rural area of North Romania (2018-2021). Primary Supervisor – USAMVB Timisoara.
- **Oana Trofenciu** – PhD student. Isolation and characterisation of *Campylobacter jejuni* isolates from dental cavities in humans. (2018-2021). Primary Supervisor – USAMV Cluj-Napoca.
- **Filip Sima** – PhD Student. The effect of prebiotics in preventing in vitro and ex vivo *Campylobacter* and *Cryptosporidium* infection (2016-2019). Funded by an animal feed supplement company. Principal Supervisor – University of Bucharest. Graduated December 2019.

Current research projects	<p><i>"The impact of plant extracts of bacterial pathogens"</i>. Value of grant £94,000. Principal investigator. Funded by Auranta 2021-2024. PI.</p>
	<p><i>"Natural antimicrobials and bacterial virulence"</i>. Value of grant £265,000. Principal investigator. Industry funding. 2020-2025. PI.</p>
	<p><i>"The effect of prebiotic feed supplements in preventing pathogen infection in vitro and ex vivo"</i>. Value of grant in full: £299,415. Principal Investigator. Industry funding. 2016-2020. PI.</p>
	<p><i>"Identification and prevalence of T6SS virulence factors in Campylobacter isolates within Moy Park farms"</i>. Value of grant in full: £103,000. Principal Investigator. Industry funding – 2016-2019. PI.</p>
	<p><i>"Insects as a sustainable novel protein"</i>. Value of grant in full: £186,310. Co-PI. Agri-Food Quest funding. PI.</p>
	<p><i>"Role of diet & gut microbiota in odor emissions from pigs and off-flavors in pork"</i>. Value of grant in full: £282,519. Co-PI. Agri-Food Quest funding. PI.</p>

Publications

1. 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>
2. 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>
3. Bundurăş, I.A.; Balta, I.; Ţef, L.; Ahmadi, M.; Pet, 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>.
4. 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>.

5. 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>.
6. Butucel, E.; Balta, I.; McCleery, D.; Popescu, C.A.; Iancu, T.; Pet, I.; Marcu, A.; Horabla, 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>
7. 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>
8. 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>.
9. 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
10. Igore 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>
11. 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>
12. Balta Igore, 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.
13. 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>
14. 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>
15. Butucel, Eugenia, Igore 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.
16. 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.
17. Balta, Igore, 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.
18. Balta, I.; Butucel, E.; Mohlyuk, 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.
19. 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.
20. 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.

21. Corcionivoschi, N.; Gundogdu, O. Editorial: Foodborne Pathogen Campylobacter. *Microorganisms* 2021, 9, 1241. <https://doi.org/10.3390/microorganisms9061241>
22. 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.
23. 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.
24. 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>
25. 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>
26. Igori Balta, Mark Linton, Laurette Pinkerton, Carmel Kelly, Patrick Ward, Lavinia Stef, Ioan Pet, Adina Horabla, 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.
27. 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 Taga cheese during maturation. *PLoS One*, 15(12), e0242824.
28. 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.
29. 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.
30. 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.
31. 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.
32. 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>.
33. 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.
34. 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>.
35. 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.
36. 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.
37. 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.
38. 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>.
39. Berchez, Mihaela, Adriana Cristina Urcan, Nicolae Corcionivoschi, and Adriana Criste. "In vitro effects of phenolic acids and IgY immunoglobulins on aspects of rumen fermentation." *Romanian Biotechnological Letters* 24, no. 3 (**2019**): 513-521.
40. Ungureanu, V., Corcionivoschi, N., Gundogdu, 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.
41. 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.
42. 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.
43. 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.
44. 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.
45. 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.
46. 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.
47. 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.
48. Ugarte-Ruiz M, Domínguez L, Corcionivoschi N, Wren BW, Dorrell N, Gundogdu O. Exploring the oxidative, antimicrobial and genomic properties of Campylobacter jejuni strains isolated from poultry. *Res Vet Sci*. 2018 Aug;119:170-175. doi: 10.1016/j.rvsc.2018.06.016. Epub 2018 Jun 19.
49. Igori Balta, Lucian Brinza, Alexandros Ch. Stratakos, Mark Linton, Carmel Kelly, Laurette Pinkerton, N. Corcionivoschi (2018). Geraniol and linalool loaded nanoemulsions and their antimicrobial activity. *Bulletin of university of agricultural sciences and veterinary medicine Cluj-Napoca Animal Science and Biotechnologies*. Vol. 74(2).DOI:10.15835/buasvmcn-asb:0025. Corresponding author.
50. Robert H. Madden, Mike Hutchison, Kieran Jordan, Vincenzo Pennone, Ozan Gundogdu, Nicolae Corcionivoschi. Prevalence and persistence of Listeria monocytogenes in premises and products of small food business operators in Northern Ireland, *Food Control*, Volume 87, 2018, Pages 70-78, ISSN 0956-7135. Corresponding author.
51. 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.
52. Stratakos Ch. A, Sima F, Ward P, Linton M, Kelly C, Pinkerton L, Stef L, P, Iancu T, Pircalabioru G, Corcionivoschi N. The in vitro and ex vivo effect of Auranta 3001 in preventing *Cryptosporidium hominis* and

- Cryptosporidium parvum infection. *Gut Pathog.* 2017 Aug 31;9:49. doi: 10.1186/s13099-017-0192-y.eCollection 2017. Corresponding author.
53. 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.
54. David Colyle, Annemarie O'Donnell, Nicolae Corcionivoschi, John Gillick, Prem Puri. Rho-kinase expression in Hirschsprung's disease. 2015. *Paediatric Surgery International*. Aug. 2015.
55. Nicolae Corcionivoschi, Ozan Gundogdu, Lynn Moran, Carmel Kelly, Pam Scates, Lavinia Stef, Ada Cean, Brendan Wren, Nick Dorrell, and Robert H. Madden. Virulence characteristics of hcp+ *Campylobacter jejuni* and *Campylobacter coli* isolates from retail chicken. 2015. *Gut Pathogens*. July 7:20. Corresponding author.
56. Ada Cean, Lavinia Stef, Aida Vasile, Calin Julean, Simiz Eliza, Dan Drinceanu, Nicolae Corcionivoschi. The role of human isolated probiotic bacteria in preventing *Campylobacter jejuni* colonization of poultry. 2015. *Foodborne Pathogens and Disease*. Feb;12(2):122-30. doi: 10.1089/fpd.2014.1849. Corresponding author.
57. Lavinia Stef, Ada Telea, Aida Vasile, Calin Julean, Dan Drinceanu, Nicolae Corcionivoschi. Virulence characteristics of five new *Campylobacter jejuni* chicken isolates. 2013. *Gut Pathogens*. 5:41 (13 December). Corresponding author.
58. Luis Alvarez, Billy Bourke, Gratiela Pircalabioru, Atanas Georgiev, Ulla G. Knaus, Simon Daff and Nicolae Corcionivoschi. Cj1411c encodes for a cytochrome P450 involved in *Campylobacter jejuni* 81-176 pathogenicity. 2013. *Plos One*. Corresponding author.
59. Jan-H. Gosemann, Florian Friedmacher, Naho Fujiwara, Luis AJ Alvarez, Nicolae Corcionivoschi, Prem Puri (2013). Disruption of the bone morphogenetic protein receptor 2 pathway in nitrofen-induced congenital diaphragmatic hernia. June 18 Birth Defects Res B Dev Reprod Toxicol. 2013 Jun 18. Corresponding author.
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61. F. Friedmacher, J.H. Gosemann, H. Takahashi, N. Corcionivoschi, and P. Puri, Decreased pulmonary c-Cbl expression and tyrosine phosphorylation in the nitrofen-induced rat model of congenital diaphragmatic hernia. *Pediatr Surg Int* 29 (2013) 19-24.
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- Agricultural Sciences and Veterinary Medicine, Cluj-Napoca, Romania, Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj- Napoca. *Animal Science and Biotechnologies*, 2009, 66, 1/2, 469, 3 ref. <http://www.cabdirect.org/abstracts/20093349485.html>.
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73. Corcionivoschi N. Using electron microscopy to detect bacterial morphological changes of *Campylobacter jejuni* 11168 as result of a cytochrome P450 gene knockout. *Bacteriol Virusol Parazitol Epidemiol*. 2007 Jan-Jun;52(1-2):51-7. PubMed PMID: 18441959. Corresponding author.

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.

Curriculum Vitae

- 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
- 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

1. Probiotics – current status - Nicolae Corcionivoschi and Dan Drinceanu, 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. 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

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

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