

HORIZON
2020

Microbiome Applications for Sustainable food systems through Technologies and EnteRprise

Wyniki

Informacje na temat projektu

MASTER

Identyfikator umowy o grant: 818368

[Strona internetowa projektu](#) 

DOI

[10.3030/818368](https://doi.org/10.3030/818368) 

Projekt został zamknięty

Data podpisania przez KE

10 Października 2018

Data rozpoczęcia

2 Stycznia 2019

Data zakończenia

1 Lipca 2023

Finansowanie w ramach

SOCIETAL CHALLENGES - Food security, sustainable agriculture and forestry, marine, maritime and inland water research, and the bioeconomy

Koszt całkowity

€ 12 136 475,89

Wkład UE

€ 10 950 171,90

Koordynowany przez

TEAGASC - AGRICULTURE AND
FOOD DEVELOPMENT
AUTHORITY



Ireland

CORDIS oferuje możliwość skorzystania z odnośników do publicznie dostępnych publikacji i rezultatów projektów realizowanych w ramach programów ramowych HORYZONT.

Odnośniki do rezultatów i publikacji związanych z poszczególnymi projektami 7PR, a także odnośniki do niektórych konkretnych kategorii wyników, takich jak zbiory danych i oprogramowanie, są dynamicznie pobierane z systemu [OpenAIRE](#) .

Rezultaty

Websites, patent fillings, videos etc. (6)

[Project Website online !\[\]\(3dfb8d66e81160ad61421a3452093d1b_img.jpg\)](#)

[International Conference/webinar proceedings !\[\]\(99f58673407353e96a019fbca558fd72_img.jpg\)](#)

International Conferencewebinar proceedings

[Public version of the web portal with all SOPs and available produced data !\[\]\(339a16584d5da0f0a3ca4e9ec17bf6a1_img.jpg\)](#)

[Demonstration activities performed in at least 200 food companies !\[\]\(a870788d6ed9b8fd294b7654a8c8526b_img.jpg\)](#)

[Dissemination, exploitation and communication plan !\[\]\(de95854c7ee024cfadc48187bbb781b2_img.jpg\)](#)

Dissemination exploitation and communication plan

[First version of curatedFoodMetagenomicData from publicly available data !\[\]\(6059a5aa8b4ca7bb793408023d6c6e42_img.jpg\)](#)

Other (3)

[Final release of the pipelines for amplicon-based and metagenomics profiling !\[\]\(6a9b39b98eb945faa14c645ec99e4eaa_img.jpg\)](#)

[Updated version of foodGenVir database !\[\]\(9c2e8d1b5bd77cb5c9f83b7a9cff79fd_img.jpg\)](#)

[Final version of curatedFoodMetagenomicData including all produced data !\[\]\(e3275251d0893157c3584e20c81dc3ba_img.jpg\)](#)

Documents, reports (2)

[Report on the food, beverage and feed ingredients prototypes enriched with gut-health promoting bioactive components !\[\]\(f1c5da15572e3e09d343161be98f508d_img.jpg\)](#)

Report on the food beverage and feed ingredients prototypes enriched with guthealth promoting bioactive components

[SOPs for on-site, rapid microbiome screening on aquaculture farms and seawater samples !\[\]\(eabd9f9ababee93effadc3b380fe65fd_img.jpg\)](#)

SOPs for onsite rapid microbiome screening on aquaculture farms and seawater samples

Peer reviewed articles (77)



[Prebiotic potential of apple pomace and pectins from different apple varieties: Modulatory effects on key target commensal microbial populations.](#)

Autorzy: Ines Calvete-Torre, Carlos Sabater, María José Antón, F. Javier Moreno, Sabino Riestra, Abelardo Margolles, Lorena Ruiz

Opublikowane w: Food Hydrocolloids. Volume, Numer 133, 2022, Strona(/y) 107958, ISSN 1873-7137

Wydawca: Elsevier,

DOI: 10.1016/j.foodhyd.2022.107958

[The food-gut axis: lactic acid bacteria and their link to food, the gut microbiome and human health](#)

Autorzy: Francesca De Filippis, Edoardo Pasolli, Danilo Ercolini

Opublikowane w: FEMS Microbiology Reviews, Numer 44/4, 2020, Strona(/y) 454-489, ISSN 0168-6445

Wydawca: Blackwell

DOI: 10.1093/femsre/fuaa015

[Brewers spent yeast \(BSY\), an underutilised brewing by-product.](#)

Autorzy: Jaeger, A.; Arendt, E.K.; Zannini, E.; Sahin, A.W.

Opublikowane w: Fermentation, Numer 6, 2020, Strona(/y) 123, ISSN 2311-5637

Wydawca: Multidisciplinary Digital Publishing Institute (MDPI)

DOI: 10.3390/fermentation6040123

[Environmental microbiome mapping as a strategy to improve quality and safety in the food industry](#)

Autorzy: Francesca De Filippis, Vincenzo Valentino, Avelino Alvarez-Ordóñez, Paul D. Cotter, Danilo Ercolini

Opublikowane w: Current Opinion in Food Science, Numer 38, 2021, Strona(/y) 168-176, ISSN 2214-7993

Wydawca: Elsevier BV

DOI: 10.1016/j.cofs.2020.11.012

[Next-generation food research: Use of meta-omic approaches for characterizing microbial communities along the food chain](#)

Autorzy: Yap, M., Ercolini, D., Álvarez-Ordóñez, A., O'Toole, P.W., O'Sullivan, O., Cotter, P.D.

Opublikowane w: Annu Rev Food Sci Technol, Numer 13, 2022, Strona(/y) 1.1-1.24, ISSN 1941-1421

Wydawca: Annual Reviews

DOI: 10.1146/annurev-food-052720-010751

[Extending and improving metagenomic taxonomic profiling with uncharacterized species using MetaPhlAn 4](#) 

Autorzy: Blanco-Míguez, Aitor; Beghini, Francesco; Cumbo, Fabio; Mciver, Lauren J.; Thompson, Kelsey N.; Zolfo, Moreno; Manghi, Paolo; Dubois, Leonard; Huang, Kun D.; Thomas, Andrew Maltez; Nickols, William A.; Piccinno, Gianmarco; Piperni, Elisa; Punčochář, Michal; Valles-Colomer, Mireia; Tett, Adrian; Giordano, Francesca; Davies, Richard; Wolf, Jonathan; Berry, Sarah E.; Spector, Tim D.; Franzosa, Er

Opublikowane w: NATURE BIOTECHNOLOGY, 2023, ISSN 1087-0156

Wydawca: Nature Publishing Group

DOI: 10.1038/s41587-023-01688-w

[Meta-analysis of cheese microbiomes highlights contributions to multiple aspects of quality](#) 

Autorzy: Aaron M. Walsh, Guerrino Macori, Kieran N. Kilcawley, Paul D. Cotter

Opublikowane w: Nature Food, Numer 1/8, 2020, Strona(/y) 500-510, ISSN 2662-1355

Wydawca: Springer Nature

DOI: 10.1038/s43016-020-0129-3

[Valorization of Vegetable Food Waste and By-Products Through Fermentation Processes](#) 

Autorzy: Carlos Sabater; Carlos Sabater; Lorena Ruiz; Lorena Ruiz; Susana Delgado; Susana Delgado; Patricia Ruas-Madiedo; Patricia Ruas-Madiedo; Abelardo Margolles; Abelardo Margolles

Opublikowane w: Frontiers in Microbiology, Numer 11:581997, 2020, ISSN 1664-302X

Wydawca: Frontiers Media

DOI: 10.3389/fmicb.2020.581997

[Prevotella diversity, niches and interactions with the human host](#) 

Autorzy: Adrian Tett, Edoardo Pasolli, Giulia Masetti, Danilo Ercolini & Nicola Segata

Opublikowane w: Nature Reviews in Microbiology, Numer 19, 2021, Strona(/y) 585-599, ISSN 1740-1526

Wydawca: Nature Publishing Group

DOI: 10.1038/s41579-021-00559-y

[Barley protein properties, extraction and applications, with a focus on Brewer's Spent Grain Protein](#) 

Autorzy: Alice Jaeger, Emanuele Zannini, Aylin W. Sahin & Elke K. Arendt

Opublikowane w: Foods, Numer 10(6), 2021, Strona(/y) 1389, ISSN 2304-8158

Wydawca: Multidisciplinary Digital Publishing Institute (MDPI)

DOI: 10.3390/foods10061389

[High pressure processing at the early stages of ripening enhances the safety and quality of dry fermented sausages elaborated with or without starter culture](#) 

Autorzy: Miroslav Ducic, Coral Barcenilla, Jose F. Cobo-Díaz, Mercedes Lopez, Avelino Alvarez-Ordóñez, Miguel Prieto

Opublikowane w: Food Research International, Numer 163, 2023, ISSN 0963-9969

Wydawca: Elsevier BV

DOI: 10.1016/j.foodres.2022.112162

[MetaPhlAn 4 profiling of unknown species-level genome bins improves the characterization of diet-associated microbiome changes in mice](#) 

Autorzy: Manghi P, Blanco-Míguez A, Manara S, NabiNejad A, Cumbo F, Beghini F, Armanini F, Golzato D, Huang KD, Thomas AM, Piccinno G, Punčochář M, Zolfo M, Lesker TR, Bredon M, Planchais J, Glodt J, Valles-Colomer M, Koren O, Pasolli E, Asnicar F, Strowig T, Sokol H, Segata N.

Opublikowane w: Cell Reports, Numer 42(5), 2023, Strona(/y) 112464, ISSN 2211-1247

Wydawca: Cell Press

DOI: 10.1016/j.celrep.2023.112464

[Modelling the impact of the macroalgae *Asparagopsis taxiformis* on rumen microbial fermentation and methane production](#) 

Autorzy: Muñoz-Tamayo, R., Chagas, J.C., Ramin, M. and Krizsan, S.J.

Opublikowane w: Peer Community Journal, Numer 1, 2021, Strona(/y) e7, ISSN 2804-3871

Wydawca: Peer Community In

DOI: 10.24072/pcjournal.11

[Plant diversity enhanced nematode-based soil quality indices and changed soil nematode community structure in intensively-managed agricultural grasslands](#) 

Autorzy: Israel Ikoyi, Guylain Grange, John A. Finn & Fiona P. Brennan

Opublikowane w: European Journal of Soil Biology, Numer 118 (Sept-Oct), 2023, ISSN 1164-5563

Wydawca: Elsevier BV

DOI: 10.1016/j.ejsobi.2023.103542

[Evaluation of the performance of a three-strains lactic acid bacteria cocktail for the control of *Listeria monocytogenes* on marinated lean pork](#) 

Autorzy: Barcenilla, C., Puente, A., Cobo-Díaz, J.F., González-Raurich, M., López, M., Prieto, M., Álvarez-Ordóñez, A.

Opublikowane w: LWT - Food Science and Technology, Numer 200, 2024, Strona(/y) 116166, ISSN 0023-6438

Wydawca: Academic Press

DOI: 10.1016/j.lwt.2024.116166

[Development of a rapid qPCR method to quantify lactic acid bacteria in cold-smoked salmon](#) 

Autorzy: Jérôme M., Passerini D., Chevalier F., Marchand L., Leroi F. and Macé S.

Opublikowane w: International Journal of Food Microbiology, Numer 363, 2022, Strona(/y) 109504, ISSN 0168-1605

Wydawca: Elsevier BV

DOI: 10.1016/j.ijfoodmicro.2021.109504

[Microbial colonization and resistome dynamics in food processing environments of a newly opened pork cutting industry during 1.5 years of activity](#) 

Autorzy: José F. Cobo-Díaz, Adrián Alvarez-Molina, Elena A. Alexa, Calum J. Walsh, Oscar Mencía-Ares, Paula Puente-Gómez, Eleni Likotrafti, Paula Fernández-Gómez, Bernardo Prieto, Fiona Crispie, Lorena Ruiz, Montserrat González-Raurich, Mercedes López, Miguel Prieto, Paul Cotter, Avelino Alvarez-Ordóñez

Opublikowane w: Microbiome, Numer 9, 2021, Strona(/y) 204, ISSN 2049-2618

Wydawca: BioMed Central

DOI: 10.1186/s40168-021-01131-9

[New insight into antimicrobial compounds from food and marine-sourced Carnobacterium species through phenotype and genome analyses.](#) 

Autorzy: Begrem, S., Ivaniuk, F., Gigout-Chevalier, F., Kolypczuk, L., Bonnetot, S., Leroi, F., Grovel, O., Delbarre-Ladrat, C., Passerini, D.

Opublikowane w: Microorganisms, Numer 8(7), 2020, Strona(/y) 1093, ISSN 2076-2607

Wydawca: Multidisciplinary Digital Publishing Institute (MDPI)

DOI: 10.3390/microorganisms8071093

[Bioinformatic approaches for studying the microbiome of fermented food](#) 

Autorzy: Walsh, L.H., Coakley, M., Walsh, A.M., O'Toole, P.W. and Cotter, P.D.

Opublikowane w: Critical Reviews in Microbiology, Numer 26, 2022, Strona(/y) 1-33, ISSN 1040-841X

Wydawca: Taylor & Francis

DOI: 10.1080/1040841x.2022.2132850

[Valorisation Process Using Lactic Acid Bacteria Fermentation Induces Significant Changes in the Physical and Functional Properties of Brewers Spent Yeast.](#) 

Autorzy: Alice Jaeger, Aylin W. Sahin, Laura Nyhan, Emanuele Zannini & Elke. K Arendt.

Opublikowane w: Fermentation, Numer 10 (3), 2024, Strona(/y) 136, ISSN 2311-5637

Wydawca: Multidisciplinary Digital Publishing Institute (MDPI)

DOI: 10.3390/fermentation10030136

[Metatranscriptomic analyses unravel dynamic changes in the microbial and metabolic transcriptional profiles in artisanal Austrian hard-cheeses during ripening](#) 

Autorzy: Narciso Martin Quijada, Monika Dzieciol, Stephan Schmitz-Esser, Martin Wagner, Evelyne Selberherr

Opublikowane w: Frontiers in Microbiology, 13:813480 (2022), Numer 13, 2022, ISSN 1664-302X

Wydawca: Frontiers Media

DOI: 10.3389/fmicb.2022.813480

[Presence of adult companion goats favors the rumen microbial and functional development in artificially reared kids](#) 

Autorzy: Juan Manuel Palma-Hidalgo, David R Yáñez-Ruiz, Elisabeth Jiménez, A Ignacio Martín-García, Alejandro Belanche

Opublikowane w: Frontiers in Veterinary Science, Numer 8, 2021, Strona(/y) 706592, ISSN 2297-1769

Wydawca: Frontiers Media S.A.

DOI: 10.3389/fvets.2021.706592

[Long-term effects of early-life rumen microbiota modulation on dairy cow production performance and methane emissions](#) 

Autorzy: Huuki H, Tapio M, Mäntysaari P, Negussie E, Ahvenjärvi S, Vilkki J, Vanhatalo A and Tapio I

Opublikowane w: Frontiers in Microbiology, Numer 13, 2022, Strona(/y) 983823, ISSN 1664-302X

Wydawca: Frontiers Media

DOI: 10.3389/fmicb.2022.983823

[Genomic diversity and ecology of human-associated Akkermansia species in the gut microbiome revealed by extensive metagenomic assembly](#) 

Autorzy: Karcher, N., Nigro, E., Punčochář, M., Blanco-Míguez, A., Ciciani, M., Manghi, P., Zolfo, M., Cumbo, F., Manara, S., Golzato, D., Cereseto, A., Arumugam, M., Phuong Nam Bui, T., Tytgat H.L.P., Valles-Colomer, M., de Vos, W.M. & Segata, N.

Opublikowane w: Genome Biology, Numer 22, 2021, Strona(/y) 209, ISSN 1474-760X

Wydawca: Springer Nature

DOI: 10.1186/s13059-021-02427-7

[The effects of residual energy intake on nutrient use, methane emissions and microbial composition in dairy cows.](#) 

Autorzy: Ahvenjärvi, S., Bayat, A.R., Toivanen, M., Mäntysaari, P., Tapio, I.

Opublikowane w: Scientific Reports., Numer 14(1), 2024, Strona(/y) 613, ISSN 2045-2322

Wydawca: Nature Publishing Group

DOI: 10.1038/s41598-024-51300-7

[Application of lactic acid bacteria for the biopreservation of meat products: A systematic review](#)

Autorzy: Coral Barcenilla, Miroslav Ducic, Mercedes López, Miguel Prieto, Avelino Álvarez-Ordóñez

Opublikowane w: Meat Science, Numer 183, 2022, ISSN 0309-1740

Wydawca: Elsevier BV

DOI: 10.1016/j.meatsci.2021.108661

[Rumen microbiota predicts feed efficiency of primiparous Nordic Red dairy cows.](#)

Autorzy: Milka Tapio, Daniel Fischer, Päivi Mäntysaari, Ilma Tapio

Opublikowane w: Microorganisms, Numer 11(5), 2023, Strona(/y) 1116, ISSN 2076-2607

Wydawca: MDPI

DOI: 10.3390/microorganisms11051116

[Integrating microbial abundance time series with fermentation dynamics of the rumen microbiome via mathematical modelling](#)

Autorzy: Davoudkhani, M., Rubino, F., Creevey, C.J., Ahvenjärvi, S., Bayat, A.R., Tapio, I., Belanche, A. & Muñoz-Tamayo, R.

Opublikowane w: PloS One, Numer 19(3), 2024, Strona(/y) e0298930, ISSN 1932-6203

Wydawca: Public Library of Science

DOI: 10.1371/journal.pone.0298930

[Vegetable waste and by-products to feed a healthy gut microbiota: current evidence, machine learning and computational tools to design novel microbiome-targeted foods](#)

Autorzy: Sabater C, Calvete-Torre I, Villamiel M, Moreno FJ, Margolles A, Ruiz L.

Opublikowane w: Trends in Food Science & Technology, Numer 118, 2021, Strona(/y) 399-417, ISSN 0924-2244

Wydawca: Elsevier BV

DOI: 10.1016/j.tifs.2021.10.002

[Novel methods of microbiome analysis in the food industry](#)

Autorzy: Sabater C, Cobo-Díaz JF, Álvarez-Ordóñez A, Ruas-Madiedo P, Ruiz L, Margolles A.

Opublikowane w: International Microbiology, Numer 24, 2021, Strona(/y) 593-605, ISSN 1139-6709

Wydawca: Sociedad Espanola de Microbiologia

DOI: 10.1007/s10123-021-00215-8

[Food ingredients for the future: In-depth analysis of the effects of lactic acid bacteria fermentation on spent barley rootlets.](#)

Autorzy: Emma Neylon, Laura Nyhan, Emanuele Zannini, Thomas Monin, Steffen Muench, Aylin W. Sahin Elke K. Arendt.

Opublikowane w: Fermentation, Numer 9, 78, 2023, ISSN 2311-5637

Wydawca: MDPI

DOI: 10.3390/fermentation9010078

[Fermentation as a tool to revitalise brewer's spent grain and elevate techno-functional properties and nutritional value in high fibre bread](#)

Autorzy: Emma Neylon, Elke K. Arendt, Emanuele Zannini & Aylin W. Sahin

Opublikowane w: Foods, Numer 10(7), 2021, Strona(/y) 1639, ISSN 2304-8158

Wydawca: Multidisciplinary Digital Publishing Institute (MDPI)

DOI: 10.3390/foods10071639

[Blue poo: impact of gut transit time on the gut microbiome using a novel marker, 70:1665-1674 \(2021\) BMJ Publishing Group; United Kingdom](#)

Autorzy: Asnicar, F., Leeming, E.R., Dimidi, E., Mazidi, M., Franks, P.W., Al Khatib, H., Valdes, A.M., Davies, R., Bakker, E., Francis, L., Chan, A., Gibson, R., Hadjigeorgiou, G., Wolf, J., Spector, T.D., Segata, N. & Berry S.E.

Opublikowane w: Gut, Numer 70, 2021, Strona(/y) 1665-1674, ISSN 0017-5749

Wydawca: BMJ Publishing Group

DOI: 10.1136/gutjnl-2020-323877

[Review: Towards the next-generation models of the rumen microbiome for enhancing predictive power and guiding sustainable production strategies](#)

Autorzy: Muñoz-Tamayo, R., Davoudkhani, M., Fakihi, I., Robles-Rodriguez, C.E., Rubino, F., Creevey, C.J. & Forano, E

Opublikowane w: Animal, Numer 17(5), 2023, Strona(/y) 100984, ISSN 1751-732X

Wydawca: Elsevier

DOI: 10.1016/j.animal.2023.100984

[Integrated molecular approaches for fermented food microbiome research](#)

Autorzy: Aaron M Walsh, John Leech, Curtis Huttenhower, Hue Delhomme-Nguyen, Fiona Crispie, Christian Chervaux, Paul D. Cotter.

Opublikowane w: FEMS Microbiology Reviews, 2023, Strona(/y) 1-13, ISSN 0168-6445

Wydawca: Blackwell

DOI: 10.1093/femsre/fuad001

[Fundamental study of the application of brewers spent grain and fermented brewers spent grain on the quality of pasta](#) 

Autorzy: Emma Neylon, Elke K. Arendt, Emanuele Zannini & Aylin W. Sahin

Opublikowane w: Food Structure, Numer 30:100225, 2021, ISSN 2213-3291

Wydawca: Elsevier BV

DOI: 10.1016/j.foostr.2021.100225

[Evaluating the effect of phenolic compounds as hydrogen acceptors when ruminal methanogenesis is inhibited in vitro – Part 2. Dairy goats](#) 

Autorzy: Romero, P., Huang, R., Jiménez, E., Palma-Hidalgo, J. M., Ungerfeld, E. M., Popova, M., Morgavi, D. P., Belanche, A., Yáñez-Ruiz, D. R.

Opublikowane w: Animal, Numer 17, 2023, Strona(/y) 5, ISSN 1751-732X

Wydawca: Elsevier

DOI: 10.1016/j.animal.2023.100789

[Maternal and food microbial sources shape the infant microbiome of a rural Ethiopian population](#) 

Autorzy: Manara S, Selma-Royo M, Huang KD, Asnicar F, Armanini F, Blanco-Miguez A, Cumbo F, Golzato D, Manghi P, Pinto F, Valles-Colomer M, Amoroso L, Corrias MV, Ponzoni M, Raffaetà R, Cabrera-Rubio R, Olcina M, Pasolli E, Collado MC, Segata N.

Opublikowane w: Current Biology, 2023, ISSN 0960-9822

Wydawca: Cell Press

DOI: 10.1016/j.cub.2023.04.011

[From Waste to Taste: Application of Fermented Spent Rootlet Ingredients in a Bread System.](#) 

Autorzy: Neylon, E.; Nyhan, L.; Zannini, E.; Sahin, A.W.; Arendt, E.K.

Opublikowane w: Foods, Numer 12, 2023, Strona(/y) 1549, ISSN 2304-8158

Wydawca: MDPI

DOI: 10.3390/foods12071549

[Evaluating the effect of phenolic compounds as hydrogen acceptors when ruminal methanogenesis is inhibited in vitro – Part 1. Dairy cows](#) 

Autorzy: Huang, R., Romero, P., Belanche, A., Ungerfeld, E. M., Yanez-Ruiz, D., Morgavi, D. P., Popova, M.

Opublikowane w: Animal, Numer 17, 2023, Strona(/y) 5, ISSN 1751-732X

Wydawca: Elsevier

DOI: 10.1016/j.animal.2023.100788

[Microbiological safety and shelf-life of low-salt meat products-a review.](#) 

Autorzy: Barcenilla C, Álvarez-Ordóñez A, López M, Alvseike O, Prieto M.

Opublikowane w: Foods, Numer 11(15), 2022, Strona(/y) 2331, ISSN 2304-8158

Wydawca: MDPI

DOI: 10.3390/foods11152331

[Newly explored Faecalibacterium diversity is connected to age, lifestyle, geography, and disease.](#) 

Autorzy: De Filippis, F., Pasoli, E. and Ercolini, D.

Opublikowane w: Current Biology, Numer 30, 2020, Strona(/y) 1–12, ISSN 0960-9822

Wydawca: Cell Press

DOI: 10.1016/j.cub.2020.09.063

[Integrating taxonomic, functional, and strain-level profiling of diverse microbial communities with bioBakery 3](#) 

Autorzy: Francesco Beghini, Lauren J McIver, Aitor Blanco-Míguez, Leonard Dubois, Francesco Asnicar, Sagun Maharjan, Ana Mailyan, Paolo Manghi, Matthias Scholz, Andrew Maltez Thomas, Mireia Valles-Colomer, George Weingart, Yancong Zhang, Moreno Zolfo, Curtis Huttenhower, Eric A Franzosa, Nicola Segata

Opublikowane w: eLife, 2021, ISSN 2050-084X

Wydawca: eLife Sciences Publications

DOI: 10.7554/elife.65088

[Rootlets, a malting by-product with great potential.](#) 

Autorzy: Neylon, E., Arendt, E.K., Lynch, K.M., Zannini, E., Bazzoli, P., Monin, T., Sahin, A.W.

Opublikowane w: Fermentation, Numer 6, 2020, Strona(/y) 117, ISSN 2311-5637

Wydawca: Multidisciplinary Digital Publishing Institute (MDPI)

DOI: 10.3390/fermentation6040117

[Fecal microbiota colonization dynamics in dairy heifers associated with early-life rumen microbiota modulation and gut health](#) 

Autorzy: Huuki, H., Vilkki, J., Vanhatalo, A. & Tapio, I.

Opublikowane w: Frontiers in Microbiology, Numer 15, 2024, Strona(/y) 1353874, ISSN 1664-302X

Wydawca: Frontiers Media

DOI: 10.3389/fmicb.2024.1353874

[Selection of lactic acid bacteria as biopreservation agents and optimization of their mode of application for the control of Listeria monocytogenes in ready-to-eat cooked meat products.](#) 

Autorzy: Barcenilla, C., Puente, A., Cobo-Díaz, J.F., Alexa, E.A., García-Gutiérrez, E., O'Connor, P.M., Cotter, P.D., González-Raurich, M., López, M., Prieto, M., Álvarez-Ordóñez, A.

Opublikowane w: International Journal of Food Microbiology, Numer 403, 110341, 2023, ISSN 0168-1605

Wydawca: Elsevier BV

DOI: 10.1016/j.ijfoodmicro.2023.110341

[The Prevotella copri Complex Comprises Four Distinct Clades Underrepresented in Westernized Populations](#) 

Autorzy: Adrian Tett, Kun D. Huang, Francesco Asnicar, Hannah Fehlner-Peach, Edoardo Pasolli, Nicolai Karcher, Federica Armanini, Paolo Manghi, Kevin Bonham, Moreno Zolfo, Francesca De Filippis, Cara Magnabosco, Richard Bonneau, John Lusingu, John Amuasi, Karl Reinhard, Thomas Rattei, Fredrik Boulund, Lars Engstrand, Albert Zink, Maria Carmen Collado, Dan R. Littman, Daniel Eibach, Danilo Ercolini, Omar Ro

Opublikowane w: Cell Host & Microbe, Numer 26/5, 2019, Strona(/y) 666-679.e7, ISSN 1931-3128

Wydawca: Cell Press

DOI: 10.1016/j.chom.2019.08.018

[At the forefront of the sequencing revolution—notes from the RNGS19 conference](#) 

Autorzy: Sander Wuyts, Nicola Segata

Opublikowane w: Genome Biology, Numer 20/1, 2019, ISSN 1474-760X

Wydawca: Springer Nature (BioMed Central (BMC))

DOI: 10.1186/s13059-019-1714-3

[Tracking the Dairy Microbiota from Farm Bulk Tank to Skimmed Milk Powder](#) 

Autorzy: Aoife J. McHugh, Conor Feehily, Mark A. Fenelon, David Gleeson, Colin Hill, Paul D. Cotter

Opublikowane w: mSystems, Numer 5/2, 2020, ISSN 2379-5077

Wydawca: American Society for Microbiology (ASM)

DOI: 10.1128/msystems.00226-20

[Detecting contamination in viromes using ViromeQC](#) 

Autorzy: Moreno Zolfo, Federica Pinto, Francesco Asnicar, Paolo Manghi, Adrian Tett, Frederic D. Bushman, Nicola Segata

Opublikowane w: Nature Biotechnology, Numer 37/12, 2019, Strona(/y) 1408-1412, ISSN 1087-0156

Wydawca: Nature Publishing Group

DOI: 10.1038/s41587-019-0334-5

[Precise phylogenetic analysis of microbial isolates and genomes from metagenomes using PhyloPhlAn 3.0](#) 

Autorzy: Francesco Asnicar, Andrew Maltez Thomas, Francesco Beghini, Claudia Mengoni, Serena Manara, Paolo Manghi, Qiyun Zhu, Mattia Bolzan, Fabio Cumbo, Uyen May, Jon G. Sanders, Moreno Zolfo, Evguenia Kopylova, Edoardo Pasolli, Rob Knight, Siavash Mirarab, Curtis Huttenhower, Nicola Segata

Opublikowane w: Nature Communications, Numer 11/1, 2020, ISSN 2041-1723

Wydawca: Nature Publishing Group

DOI: 10.1038/s41467-020-16366-7

[Microbial genomes from non-human primate gut metagenomes expand the primate-associated bacterial tree of life with over 1000 novel species](#) 

Autorzy: Serena Manara, Francesco Asnicar, Francesco Beghini, Davide Bazzani, Fabio Cumbo, Moreno Zolfo, Eleonora Nigro, Nicolai Karcher, Paolo Manghi, Marisa Isabell Metzger, Edoardo Pasolli, Nicola Segata

Opublikowane w: Genome Biology, Numer 20/1, 2019, ISSN 1474-760X

Wydawca: Springer Nature (BioMed Central (BMC))

DOI: 10.1186/s13059-019-1923-9

[Large-scale genome-wide analysis links lactic acid bacteria from food with the gut microbiome](#) 

Autorzy: Edoardo Pasolli, Francesca De Filippis, Italia E. Mauriello, Fabio Cumbo, Aaron M. Walsh, John Leech, Paul D. Cotter, Nicola Segata, Danilo Ercolini

Opublikowane w: Nature Communications, Numer 11/1, 2020, ISSN 2041-1723

Wydawca: Nature Publishing Group

DOI: 10.1038/s41467-020-16438-8

[Analysis of 1321 Eubacterium rectale genomes from metagenomes uncovers complex phylogeographic population structure and subspecies functional adaptations](#) 

Autorzy: Nicolai Karcher, Edoardo Pasolli, Francesco Asnicar, Kun D. Huang, Adrian Tett, Serena Manara, Federica Armanini, Debbie Bain, Sylvia H. Duncan, Petra Louis, Moreno Zolfo, Paolo Manghi, Mireia Valles-Colomer, Roberta Raffaetà, Omar Rota-Stabelli, Maria Carmen Collado, Georg Zeller, Daniel Falush, Frank Maixner, Alan W. Walker, Curtis Huttenhower, Nicola Segata

Opublikowane w: Genome Biology, Numer 21/1, 2020, ISSN 1474-760X

Wydawca: BioMed Central

DOI: 10.1186/s13059-020-02042-y

[Analysis of Health Benefits Conferred by Lactobacillus Species from Kefir](#) 

Autorzy: Conor Slattery, Paul D. Cotter, Paul W. O'Toole

Opublikowane w: Nutrients, Numer 11/6, 2019, Strona(/y) 1252, ISSN 2072-6643

Wydawca: Multidisciplinary Digital Publishing Institute (MDPI)

DOI: 10.3390/nu11061252

[Multiple levels of the unknown in microbiome research](#) 

Autorzy: Andrew Maltez Thomas, Nicola Segata

Opublikowane w: BMC Biology, Numer 17/1, 2019, ISSN 1741-7007

Wydawca: BioMed Central

DOI: 10.1186/s12915-019-0667-z



Autorzy: Roques, S., Martinez-Fernandez, G., Ramayo-Caldas, Y., Popova, M., Denman, S., Meale, S.J., Morgavi, D.P.

Opublikowane w: Annual Review of Animal Biosciences, Numer 12, 2024, Strona(/y) 321–343., ISSN 2165-8102

Wydawca: Annual Reviews Inc.

DOI: 10.1146/annurev-animal-021022-024931

Autorzy: F. De Filippis, A. Esposito, D. Ercolini

Opublikowane w: Cellular and Molecular Life Sciences, Numer 79, 2022, ISSN 1420-9071

Wydawca: Springer Nature

DOI: 10.1007/s00018-021-04080-6

Autorzy: R. Muñoz-Tamayo, B. Ruiz, P. Blavy, S. Giger-Reverdin, D. Sauvant, S.R.O. Williams, P.J. Moate

Opublikowane w: Animal Open Space, Numer 1, 2022, Strona(/y) 100003, ISSN 2772-6940

Wydawca: Elsevier

DOI: 10.1016/j.anopes.2021.100003

Autorzy: Asnicar, F., Berry, S.E., Valdes, A.M., Nguyen, L.H., Piccinno, G., Drew, D.A., Leeming, E., Gibson, R., Le Roy, C., Khatib, H.A., Francis, L., Mazidi, M., Mompeo, O., Valles-Colomer, M., Tett, A., Beghini, F., Dubois, L., Bazzani, D., Thomas, A.M., Mirzayi, C., Khleborodova, A., Oh, S., Hine, R., Bonnett, C., Capdevila, J., Danzanvilliers, S., Giordano, F., Geistlinger, L., Waldron, L., Davies, R

Opublikowane w: Nature Medicine, Numer 27, 2021, Strona(/y) 321-332, ISSN 1546-170X

Wydawca: Springer Nature (Nature Research)

DOI: 10.1038/s41591-020-01183-8

Autorzy: Huuki, H., Ahvenjärvi, S., Lidauer, P., Popova, M., Vilkki, J., Vanhatalo, A., & Tapio, I

Opublikowane w: Frontiers in Microbiology, 2022, Strona(/y) 3995, ISSN 1664-302X

Wydawca: Frontiers Media
DOI: 10.3389/fmicb.2021.758395

[Microbiome-based environmental monitoring of a dairy processing facility highlights the challenges associated with low microbial-load samples.](#) 

Autorzy: Aoife J. McHugh, Min Yap, Fiona Crispie, Conor Feehily, Colin Hill & Paul D. Cotter
Opublikowane w: NPJ: Science of Food, Numer 5(4), 2021, ISSN 2396-8370
Wydawca: Springer Nature
DOI: 10.1038/s41538-021-00087-2

[Psychrotrophic bacteria equipped with virulence and colonization traits populate ice-cream manufacture environment](#) 

Autorzy: Valentino, V., De Filippis, F., Sequino, G., Ercolini, D.
Opublikowane w: Applied and Environmental Microbiology, 2023, ISSN 0099-2240
Wydawca: American Society for Microbiology
DOI: 10.1128/aem.00765-23

[The gut microbiome of farmed Arctic char \(*Salvelinus alpinus*\) is shaped by feeding stage and nutrient presence.](#) 

Autorzy: Stephen Knobloch, Sigurlaug Skirnisdóttir, Marianne Dubois, Lucie Mayolle, Laetitia Kolypczuk, Françoise Leroi, Alexandra Leeper, Delphine Passerini, Viggó P. Marteinson
Opublikowane w: FEMS Microbes, Numer 5, 2024, Strona(/y) xtae011, ISSN 2633-6685
Wydawca: Oxford University Press
DOI: 10.1093/femsmc/xtae011

[Lactic Acid Fermentation as a Valorising Agent for Brewer's Spent Yeast—Improving the Sensory Quality and Nutritional Potential](#) 

Autorzy: Alice Jaeger, Aylin W. Sahin, Laura Nyhan, Emanuele Zannini & Elke. K Arendt
Opublikowane w: Fermentation, Numer 10(1), 2024, Strona(/y) 54, ISSN 2311-5637
Wydawca: Multidisciplinary Digital Publishing Institute (MDPI)
DOI: 10.3390/fermentation10010054

[Analysis of the milk kefir pan-metagenome reveals four community types, core species, and associated metabolic pathways.](#) 

Autorzy: Liam H. Walsh, Mairéad Coakley, Aaron M. Walsh, Fiona Crispie, Paul W. O'Toole & Paul D. Cotter.
Opublikowane w: iScience, Numer 26(10)108004, 2023, Strona(/y) 108004, ISSN 2589-0042

Wydawca: Elsevier

DOI: 10.1016/j.isci.2023.108004

[Effect of divergence in residual methane emissions on feed intake and efficiency, growth and carcass performance, and indices of rumen fermentation and methane emissions in finishing beef cattle.](#) 

Autorzy: Smith PE, Waters SM, Kenny DA, Kirwan SF, Conroy S, Kelly AK.

Opublikowane w: Journal of Animal Science, Numer 99, 2021, Strona(/y) skab275, ISSN 1525-3163

Wydawca: Oxford University Press

DOI: 10.1093/jas/skab275

[Functional Properties of Brewer's Spent Grain Protein Isolate: The Missing Piece in the Plant Protein Portfolio.](#) 

Autorzy: Alice Jaeger, Aylin W. Sahin, Laura Nyhan, Emanuele Zannini & Elke. K Arendt.

Opublikowane w: Foods, Numer 12(4), 2023, Strona(/y) 798, ISSN 2304-8158

Wydawca: MDPI

DOI: 10.3390/foods12040798

[Apple pomaces derived from mono-varietal Asturian ciders production are potential source of pectins with appealing functional properties](#) 

Autorzy: Calvete-Torre I, Muñoz-Almagro N, Pacheco MT, Antón MJ, Dapena E, Ruiz L, Margolles A, Villamiel M, Moreno FJ

Opublikowane w: Carbohydrate Polymers, Numer 264, 2021, Strona(/y) 117980, ISSN 0144-8617

Wydawca: Pergamon Press Ltd.

DOI: 10.1016/j.carbpol.2021.117980

[A novel ammoniation treatment of barley as a strategy to optimize rumen pH, feed degradability and microbial protein synthesis](#) 

Autorzy: Alejandro Belanche, Ignacio Martín-García, Elisabeth Jiménez, Nicholas N Jonsson and David R Yañez-Ruiz

Opublikowane w: Journal of the Science of Food and Agriculture, Numer 101(12), 2021, Strona(/y) 5541-5549, ISSN 0022-5142

Wydawca: John Wiley & Sons Inc.

DOI: 10.1002/jsfa.11205

[Improved sampling and DNA extraction procedures for microbiome analysis in food processing environments.](#) 

Autorzy: Barcenilla, C., Cobo-Diaz, J.F., De Filippis, F., Valentino, V., Cabrera Rubio, R., O'Neil, D., Mahler de Sanchez, L., Armanini, F., Carlino, N., Blanco-Míguez, A., Pinto, F., Calvete-Torre, I., Sabater, C., Delgado, S., Ruas-Madiedo, P., Quijada, N.M., Dzieciol, M., Skírnisdóttir, S., Knobloch, S., Puente, A., López, M., Prieto, M., Marteinsson, V.T., Wagner, M., Margolles, A., Segata, N.,

Opublikowane w: Nature Protocols, 2024, ISSN 1750-2799

Wydawca: Springer Nature

DOI: 10.1038/s41596-023-00949-x

[Whole resistome analysis in *Campylobacter jejuni* and *Campylobacter coli* genomes available in public repositories](#) 

Autorzy: José F. Cobo-Díaz, Paloma González del Río, Avelino Álvarez-Ordóñez

Opublikowane w: Frontiers in Microbiology, Numer 12, 2021, Strona(/y) 662144, ISSN 1664-302X

Wydawca: Frontiers Media

DOI: 10.3389/fmicb.2021.662144

[Evidence of virulence and antibiotic resistance genes from the microbiome mapping in minimally processed vegetables producing facilities](#) 

Autorzy: Vincenzo Valentino, Giuseppina Sequino, José F. Cobo-Díaz, Avelino Álvarez-Ordóñez, Francesca De Filippis, Danilo Ercolini

Opublikowane w: Food Research International, Numer 162, 2022, ISSN 1873-7145

Wydawca: Elsevier

DOI: 10.1016/j.foodres.2022.112202

[High intake of vegetables is linked to lower white blood cell profile and the effect is mediated by the gut microbiome](#) 

Autorzy: Cristina Menni, Panayiotis Louca, Sarah E. Berry, Amrita Vijay, Stuart Astbury, Emily R. Leeming, Rachel Gibson, Francesco Asnicar, Gianmarco Piccinno, Jonathan Wolf, Richard Davies, Massimo Mangino, Nicola Segata, Tim D. Spector & Ana M. Valdes

Opublikowane w: BMC Medicine, Numer 19, 2021, Strona(/y) 37, ISSN 1741-7015

Wydawca: BioMed Central

DOI: 10.1186/s12916-021-01913-w

[Antimicrobial use and production system shape the fecal, environmental, and slurry resistomes of pig farms](#) 

Autorzy: Oscar Mencía-Ares, Raúl Cabrera-Rubio, José Francisco Cobo-Díaz, Avelino Álvarez-Ordóñez, Manuel Gómez-García, Héctor Puente, Paul D. Cotter, Fiona Crispie, Ana Carvajal, Pedro Rubio and Héctor Argüello

Opublikowane w: Microbiome, Numer 8, 2020, Strona(/y) 164, ISSN 2049-2618

Wydawca: BioMed Central

DOI: 10.1186/s40168-020-00941-7

[Putative probiotics on growth, behavior, and the gut microbiome of farmed Arctic Char \(*Salvelinus alpinus*\)](#) 

Autorzy: Knobloch Stephen, Skírnisdóttir Sigurlaug, Dubois Marianne, Kolypczuk Laetitia, Leroi Francoise, Leeper Alexandra, Passerini Delphine, Marteinsson Viggó

Opublikowane w: Frontiers In Microbiology, Numer 13, 2022, Strona(/y) 912473, ISSN 1664-302X

Wydawca: Frontiers Media

DOI: 10.3389/fmicb.2022.912473

[Kefir4All, a Citizen Science initiative to raise awareness of the roles that microbes play in food fermentation.](#)

Autorzy: Walsh, L.H., Breselge, S., Prado Martin, J.G., Coakley, M., Ferguson, E., Stapleton, A., Crispie, F., O'Toole, P.W. & Cotter, P.D.

Opublikowane w: Journal of Microbiology & Biology Education, 2024, ISSN 1935-7885

Wydawca: ASM

DOI: 10.1128/jmbe.00155-23

Conference proceedings (3)

[28. The effect of phenotypically ranking beef cattle for residual methane output on daily methane emissions, intensity and animal productivity](#)

Autorzy: Paul E. Smith; Sinéad M. Waters; David A. Kenny; Stuart F. Kirwan; Stephen Conroy; Alan K. Kelly

Opublikowane w: Animal Science Proceedings, Numer 12 (1), 2021, Strona(/y) 18, ISSN 2772-283X

Wydawca: Elsevier

DOI: 10.1016/j.anscip.2021.03.029

[39. Dose-response effects of microalgae supplementation on feed intake and weight gain in finishing lambs](#)

Autorzy: O. Cristobal-Carballo, F. Godoy-Santos, J. Brans, S. Morrison, A. Aubry, S. Huws, E. Lewis and T. Yan

Opublikowane w: Animal Science Proceedings, Numer 12(1), 2021, Strona(/y) 29, ISSN 2772-283X

Wydawca: Elsevier

DOI: 10.1016/j.anscip.2021.03.040

[84. Effect of different levels of microalgae supplementation on methane emissions, ruminal fermentation, dietary digestibility and nitrogen retention in finishing lambs](#)

Autorzy: O. Cristobal-Carballo, F. Godoy-Santos, J. Brans, S. Morrison, A. Aubry, S. Huws, E. Lewis and T. Yan

Opublikowane w: Animal Science Proceedings, Numer 12 (1), 2021, Strona(/y)

63, ISSN 2772-283X

Wydawca: Elsevier

DOI: 10.1016/j.anscip.2021.03.085

Ostatnia aktualizacja: 1 Sierpnia 2024

Permalink: <https://cordis.europa.eu/project/id/818368/results/pl>

European Union, 2025