

SHORT SCIENTIFIC CV EOS PROJECT- Ruddy Wattiez

Male, born in Mont-sur-Marchienne, Belgium, February 15, 1963, Belgium citizen

Professional address:

University of Mons; Proteomics and Microbiology (ProtMic) laboratory, 6 av Champs de Mars, 7000, Mons. Ruddy.wattiez@umons.ac.be +3265843779

Current position: Head of the proteomic and Microbiology Laboratory; Ordinary Professor, University of Mons (UMONS), Belgium

Academic Appointments

2018-Now Director of the interuniversity platform Bioprofiling (metabolic and proteomic)
2016-Now Vice-Rector for Research and innovation (UMons)
2016 Dean of sciences Faculty (UMons)
2014 Ordinary Professor
2012-2016 Leading of the Research Institute for Biosciences - (UMons)
2011 Professor (UMons)
2008-2011 Associate Professor (UMons)
2008 Head of the Proteomic and Microbiology Department, (UMons)
2001 PostDoc : Bioscience and Biotechnology Institut : CEA (Grenoble)
2000 PostDoc : Research unit : Beckman SA (Los Angeles USA)
2000-2009 Research Associate of FNRS (Fonds de la Recherche Scientifique)
1998-2000 Scientific collaborator FNRS (Fonds de la Recherche Scientifique)
1992-1998 Professor Assistant, UMH
1990 Doctorate degree (PhD) in Biochemistry (University of Mons)
1986 B.S. in Chemical Sciences (University of Mons)

Main research descriptors:

Proteomic and metabolic tool development for environmental and photosynthetic bacteria, multi-omics data associated to environmental microbiology. Molecular and cellular bases of microbial adaptation in single cell and community levels. **Mass spectrometry-based functional proteomics.**

Current Projects:

Since 2008, more than 50 research projects (PI or Co-PI). Main Financial sources: European (FP7,H2020 ESA,...)

2018-2022 Biorad2 (PI): Effect of alternative nitrogen sources on the oxygen production by *Arthrospira* sp.PCC 80005. European Space Agency (ESA)

2019-2022 URINIS (Co-PI). Urine denitrification in space. ESA

2020-2023 Microbial community associated to platisphere (PI) – functional analysis. FNRS

2019-2022 Stellar project (Co-PI) – H2020

2017-2023 Development of a bioprofiling platform (PI) (European and regional project).

2019-2022 Purge to Value, (Co-PI), PINT Multi FNRS

2020-2025 C2W (PI) Marie SKŁODOWSKA-CURIE Fellowship action. H2020

2021-2024 Sources, impacts and solutions for plastics in South East Asia coastal environments. (Partner for microbial aspects)). NERC-NRF.

2017-2023 Algotech: microalgae in circular economy (Co-PI). (European and regional project)

Supervision and Main teaching activities (UMONS):

Prof. Wattiez is promoter of 26 PhD students (18 theses completed, 8 ongoing (5 co-promoters)). He has been involved in the supervision of 14 postdoc projects (10 completed, 4 ongoing).

Teaching activities:

- Structural Biochemistry - Metabolic Biochemistry (Undergraduate course)
- Structural and Functional Proteomics - mass spectrometry – Macromolecular Biochemistry – Integrative Biology (Graduate course))

Peer reviewing for the following international journals: Electrophoresis, Journal of Proteome Research, Proteomics, Mass Spectrometry Reviews, Journal of the American Society of Mass Spectrometry, mass spectrometry Journal, Biological Chemistry, Journal of Chromatography A, Journal of Chromatography B, Biochemistry, Ecotoxicology and Environmental safety, Molecular and Cellular Proteomics, Proteomics, Microbiology, ISME J, Nature and Appl Environ Microbiol.

Reviewing of grant applications for The Heart & Lung Academic Healthcare Centre (UK), the Italian Telethon Grant, the FNRS, NFWO, The Walloon Region, the Brussels Capital region, the Belgian Science Policy Office and for the French Ministry (Fr) IBISA coordination for Biotechnology platforms and ANR.

List of the international contacts and the international networks (last 5 years) International contacts:

- Prof. J. Garin, Research Institute for life Sciences and Technology (IRTSV institute, Grenoble, France), and “Large Scale Biology” research unit (CEA/INSERM/UJF U1038). Grenoble, France
- Dr. C. Lasseur, ESTEC, European Space Agency, Netherland.
- Dr. G. Billon géosystèmes, Univ. Lille 1. France.
- Prof. Søren J. Sørensen Section of Functional Genomics, Department of Biology, University of Copenhagen, Copenhagen, Denmark.
- Dr. S.V. Singh, Principal Scientist, Veterinary Microbiology. Animal Health Division Central Institute for Research on Goats, Makhdoom, Post. FARAH, Dist. MATHURA, INDIA.
- Prof. Yehuda (Hudi) Benayahu, Department of Zoology, Tel Aviv University.
- Prof. Dmitry Shchukin, Stephenson Institute for Renewable Energy, University of Liverpool.
- Prof. Ana Otero, Department of Microbiology and Parasitology, University of Santiago de Compostela.
- Dr. Nathalie Bissonnette, Agriculture and Agri-Food Canada. Research Scientist - Adjunct Professor (Sherbrooke University).
- Dr. med. Dirk Wagner. Zentrum für Infektiologie und Reisemedizin & Centrum für Chronische Immundefizienz (CCI). Universitätsklinikum Freiburg.
- Prof. G. Dussap, Dept. of Chemical & Biochemical Engineering, University Blaise Pascal, Clermont-Ferrand, France.
- Dr. J. Brunet, Sherpa Engineering, Nanterre, France
- Prof. F. Godia, Unit of chemical engineering, University of Barcelona, Barcelona, Spain.
- Prof. M. Dixon, Department of Horticultural Science, University of Guelph, Canada Prof.
- Pirkko Mäenpää, Department of Biosciences, Abo Akademi University, Turku, Finland.
- Prof. Matallana-Surget, Biological and Environmental Sciences (Room 3A116), School of Natural Sciences, University of Stirling. Scotland

Visitor Professors during last five years

2015 : Dr Rabeay Hassan (PostDoc – Erasmus Mundus)

2016 : Prof. Ghosh Robin, University of stuttgart.. Visiting professor.

2016 : Prof. Hussein Ramadan – University of saskatchewan, Canada. Visiting professor.

2016 : Prof. Toru Hisabori, Tokyo Institut of Technology. Japan. Visiting Professor

2017 : Prof. S. Matallana Surget. University of stirling. UK. Visiting professor.

2017 : Prof Ghosh R. and Dr. Grammel H - Max Planck Institute. De. Visiting professor.

2019 : Prof. Søren J. Sørensen University of Copenhagen, Copenhagen, Denmark. Visiting professor

2020 : Prof. Maria deRosa, University of Carleton, Canada. Visiting professor

2021 : prof. D. Springael, KUL. Sabbatic Year

International networks

- Non Mycobacterium tuberculosis European Network.
- MELISSA (Micro-Ecological Life Support System Alternative) Network of the European Space Agency (ESA).
- European proteomic association (Eupa). Belgian representative of the Eupanetwork.

Other scientific activities

2012 - Now	Scientific director of the Biotech group of the research center MateriaNOva
2012 - 2014	Chairman of the Belgium Proteomic association (BePa)
2003 - 2019	leading of the proteomic FNRS contact group

2009 - 2017	Member of the board of the Belgium society of biochemistry and molecular biology
2009 - 2017	member of the Administrator Board of the research center Immunehealth
2015 - Now	Invited member of the administrator board of the WelBio
2016 - Now	Member of the administrator Board of WagraLim
2016 - Now	Member of the administrator board of MateriaNOva research center
2016 - Now	Member of the Scientific board of Syngulon SA
2016 - Now	Member of the Coma FNRS
2017 - Now	Member of the patent committee -UMONS
2020 - Now	Coordinator of the Belgium platform federal COVID 19 : UMONS-JOLIMONT5
2021 - Now	Member of the administrator Board of Cetic research center

Scientific impact and other scientific output

Publications: 193 ; h factor of 50; I10 factor of 158, 8427 citations

2 Patents

Patenting

Patent N° 17150194.3-144. Activators of plant metabolic changes from Cyanobacteria. Cabrera Juan Carlos and Ruddy Wattiez

Patent N° 17176170.3-1466. LDL-cholesterol lowering cell extract and food supplement. Mastroleo F., Robertus Suters and Ruddy Wattiez

Published works, as author, co-author or editor

Book chapters or participation in a collective work, as author or co-author

1. Kindt Nadège, Descamps Géraldine, Lechien Jérôme, Rummelink Myriam, Colet Jean-Marie, Wattiez Ruddy, Berchem Guy, Journe Fabrice, Saussez Sven, (2019). "Involvement of HPV Infection in the release of macrophage migration inhibitory factor in head and neck squamous cell carcinoma." in *Journal of Clinical Medicine*, mdpi, 978-3- 03943-564-7
2. Matallana-Surget S., Jagtap PD, Griffin TJ, Beraud Mélanie, Wattiez Ruddy, (2018). "Comparative Metaproteomics to Study Environmental Changes" in *IN METAGENOMICS: PERSPECTIVES, METHODS, AND APPLICATIONS*, Elsevier
3. Deschoenmaeker Frédéric, Leroy Baptiste, Wattiez Ruddy, (2017). "Proteome Analysis of Phototrophic Adaptation" in *Modern Topics in the Phototrophic Prokaryotes*, Editions Springer, 978-3-319-51363-8
4. Leroy Baptiste, Houyoux Nicolas, Matallana-Surget S., Wattiez Ruddy, (2012). "Gel free proteome analysis - isotopic labeling vs. label free approaches for quantitative proteomics" in *Integrative proteomic*, INTECH, 978-953- 51-0070-6
5. Leroy Baptiste, Falmagne Paul, Wattiez Ruddy, (2008). "Sample Preparation of Bronchoalveolar Lavage Fluid" in *2D PAGE: Sample Preparation and Fractionation*, Humana Press, 978-1-58829-722-8

Articles published in international peer-reviewed journals

1. Alice Delacuvellerie, Samira Benali, Valentine Cyriaque, Sébastien Moins, Jean-Marie Raquez, Sylvie Gobert, Ruddy Wattiez (2021). » Microbial biofilm composition and polymer degradation of compostable and non-compostable plastics immersed in the marine environment” *Journal of Hazardous Materials*.126526.
2. Clément Lozano, Charlotte Lee, Ruddy Wattiez, Philippe Lebaron, Sabine Matallana-Surget (2021). « Unraveling the molecular effects of oxybenzone on the proteome of an environmentally relevant marine bacterium”. *Science of The Total Environment*. 793, 148431.
3. Valentine Cyriaque, Jonas Stenl kke Madsen, Laurence Fievez, Baptiste Leroy, Lars H Hansen, Fabrice Bureau, S ren J S rensen, Ruddy Wattiez (2021). “Lead Drives Complex Dynamics of a Conjugative Plasmid in a Bacterial Community”. *Frontiers in microbiology*. 12, 990.
4. Federica Ruggero, Rob CA Onderwater, Emiliano Carretti, St phanie Roosa, Samira Benali, Jean-Marie Raquez, Riccardo Gori, Claudio Lubello, Ruddy Wattiez (2021). “Degradation of film and rigid bioplastics during the thermophilic phase and the maturation phase of simulated composting”. *Journal of Polymers and the Environment*. 1-14.
5. Loyez M d ric, Lobry Maxime, Hassan Eman M., DeRosa Maria C., Caucheteur Christophe, Wattiez Ruddy, (2021). "HER2 breast cancer biomarker detection using a sandwich optical fiber assay" *Talanta*. 221, 121452,
6. Renard Henri-Fran ois, Tyckaert Fran ois, Lo Giudice Cristina, Hirsch Thibault, Valades-Cruz Cesar Augusto, Lemaigre Camille, Shafaq-Zadah Massiullah, Wunder Christian, Wattiez Ruddy, Johannes Ludger, van der Bruggen Pierre, Alsteens David, Morsomme Pierre, (2020). "Endophilin-A3 and Galectin-8 control the clathrin-independent endocytosis of CD166" *Nature Communications*, 11(1), 1-13
7. Cuellar Bermudez Sara Paulina, Kilimtzidi Evmorfia, Devaere olien, Goiris Koen, Gonzalez-Fernandez Cristina, Wattiez Ruddy, Muylaert Koenraad, (2020). "Harvesting of *Arthrospira platensis* with helicoidal and straight trichomes using filtration and centrifugation" *Separation Science and Technology*, 55(13), 2381-2390
8. Cyriaque Valentine, Geron Augustin, Billon Gabriel, Nesme Joseph, Werner Johannes, Gillan David, Sorensen Soren J, Wattiez Ruddy, (2020). "Metal-induced bacterial interactions promote diversity in river-sediment microbiomes" *FEMS Microbiology Ecology*, 96(6), fiae076
9. Chang Roger L, Stanley Julian A, Robinson Matthew C, She Joel W, Li Zhanwen, Chan Yujia A, Omdahl, Ashton R, Wattiez Ruddy, Godzik Adam, Matallana-Surget S., (2020). "Protein structure, amino acid composition and sequence determine proteome vulnerability to oxidation-induced damage" *EMBO Journal*. 39 (23), e104523,
10. Bayon-Vicente Guillaume, Zarbo Sarah, Deutschbauer A, Wattiez Ruddy, Leroy Baptiste, (2020). "Analysis of the photoheterotrophic assimilation of valerate and associated PHA production by *Rhodospirillum rubrum*" *Applied and Environmental Microbiology*. 86 (18), e00901-20, 2020
11. Lobry Maxime, Loyez M d ric, Chah Karima, Hassan Eman M., Goormaghtigh Erik, DeRosa Maria C., Wattiez Ruddy, Caucheteur Christophe, (2020). "HER2 biosensing through SPR-envelope tracking in plasmonic optical fiber gratings" *Biomedical Optics Express*. 11 (9), 4862-4871,
12. Cai Shunshuo, Pan Haixia, Gonzalez Vila Alvaro, Guo Tuan, Gillan D.C., Wattiez Ruddy, Caucheteur Christophe, (2020). "Selective detection of cadmium ions using plasmonic optical fiber gratings functionalized with bacteria" *Optics Express*, 28(13), 19740, 19749
13. Kang Victor, Lengerer Birgit, Wattiez Ruddy, Flammang Patrick, (2020). "Molecular insights into the powerful mucus-based adhesion of limpets (*Patella vulgata* L.)" *Open Biology*, 10(200019), <http://dx.doi.org/10.1098/rsob.20.0019>
14. Lefevre Mathilde, Flammang Patrick, Aranko A. Sesilja, Linder Markus B., Scheibel Thomas, Humenik Martin, Leclercq Maxime, Surin Mathieu, Tafforeau Lionel, Wattiez Ruddy, Lecl re Philippe, Hennebert Elise, (2020). "Sea star-inspired recombinant adhesive proteins self-assemble and adsorb on surfaces in aqueous environments to form cytocompatible coatings" *Acta Biomaterialia*, 112, 62-74, <https://doi.org/10.1016/j.actbio.2020.05.036>
15. De Meur Quentin, Deutschbauer A, Koch Matthias, Bayon-Vicente Guillaume, Cabecas-Segura Paloma, Wattiez Ruddy, Leroy Baptiste, (2020). "New perspectives on butyrate assimilation in *Rhodospirillum rubrum* S1H under photoheterotrophic conditions" *BMC Microbiology*. 20, 1-20
16. Bayon-Vicente Guillaume, Wattiez Ruddy, Leroy Baptiste, (2020). "Global Proteomic Analysis Reveals High Light Intensity Adaptation Strategies and Polyhydroxyalkanoate Production in *Rhodospirillum rubrum* Cultivated With Acetate as Carbon Source" *Frontiers in Microbiology*, 11, doi: 10.3389/fmicb.2020.00464.
17. Lobry Maxime, Loyez M d ric, Hassan Eman M., Chah Karima, DeRosa Maria C., Goormaghtigh Erik, Wattiez Ruddy, Caucheteur Christophe, (2020). "HER2 biosensing through SPR-envelope tracking in plasmonic optical fiber gratings" *Biomedical Optics Express*. 11 (9), 4862-4871
18. Loyez M d ric, Hassan Eman, Lobry Maxime, Liu Fu, Caucheteur Christophe, Wattiez Ruddy, DeRosa Maria, Willmore William, Albert Jacques, (2020). "Rapid detection of circulating breast cancer cells using a multi-resonant optical fiber aptasensor with plasmonic amplification" *ACS Sensors*, 5(2):454-463.
19. Cyriaque Valentine, Jacquiod Samuel, Riber Leise, Abu Al-Soud Waleed, Gillan David, Sorensen Soren J, Wattiez Ruddy, (2020). "Selection and propagation of IncP conjugative plasmids following long-term anthropogenic metal pollution in river sediments" *Journal of Hazardous Materials*, 382, 121173, 10.1016/j.jhazmat.2019.121173

20. Géron Augustin, Werner Johannes, Wattiez Ruddy, Lebaron Philippe, Matallana-Surget Sabine, (2019). "Deciphering the Functioning of Microbial Communities: Shedding Light on the Critical Steps in Metaproteomics" *Frontiers in Microbiology*. 10:2395.
21. Savocco Jérôme, Nootens Sylvain, Afokpa Wilhelmine, Bausart Mathilde, Chen Xiaoqian, Villers Jennifer, Renard Henri-Francois, Prévost Martine, Wattiez Ruddy, Morsomme Pierre, (2019). "Yeast α -arrestin Art2 is the key regulator of ubiquitylation-dependent endocytosis of plasma membrane vitamin B1 transporters" *PLoS Biology*, 17(10), e3000512
22. Raes Bart, Horemans Benjamin, Rentsch Daniel, T'Syen j, Ghequire GK, De Mot R, Wattiez Ruddy, Kohler Hans- Peter, Springael D., (2019). "Aminobacter sp. MSH1 Mineralizes the Groundwater Micropollutant 2,6-Dichlorobenzamide through a Unique Chlorobenzoate Catabolic Pathway" *Environmental Science and Technology*, 53(17), 10146, 10156
23. Zeng S, Constant Patricia, Yang Dong, Baulard Alain, Lefèvre P, Daffé M, Wattiez Ruddy, Fontaine V., (2019). "Cpn60. 1 (GroEL1) contributes to mycobacterial Crabtree effect: implications for biofilm formation" *Frontiers in Microbiology*, 10(1149), 10.3389/fmicb.2019.01149
24. Fossepre Mathieu, Trevisan Marie, Cyriaque Valentine, Wattiez Ruddy, Beljonne David, Richeter Sébastien, Clément Sébastien, Surin Mathieu, (2019). "Detection of the Enzymatic Cleavage of DNA through Supramolecular Chiral Induction to a Cationic Polythiophene" *ACS Applied Bio Materials*, 2, 2125-2136
25. Cuellar Bermudez Sara Paulina, Kilimtzi Evmorfia, Devaere Jolien, Goiris Koen, Gonzales-Fernandez Cristina, Wattiez Ruddy, Muylaert Koenraad, (2019). "Harvesting of *Arthrospira platensis* with helicoidal and straight trichomes using filtration and centrifugation" *Separation Science and Technology*
26. Strickaert Aurélie, Corbet Cyril, Spinette Selim-Alex, Craciun Ligia, Dom Geneviève, Andry Guy, Larsimont Denis, Wattiez Ruddy, Dumont Jacques, Maenhaut Carine, (2019). "Reprogramming of Energy Metabolism: Increased Expression and Roles of Pyruvate Carboxylase in Papillary Thyroid Cancer" *Thyroid*, (6):845-857
27. Delacuvellerie Alice, Cyriaque Valentine, Gobert Sylvie, Benali Samira, Wattiez Ruddy, (2019). "The plastsphere in marine ecosystem hosts potential specific microbial degraders including *Alcanivorax borkumensis* as a key player for the low-density polyethylene degradation" *Journal of Hazardous Materials*, 380, 120899, 120909.
28. Loyez Médéric, Lobry Maxime, Wattiez Ruddy, Caucheteur Christophe, (2019). "Optical Fiber Gratings Immunoassays" *Sensors*. 19(11):2595.
29. Loyez Médéric, Larrieu Jean-Charles, Chevinau Samia, Rimmelink Myriam, LEDUC Dimitri, Bondue Benjamin, Lambert Pierre, Devière Jacques, Wattiez Ruddy, Caucheteur Christophe, (2019). "In situ cancer diagnosis through online plasmonics" *Biosensors and Bioelectronics*, 131, 104-112
30. Contreras-Mogollon Angela, Leroy Baptiste, Mariage Pierre-Antoine, Wattiez Ruddy, (2019). "Proteomic analysis reveals novel insights into tanshinones biosynthesis in *Salvia miltiorrhiza* hairy roots" *Scientific Reports*, 0.1038/s41598-019-42164-3
31. Kindt Nadège, Descamps Géraldine, Lechien Jérôme, Rimmelink Myriam, Colet Jean-Marie, Wattiez Ruddy, Berchem G, Journe Fabrice, Saussez Sven, (2019). "Involvement of HPV Infection in the Release of Macrophage Migration Inhibitory Factor in Head and Neck Squamous Cell Carcinoma." *Journal of Clinical Medicine*, 1#0(8), pii: E75.
32. Zeng S, Soetaert K, Ravon F, Vandeput M, Bald D, Kauffmann Jean-Michel, Mathys V, Wattiez Ruddy, Fontaine V., (2019). "Isoniazid bactericidal activity involves electron transport chain perturbation." *Antimicrobial Agents and Chemotherapy*(pii: AAC.01841-18)
33. Loyez Médéric, Ribaut Clotilde, Caucheteur Christophe, Wattiez Ruddy, (2019). "Functionalized gold electroless-plated optical fiber gratings for reliable surface biosensing" *Sensors and Actuators. B, Chemical*, 280, 54-61
34. Léonet Aline, Delroisse Jérôme, Schuddinck Christopher, Wattiez Ruddy, Jangoux Michel, Eeckhaut Igor, (2019). "Thioredoxins induce oocyte maturation in holothuroids (Echinodermata)" *Aquaculture*, 510, 293-301
35. Caucheteur Christophe, Loyez Médéric, Gonzalez Vila Alvaro, Wattiez Ruddy, (2018). "Evaluation of gold layer configuration for plasmonic fiber grating biosensors" *Optics Express*, 26(18), 24154-24163, 10.1364/OE.26.024154
36. Sachdeva Neha, Giambarresi Giuseppe, Poughon Laurent, Cabrera Juan Carlos, Leroy Baptiste, Lasseur Christophe, Dussap C.G., Wattiez Ruddy, (2018). "Assessment of transient effects of alternative nitrogen sources in continuous cultures of *Arthrospira* sp. using proteomic, modeling and biochemical tools" *Bioresource Technology*, 267, 492-501, 10.1016/j.biortech.2018.07.062.
37. Loyez Médéric, Albert Jacques, Caucheteur Christophe, Wattiez Ruddy, (2018). "Cytokeratins Biosensing Using Tilted Fiber Gratings" *MDPI Biosensors*, 8(3)(74), 1-8
38. T'Syen j, Raes Bart, Horemans Benjamin, Tassoni Raffaella, Leroy Baptiste, Lood Cédric, van Noort Vera, Rob Lavigne, Wattiez Ruddy, Kohler Hans-Peter, Springael D., (2018). "Catabolism of the groundwater micropollutant 2,6-dichlorobenzamide beyond 2,6-dichlorobenzoate is plasmid encoded in *Aminobacter* sp.MSH1" *Applied Microbiology and Biotechnology*. 102(18):7963-7979
39. De Meur Quentin, Deutschbauer A, Koch M, Wattiez Ruddy, Leroy Baptiste, (2018). "Genetic Plasticity and Ethylmalonyl Coenzyme A Pathway during Acetate Assimilation in *Rhodospirillum rubrum* S1H under Photoheterotrophic Conditions." *Applied and Environmental Microbiology*. 84(3):e02038-17.
40. Sachdeva Neha, Mascolo Cyril, Wattiez Ruddy, Leroy Baptiste, (2018). "Embedding photosynthetic biorefineries with circular economies: Exploring the waste recycling potential of *Arthrospira* sp. to produce high

- quality by-products" *Bioresource Technology*, 268, 237-246
41. Rens C, Laval F, Wattiez Ruddy, Lefèvre P, Dufrasne F, Daffé M, Fontaine V, (2018). "I3-Ag85 effect on phthiodiolone dimycocerosate synthesis" *Tuberculosis*, 108, 93-95
 42. Jacquiod Samuel, Cyriaque Valentine, Riber Leise, Abu Al-Soud Waleed, Gillan David, Wattiez Ruddy, Sorensen Soren J, (2018). "Long-term industrial metal contamination unexpectedly shaped diversity and activity response of sediment microbiome" *Journal of Hazardous Materials*, 344, 299-307, <https://doi.org/10.1016/j.jhazmat.2017.09.046>
 43. Ilgrande C, Leroy Baptiste, Wattiez Ruddy, Vlaeminck SE, Boon Nico, Clauwaert P, (2018). "Metabolic and Proteomic Responses to Salinity in Synthetic Nitrifying Communities of Nitrosomonas spp. and Nitrobacter spp." *Frontiers in Microbiology*, 9, 2914-2920
 44. Napoles MC, Cabrera Pino Juan Carlos, Wegria Guillaume, Onderwater Robertus, Wattiez Ruddy, Hernandez Ionel, Costales Daimy, Rossi Alejandro, Andriolo Luisina, Gonzalez Gustavo, (2018). "Inducción de señales en la interacción Mesorhizobium cicerii-Cicer arietinum L" *Cultivos Tropicales*, 39(2), 101-107
 45. Matallana-Surget Sabine, Werner J, Wattiez Ruddy, Lebaron K, Intertaglia L, Regan Callum, Morris James, Teeling Hanno, Ferrer Manuel, Golyshin Peter, Gerogiorgis Dimitrios, Reilly Simon, Lebaron P, (2018). "Proteogenomic analysis of Epibacterium mobile BBCC367, a relevant marine bacterium isolated from the South Pacific Ocean" *Frontiers in Microbiology*, 9, 3125
 46. Vancsok C., Leroy Baptiste, Stalin Raj V., Wattiez Ruddy, Penaranda M, Jazowiecka-Rakus J, Boutier M., Gao Y., Wilkie G. S., Gillet L, Suarez N. M., Davison A. J., Vanderplasschen A., (2017). "Proteomic and functional analyses of the virion transmembrane proteome of cyprinid herpesvirus 3" *Journal of Virology*. 91(21):e01209-17.
 47. Ribaut Clotilde, Loyez Médéric, Larrieu Jean-Charles, Chevineau Samia, Lambert Pierre, Rimmelin Myriam, Wattiez Ruddy, Caucheteur Christophe, (2017). "Cancer biomarker sensing using packaged plasmonic optical fiber gratings: Towards in vivo diagnosis." *Biosensors & Bioelectronics*, 92, 449-456
 48. Rens C, Laval F, Wattiez Ruddy, Lefèvre P, Dufrasne François, Daffé M, Fontaine V., (2017). "I3-Ag85 effect on phthiodiolone dimycocerosate synthesis" *Tuberculosis (Edinburgh, Scotland)*, 108, 93-95
 49. Arcolia V., Journe Fabrice, Wattiez Ruddy, Leteurte E, Renaud F, Gabius HJ, Rimmelin Myriam, Decaestecker Christine, Rodriguez A., Boutry Sébastien, Laurent Sophie, Saussez Sven, (2017). "Galectin-1 is a diagnostic marker involved in thyroid cancer progression" *International Journal of Oncology*, 51(3), 760-770
 50. Deschoenmaeker Frédéric, Bayon-Vicente Guillaume, Sachdeva Neha, Depraetere Orily, Pino Juan Carlos, Leroy Baptiste, Muylaert K, Wattiez Ruddy, (2017). "Impact of different nitrogen sources on the growth of Arthrospira sp. PCC 8005 under batch and continuous cultivation - a biochemical, transcriptomic and proteomic profile" *Bioresource Technology*, 237, 78-88, [10.1016/j.biortech.2017.03.145](https://doi.org/10.1016/j.biortech.2017.03.145)
 51. Dernivoix K, Roupie V., Welby S, Roelandt S, Viart Sophie, Letesson J.J., Wattiez Ruddy, Huygen K., Govaerts M., (2017). "Field performance of six Mycobacterium avium subsp. paratuberculosis antigens in a 20h interferon gamma release assay in Belgium." *Veterinary Immunology and Immunopathology*, 189, 17-27
 52. Pérez V, Hengst M, Kurte L, Dorador C, Wade H, Wattiez Ruddy, Molina V, Matallana-Surget S., (2017). "Life under extreme UV radiation: A comparative proteomics study of Rhodobacter sp, isolated from high altitudewetlands in Chile" *Frontiers in Microbiology*. 8:1173
 53. Guichard MJ, Patil HP, Koussoroplis SJ, Wattiez Ruddy, Leal T, Vanbever R, (2017). "Production and characterization of a PEGylated derivative of recombinant human deoxyribonuclease I for cystic fibrosis therapy." *International Journal of Pharmaceutics*, 524(1-2), 159-167
 54. Bruffaerts N, Vluggen C, Roupie V., Duytschaever L, Van Den Poel C, Denoël J, Wattiez Ruddy, Letesson J.J., Fretin David, Rigouts L, Chapeira O, Mathys V, Saegerman C, Huygen K., (2017). "Virulence and immunogenicity of genetically defined human and porcine isolates of M. avium subsp. hominissuis in an experimental mouse infection." *PLoS ONE*, 12(2):e0171895
 55. Houyoux Nicolas, Wattiez Ruddy, Ris Laurence, (2017). "A proteomic analysis of fear memory reveals neuroglial plasticity in the rat dentate gyrus" *European Journal of Neuroscience*, 46(6), 2177-2189, doi: [10.1111/ejn.13664](https://doi.org/10.1111/ejn.13664)
 56. Demeuldre Mélanie, Hennebert Elise, Bonneel Marie, Lengerer Birgit, Van Dyck Séverine, Wattiez Ruddy, Ladurner Peter, Flammang Patrick, (2017). "Mechanical adaptability of sea cucumber Cuvierian tubules involves a mutable collagenous tissue" *Journal of Experimental Biology*, 220, 2108-2119, doi: [10.1242/jeb.145706](https://doi.org/10.1242/jeb.145706)
 57. Caucheteur Christophe, Malachovska Viera, Ribaut Clotilde, Wattiez Ruddy, (2017). "Cell sensing with near-infrared plasmonic optical fiber sensors" *Optics & Laser Technology*, 78, 116-121
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