

✓ **Information about the scientific director of Andrei Vladislavovich Gannesen's thesis**

« *Structure and composition of mono- and multispecies biofilms of cutaneous and environmental bacteria: effects of cosmetics and some other biologically active compounds* »

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List of main scientific publications of last 5 years: (At least 5)

- 2014.1** DECOIN V., BARBEY C., BERGEAU D., LATOUR X., FEUILLOLEY M.G.J., ORANGE N., MERIEAU A. A Type VI secretion system is involved in *Pseudomonas fluorescens* bacterial competition. *PLoS ONE* 01/2014; 9(2):e89411; doi:10.1371/journal.pone.0089411 (IF2012 = 3.730)
- 2014.2** FLORES-RIBEIRO A., BODILIS J., ALONSO L., BUQUET S., FEUILLOLEY M., DUPONT J-P., PAWLAK, B. Occurrence of multi-antibiotic resistant *Pseudomonas* spp. in drinking water produced from karstic hydrosystems. *Sci. Total Environ.* 490:370-378, 2014 doi: 10.1111/1751-7915.12156 (IF2013 = 3.258).
- 2014.3** BOUFFARTIGUES E., DUCHESNE R., BAZIRE A., SIMON M., MAILLOT O., DUFOUR A., FEUILLOLEY M., ORANGE N., CHEVALIER S. Sucrose favors *Pseudomonas aeruginosa* pellicle production at least partly through SigX. *FEMS Microbiol. Lett.* 356:193-200, 2014, doi: 10.1111/1574-6968.12482 (IF2013 = 2.049).
- 2014.4** HILLION M., MIJOUIN L., N'DIAYE A., PERCOCO G., ENAULT J., FOLLET-GUEYE M-L, YVERGNAUX F., LEFEUVRE L., FEUILLOLEY M.G.J. *Pseudomonas fluorescens*, a forgotten member of the human cutaneous microflora sensible to skin communication and defence peptides. *Int. J. of Curr. Microbiol. Appl. Sci.* 3 : 910-925, 2014 (IF2014 = 2.015)
- 2014.5** DUCLAIRIOIR POC C., VERDON J., GROBOILLOT A., BARREAU M., TOUCOUROU H., MIJOUIN L., LECLERC C., MAILLOT O., KONDAKOVA T., HULEN C., MORIN J-P., FEUILLOLEY M., MERIEAU A., ORANGE N. Airborne fluorescent pseudomonads : What potential for virulence? *Int. J. Curr. Microbiol. Appl. Sci.* 3: 708-722, 2014 (IF2014 = 2.015)
- 2014.6** LENEVEU-JENVIRIN C., CONNIL N., BOUFFARTIGUES E., PAPADOPOULOS V., FEUILLOLEY M.G.J., CHEVALIER S. Structure-to-function relationships of bacterial translocator protein (TSPO): a focus on *Pseudomonas*. *Frontiers Microbiol.* 5: 631, 2014; doi: 10.3389/fmicb.2014.00631 (IF2013 = 3.9)
- 2015.1** AL NABHANI Z., MONTCUQUET N., BIAGGINI K., DUSSAILLANT M., ROY M., MADI A., JALLANE J., FEUILLOLEY M., HUGOT JP., CONNIL N., BARREAU F. *Pseudomonas fluorescens* alters the intestinal barrier function by modulating IL-1 β expression through hematopoietic NOD2 signaling. *Inflamm. Bowel Dis.* 21: 543-555, 2015; doi: 10.1097/MIB.0000000000000291 (IF2013 = 5.475)
- 2015.2** HULEN C., LOMRI N., FEUILLOLEY M., LESOUHAITIER O. Infectious bacteria resistance to antibiotics: to which therapeutic strategies in human infectious diseases? *J. Bacteriol. Parasitol.* Editorial Article (IF2013 = 1.74)
- 2015.3** GUYARD-NICODÈME M., GERAULT E., PLATTEEL M., PESCHARD O., VERON W., MONDON P., SVINAREFF P., FEUILLOLEY M.G.J. Development of a multi-parametric *in vitro* model of skin sensitization. *J. Applied Toxicol.* 35 : 48-58, 2015 ; doi : 10.1002/jat.2986 (IF2012 = 2.597)
- 2015.4** KONDAKOVA T., MERLET-MACHOUR N., CHAPELLE M., PRETERRE D., DIONNET F., FEUILLOLEY M.G.J., ORANGE N., DUCLAIRIOIR POC C. A new study of bacterial lipidome: HPTLC-MALDI-TOF Imaging enlightening presence of phosphatidylcholine in the airborne *Pseudomonas fluorescens* MFAF76a. *Res. Microbiol* 166:1-8, 2015; doi: 10.1016/j.resmic.2014.11.003 (IF2013 = 2.826)

- 2015.5** DECOIN V., GALLIQUE M., BARBEY C., LE MAUFF F., DUCLAIROR POC C., FEUILLOLEY M.G.J., ORANGE N., MERIEAU A. A *Pseudomonas fluorescens* type VI secretion system is related to mucoidy, motility and bacterial competition. *BMC Microbiology*, 15:72 2015, doi:10.1186/s12866-015-0405-9 (IF2013= 3.10)
- 2015.6** MONDON P., HILLION M., PESCHARD O., ANDRE N., MARCHAND T., DORIDOT E., FEUILLOLEY M.G.J., PIONNEAU C., CHARDONNET S. Evaluation of dermal extracellular matrix and epidermal-dermal junction modifications using matrix-assisted laser desorption/ionization mass spectrometric imaging, in vivo reflectance confocal microscopy, echography, and histology: effect of age and peptide applications. *J. Cosmetic Dermatol.* 03/2015; doi:10.1111/jocd.12135. (IF2013= 1.00)
- 2015.7** REYES DARIAS J-A, GARCÍA V., RICO-JIMÉNEZ M., CORRAL LUGO A., LESOUHAITIER O., JUÁREZ HERNÁNDEZ D., YANG Y., FEUILLOLEY M., MUÑOZ ROJAS J., SOURJIK V., KRELL T. Specific gamma-aminobutyrate chemotaxis in *Pseudomonads* with different lifestyle. *Mol. Microbiol.* 97:488-501, 2015; doi: 10.1111/mmi.13045 (IF2013= 5.026)
- 2015.8** KONDAKOVA T., D'HEYGÈRE F., FEUILLOLEY M.G.J., ORANGE N., HEIPIEPER H.J., DUCLAIROR POC C. Glycerophospholipid synthesis and functions in *Pseudomonas*. *Chem. Phys. Lipids*. 190:27-42, 2015; doi: 10.1016/j.chemphyslip.2015.06.006 (IF2013=2.68)
- 2015.9** BOUFFARTIGUES E., MOSCOSO J., DUCHESNE R., ROSAY T., FITO-BONCOMPTE L., GICQUEL G., MAILLOT O., BÉNARD M., BAZIRE A., BRENNER-WEISS G., LESOUHAITIER O., LEROUGE P., DUFOUR A., ORANGE N., FEUILLOLEY M.G.J., OVERHAGE J., FILLoux A.M., CHEVALIER S. The absence of the *Pseudomonas aeruginosa* OprF protein leads to increased biofilm formation through variation in c-di-GMP level. *Front. Microbiol.* 6:630, 2015; doi: 10.3389/fmicb.2015.00630 (IF2015/16=4.53)
- 2015.10** BIAGGINI K., BARBEY C., BORREL V., FEUILLOLEY M., DÉCHELOTTE P., CONNIL N. The pathogenic potential of *Pseudomonas fluorescens* on enterocytes can be modulated by Serotonin, Substance P and Epinephrine. *Arch. Microbiol.* 197:983-990, 2015; doi: 10.1007/s00203-015-1135-y (IF2014/15 = 1.667)
- 2015.11** ROSAY T., BAZIRE A., DIAZ S., CLAMENS T., BLIER A-S, MUQUIN L., HOFFMANN B., SERGENT J-A, BOUFFARTIGUES E., BOIREAU W., VIEILLARD J., HULEN C., DUFOUR A., HARMER N.J., FEUILLOLEY M.G.J., LESOUHAITIER O. *Pseudomonas aeruginosa* expresses a functional human natriuretic peptide receptor ortholog: involvement in biofilm formation. *mBio* 6: e01033-15, 2015; doi: 10.1128/mBio.01033-15 (IF2013 = 6.875)
- 2015.12** LENEVEU-JENVIRIN C., BOUFFARTIGUES E., MAILLOT O., CORNELIS P., FEUILLOLEY M.G.J., CONNIL N., CHEVALIER S. Expression of the translocator protein (TSPO) from *Pseudomonas fluorescens* Pfo-1 requires the stress regulatory sigma factors AlgU and RpoH. *Front. Microbiol.* 6:1023, 2015; doi: 10.3389/fmicb.2015.01023 (IF2015/16=4.53)
- 2016.1** N'DIAYE A., MUQUIN L., HILLION M., DIAZ S., KONTO-GHIORGI Y., PERCOCO G., CHEVALIER S., LEFEUVRE L., HARMER N.J., LESOUHAITIER O., FEUILLOLEY M.G.J. Effect of Substance P in *Staphylococcus aureus* and *Staphylococcus epidermidis* virulence: Implication for skin homeostasis. *Front. Microbiol.* 7:1-15, Art 506, 2016; doi: 10.3389/fmicb.2016.00506 (IF2015/16=4.53)
- 2016.2** NORRIS V., VERRIER C., FEUILLOLEY M. Hybolites revisited. *Recent Patents on Anti-Infective Drug Discovery* 11:16-31, 2016; doi: 10.2174/1574891X11666160406121706 (IF = NC)
- 2016.3** ROWENCZYK L., PICARD C., DUCLAIROR POC C., HUCHER N., ORANGE N., FEUILLOLEY M., GRISEL M. Development of nanoparticles-based emulsions with low bactericidal impact: effects of nanoparticles surface properties and sterilization process. *Int. J. Pharm.* 10:125-134, 2016; doi: 10.1016/j.ijpharm.2016.06.014. (IF2015= 3.994)
- 2016.4** N'DIAYE A.R., LECLERC C., KENTACHE T., HARDOUIN J., DUCLAIROR POC C., KONTO-GHIORGI Y., CHEVALIER S., LESOUHAITIER O., FEUILLOLEY M.G.J. Skin - bacteria communication: Involvement of the neurohormone Calcitonin Gene Related Peptide (CGRP) in the regulation of *Staphylococcus epidermidis* virulence. *Sci. Reports Nature* 6:35379, 2016; DOI: 10.1038/srep35379 (IF2015=5.228)
- 2016.5** KONDAKOVA T., CATOVIC C., BARREAU M., NUSSER M., BRENNER-WEISS G., FEUILLOLEY M., DIONNET F., ORANGE N., DUCLAIROR POC C. Response to Gaseous NO₂ Air Pollutant of *P. fluorescens* Airborne Strain MFAF76a and Clinical Strain MFN1032. *Front. Microbiol.* 7:379, 2016; doi: 10.3389/fmicb.2016.00379 (IF2015/16=4.53)
- 2017.1** CLAMENS T., ROSAY T., CRÉPIN A., GRANDJEAN T., KENTACHE T., HARDOUIN J., BORTOLOTTI P., NEIDIG A., MOOIJ M., HILLION M., VIEILLARD J., COSETTE P., OVERHAGE J., O'GARA F., BOUFFARTIGUES E., DUFOUR A., CHEVALIER S., GUERY B., CORNELIS P., FEUILLOLEY M.G.J., LESOUHAITIER O. The aliphatic amidase AmiE is involved in regulation of *Pseudomonas aeruginosa* virulence. *Sci Reports Nature* 7:41178, 2017; DOI: 10.1038/srep41178. (IF2015=5.228)
- 2017.2** GALLIQUE M., DECOIN V., BARBEY C., ROSAY T., FEUILLOLEY M.G.J., ORANGE N., MERIEAU A. Contribution of the *Pseudomonas fluorescens* MFE01 Type VI Secretion System to Biofilm Formation. *PLoS ONE* 12(1): e0170770, 2017; doi:10.1371/journal.pone.0170770 (IF2016=3.057)
- 2017.3** N'DIAYE A., GANNESSEN A., BORREL V., MAILLOT O., ENAUT J., RACINE P-J., PLAKUNOV V., CHEVALIER S., LESOUHAITIER O., FEUILLOLEY M.G.J. Substance P and Calcitonin Gene Related Peptide (CGRP): Key regulators of cutaneous microbiote homeostasis. *Front. Endocrinol. Neuroendocrine Science* 8: 1-7, 2017; doi: 10.3389/fendo.2017.00015 (IF2016 = 4.48)
- 2017.4** CHEVALIER S., BOUFFARTIGUES E., BODILIS J., MAILLOT O., LESOUHAITIER O., FEUILLOLEY M.G.J., ORANGE N., DUFOUR A., CORNELIS P. Structure-function and regulation of *Pseudomonas aeruginosa* porins. *FEMS Microbiol. Rev.* 41: 698-722, 2017; doi: org/10.1093/femsre/fux020 (IF2017 = 13.687)
- 2017.5** BIAGGINI K., BORRELI V., SZUNERITS S., BOUKHERROUB R., N'DIAYE A., ZEBRE A., BONNIN-JUSSERAND M., DUFLOS G., FEUILLOLEY M., DRIDER D., DÉCHELOTTE P., CONNIL N. Substance P enhances lactic acid and tyramine production in *Enterococcus faecalis* V583 and promotes its cytotoxic effect on intestinal Caco-2/TC7 cells. *Gut Pathogens* 9:20. doi: 10.1186/s13099-017-0171-3. (IF2016 = 2.816)
- 2017.6** LECLERC C., ZEBRE A., ENAUT J., RACINE P-J., LEBLANC S., CONNIL N., SVINAREFF P., FEUILLOLEY M.G.J. Evaluation of *Streptomyces* common scab toxins diffusion in potato tubers and through the intestinal barrier. *Int. J. Current Microbiol. Appl. Sci.* 6:1662-1676. /doi.org/10.20546/ijemas.2017.605.181. (IF2016=2.937)
- 2017.7** ROWENCZYK L., DUCLAIROR-POC, C., BARREAU M., PICARD C., HUCHER N., ORANGE N., GRISEL M., FEUILLOLEY M. Impact of coated TiO₂-nanoparticles used in sunscreens on two representative strains of the human microbiota: Effect of the particle surface nature and aging. *Colloids and Surfaces B: Biointerfaces*. 158:339-348. doi: 10.1016/j.colsurfb.2017.07.013. (IF2016: 3.887)
- 2018.1** DEPAYRAS S., KONDAKOVA T., MERLET-MACHOUR N., HEIPIEPER H.J., BARREAU M., CATOVIC C., FEUILLOLEY M., ORANGE N., DUCLAIROR-POC C. Impact of gaseous NO₂ on *P. fluorescens* strain in the membrane adaptation and virulence. *Int. J. Environ. Impacts* 1(3): 1-10, 2018.
- 2018.2** FEUILLOLEY M.G.J. Antidromic neurogenic activity and cutaneous bacterial flora. *Sem. Immunopathol.* 40:281-289 doi: 10.1007/s00281-018-0671-3 (IF2017 = 5.296)

- 2018.3** GANNESSEN A.V., LESOUHAITIER O., NETRUSOVI A.I., PLAKUNOV V.K., FEUILLOLEY M.G.J. The new role of human natriuretic peptides: regulation of monospecies and binary biofilms formation of skin *Staphylococcus epidermidis* and *Staphylococcus aureus*. *Microbiology (Russia)* 87: 597-609, 2018. doi:10.1134/S0026261718050090 (IF2017 = 0.855)
- 2018.4** DESRIAC F., CLAMENS T., ROSAY T., RODRIGUES S., TAHRIQUI A., ENAULT J., ROQUIGNY L., RACINE P.-J., TAUPIN L., BAZIRE A., DUFOUR A., LEPRINCE J., BOUFFARTIGUES E., CHEVALIER S., FEUILLOLEY M., LESOUHAITIER O. Different dose-dependent modes of action of C-type natriuretic peptide *Pseudomonas aeruginosa* biofilm formation. *Pathogens* 7:47, 2018. doi: 10.3390/pathogens7020047 (IF2015 = 2.93)
- 2018.5** GANNESSEN A.V., BORREL V., LEFEUVRE L., NETRUSOV A.I., PLAKUNOV V.K., FEUILLOLEY M.G.J. Effect of two cosmetic compounds on the growth, biofilm formation activity and surface properties of acneic strains of *Cutibacterium acnes* and *Staphylococcus aureus*. *MicrobiologyOpen* e659: 1-12, doi: 10.1002/mbo3.659 (IF2018 = 2.747)
- 2018.6** CHEVALIER S., BOUFFARTIGUES E., BAZIRE A., TAHRIQUI A., DUCHESNE R., TORTUEL D., CLAMENS T., ORANGE N., FEUILLOLEY M.G.J., LESOUHAITIER O., DUFOUR A., CORNELIS P. Extracytoplasmic function (ECF) sigma factors in *Pseudomonas aeruginosa*. *BBA Gene Regulatory Mechanisms* (In press) (IF2017 = 5.08)
- 2018.7** LESOUHAITIER O., CLAMENS T., ROSAY T., DESRIAC F., LOUIS M., RODRIGUES S., GANNESSEN A., VLADIMIR V., BOUFFARTIGUES E., TAHRIQUI A., BAZIRE A., DUFOUR A., CORNELIS P., CHEVALIER S., FEUILLOLEY M. Host peptidic hormones affecting bacterial biofilm formation and virulence. *J. Innate Immun.* (in press) (IF2017 = 3.94)
- 2018.8** ZOMMITI M., CAMBRONEL M., MAILLOT O., BARREAU M., SEBEI K., FEUILLOLEY M.G.J., FERCHICHI M., CONNIL N. Evaluation of probiotic properties and safety of *Enterococcus faecium* isolated from artisanal dried Tunisian meat 'Dried Ossban'. *Frontiers Microbiol* 9: 1-12, doi: 10.3389/fmicb.2018.01685 (IF2017=4.019)
- 2018.9** ZOMMITI M., BOUFFARTIGUES E., MAILLOT O., BARREAU M., SZUNERTZ S., SEBEI K., FEUILLOLEY M., CONNIL N., FERCHICHI M. In vitro assessment of the probiotic properties and bacteriocinogenic potential of *Pediococcus pentosaceus* MZF16 isolated from artisanal Tunisian meat "Dried Ossban". *Frontiers Microbiol.* (In press) (IF2017=4.019)

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/перевод с английского и французского языков на русский язык/

Информация о директоре по научным исследованиям диссертации Андрея Владиславовича Ганнесена

«Структура и состав моно- и мультивидовых биопленок микроорганизмов кожи и природных местообитаний: действие на них косметики и некоторых других биологически активных соединений»

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В городе Новомосковске Тульской области, Российская Федерация,

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перевод с английского языка на русский язык выполнен переводчиком Переводческой компании «ИнкоЛинк» (ИП Линник Е.А., Свидетельство 71 №001744541 от 24 августа 2007 г.). Перевод является верным и соответствует оригиналу документа. ИП Линник Е.А. не несёт ответственности за возможный ущерб, нанесённый применением данного перевода.



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