

Travaux scientifiques (bilan non exhaustif)

Publications Internationales (2013-aout 2021)

Bouguerra A., Himed L., Boussalah N. et Barkat M. (2013). Étude de l'activité antimicrobienne de l'huile essentielle extraite des écorces de *Citrus reticulata*. *Revue Nutrition & Santé*, Numéro NS 13/11/2013. ISSN 2253-0983. www.san-dz.org/

Djabali S. et Barkat M. (2013). Impact of polyphenolic extracts on resistance to fungal contamination in dry bean grains. *African Journal of Biotechnology* 12(20), 2978-2985. Doi: 10.5897/AJB12.1977. ISSN 1684-5315. <http://www.academicjournals.org/AJB>

Djabali S. et Barkat M. (2013). Isolement et identification de moisissures contaminant deux variétés d'haricot sec stockées a température ambiante. *Revue de Microbiologie Industrielle Sanitaire et Environnementale*. ISSN 2028-0351. 7(1) Start page : 120. <http://revues.imist.ma/?journal=Remise>

Djabali S. et Barkat M. (2013). Effet des extraits polyphénoliques sur la résistance à l'infestation fongique dans le grain d'haricot sec. *REMISE : Revue de Microbiologie Industrielle Sanitaire et Environnementale*. ISSN 2028-0351. 6(2); Start page: 174. <http://revues.imist.ma/?journal=Remise>

Ouali A., Gagaoua M., Boudida Y., Becila, S., Boudjellal A., Herrera-Mendez C. H., et Sentandreu M.A. (2013). Biomarkers of meat tenderness: present knowledge and perspectives in regards to our current understanding of the mechanisms involved. *Meat Science* 95(4), 854-870. Doi : 10.1016/j.meatsci.2013.05.010

Aggoun M., Arhab R., Leulmi N. et Barkat M. (2014). *In vitro* fermentation of olive oil mill wastewaters using sheep rumen liquor as inoculum: olive mill wastewaters an alternative for ruminant's nutrition. *Journal of BioScience and Biotechnology* 3(3), 203-210 ISSN: 1314-6246. <http://www.jbb.uni-plov-div.bg>

Himed L. et Barkat M. (2014). Élaboration d'une nouvelle margarine additionnée des huiles essentielles de *Citrus limon*. *Oilseeds & fats Crops and Lipids* 21(1) A102. Doi: 10.1051/ocl/2013050. Disponible en ligne : www.ocl-journal.org. ISSN 2272-6977, e-ISSN 2257-6614

Bouacem K., Bouanane-Darenfed A., Boucherba N., Joseph M., Gagaoua M., Ben Hania W., Kecha M., Benallaoua S., Hacène H., Ollivier B. et Fardeau M.L. (2014). Partial Characterization of Xylanase Produced by *Caldicoprobacter algeriensis*, a new thermophilic anaerobic bacterium isolated from an Algerian Hot Spring. *Applied Biochemistry and Biotechnology* 174(5), 1969-1981. Doi: 10.1007/s12010-014-1153-2

Boucherba N., Gagaoua M., Copinet E., Bettache A., Duchiron F. et Benallaoua S. (2014). Purification and characterization of the xylanase produced by *Jonesia denitrificans* BN-13. *Applied Biochemical and Biotechnology* 172(5), 2694-2705. Doi : 10.1007/s12010-013-0709-x

Gagaoua M., Boucherba N., Bouanane-Darenfed A., Ziane, F., Nait-Rabah S., Hafid K., Herrera-Mendez C. H. et Sentandreu M.A. (2014). Three-phase partitioning as an efficient method for the purification and recovery of ficin from Mediterranean fig (*Ficus carica* L.) latex. *Separation and Purification Technology* 132(0), 461-467. Doi: 10.1016/j.seppur.2014.05.050

Kharroub K., Gomri M.A., Aguilera M. et Monteoliva-Sanchez M. (2014). Diversity of hydrolytic enzymes in haloarchaea isolated from Algerian sabkhas. *African Journal of Microbiology Research* 8(52), 3992-4001. Doi :10.5897/AJMR2014.7183

Merniz S., Mokhtari M., Mousser H., Himed L. et Mousser A., (2014). Complexation of cyclohexadiene tricarbonyl iron with imidazolidine-2-thione. Crystal structural and antimicrobial activity studies of the tricarbonyl (1-4- -5-N-imidazolidinio-2-thionecyclohexa-1,3-diene) iron labelled complex. *Journal of Organometallic Chemistry* 772-773, 147-151. <https://doi.org/10.1016/j.jorganchem.2014.08.024>

Picard B., Gagaoua M., Micol D., Cassar-Malek I., Hocquette J. F. et Terlouw C. E. (2014). Inverse relationships between biomarkers and beef tenderness according to contractile and metabolic properties of the muscle. *Journal of Agricultural and Food Chemistry* 62(40), 9808-9818. Doi: 10.1021/jf501528s

Smili H., Gagaoua M., Becila S., Ider M., Babelhadj B., Adamou A., Picard P., Ouali A. et Boudjellal A. (2014). Exsudation de la viande de dromadaire. *Viandes et Produits Carnés VPC-2014-30-5-5*, 1-9.

Sow M. L., Barkat M. et Maougal R.T. (2014). Dépistage des activités antioxydante, antibactérienne et antifongique de l'huile essentielle extraite des calices séchés d'*Hibiscus sabdariffa* L. *Revue de Microbiologie Industrielle Sanitaire et Environnementale*. ISSN 2028-0351, 8(1): 67-77. <http://revues.imist.ma/?journal=Remise>

Arohalassi H.M., Maougal R.T. et Barkat M. (2015). Screening des activités antioxydante, antibactérienne et antifongique de l'huile essentielle extraite du zeste de pamplemousse. *Revue de Microbiologie Industrielle Sanitaire et Environnementale* 9(1), 48-64. ISSN 2028-0351

Bezuidt O.K.I., Makhalanya T.P., Gomri M.A., Kharroub K., et Cowan D.A. (2015). Draft genome sequence of thermophilic *Geobacillus* sp. strain Sah69, isolated from Saharan soil, South-East Algeria. *Genome Announcements* 3(6): e01447-15. Doi:10.1128/genomeA.01447-15. American Society of Microbiology, <http://genomea.asm.org>

Himed L. et Barkat M. (2015). Antioxidant Activity of Essential Oils Extracted from the Peel of Citrus Limon and That of Tocoblend. *Óbuda University e-Bulletin* 5(1), 115-119. ISSN 2062-2872

Gagaoua M., Hoggas N. et Hafid K. (2015). Three phase partitioning of zingibain, a milk-clotting enzyme from *Zingiber officinale* Roscoe rhizomes. *International Journal of Biological Macromolecules* 73, 245-252. [Doi.org/10.1016/j.ijbiomac.2014.10.069](http://doi.org/10.1016/j.ijbiomac.2014.10.069)

Gagaoua M., Terlouw E.M.C., Micol D., Boudjellal A., Hocquette J.F. et Picard B. (2015). Understanding Early Post-Mortem Biochemical Processes Underlying Meat Color and pH Decline in the Longissimus thoracis Muscle of Young Blond d'Aquitaine Bulls Using Protein Biomarkers. *Journal of Agricultural and Food Chemistry* 63, 6799-809. Doi: 10.1021/acs.jafc.5b02615

Gagaoua M., Hafid K., Boudida Y., Becila S., Ouali A., Picard B., Boudjellal A. et Sentandreu M. (2015). Caspases and Thrombin Activity Regulation by Specific Serpin Inhibitors in Bovine Skeletal Muscle. *Applied Biochemistry and Biotechnology* 177, 279-303. [Doi.org/10.1007/s12010-015-1762-4](http://doi.org/10.1007/s12010-015-1762-4)

Kharroub K., Gomri M.A. et Monteoliva-Sanchez M. (2015). Diversity of halophilic archaea from Ezzemoul sabkha in Algeria. *Óbuda University e-Bulletin* 5(1), 121-126. ISSN 2062-2872

Merabti R., Bekhouche F., Chuat V., Madec M.-N., Maillard M.-B., Bailly S., Thierry A et Valence-Bertel F. (2015). A large diversity of lactic acid bacteria species is involved in the fermentation of wheat used for the manufacture of *lemzeiet*. *European Food Research and Technology* 241(1), 137-149. Doi: 10.1007/s00217-015-2442-x

Zoubiri I. et Barkat M. (2015). Investigation of the Grapes' Traditional Drying in the Region of Tademait, Tizi Ouzou, Algeria. *Óbuda University e-Bulletin* 5(1), 197-203. ISSN 2062-2872

Aggoun M., Arhab R., Cornu A., Portelli J., Barkat M. et Graulet B. (2016). Olive mill wastewater microconstituents composition according to olive variety and extraction process. *Food Chemistry* 209, 72-80. <http://www.sciencedirect.com/science/journal/03088146/209>

Ait Kaki El-Hadef-El-Okki A., Gagaoua M., Bennamoun L., Djkrif S., Hafid K., El-Hadef-El-Okki M. et Meraihi Z. (2016). Statistical Optimization of Thermostable α -Amylase Production by a Newly isolated *Rhizopus oryzae* Strain FSIS4 Using Decommissioned Dates. *Waste Biomass Valor* 8, 2017-2027. Doi.org/10.1007/s12649-016-9727-6

Ait Kaki El-Hadef El-Okki A., Gagaoua M., Bourekoua H., Hafid H., Bennamoun L., Djekrif-Dakhmouche C., El-Hadef El-Okki M. et Meraihi Z. (2017). Improving Bread Quality with the Application of a Newly Purified Thermostable -Amylase from *Rhizopus oryzae* FSIS4. *Foods* 6(1), 1-7. Doi: [10.3390/foods6010001](https://doi.org/10.3390/foods6010001)

Bezuidt O.K.I., Pierneef R., Gomri M. A., Adesioye F., Makhalanyane T.P., Kharroub K. et Cowan D.A. (2016). The *Geobacillus* Pan-Genome: Implications for the Evolution of the Genus. *Frontiers in Microbiology* 51, 1-9. Doi: [10.3389/fmicb.2016.00723](https://doi.org/10.3389/fmicb.2016.00723)

Bezuidt O.K.I., Gomri M.A., Pierneef R., Van Goethem M.W., Kharroub K., Cowan D.A. et Makhalanyane T.P. (2016). Draft genome sequence of *Thermoactinomyces* sp. strain AS95 isolated from a Sebkhia in Thamelah, Algeria. *Standards in Genomic Sciences* 11(1)68, 1-6. Doi [10.1186/s40793-016-0186-2](https://doi.org/10.1186/s40793-016-0186-2)

Bouanane-Darenfed A., Boucherba N., Bouacem K., Gagaoua M., Manon J., Kebbouche-Gana S., Nateche F., Hacène H., Ollivier B., Cayol J.-L. et Fardeau M.-L. (2016). Characterization of a purified thermostable xylanase from *Caldicoprobacter algeriensis* sp. nov. strain TH7C1^T. *Carbohydrate Research* 419, 90-68. [Dx.doi.org/10.1016/j.carres.2015.10.013](https://doi.org/10.1016/j.carres.2015.10.013)

Boudechicha H.R., Sellama M., Hafid K., Boudjellal A. et Gagaoua M. (2016). 92. Adoption of proteomics in traditional meat products: the case of Khliia Ezir. In: *Food futures: Ethics, Science and Culture*, pp 600-6. Edited by I. Anna S. Olsson Sofia M. Araujo, M. Fatima Vieira. Springer international publishing

Boudida Y., Gagaoua M., Becila S., Picard B., Boudjellal A., Herrera-Mendez C.H., Sentandreu M. et Ouali A. (2016). Serine Protease Inhibitors as Good Predictors of Meat Tenderness: Which Are They and What Are Their Functions? *Critical Reviews in Food Science and Nutrition* 56(6), 957-972. [Dx.doi.org/10.1080/10408398.2012.741630](https://doi.org/10.1080/10408398.2012.741630)

Gagaoua M., Hafid K. et Hoggas N. (2016). Data in Support of Three phase partitioning of zingibain, a milk-clotting enzyme from *Zingiber officinale* Roscoe rhizomes. *Data in Brief* 6, 634-9. <http://dx.doi.org/10.1016/j.dib.2016.01.014>.

Gagaoua M. et Hafid K. (2016). Three Phase Partitioning system, an emerging non-chromatographic tool for proteolytic enzymes recovery and purification. *Biosensors Journal* 5, 135. <http://dx.doi.org/10.4172/2090-4967.1000134>

Gagaoua M., Terlouw E.M.C., Micol D., Hocquette J.-F., Moloney A.P., Nuernberg K., Bauchart D., A. Boudjellal A., Scollan N.D., Richardson R.I. et Picard B. (2016). Sensory quality of meat from eight different types of cattle in relation with their biochemical characteristics. *Journal of Integrative Agriculture* 15(7), 1550-1563. [Doi.org/10.1016/S2095-3119\(16\)61340-0](https://doi.org/10.1016/S2095-3119(16)61340-0)

Gagaoua M., Micol D., Picard B., Terlouw C.E.M., Moloney A.P., Juin H., Meteau K., Scollan N. et Hocquette J.-F. (2016). Inter-laboratory assessment by trained panelists from France and the United Kingdom of beef cooked at two different end-point temperatures. *Meat Science* 122, 90-96. [Doi.org/10.1016/j.meatsci.2016.07.026](https://doi.org/10.1016/j.meatsci.2016.07.026)

Hafid K., Gagaoua M., Boudechicha H.R., Nait Rabah S., Ziane F., Sellama M., Becila S. et Boudjellal A. (2016). A Comparison of the Carcass and Meat Quality of ISA (F15) Spent Hens Slaughtered at Two Different Ages. *American Journal of Food Technology*, 11, 134-142. <http://Dx.doi.org/10.3923/ajft.2016.134.142>

Himed L., Merniz S. et Barkat M. (2016). Évaluation des activités antioxydante et antibactérienne de l'huile essentielle de *Citrus limon* (variété Lisbon) extraite par hydrodistillation. *Algerian Journal of Natural Products* 4(1), 252-260. Online ISSN: 2353-0391. <http://www.univ-bejaia.dz/ajnp>

Himed L., Merniz S. et Barkat M. (2016). Evaluation of the chemical composition and antioxidant activity of *Citrus limon* essential oil and its application in margarine preservation. *Algerian Journal of Natural Products* 4(2), 316-322. Online ISSN: 2353-0391. <http://www.univ-bejaia.dz/ajnp>

Laib I. et Barkat M. (2016). Impact of cooking and conservation for twelve days on total polyphenols content, antioxidant and anticholinesterase activities of red onion. *African Journal of Pharmacy and Pharmacology* 10(13), 270-277. Doi: 10.5897/AJPP2015.4519

Kammoun M., Picard B., Astruc T., Gagaoua M., Aubert D., Bonnet M., Blanquet V. et Cassr-Malek I. (2016). The Invalidation of HspB1 Gene in Mouse Alters the Ultrastructural Phenotype of Muscles. *Plos One* 11, 1-19. doi.org/10.1371/journal.pone.0158644

Toumi I., Adamou A. et Becila S. (2016). Contribution a l'étude du poisson de sable (*Scincus scincus*) dans la région du Souf : enquête consommation 6(2), 56-61.

Zerizer H., Merouane F., Bougherara C., Gagaoua M., Hafid K., Boughachiche F., Raoult D. et Boulahrouf A. (2016). Characterization of proteolytic enzyme secreted by *Streptomyces cinereoruber* ssp. *cinereoruber* isolated from human pleural fluid. *International Journal of Advanced Biological and Biomedical Research* 5(1), 275-285. Doi 10.26655/IJABBR.2016.9.7

Aggoun M., Boussada A., Arhab R., Amokrane S. et Barkat M. (2017). Effect of natural bioflavonoid on in vitro ruminal microbiota activity in sheep rumen liquor. *Journal of Bioscience and Biotechnology* 6(1), 31-35

Becila S., Boudida Y., Gagaoua M., Hafid K., Boudchicha H., Smili H., Belachehabe R., Herrera-Mendez C.H., Sentandreu M.A., Labas R., Astruc T., Boudjellal A., Picard B. et Ouali A. (2017). Cells Shrinkage and Phosphatidylserine Externalization in Post Mortem Muscle by Fluorescence Microscopy. A.Y. Oral and Z.B. Bahsi Oral (eds.) Springer Proceedings in Physics 186, 1-16. Doi 10.1007/978-3-319-46601-9_7

Benaissa A., Babelhadj B., Bayoussef Z., Smili H., Becila S. et Ould el hadj-Khellil A. (2017). The electrophoretic profile myofibrillar proteins extracted from camel muscles, kept in various modes. *International Journal of Environment, Agriculture and Biotechnology* 2(2), 553-557. [Dx.doi.org/10.22161/ijeab/2.2.1](https://dx.doi.org/10.22161/ijeab/2.2.1)

Bouchedja D.N., Danthine S., Kar T., Fickers P., Boudjellal A. et Delvigne F. (2017). Online flow cytometry, an interesting investigation process for monitoring lipid accumulation, dimorphism, and cells' growth in the oleaginous yeast *Yarrowia lipolytica* JMY 775. *Bioresources and Bioprocessing* 4(3), 1-12. Doi: [10.1186/s40643-016-0132-6](https://doi.org/10.1186/s40643-016-0132-6)

Boudechicha H.R., Nasri I., Bennaceur Z., Sellama M., Hafid K., Boudjellal A. et Gagaoua M. (2017). Microbiological changes during the preparation steps of Khliia Ezir: a traditional cured meat product of Algeria. *Integrative Food, Nutrition and Metabolism*, volume 4(6), 1-5. Doi:10.1561/IFNM.1000199

Derardja A.E., Pretzler M., Kampatsikas I., Barkat M. et Rompel A. (2017). Purification and Characterization of Latent Polyphenol Oxidase from Apricot (*Prunus armeniaca* L.). *Journal of Agricultural and Food Chemistry* 65(37): 8203–8212. Doi: [10.1021/acs.jafc.7b03210](https://doi.org/10.1021/acs.jafc.7b03210)

Boucherba N., Gagaoua M., Bouanane-Darenfed A., Bouiche C., Bouacem K., Kerbous, Yacine Maafa M.Y. et Benallaoua S. (2017). Biochemical properties of a new thermo- and solvent-stable xylanase recovered using three phase partitioning from the extract of *Bacillus oceanisediminis* strain SJ3. *Bioresources and Bioprocessing* 4(1), 1-12. Doi: 10.1186/s40643-017-0161-9

Chikhoun A., Pavleca J.D., Shashkov M., Berroua Z., Chebbi K., Bougherra H., Zeroual B., Aliane K., Gagaoua M., Boudjellal A., Vovk I. et Križman M. (2017). Antioxidant effect induced by the essential oil

of *Pituranthos scoparius* in a formulation of a whey spread emulsion. *Food Processing and Preservation* 41(5), 1-12. [Doi.org/10.1111/jfpp.13163](https://doi.org/10.1111/jfpp.13163)

[Chikhouné A.](#), [Gagaoua M.](#), [Nanema K.D.](#), [Souleymane A.S.](#), [Hafid K.](#), [Aliane K.](#), [Hadjal S.](#), [Madani K.](#), [Sentandreu E.](#), [Sentandreu M.G.](#), [Boudjellal A.](#), [Križman M.](#) et [Vovk I.](#) (2017). Antioxidant Activity of *Hibiscus sabdariffa* Extracts Incorporated in an Emulsion System Containing Whey Proteins: Oxidative Stability and Polyphenol–Whey Proteins Interactions. *Arabian Journal for Science and Engineering* 42, 2247–2260. doi 10.1007/s13369-017-2428-z

Gagaoua M., Ziane F., Nait Rabah S., Boucherba N., Ait Kaki El-hadef-El-Okki A., Bouanane-Darenfed A. et Hafid K. (2017). Three Phase Partitioning, a scalable method for the purification and recovery of Cucumisin, a milk-clotting enzyme, from the juice of *Cucumis melo* var. *reticulatus*. *International Journal Of Biological Macromolecules* 102, 515-525. [Dx.doi.org/10.1016/j.ijbiomac.2017.04.060](https://dx.doi.org/10.1016/j.ijbiomac.2017.04.060)

[Gagaoua M.](#), [Terlouw E.M.C.](#) et [Picard B.](#) (2017). The study of protein biomarkers to understand the biochemical processes underlying beef color development in young bulls. *Meat Science* 134, 18-27. doi: [10.1016/j.meatsci.2017.07.014](https://doi.org/10.1016/j.meatsci.2017.07.014)

Gagaoua M., Couvreur S., Le Bec G., Aminot G. et Picard B. (2017). Associations between protein biomarkers and pH and color traits in Longissimus thoracis and Rectus abdominis muscles in PDO Maine-Anjou cull cows. *Journal of Agricultural and Food Chemistry* 65(17), 3569-3580. Doi: [10.1021/acs.jafc.7b00434](https://doi.org/10.1021/acs.jafc.7b00434)

Picard B. et Gagaoua M. (2017). Chapter 11 - Proteomic Investigations of Beef Tenderness. In *Proteomics in Food Science*, pp177-197. [Dx.doi.org/10.1016/B978-0-12-804007-2.00011-4](https://dx.doi.org/10.1016/B978-0-12-804007-2.00011-4)

Toumi I., Adamou A. et Becila S. (2017). La consommation du poisson de sable (*Scincus scincus*) dans la région du Souf (Er oriental, Algérie): motivation et modalités de préparation. *Cahier de Nutrition et de Diététique* 52(1), 41-44. Doi : [10.1016/j.cnd.2016.10.003](https://doi.org/10.1016/j.cnd.2016.10.003)

Toumi I., Adamou A., Becila S. et Rgiloufi R. (2017). Composition et valeur nutritionnelle de la viande et la farine du scinque officinal (*Scincus scincus*) en Algérie. *Livestock Research for Rural Development* 29(10), 1-9

[Bouchedja D.N.](#), [Danthine S.](#), [Kar T.](#), [Fickers P.](#), [Sassi H.](#), [Boudjellal A.](#), [Blecker C.](#), et [Delvigne F.](#) (2018). pH level has a strong impact on population dynamics of the yeast *Yarrowia lipolytica* and oil micro-droplets in multiphase bioreactor. *FEMS Microbiology letters* 365(16), 1-11. Doi: [10.1093/femsle/fny173](https://doi.org/10.1093/femsle/fny173)

Boudechicha H.R., Sellama M., Lamri M., Boudjellal A. et Gagaoua M. (2018). Produits carnés traditionnels des pays d’Afrique du Nord. Viande & produits carnés, 1-19

Chemache L., Kehal F., Namoune H., Chaalal M. et Gagaoua M. (2018). Couscous: Ethnic making and consumption patterns in the Northeast of Algeria. *Journal of Ethnic Foods* 5(3), 211-219. [Doi.org/10.1016/j.jef.2018.08.002](https://doi.org/10.1016/j.jef.2018.08.002)

Chikhouné A., Križman M., Berroua Z., Chebbi K., Zeroual B., Aliane K., Hadjal S., Tounsi A., Boudjellal A. et Gagaoua M. (2018). Aqueous extract of *Pituranthos scoparius* as a biopreservative against lipid oxidation of an emulsion and use of SDS-PAGE to study protein-polyphenols interactions. *Integrative Food Nutrition and Metabolism* 5(4), 1-6. Doi: [10.15761/IFNM.1000222](https://doi.org/10.15761/IFNM.1000222)

Gagaoua M. et Boudechicha R.H. (2018). Ethnic meat products of the North-African and Mediterranean countries: an overview. *Journal of Ethnic Foods* 5, 83-98. [Doi.org/10.1016/j.jef.2018.02.004](https://doi.org/10.1016/j.jef.2018.02.004)

Gomri M.A., Rico-Diaz A., Escuder-Rodriguez J-S., Khaldi T.E.M., Gonzalez-Siso M.I. et Kharroub K. (2018). Production and Characterization of an Extracellular Acid Protease from Thermophilic *Brevibacillus* sp. OA30 Isolated from an Algerian Hot Spring. *Microorganisms* 6, 31. Doi:[10.3390/microorganisms6020031](https://doi.org/10.3390/microorganisms6020031)

Gomri M.A., Khaldi T.E.M. et Kharroub K. (2018). Analysis of the diversity of aerobic, thermophilic endospore-forming bacteria in two Algerian hot springs using cultural and non-cultural methods. *Annals of Microbiology* 68(12), 915-929. Doi.org/10.1007/s13213-018-1401-8

Himed L., Merniz S. et Barkat M. (2018). Chemical composition of *Citrus limon* (Eureka variety) essential oil and evaluation of its antioxidant and antibacterial activities. *African Journal of Biotechnology* 17(11), 356-361. Doi:10.5897/AJB16.15693

Laib I. et Barkat M. (2018). Optimization of Conditions for Extraction of Polyphenols and the Determination of the Impact of Cooking on Total Polyphenolic, Antioxidant, and Anticholinesterase Activities of Potato. *Foods* 7(3), 36. Doi.org/10.3390/foods7030036

Makhlouf F.-Z., Squeno G., Barkat M., Trani A. et Caponio F. (2018). Antioxydant activity, tocopherol and polyphénols of acornoil obtained from from *Quercus* species grown in Algeria. *Food International Research* 14, 208-213. Doi: 0.1016/j.foodres.2018.08.010

Khaldi T.E.M., Kebouchi M., Soligot C., Gomri M.A., Kharroub K., Le Roux Y. et Roux E. (2019). *Streptococcus macedonicus* strains isolated from traditional fermented milks: resistance to gastrointestinal environment and adhesion ability. *Applied Microbiology and Biotechnology* 103, 2759-2771. Doi.org/10.1007/s00253-019-09651

Bachtarzi N., Kharroub K. et Ruas- Madiedo P. (2019). Exopolysaccharide-producing lactic acid bacteria isolated from traditional Algerian dairy products and their application for skim-milk fermentations. *LWT Food Science and Technology* 107, 117-124. doi: <https://doi.org/10.1016/j.lwt.2019.03.005>

Benlacheheb R., Becila S., Sentandreu M.A., Hafid K., Boudechicha H.R. et Boudjellal A. (2019). El Gueddid, a traditional Algerian dried salted meat: Physicochemical, microbiological characteristics and proteolysis intensity during its manufacturing process and ripening. *Food Science and Technology International*, 25(4), 347-355. Doi: 10.1177/1082013219825892

Derardja A.E., Pretzler M., Kampatsikas I., Barkat M. et Rompel A. (2019). Inhibition of apricot polyphenol oxidase by combinations of plant proteases and ascorbic acid. *Food Chemistry X* 4 100053, 1-9 . Doi.org/10.1016/j.fochx.2019.100053

Derardja A.E. et Barkat Malika. (2019). Effect of traditional sun-drying and oven-drying on carotenoids and phenolic compounds of apricot (*Prunus armeniaca* L.). *The North African Journal of Food Nutrition Research*. 3(2), 186-194. Doi: [10.5281/zenodo.3497409](https://doi.org/10.5281/zenodo.3497409)

Himed L., Merniz S., Monteagudo-Olivan R., Barkat M. et Coronas J. (2019). Antioxidant activity of the essential oil of *Citrus limon* before and after its encapsulation in amorphous SiO₂. *Scientific African* 6 e00181, 1-9. Doi.org/10.1016/j.sciaf.2019.e00181

Merabti R., Madec M., Chuat V., Becila F.-Z., Boussekine R., Bekhouche F. et Valence F. (2019). First insight into the technological features of lactic acid bacteria isolated from Algerian fermented Wheat Lemzeïe. *Current Microbiology* 76(10), 1095–1104. <https://doi.org/10.1007/s00284-019-01727-3>.

Pasqualone A., Makhlouf F.-Z., Barkat M., Difonzo G., Summo C., Squeo G. et Caponio F. (2019). Effect of acorn flour on the physico-chemical and sensory properties of biscuits. *Heliyon* 5(8)e02242, 1-8. Doi.org/10.1016/j.heliyon.2019.e02242

Zoubiri L. Bakir S., Barkat M., Carrillo C. et Capanoglu E. (2019). Changes in the phenolic profile, antioxidant capacity and *in vitro* bioaccessibility of two Algerian grape varieties, Cardinal and Dabouki (Sabel), during the production of traditional sun-dried raisins and homemade jam. *Journal of Berry Research* 9 (2322) 709–724. Doi:10.3233/JBR-190432

Bachtarzi N., Speciale I., Kharroub K., De Castro C., Ruiz L. et Ruas-Madiedo P. (2020). Selection of exopolysaccharides-producing *Lactobacillus plantarum* (*Lactiplanibacillus plantarum*) isolated from Algerian

fermented foods for the manufactures of skim-milk fermented products. *Microorganisms* 8, 1-21. Doi: 10.3390/microorganisms8081101

Benaissa A., Babelhadj B., Khelifa S., Merad N., Babelhadj T., Hafid K. et Becila S. (2020). Etude de quelques paramètres influençant le pH post mortem des carcasses de dromadaires issus de l'abattoir de Touggourt. Algérie. *Journal of Advanced Research in Science and Technology*, 7(1), 102-111. ISSN: 2352-9989

Bouguerra A., Djebili S., Zouaoui N. et Barkat M. (2020). Evaluation of phenolic contents and antioxidant activities of some medicinal plants growing in Algerian Aurès Mountains. *Acta Scientifica Naturalis* 7(2), 15–30. Doi: 10.2478/asn-2020-0017.

Boussekine R., Merabti R., Barkat M., F.-Z. Becila, Belhoula N., Mounier J. et Bekhouche F. (2020). Traditional fermented butter smen/dhan: Current knowledge, production and consumption in Algeria. *Journal of Food Research* 9(4), 1-12. Doi:10.5539/jfr.v9n4p71

Daffri A., Zerizer H., Benlounissi A. et Chebel B. (2020). Extraction of Ficin from Two Varieties of Ficus carica Fig Tree Latex and Comparative Enzymatic Characterization. *International Journal of Agriculture and Biosciences* 9(1), 47-50.

Djabali S., Makhlof F.-Z., Ertas A. et Barkat M. (2020). Effect of heat treatment on polyphenolic compounds and antioxidant activity of lentils (*Lens culinaris*). *Acta Scientifica Naturalis* 7(3), 58–71, 2020. DOI: <https://doi.org/10.2478/asn-2020-0033>

Hafid K., John J., Sayah T.M., Domínguez R., Becila S., Lamri M., Dib A.L., Lorenzo J.M. et Gagaoua M. (2020). One-step recovery of latex papain from Carica papaya using Three Phase Partitioning and its use as milk-clotting and meat-tenderizing agent. *International journal of biological macromolecules* 146, 798-810. Doi.org/10.1016/j.ijbiomac.2019.10.048

Laib I., Kehal F., Haddad N.E., Boudjemia T. et Barkat M. (2020). Effect of in vitro gastrointestinal digestion on phenolic compounds and the antioxidant activity of Aloe vera. *Scienco, Acta Scientifica Naturalis*. 7(3), 11–25. Doi.org/10.2478/asn-2020-0030

Makhlof F.-M., Squeo G., Difonzo G., Faccia M., Pasqualone A., Summo C., Barkat M. et Caponio F. (2020). Effects of storage on the oxidative stability of acorn oils extracted from three different *Quercus species*. *Journal of the Science of Food and Agriculture* 101, 131-138. Doi10.1002/jsfa.10623

Sahli K., Gomri M.A., Zsclapez J., Gómez-Villegas P., Ghennai O., Bonete M.-J., León R. et Kharroub K. (2020). Bioprospecting and characterization of pigmented halophilic archaeal strains from Algerian hypersaline environments with analysis of carotenoids produced by *Halorubrum* sp. BS2. *Journal of Basic Microbiology* 60, 624-638. Doi.org/10.1002/jobm.202000083

Sanah I., Becila S., Djeghim F. et Boudjellal A. (2020). Rabbit meat in the east of Algeria: motivation and obstacles to consumption. *World Rabbit Sciences* 28, 221-237. Doi:10.4995/wrs.2020.13419

Zouaoui N., Chenchouni H., Bouguerra A. Massouras T. et Barkat M. (2020). Characterization of volatile organic compounds from six aromatic and medicinal plant species growing wild in North African drylands. *Nutrition and Food Science Journal* 18, 19-28. Doi:10.1016/j.nfs.2019.12.001

Bader R., Becila S., Ruiz P., Djeghim F., Sanah I., Boudjellal A., Gatellier P., Portanguen S., Talon R. et Leroy S. (2021). Physicochemical and microbiological characteristics of El-Guedid from meat of different animal species. *Meat Science* 171, 1-10. Doi: 10.1016/j.meatsci.2020.108277

Kehal F., Chemache L., Chaalal M., Benbraham M., Capanoglu E. et Barkat M. (2021). A comparative analysis of different varietal of fresh and dried figs by in vitro bioaccessibility of phenolic compounds and antioxidant activities. *Acta Universitatis Cibiniensis Series E: Food Technology* 25(1), 15-30. Doi.org/10.2478/auaft-2021-0002

Laib I., Kehal F., Arris M., Maameri M.I., Lachlah H., Bensouici C., Mosbah R., Houasnia M. et Barkat M. (2021). Effet de la digestion gastro-intestinale *in vitro* sur les composés phénoliques et l'activité antioxydante du thé vert *Camellia sinensis* L. issu de l'agriculture biologique. *Nutrition Clinique et Métabolisme*. [Doi.org/10.1016/j.nupar.2020.12.003](https://doi.org/10.1016/j.nupar.2020.12.003)

Projets de recherche spécifiques : Recherche Formation

Cnepru (2013-2016) ; code : F00920120007

Étude des activités biologiques des huiles essentielles extraites des agrumes : application comme agent conservateur dans l'industrie agro-alimentaire

Responsable : BARKAT Malika ; Membres : ; BOUGUERRA Ali ; HIMED Louiza

Cnepru (2014-2017) ; code : D01N01UN250120130002

Métabolites des extrêmophiles

Responsable: KHARROUB Karima ; Membres : BENMEBAREK Hania, GOMRI Mohamed Amine, AYAD Rima

Cnepru (2015-2018) ; code : D04N01UN250120140020

Caractérisation de la viande du dromadaire algérien

Responsable : Boudejllal Abdelghani ; Membres : BECILA-HIOUAL Samira ; BOUDIDA Yasmine ; GAGAOUA Mohammed

Cnepru (2016-2020) ; code : D01N01UN250120150011

Impact des procédés de transformation et de préservation sur les composés bioactifs d'intérêt alimentaire et sur la texture des fruits et légumes

Responsable : BARKAT Malika ; Membres : ZOUBIRI Lamia ; DERARDJA Ala eddine ; LAIB Imen ; KEHAL Farida

PRFU (2019-2022) ; code : D00L01UN250120190001

Aliments traditionnels fermentés (dhan et lemzeïet) : étude d'investigation, aspects physicochimiques et identification du microbiote et de son potentiel technologique

Responsable : BEKHOUCHE Farida ; Membres : MERABTI Ryma; BECILA Fatima-Zohra; BOUSSEKINE Rania; BELHOULA Nora; BOUGHACHICHE Faiza

PRFU (2019-2022) ; code : D00L01UN250120190002

Bioprospection de molécules microbiennes d'intérêt alimentaire à partir des ressources naturelles de l'est algérien

Responsable : KHARROUB Karima ; Membres : GOMRI Mohamed Amine; BACHTARZI Nadia, BENMEBAREK Hania ; SAHLI Kaouther

PRFU (2019-2022) ; code : D00L01UN250120190003

Valorisation de sous-produits issus de l'industrie agro-alimentaire et d'extraits de végétaux par leur incorporation dans la formulation d'aliments

Responsable BARKAT Malika ; Membres : BENGUEDOUAR Karima; MAKHLOUF Fatima Zohra; KADRI Faouzia; BENCHARIF-BETINA Soumeya

PRFU (2020-2023)

Caractérisation des produits carnés traditionnels algériens

Responsable : BECILA-HIOUAL Samira ; BOUDECHICHA Hiba Ryma; BENLACHEHEB Radia; HAFID Kahina

PRFU (2020-2023)

Caractérisation et aptitude à la transformation de la viande de dromadaire algérien

Responsable : BOUDJELLAL Abdelghani ; Membres : SMILI Hanane; SAYAH Taha Mansour

PRFU (2021-2024) ; code : D00L01UN250120200001

Exploitation de la levure oléagineuse non pathogène *Yarrowia lipolytica* dans la production de sous produits métaboliques à valeur industriel et économique

Responsable : BOUCHEDJA Naila Doria ; Membres : BOUAMER Miled; Al MUALAD Wadie Nabil Abdo

PRFU (2021-2024) ; code : D00L01UN250120210003

Maladies des fruits au stade post-récolte et utilisation des extraits de plantes comme agents naturels de conservation dans les industries agroalimentaires

Responsable : HIMED Louiza ; Membres : DJEBILI Sameh ; SABOUNI Rima ; DERARDJA Ala eddine ; KEHAL Farida

Projets de recherche internationaux

Projet de recherche transnationaux ARIMNet2 (Programme ERA-NET, grant agreement N° 618127).

Promotion of local Mediterranean fermented foods through a better knowledge and management of microbial resources (*ProMedFoods* 2017-2021)

Porteur de projet: BEKHOUCHE Farida; Membres: BARKAT Malika ; MERABTI Ryma ; BOUSSEKINE Rania

Projet de coopération bilatérale Algéro-Espagnol (Algesip) dans le cadre du Programme d'Innovation. Projet de recherche et de développement technologique intitulé BIOLACT (2018-2021)

Porteur de projet : KHARROUB Karima ; Membres : BACHTARZI Nadia; GOMRI Mohamed Amine; MEKHANCHA Djamel Eddine ; BOUDIDA Yasmine ; MERADJI Meriem

Organisation de manifestations scientifiques

1- Séminaire international sur les sciences alimentaires (SISA) : 14-16 octobre 2014

2- Séminaire international sur les sciences alimentaires (SISA) : 15-16 octobre 2018

<https://fac.umc.edu.dz/inataa/sisa>