



## ***CURRICULUM VITAE***

***Pr. Dr. Eng. Moktar HAMDI,***

Field of expertise: Environmental and Microbial Processes  
University Carthage

### **Current situation**

Head of Laboratory of Microbial Ecology and Technology LETMi-05ES08  
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### **Academic Qualifications**

- Habilitation to Supervise Research (HDR) in Biotechnology – bioprocesses (University Paul SABATIER Toulouse, France) (1997).
- PhD in Microbiology (University of Aix Marseille, France). New conception of bioprocess for olive mill wastewaters treatment (1991)
- Master of Applied Microbiology (University of Aix Marseille) (1988)
- Engineer of Industrial and Applied Microbiology (University of Aix Marseille) (1987)

### **Specialized trainings**

- Biotechnological Process Engineering at Barcelona (1992)
- Drafting patents and Patent examination OMPI (21 to 25 April 2008, 16 - 81 July 2008)
- ISO 17025 (TUNAC 2008)
- ISO 9001 – ISO 19011 (CTAA 2010)
- ISO 22000 (TUV 2012)
- Open innovation (TAEIX-EC 2013)

### **Research and development areas**

- Microbial culture and fermentation engineering (bacteria, fungi and microalgae)
- Processes for treatment of gas wastes, solid wastes and wastewaters.
- Renewable energy: Biofuels (biogas and bioethanol) from biomass (wastes and microalgae)
- Climate change and carbon biosequestration
- Safety water and foods and quality and improvement of functional and fermented foods

### **Administrative experiences**

- Head of Graduate School of Sciences, Engineering and Technology INSAT (2009 – 2012)
- Head of Department of Biochemical and Chemical Engineering INSAT (2002 -2008)
- Head of Unit Research of Microbial and food processes (2000 – 2003)

### **Position work**

- From 2004: Full Prof. of Biological engineering (Environmental and Microbial Processes) in National Institute of Applied Sciences and Technology.
- 1999- 2004: Associate Prof. of Industrial and food Microbiology in National Institute of Applied Sciences and Technology.
- 1994- 1999: Assistant Prof. of Microbiology and biotechnological processes in Higher School of Food Industries at Tunis.
- 1992 - 1993: Post-doctoral fellowship in Center of Transfer in Biotechnology at Department of Biochem. and Food Eng. at INSA Toulouse (France).

**Member of Tunisia accreditation (Tunac):** National commission of environment and food control (ISO 17025) (2006 – 2012).

**Chairman or member of jury recruitment** of teachers in higher education and research: Biological engineering (1999 – 2012) and Agro food industries (2012 – 2014).

**Member of National commission of Minister of higher education and research** (section: biology and section agro food industries).

### **Teaching Activities in University**

- *General Microbiology,*
- *Applied and environmental microbiology,*
- *Industrial and Food Microbiology,*
- *Biochemical and Microbial Engineering*
- *Microbial technology,*
- *Environmental Microbial process,*
- *Separations Engineering,*
- *Design of experiments and optimization,*
- *Methods of creativities and innovation*
- Food safety management systems - *ISO22000 and QHSE*
  
- Visiting Professor at INSA Toulouse (UR - Microbiology and Biotechnology, Prof. G. GOMA)
- Responsible of Professional Master: at INSAT: Master hygiene in bioindustry

### **Consulting and teaching activities in Industry**

- *Wastes treatment and Management,*
- Training in hygiene *and safety,*
- *GMP, GHP, HACCP and traceability.*

### **Invited speaker**

- Sustainable biofuels and CO<sub>2</sub> sequestration,
- *Anaerobic digestion of organic wastes,*
- *Design and behaviour of bioprocesses,*
- *Management and methods of innovation.*

### **National and International projects:**

- Project Tunisian-Spanish: Use of bacteriophages for the evaluation of treatment processes of wastewater and sewage sludge AP/037867/11 (2011 – 2013).
- Project Tunisian-Spanish: Application of biosensors in the quality control of wastewater and reuse in agriculture (2011-2013).
- FP7-SME-2008-2-243471-PROBIOLIVES (2009 - 2012): Table olive fermentation with selected strains of probiotic lactic acid bacteria: Towards a new functional food.
- Project Tunisian-Portuguese: Correlation between sensory parameters, such preparations and controlled fermentation of table olives (2009-2011).
- Design and dimensioning of the biogas from green waste plant at BirelKasaa (2007 - 2008).
- Responsible of project for the valuation of byproduct of the brewery SFBT (2007 - 2009)
- Project Manager AUF 6301PS338: Bioconversion Biotechnology gluten for celiac disease. INSAT-Rabat-Gembloux (2004 – 2006).
- Participation in the national project (2000 - 2004): Anaerobic digestion of green waste BirelKasaa.
- Responsible of the Tunisian-French CMCU on probiotics for poultry (2004-2006).
- Participation in the national project (water PRF) (2004 - 2008): Urban and industrial wastewaters management and treatment.
- Participation in platform for the development of bio-industry: Responsible of fermentation processes (2005 - 2008).
- Head of the Tunisian-Belgian project on the design and construction of a production of lactic acid bacteria (ESIAT - CWBI) (2000 - 2003).
- Project Manager of the Tunisian EEC-INCO project 2000-2003: Wastewater recycling of olive oil mills in Mediterranean countries - Demonstration and sustainable reuse of residuals (ICA3-CT-1999-00011).
- Responsible of the Tunisian-French CNRS-DGRST (INSA Toulouse - INSAT): The poultry probiotic lactic acid bacteria (2000 - 2002).
- Head of the Tunisian-Portuguese project on fermentation of table olives (1996-1999) and (2000-2003).
- Responsible of the Tunisian-French CNRS-DGRST (INSA Toulouse - ESIAT): Production of additives by microbiological processes (1997-2000).
- Head of the Tunisian-Belgian project on the production of lactic acid bacteria (ESIAT - CWBI) (1996 - 1999).
- Participation in a national project on lactic starters SERST (1995 - 1998).

**26 Doctoral theses supervised, 23 Doctoral theses statements and 12 HDR statements and more than 100 master and theses committees (Tunisia, France, Morocco) ...**

### **Publications in peer-reviewed journals**

- Siheem JEBRI, fatma Hmaied, Juan Jofre, Mariem Yahya, Javier Mendez, Insaf Barkallah, Moktar Hamdi (2013) Effect of gamma irradiation on bacteriophages used as viral indicators. *Water research*, 47, 3673-3678.
- Olfa Hamdi, Hassib Bouallagui, Moktar Hamdi, Anne Postec, Bernard Ollivier and Marie-Laure Fardeau (2013) Isolation and characterization of *Desulfocurvus thunnarius* sp. nov., a novel bacterium, isolated from an anaerobic sequencing batch reactor treating cooking tuna wastewater. *Int J Syst Evol Microbiol* (in press).
- Ilhem Omri, Fethia Aouidi, Hassib Bouallagui, Jean-Jacques Godon, Moktar Hamdi (2013) Performance study of biofilter developed to treat H<sub>2</sub>S from wastewater odour. *S. J. Biol Sci.* 20, 196 – 167.
- Ben Hania W, Godbane R, Postec A, Hamdi M, Ollivier B, Fardeau ML (2013) *Mesotoga infera* sp. nov., a novel mesophilic member of the order Thermotogales, isolated from an underground gas storage in France. *Int J Syst Evol Microbiol* (in press).
- Marrakchi, M., S. Helali, J. Soto Camino, M. A. González-Martínez, A. Abdelghani and M. Hamdi (2013) Improvement of a pesticide immunosensor performance using site-directed antibody immobilization and carbon nanotubes. *Int. J. Nanotechnology*, 10, 496 – 507.
- Ksontini Hamida, Kachouri Faten, Hamdi Moktar (2013) Impact of *Lactococcus lactis* spp *lactis* Bio adhesion on Pathogenic *Bacillus cereus* Biofilm on Silicone Flowing System. *Indian Journal of Microbiology* (in press).
- Ksontini Hamida, Kachouri Faten, Guesmi Amel, Cherif Ameer, Hamdi Moktar (2013) Bacterial community diversity assessment and Impact of the *Lc. lactis* bio adhesion on biofilm growth. *Microbiology*, 82, 2. (in press)
- Ksontini Hamida, Kachouri Faten, El Abed Soumya, Ibsouda Koraichi Saad, Meftah Hasna, Latrache Hassan, Hamdi Moktar (2013) *Bacillus cereus* adhesion: Real time investigation of the effect on the chemistry of industrial stainless steel. *Microbiology*, 82, 1 (in press).
- Ksontini Hamida, Kachouri Faten, El Abed Soumya, Ibsouda Koraichi Saad, Latrache Hassan and Hamdi Moktar (2013). *Bacillus cereus* adhesion: an investigation of the physicochemical characteristics of surface and effect of bio adhesion on the properties of silicone. *Journal of Adhesion Science and Technology*. 27, 90 - 101.
- Jabari L, Gannoun H, Cayol JL, Hamdi M, Fauque G, Ollivier B, Fardeau ML. (2012) Characterization of *Defluviitalea saccharophila* gen. nov., sp. nov., a novel thermophilic bacterium, isolated from an up flow anaerobic filter treating abattoir wastewaters in Tunisia, and proposal of *Defluviitaleaceae* fam. nov. New taxa: Firmicutes (Class Clostridia, Order Clostridiales, Family Defluviitaleaceae). *Int J Syst Evol Microbiol.*, 62, 3, 550–555

- Jabari, L., Gannoun, H., Cayol, J.-L., Hedi, A., Sakamoto, M., Falsen, E., Ohkuma, M., Fardeau, M.-L. (2012) *Macellibacteroides fermentans* gen. nov., sp. nov., a member of the family Porphyromonadaceae isolated from an upflow anaerobic filter treating abattoir wastewaters. *Int J Syst Evol Microbiol.*, 62 (10), 2522-2527
- Ben Hania W, Fraj B, Postec A, Fadhlou K, Hamdi M, Ollivier B, Fardeau ML. (2012) Isolation and characterization of *Fusibacter tunisiensis* sp. nov., a novel bacterium, isolated from an anaerobic reactor treating phosphogypsum and olive mill wastewaters in Tunisia. *Int J Syst Evol Microbiol.*, 62, 6, 1365–1368
- Ben Hania W, Godbane R, Postec A, Hamdi M, Ollivier B, Fardeau ML. (2012) Isolation and characterization of *Defluviitoga tunisiensis* gen. nov, sp. nov., a novel thermophilic bacterium pertaining to the order Thermotogales, isolated from a mesothermic anaerobic reactor treating cheese whey in Tunisia. *Int J Syst Evol Microbiol.*, 62, 6, 1377–1382
- Marrakchi, M., Campos Sánchez, I., Helali, S., Mejri, N., Soto Camino, J., Gonzalez-Martinez, M.A., Hamdi, M., Abdelghani, A. (2012) A label-free interdigitated microelectrodes immunosensor for pesticide detection. *Sensor Letters*, 9, 6, 2203–2206.
- Fathia Aouidi , Nathalie Dupuy, Jacques Artaud, Sevastianos Roussos, Monji Msallem, Isabelle Perraud Gaime and Moktar Hamdi (2012). Rapid quantitative determination of oleuropein in olive leaves (*Olea europaea*) using mid-infrared spectroscopy combined with chemometric analyses. *Industrial Crops and Products* (37), pp 292–297.
- Fathia Aouidi, Nathalie Dupuy, Jacques Artaud, Sevastianos Roussos, Monji Msallem, Isabelle Perraud-Gaime and Moktar Hamdi (2012). Discrimination of five Tunisian cultivars by Mid InfraRed spectroscopy combined with chemometric analyses of olive *Olea europaea* leaves. *Food Chemistry*, 131, 1, 360–366.
- M'hir Sana, Chammen Nadia, Hamdi Moktar. (2012) Gluten proteolysis as alternative therapy for celiac disease. *African Journal of Biotechnology*. 11(29), 7323-7330.
- M'hir Sana, Chammen Nadia, Hamdi Moktar. (2012) Enterococci in fermented vegetable food, a review. *Annals of Microbiology*, 62, 2, 469–481
- Sajiâa Keskes, Fatma Hmaied, Hana Gannoun, Hassib Bouallagui, Jean Jacques Godon, Moktar Hamdi. (2012) Performance of a submerged membrane bioreactor for the aerobic treatment of abattoir wastewater. *Bioresource Technology*, 103, 1, 28–34.
- Aouidi, F., Dupuy, N., Artaud, J., Roussos, S. Msallem, M., Perraud Gaime, I., Hamdi, M. (2012) Rapid quantitative determination of oleuropein in olive leaves (*Olea europaea*) using mid-infrared spectroscopy combined with chemometric analyses. *Industrial Crops and Products*, 37, 1, 292–297.
- Ayari, S., Dussault, D., Hayouni E., Dang Vu K., Hamdi, M., Lacroix, M. (2012) Response of *Bacillus cereus* vegetative cells after exposure to repetitive sublethal radiation processing in combination with nisin. *Food Microbiology, Food Microbiol.* 32, 2, 361-70.

- Ayari, S., Dussault, D., Jerbi, T., Hamdi, M., Lacroix, M. (2012) Radiosensitization of *Bacillus cereus* spores in minced meat treated with cinnamaldehyde. *Radiation Physics and Chemistry* 81, 8, 1173-1176
- Khelifi, E., Touhami, Y., Thabet, O.B.D., Ayed, L., Bouallagui, H., Fardeau, M.L., Hamdi, M. (2012) Exploring bioaugmentation strategies for the decolourization of textile wastewater using a two species consortium (*Bacillus cereus* and *Bacillus pumilus*) and characterization of produced metabolites. *Desalination and Water Treatment*, 45, 1-3, 48–54.
- Bouallagui, H., Touhami, Y., Hanafi, N., Ghariani, A and Hamdi, M, (2012) Performances comparison between three technologies for continuous bioethanol production from molasses. *Journal of biomass and Bioenergy* 48, 25-32.
- Lina Kallel, Véronique Desseaux, Moktar Hamdi, Pierre Stocker, El Hassan Ajandouz (2012) Insights into the fermentation biochemistry of Kombucha teas and potential impacts of Kombucha drinking on starch digestion. *Food Research International* 9 (1) 226-232
- Sajiâa Keskes, Hassib Bouallagui, Jean Jacques Godon, Sami Abid & Moktar Hamdi (2012): Biological sludge reduction during abattoir wastewater treatment process using a sequencing batch aerobic system, *Environmental Technology*, 1–9. DOI:10.1080/09593330.2012.696713.
- Khlifi, D., Hamdi, M., El Hayouni, A., Cazaux, S., Souchard, J.P., Couderc, F, Bouajila, J. (2011) Global chemical composition and antioxidant and anti-tuberculosis activities of various extracts of *globularia alypum* L. (*globulariaceae*) leaves *Molecules*, 16, 12, 10592–10603.
- Hayouni, E.A., Miled, K., Boubaker, S., Bellasfar, Z., Abedrabba, M., Iwaski, H., Oku, H., Matsui, T., Limam, F., Hamdi, M. (2011) Hydroalcoholic extract based-ointment from *Punica granatum* L. peels with enhanced in vivo healing potential on dermal wounds *Phytomedicine*, vol. 18, no. 11, pp. 976–984.
- Faten Saïdane Bchir, Hana Gannoun, Soumaya El Herry, Moktar Hamdi. (2011) Optimization of *Spongiochloris* sp. biomass production in the abattoir digestate *Bioresource Technology*, 102, 4, 3869 – 3876.
- Ben Thabet OB, W. Terres, Eltaief K, Cayol JL, Hamdi M, Fauque G, Fardeau ML. (2011) *Desulfovibrio legallis* sp. nov.: A Moderately Halophilic, Sulfate-Reducing Bacterium Isolated from a Wastewater Digester in Tunisia. *Curr Microbiol.* 62, 2, 486-491.
- Ben Hania, W., Ghodbane, R., Postec, A., Brochier-Armanet, C., Hamdi, M., Fardeau, M.-L., Ollivier, B. (2011) Cultivation of the first mesophilic representative ("mesotoga") within the order Thermotogales. *Systematic and Applied Microbiology* 34 (8) 581-585
- Fathia Aouidi, Samia Ayari, Hana Ferhi, Sevastianos Roussos, Moktar Hamdi. (2011) Gamma irradiation of air-dried olive leaves: Effective decontamination and impact on the antioxidative properties and on phenolic compounds. *Food Chemistry* 127, 1105–1113.

- Hajer Alouia, K. Khwaldiaa, M. Ben Slamab, M. Hamdi (2011). Effect of glycerol and coating weight on functional properties of biopolymer-coated paper. *Carbohydrate Polymers*. 86, 2, 1063–1072,
- Hamida Ksontini, Faten Kachouri and Moktar Hamdi (2011). Microflora distribution and assessment of microbiological quality milk from Tunisian collection centres. *African Journal of Microbiology Research* 5 (12) 1484-1491.
- Albert Hurtado, Nada Ben Othman, Nadia Chammem, Moktar Hamdi, Sergi Ferrer, Cristina Reguant, Albert Bordons, Nicolas Rozès (2011) Characterization of *Lactobacillus* isolates from fermented olives and their bacteriocin gene profiles. *Food Microbiol.*, 28, 1514-1518.
- Mathlouthi N, T. Bouzaienne, I. Oueslati, F. Recoquillay, M. Hamdi, M. Urdaci, and R. Bergaoui. (2011) Use of rosemary, oregano, and a commercial blend of essential oils in broiler chickens: In vitro antimicrobial activities and effects on growth performance. *J. Anim. Sci.* 90 (3) 813-823
- Cherif Hayet, Touhami Youssef, Shayeb Hédi and Hamdi Moktar (2011) Characterization of *Lactobacillus* isolates from fermented olives and their bacteriocin gene profiles. *Sustain. Environ. Res.*, 21(1), 65-72.
- Ziadi Manel, M<sup>h</sup>ir Sana, Kbaier Nedja, Hamdi Moktar and Ferchichi Ali (2011) Microbiological analysis and screening of lactic acid bacteria from Tunisian date palm sap. *African Journal of Microbiology Research* 5(19), 2929-2935.
- Issam Smaali, Asma Souissi, Hassib bouallegui, Nizar Chaira, Moktar Hamdi M Nejib Marzouki (2011) Production of high-fructose syrup from date by-products in a packed bed bioreactor using a novel thermostable invertase from *Aspergillus awamori*. *Biocatalysis and Biotransformation*. 1–9
- Ilhem Omri, Hassib Bouallagui, Fathia Aouidi, Jean-Jacques Godon, Moktar Hamdi (2011) H<sub>2</sub>S gas biological removal efficiency and bacterial community diversity in biofilter treating wastewater odor *Bioresource Technology*, 102, 22, 10202–10209.
- Lakhal R, Auria R, Davidson S, Ollivier B, Durand MC, Dolla A, Hamdi M, Combet-Blanc Y. (2011) Oxygen uptake rates in the hyperthermophilic anaerobe *Thermotoga maritima* grown in a bioreactor under controlled oxygen exposure: clues to its defence strategy against oxidative stress. *Arch Microbiol.* 193 (6) 429-38.
- Hamdi M (2010) Oxygen regulator element to reduce the climate change: the oxygen users must pay those who produce it. *Rev Environ Sci Biotechnol*. 9, 3, 187-192
- Sayeh R, Birrien JL, Alain K, Barbier G, Hamdi M, Prieur D. (2010) Microbial diversity in Tunisian geothermal springs as detected by molecular and culture-based approaches. *Extremophiles*. 14, 6, 501-505.
- Ziadi M, Rezouga F, Bouallagui H, Baati L, Ben Othman N, Thonart P, Hamdi M (2010) Kinetic study of *Lactococcus lactis* strains growth on papain-hydrolysed whey. *World J Microbiol Biotechnol*.
- Khelifi N, Ben Romdhane E. Hedi A, Postec A, Fardeau M, Hamdi M, Tholozan JL, Ollivier B Hirschler-Rea A (2010) Characterization of *Microaerobacter geothermalis* gen. nov., sp. nov., a novel microaerophilic, nitrate- and nitrite-reducing thermophilic bacterium isolated from a terrestrial hot spring in Tunisia. *Extremophiles* (2010) 14:297–304.

- Khelifi N, Grossi V, Hamdi M, Dolla A, Tholozan JL, Bernard O, Hirschler-Rea A (2010) Anaerobic Oxidation of Fatty Acids and Alkenes by the Hyperthermophilic Sulfate-Reducing Archaeon *Archaeoglobus fulgidus*. *App. Environ. Microbiol.* 3057–3060
- Ayari S, Dussault D, Millette M, Hamdi M, Lacroix M. (2010) Response of *Bacillus cereus* to gamma-Irradiation in Combination with Carvacrol or Mild Heat Treatment. *J Agric Food Chem.* 58, 8217-8224
- Aouidi F, Khelifi E, Asses N, Ayed L, Hamdi M. (2010) Use of cheese whey to enhance *Geotrichum candidum* biomass production in olive mill wastewater. *J Ind Microbiol Biotechnol.* 37(8), 877-82.
- Bouallagui H, L. Marouani, M. Hamdi (2010) Performances comparison between laboratory and full-scale anaerobic digesters treating a mixture of primary and waste activated sludge. *Resources, Conservation and Recycling.* 55, 1, 29-33
- Olfa Khelifi, Toyo Kodama, Hassib Bouallagui, Moktar Hamdi. (2010) Fouling propensity of soluble microbial products in membrane bioreactors *Journal of Biotechnology,* 150, 289-290.
- Hayouni, E.A., Bouix, M., Ben Brahim, N., Hamdi, M. (2010) Comparison of the modes of action, on LAB, of two myrtaceae essential oils by flow cytometry and predictive microbiology *Acta Horticulturae,* 853, 403–418
- Raja Lakhal, Richard Auria, Sylvain Davidson, Bernard Ollivier, Alain Dolla, Moktar Hamdi and Yannick Combet-Blanc. (2010) Effect of oxygen and redox potential on glucose fermentation in *Thermotoga maritima* under controlled physicochemical conditions. *Internat. Int. Journal Microbiol.* 2010: 896510.
- M'hir Sana, Rizzello Carlo, Di Cagno Raffaella, Cassone Angela, Hamdi Moktar. Use of selected enterococci and *Rhizopus oryzae* proteases to hydrolyse wheat proteins responsible for celiac disease. *Journal of Applied Microbiology* 106(2) (2009) 421-31.
- Eltaief Khelifi, Hassib Bouallagui, Youssef Touhami, Jean-Jacques Godon, Moktar Hamdi. Bacterial monitoring by molecular tools of a continuous stirred tank reactor treating textile wastewater. *Bioresource Technology* 100 (2009) 629–633.
- Bouallagui Hassib, Boutheina Rachdi, Hana Gannoun and Moktar Hamdi. (2009) Mesophilic and thermophilic anaerobic co-digestion of abattoir wastewater and fruit and vegetable waste in anaerobic sequencing batch reactors. *Biodegradation* 20:401–409.
- Bouallagui H., H. Lahdheb, E. Ben Romdan, B. Rachdi, M. Hamdi. Improvement of fruit and vegetable waste anaerobic digestion performance and stability with co-substrates addition. *Journal of Environmental Management,* 90 (2009) 1844–1849.
- Nedra Asses, Lamia Ayed, Hassib Bouallagui, Sami Sayadi and Moktar Hamdi. (2009) Biodegradation of different molecular-mass polyphenols derived from olive mill wastewaters by *Geotrichum candidum*. *International Biodeterioration & Biodegradation,* 63, 407-413.
- Eltaief Khelifi, Lamia Ayed, Hassib Bouallagui, Youssef Touhami, Moktar Hamdi. Effect of nitrogen and carbon sources on Indigo and Congo red decolourization by *Aspergillus alliaceus* strain 121C. *Journal of Hazardous Materials* 163 (2009) 1056–1062.



- Olfa Ben Dhia Thabet, Hassib Bouallagui, Marie Laure Fardeau, Jean-luc Cayol, Bernard Ollivier, Moktar Hamdi. (2009). Anaerobic degradation of landfill leachate using an upflow anaerobic fixed-bed reactor with microbial reduction of sulphate. *Journal Hazardous Materials*, 167, 1–3, 1133-1140.
- Lahdheb Habiba, Bouallagui Hassib, Hamdi Moktar. (2009) Improvement of activated sludge stabilisation and filterability during anaerobic digestion by fruit and vegetable waste addition. *Bioresource Technology* 100, 1555–1560.
- Ben Yaghlene H, L. Coroller, I. Leguerinel, M. Hamdi, P. Mafart A. (2009) New predictive dynamic model describing the effect of the ambient temperature and the convective heat transfer coefficient on bacterial growth. *Int. J. Food Microbiol.* 133, 48-61.
- Ben Othman N, D. Roblain, N. Chammem, P. Thonart, M. Hamdi. (2009) Antioxidant phenolic compounds loss during the fermentation of Chetoui olives. *Food Chemistry* 116, 662-669.
- Ayari Samia, Dominic Dussault, Mathieu Millette, Moktar Hamdi, Monique Lacroix. (2009) Changes in membrane fatty acids and murein composition of *Bacillus cereus* and *Salmonella Typhi* induced by gamma irradiation treatment. *Int. J. Food Microbiol.* 135, 1–6.
- Imène Jaziri, Mourad Ben Slama, Houcine Mhadhbi, Maria C. Urdaci, Moktar Hamdi. (2009) Effect of green and black teas (*Camellia sinensis* L.) on the characteristic microflora of yogurt during fermentation and refrigerated storage. *Food Chemistry* 112, 614–620
- Ziadi Manel, Gaelle Bergot, Pascal Courtin, Emilie Chambellon, Moktar Hamdi, Mireille Yvon (2009) Amino acid catabolism by *Lactococcus lactis* during milk fermentation. *International Dairy Journal* (2009) 1–7.
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- Gannoun H., Bouallagui H. Okbi A, Sayadi S., and Hamdi M. Mesophilic and Thermophilic Anaerobic Digestion of Biologically Pretreated Abattoir Wastewater in an Upflow Anaerobic Filter. *Journal of Hazardous Materials*, 170 (2009) 263–271.
- Ziadi. M., M'Hir. S., M. Abdeslam, Thonart. P, Hamdi M. (2009) Production and Freeze of Leben Lactic Starter. *Research Journal of Microbiology*, 4(1) 31-37.
- Fathia Aouidi, Hana Gannoun, Nada Ben Othman, Lamia Ayed, Moktar Hamdi (2009) Improvement of fermentative decolorization of olive mill wastewater by *Lactobacillus paracasei* by cheese whey's addition *Process Biochemistry*, 44, 5, 597-601
- Sana M'hir, Jean-Marc Aldric, Thami El-Mejdoub, Jaqueline Destain, Mondher Mejri, Moktar Hamdi, Phillippe Thonart. (2008) Proteolytic breakdown of gliadin by *Enterococcus faecalis* isolated from Tunisian fermented dough. *World J Microbiol Biotechnol* 24 2775–2781.
- Ben Othman N., L. Ayed, N. Assas, F. Kachouri, M. Hammami, M. Hamdi (2008). Ecological removal of recalcitrant phenolic compounds of treated olive oil mill wastewater by *Pediococcus Pentosaceus*. *Bioresouce Technology* 99; 2996-3001.

- Ben Othman N., D. Roblain, P. Thonart, M. Hamdi. (2008) Tunisian Table olive phenolic compounds and their antioxidant capacity. *Journal of Food Science*, 73, 4, 235-240.
- Haouari Olfa, Marie-Laure Fardeau, Jean-Luc Cayol, Corinne Casiot, Françoise Elbaz-Poulichet, Moktar Hamdi, Manon Joseph, and Bernard Ollivier. (2008) *Desulfotomaculum carthaginum* sp. nov., a novel thermophilic sulfate- arsenate-reducing bacterium isolated from a Tunisian hot spring. *International Journal of Systematic and Evolutionary Microbiology* 58, 2529 - 2535.
- Khelifi E., H. Gannoun, Y. Touhami, H. Bouallagui, M. Hamdi. (2008) Aerobic decolorization of the Indigo dye-containing textile wastewater using a combined Continuous Stirred Tank Reactor and Fixed Film Bioreactor. *Journal of Hazardous Materials* 152 683–689.
- Gannoun H., E. Khelifi, H. Bouallagui, Y. Touhami, M. Hamdi. (2008). Ecological clarification of cheese whey prior to anaerobic digestion in up flow anaerobic filter. *Bioresource Technology* 99, 6105-6111.
- El Hayouni A., Chraief I., Abderabba M., Bouix M., Levaeu JY, M. Hamdi (2008) Tunisian salvia essential oils composition and their preservative effect against *Salmonella* sp. Inoculated in minced beef meat. *International Journal of Food Microbiology* 125, 242–251.
- El Hayouni A., Abderabba M., Bouix M., Levaeu JY, M. Hamdi (2008) Mechanism of action of *Melaleuca armillaris* (Sol. Ex Gaertn) Sm. essential oil on six LAB strains as assessed by multiparametric flow cytometry and automated microtiter-based assay. *Food Chemistry* 111, 707–718.
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- 2011: Ismail Trabelsi, Abdelwahheb Chatti, Mokhtar Hamdi, Mohamed Ben Amor, Mariam Kasmi. Development of a ecotechnological Processes for Production of microbial cell and metabolites from the non-consumable soft drinks. Tunisian Patent 2011/0555

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#### **More than 20 publications in refereed Conference Proceedings**

**Member of editorial boards:**

- Natural and Environ. Science (associate editor)
- Bioprocess Engineering,
- African Journal of Biotechnology,
- Review of Scientific Env. Biotechnology.
- Cell and plant Science
- ISRN Chemical Eng.

**Chairman** of Vth International Symposium on Anaerobic Digestion of Solid Wastes and Energy Crops, Hammamet, Tunisia, May 25 to 28 (2008) - IWA:

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Reviewer in some International Journals (App. Env. Microbiol., Food chem., Biores. Technol., Process Biochem, J. Chemical Technol. Biotechnol., J. Agricultural. Food Chem...).

Member of scientific committee of many International conferences (bioengineering and and environmental processes).

**Scientific society**

- Vice président "Bureau de l'Association Tunisienne de Biotechnologie"
- Member de l'AFEM (French Association of Microbial ecology)
- Member of International Water Association (IWA) and Member of **Anaerobic Digestion** Specialist: Responsible of North Africa and Middle East region
- Member of New York Academy of Sciences
- Member of Institute Food Technologists (IFT)

Biography in "The marquis who is who from 2000

Award of young Arab researcher in life sciences 1997 from Chouman foundation

HOBBY: Reading and writing, **Football** (Coach 2° degree FTF, **Licence B - CAF**, 1° degree FFF)