**References**

. Lemanceau P., Heulin T., 1998 - La rhizosphère. In: P. Stengel , S. Gelin , Sol Interface Fragile. p. 93-106.

. Lynch J.M., Wipps J.M., 1990 - Substrate flow in the rhizosphere. Plant and Soil. 129, 1-10.

. Wardle D.A., Van Der Putten W.H., 2002 - Biodiversity, ecosystem functioning and above-ground-below-ground linkages. In Biodiversity and ecosystem functioning synthesis and perspectives. Loreau M., Naeem S., Inchausti P. Ed. Oxford University Press: 155-168.

. Brimecombe M.J., De Leij F.A., Lynch J.M., 2000 - The effect of root exudates on rhizosphere microbial populations. In The Rhizosphere, Biochemistry and Organic Substances at the Soil– Plant Interface (eds R. Pinton, Z. Varini, P. Nannipieri), pp. 95- 140. Marcel Dekker, New York, NY, USA.

. Gouzou L., Burtin G., Philippy R., Bartoli F., Heulin T., 1993 - Effect of inoculation with Bacillus polymyxa on soil aggregation in the wheat rhizosphere: preliminary examination. Geoderma 56, 479-491.

. Beatty P.H., Jensen S.E., 2002 - Paenibacillus polymyxa produces fusaricidin-type antifungal antibiotics active against Leptosphaeria maculans, the causative agent of blackleg disease of canola. Can. J. Microbiol. 48, 159-169.

. Atlas R.M., Bartha R., 1987 - Microbial ecology: Fundamentals and applications. Benjamin. Cummins Publ. Menlo Park CA.

. Derrien D., Marol C., Balesdent J., 2004 - The dynamics of neutral sugars in the rhizosphere of wheat. An approach by 13C pulse-labelling and GC/C/IRMS. Plant and Soil, 267, 243-253.

. Kaci Y., 1987 - Isolement de bactéries diazotrophes de la rhizosphère du blé dur: évaluation de leur activité nitrogénasique in vitro. Thèse de Magister en Biologie des sols, Option : Microbiologie du sol. ISN/USTHB : 84.

. Lacey J., 1997 - Actinomycetes in composts. Ann. Agric. Environ. Med., 4, 113– 121.

. Goodfellow M., Williams S.T., 1983 - Ecology of actinomycetes. Ann. Rev. Microbiol, 37, 189-216.

. Solecka J., Zajko J., Postek M, Rajnisz A., 2012 - Biologically active secondary metabolites from Actinomycetes. Cen. Europ. J Biol., 7, 373-39.

. Phoebe, C.H., Cambie, J., Albert, F.G., Van Tran, K., Cabrera, J., Correira, H.J., Gruo, Y., Lindermuth, J., 2001 - Extremophilic organis ms as an unexplored source of antifungal compounds. Journal of Antibiotics. 54, 56-65.

. Aouiche A., 2010 - Recherche sur les actinomycètes des sols de Ghardaïa antagonistes de microorganismes pathogènes et toxinogènes pour l’homme: isolement, taxonomie et caractérisation des molécules actives. Mémoire de Magister en microbiologie, Université de Sidi Bel Abbes. 127 p.

. Aouiche A, Sabaou N, Meklat A, Zitouni A, Bijani C, Mathieu F, Lebrihi A., 2012 - Saccharothrix sp. PAL54, a new chloramphenicol producing strain isolated from a Saharan soil. World Journal of Microbiology and Biotechnology, 28, 943-951.

. Powell D.A., and Nahata M.C., 1982 - Chloramphenicol: new perspectives on an old Drug intelligence and clinical pharmacy, 16, 295-300.

. Touati A., 2006 - Caractérisation des phénotypes de résistance acquis aux β- lactamines des souches d’entérobactéries isolées dans les hôpitaux de Bejaia. Doctorat soutenu à l’Université A. Mira de Bejaia.

. Messai Y., Iabadene H., Benhassine T., Alouache S., Tazir M., Guatier V., Arlet G. and Bakour R., 2008 - Prevalence and characterization of extended–spectrum β– lactamases Klebsiella pneumoniae in Algiers hospitals (Algeria). Pathologie Biologie, 56, 319-325.

. Bouras N., Mathieu F., Sabaou N., Lebrihi A., 2006 - Effect of amino acids containing sulfur on dithiolopyrrolone antibiotic productions by Saccharothrix algeriensis NRRL B-24137. Journal of Applied Microbiology, 100, 390-397.

. Shirling B., Gottlieb D., 1966 - Methods for characterization of Streptomyces species. International Journal of Systematic Bacteriology, 16, 3313-3340.

. Pfefferle, C., Theobald, U., Gürtler, H., Fiedler, H-P., 2000 - Improved secondary metabolite production in the genus Streptosporangium by optimization of the fermentation conditions. Journal of Biotechnology, 80: 135-142.

. Raffaelli D., van der Putten W., Persson L., Wardle D.A., Petchey O., Koricheva J., van der Heijden M., Mikola J., Kennedy T., 2002 - Multi-trophic dynamics and ecosystem processes. In. Biodiversity and Ecosystem Functioning: Synthesis and Perspectives. ed. / M. Loreau; S. Naeem; P. Inchausti. New York : Oxford University Press, 2002. p. 147-154.

. Zitouni, A., 2004 - Etude taxonomique et des propriétés antagonistes des Nocardiopsis et des Saccharothrix des sols sahariens et production de nouveaux antibiotiques par Saccharothrix sp. 103. Thèse de Doctorat, INP-ENSAT, 230 p.

. Prescott M.I., Harle J.D., Klein D.A., 2002 - Microbiology of Food. 5th ed. McGraw-Hill Ltd, New York, USA. pp. 964-976.

. Toumatia O., 2010 - Actinomycetes sahariens producteurs d‘antifongiques: isolement, taxonomie, caractérisation des antibiotiques et essais de lutte contre les maladies de plantes. Magister de Microbiologie, ENS. de Kouba, Alger, 115 p.

. Driche E., 2010 - Recherche des Streptomyces actifs contre quelques bactéries pathogènes multi-résistantes aux antibiotiques. Mémoire de Magister en microbiologie, ENS de Kouba. 121 p.

. Strub C., 2008, - Modélisation et optimisation de la production de thiolutine chez Saccharothrix algeriensis. Thèse de Doctorat de l’Institut National Polytechnique de Toulouse, France. 203 p.

. Jonsbu, E., Christensen, B., Nielsen, J., 2001 - Changes of in vivo fluxes through central metabolic pathways during the production of nystatin by Streptomyces noursei in batch culture. Appl. Microbiol. Biotechnol., 56, 93-100.