


Slimane KHAYI (M)

Born in 19 September 1986, Agourai (Morocco)

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Scientific parcours

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| Since January 2017 | Researcher, National Institute of Agriculture Research, Regional Center of Agriculture Recherche Rabat (INRA-Morocco)
Rabat, Morocco.
Main fields of interest: <ul style="list-style-type: none">➤ Date palm genomics➤ Genomics of Argane tree➤ Genomics of plants associated Microroganims |
| 2016-2017 | Contractual researcher at the Institute for Integrative Biology of the Cell (I2BC): <ul style="list-style-type: none">➤ Phenotypic and Genomospecies revision of the <i>Pectobacetrrium wasabiae</i> clade. |
| 2011-2015 | Doctoral thesis at I2BC, plant-bacteria interaction group, Gif sur Yvette, France, supervisors: Dr. Denis Faure (CNRS) & Pr. Mohiedine Moumni (UMI): <ul style="list-style-type: none">➤ Comparative genomics of the bacteria <i>D. solani</i> and <i>P. wasabiae</i>, emerging pathogens of <i>Solanum tuberosum</i>. |
| 2011 (6 months) | End-of-study Master project in LECA (Laboratoire d'Ecologie Alpine), Grenoble, France, supervisor: Dr. Jean-Marc Bonneville: <ul style="list-style-type: none">➤ Metagenomic approach to characterize the microbial communities in periphytic biofilm of an intermittent river (Albarine, France) by pyrosequencing. |

Education

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| 2011-2015 | Joint doctorate in Biology by Université Paris-Saclay (France) & Université Moulay Ismaïl (Morocco): |
| 2009-2011 | Master degree in Biotechnology from Université Moulay Ismaïl (Morocco) |

Area of expertise

Microbiology, Comparative genomics, Molecular Biology, Molecular phylogeny, computational biology

Teaching experience

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| Since Jaunary 2018 | Tutoring theoretical and practical courses for the master of Bioinformatics, Faculty of Science, Meknès.
The courses cover the following topics: <ul style="list-style-type: none">-Introduction to Next Generation Sequencing technologies-Linux for biologists |
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-Introduction to programming languages in biology (Python & Bash scripting)

Publications

Ed-Dra A, Filali FR, **Khayati S**, Oulghazi S, Bouchrif B, El Allaoui A, et al. Antimicrobial resistance, virulence genes, and genetic diversity of *Salmonella enterica* isolated from sausages. **Eur J Microbiol Immunol**. **2019**;1–6.

Khayati S, Azza, N.E., Gaboun, F., Pirro, S., Badad, O., Claros, M.G., Lightfoot, D.A., Unver, T., Chaouni, B., Merrouch, R., et al. (2018). First draft genome assembly of the Argane tree (*Argania spinosa*). **F1000Research** 7, 1310.

Khayati S, Blin, P., Chong, T.M., Chan, K.-G., and Faure, D. (2018). Complete Chromosome and Plasmid Sequences of Two Plant Pathogens, *Dickeya solani* Strains D s0432-1 and PPO 9019. **Genome Announc**. 6.

Khayati S, Blin, P., Chong, T.M., Robic, K., Chan, K.-G., and Faure, D. (2018). Complete Genome Sequences of the Plant Pathogens *Dickeya solani* RNS 08.23.3.1.A and *Dickeya dianthicola* RNS04.9. **Genome Announc**. 6

Oulghazi S, **Khayati S**, Laffik N, Massaoudi Y, El Karkouri A, El Hassouni M, et al. First Report of *Dickeya dianthicola* Causing Blackleg Disease on Potato in Morocco. **Plant Disease**. **2017**;101:1671.

Khayati S, Cigna J, Chong TM, Quêtu-Laurent A, Chan K-G, Hélias V, et al. Transfer of the potato plant isolates of *Pectobacterium wasabiae* to *Pectobacterium parmentieri* sp. nov. **International Journal of Systematic and Evolutionary Microbiology**. **2016**;66:5379–83.

Khayati S, Raoul des Essarts Y, Quêtu-Laurent A, Moumni M, Hélias V, Faure D. Genomic overview of the phytopathogen *Pectobacterium wasabiae* strain RNS 08.42.1A suggests horizontal acquisition of quorum-sensing genes. **Genetica**. **2015**;143:241–52.

Khayati S, Raoul des Essarts Y, Mondy S, Moumni M, Hélias V, Beury-Cirou A, et al. Draft Genome Sequences of the Three *Pectobacterium*-Antagonistic Bacteria *Pseudomonas brassicacearum* PP1-210F and PA1G7 and *Bacillus simplex* BA2H3: TABLE 1. **Genome Announcements**. **2015**;3:e01497–14.

Khayati S, Blin P, Pédrón J, Chong T-M, Chan K-G, Moumni M, et al. Population genomics reveals additive and replacing horizontal gene transfers in the emerging pathogen *Dickeya solani*. **BMC Genomics**. **2015**;16:788.

Khayati S, Blin P, Chong TM, Chan K-G, Faure D. Complete genome anatomy of the emerging potato pathogen *Dickeya solani* type strain IPO 2222T. **Standards in Genomic Sciences**. **2016** [cited 2017 Sep 7];11. Available from: <http://standardsingenomics.biomedcentral.com/articles/10.1186/s40793-016-0208-0>

Khayati S, Mondy S, Beury-Cirou A, Moumni M, Hélias V, Faure D. Genome Sequence of the Emerging Plant Pathogen *Dickeya solani* Strain RNS 08.23.3.1A. **Genome Announcements**. **2014**;2:e01270–13 – e01270–13.

Fellahi S, El Harrak M, **Khayati S**, Guerin J-L, Kuhn JH, El Houadfi M, et al. Phylogenetic analysis of avian infectious bronchitis virus isolates from Morocco: a retrospective study (1983 to 2014). **Virologica Sinica**. **2017**;32:155–8.

Fellahi S, EL Harrak M, Ducatez M, Loutfi C, Koraichi SIS, Kuhn JH, **Khayati S**, et al. Phylogenetic analysis of avian infectious bronchitis virus S1 glycoprotein regions reveals emergence of a new genotype in Moroccan broiler chicken flocks. **Virology Journal**. **2015** [cited 2015 Aug 4];12. Available from: <http://www.virologyj.com/content/12/1/116>

Communications

Orale Communication: **Diversification par transferts horizontaux et traits d'espèce du phytopathogène émergent *Dickeya solani***. “3ème colloque de Génomique Environnementale”, Montpellier, October, 26-28, 2015, France.

Orale Communication: **Population genomics reveals horizontal gene transfers in the emerging pathogen *Dickeya solani***, “9ème colloque de la Société Française de Phytopathologie”, Colmar, June 2-5, 2015, France.

Languages

Arabic (mother tongue); English (fluent); French (bilingual proficiency)