



Dr. BOCHRA AMINA BAHRI

Assistant Professor

Department of Plant Pathology | Institute of Plant Breeding, Genetics, and Genomics
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EDUCATIONAL QUALIFICATIONS

- **Ph.D. (Life Sciences and Plant Pathology)** **2008**
University of Paris XI Orsay, France
- **M.S. (Plant Protection and Environment)** **2003**
Agro-Paris-Tech, France
- **Dipl. Ing. agr. Agricultural Sciences and Plant Protection** **2002**
National Institute of Agronomy Tunis, Tunisia

WORK EXPERIENCE

- **Assistant professor** at the National Agronomic Institute of Tunisia in epidemiology, race dynamics, population structure, pathogen adaptation to hosts and to climate change, and resistance gene identification in diverse plant-pathogen systems.
- **Postdoctoral position** in Genetic Analysis & Mapping at UGA in the lab of Katrien Devos (USA).
- **Postdoctoral position** in Molecular Biology at the University of Aarhus in the lab of Mogens Hovmoller (Denmark)
- MS degree from the National Agronomic Institute of Paris-Grignon and a PhD from the University of Paris XI in wheat yellow rust under the direction of Claude de Vallavieille-Pope and Jerome Enjalbert

RESEARCH INTERESTS

- Turfgrass and Forage Pathology
- Pathogen Biology
- Population Genetics
- Host Resistance
- Plant Breeding
- Bioinformatics and Computational Biology

PUBLICATIONS

- Ozyigit I, Jenfoui H., Uras ME, **Bahri B.A.**, Souissi T., 2021. Morphological variation, genetic diversity and phylogenetic relationships of *Hypericum triquetrifolium* Turra populations from Tunisia, 2021. Biotechnology and biotechnological equipment. *In press*
- Willis Turner Spratling, Suraj Sapkota, Brian Christopher Vermeer, Jason Mallard, Emran Ali, Alfredo Martinez-Espinoza and **Bochra Amina Bahri**, 2021. First Report of Gray Leaf Spot Caused by *Pyricularia oryzae* (synonym: *Magnaporthe oryzae*) in Oat (*Avena sativa*) in Georgia, USA. Plant Disease. <https://doi.org/10.1094/PDIS-06-21-1182-PDN>.
- Sapkota S., P. L. Raymer, A. D. Martinez-Espinoza and **B. A. Bahri**, 2021. First report of stem rust, caused by *Puccinia graminis* subsp. *graminicola*, and crown rust, caused by *Puccinia coronata* var. *avenae* f. sp. *avenae*, on tall fescue (*Festuca arundinacea*) in Georgia, USA. Plant Disease. doi: 10.1094/PDIS-01-21-0190-PDN.

- Stackhouse T. Waliullah S. Martinez-Espinoza A., **Bahri B. A.**, Ali Emran, 2021. Development of a Co-Dominant Cleaved Amplified Polymorphic Sequences Assay for the Rapid Detection and Differentiation of Two Pathogenic *Clavireedia* spp. Associated with Dollar Spot in Turfgrass. *Agronomy* 2021, 11(8), 1489.
- Sapkota S., Katherine E. Catching, Paul L. Raymer, Alfredo D. Martinez-Espinoza and **Bochra A. Bahri**, 2021. New approaches to an old problem: Dollar spot of turfgrass. *Phytopathology*. DOI: 10.1094/PHYTO-11-20-0505-RVW.
- Maroua Jerbi, Sonia Labidi, **Bochra A. Bahri**, Frédéric Laruelle, Benoit Tisserant, Faysal Ben Jeddi, Anissa Lounès-Hadj Sahraoui, 2021. Soil properties and climate affect mycorrhizal fungi and soil microbial communities in Mediterranean rainfed cereal cropping systems. *Pedobiologia* v87-88:150748.
- Peng Qi, Thomas H. Pendergast, Alex Johnson, **Bochra A. Bahri**, Soyeon Choi, Ali Missaoui, Katrien M Devos, 2021. Quantitative trait locus mapping combined with variant and transcriptome analyses identifies a cluster of gene candidates underlying the variation in leaf wax between upland and lowland switchgrass ecotypes. *Theoretical and Applied Genetics*, *in press*.
- Maroua Ouaja, **Bochra A. Bahri**, Lamia Aouini, Sahbi Ferjaoui, Maher Medini, Thierry C. Marcel, Sonia Hamza, 2021. Morphological characterization and Genetic diversity analysis of a Tunisian durum wheat (*Triticum turgidum* var. *durum*) collection. *BMC genomic Data*, 22(3).
- S. Sapkota, A. D. Martinez-Espinoza, E. Ali, C. B. Vermeer and **B. A. Bahri**, 2020. Taxonomical identification of *Clavireedia* species causing dollar spot disease of turfgrass in Georgia. *Plant Disease*. <https://doi.org/10.1094/PDIS-03-20-0603-PDN>
- H. Hadizadeh, **Bochra Bahri**, Peng Qi, Henry Wilde and Katrien Devos, 2020. Intra- and interspecific diversity analyses in the genus *Eremurus* using genotyping-by-sequencing reveal geographic population structure. *Horticulture Research*, 7:30. <https://doi.org/10.1038/s41438-020-0265-9>
- **Bahri B.A.**, Guillaume Daverdin, Xiangyang Xu, Jan-Fang Cheng, Kerrie W. Barry, E. Charles Brummer, Ali Missaoui, Katrien M. Devos, 2020. Natural variation in lignin and pectin biosynthesis-related genes associated with switchgrass (*Panicum virgatum* L.) ecotype differentiation. *BioEnergy Research*, 13:79–99.
- R. El Amil, S. Ali, **B. Bahri**, M. Leconte, C. de Vallavieille-Pope, K. Nazari, 2020. Pathotype diversification of the invasive PstS2 clonal lineage of *Puccinia striiformis* f. sp. *tritici* causing yellow rust on durum and bread wheat in Lebanon and Syria. *Plant Pathology*. <https://doi.org/10.1111/ppa.13164>
- E. Abdellatifa, M. Kałużnaf, P. Ferrante, M. Scortichini, **B. Bahri**, J. D. Janse, J. van Vaerenberg, S. Baeyen, P. Sobiczewski and A. Rhouma, 2020. Phylogenetic, genetic, and phenotypic diversity of *Pseudomonas syringae* pv. *syringae* strains isolated from citrus blast and black pit in Tunisia. *Plant Pathology*, 69(8): 1414-1425. <https://doi.org/10.1111/ppa.13244>
- Ghimire B., Sapkota S., **Bahri B.A.**, Martinez-Espinoza A., Buck J.W. and Mergoum M., 2020. Fusarium Head Blight and rust disease in soft red winter wheat in the southern United States: States of the art, challenges and future perspective for breeding. *Frontiers in Plant Science*. 10.3389/fpls.2020.01080
- Maroua Ouaja, Lamia Aouini, **Bochra A. Bahri**, Sahbi Ferjaoui, Maher Medini, Thierry C. Marcel, Sonia Hamza, 2020. Identification of valuable sources of resistance to *Zymoseptoria tritici* in the Tunisian durum wheat landraces. *European Journal of Plant Pathology*.
- Sabrine Dhaouadi, Amira Mougou Hamdane, **Bochra A. Bahri**, Ali Rhouma, Elizabeth J. Fichtner, 2019. First report of *Rhodococcus* spp. isolates causing stunting and lateral stem proliferation of *Iresine herbstii* ‘Aureo-Reticulata’ in Tunisia. *Phytopathologia Mediterranea*, 58(2).
- **B.A. Bahri**, G. Mechichi, W. Rouissi, I. Ben Haj Jilani, Z. Ghrabi-Gammar, 2019. Effects of cold storage facility characteristics on virulence and sporulation of *Penicillium expansum* and the efficacy of essential oils against blue mold rot of apples. *Folia Horticulturae*. 31. 10.2478/fhort-2019-0024.
- Kalai-Grami L., **Bahri B.A.**, Chemekh M., Hammami M., Limam F., Hajlaoui M.R., 2019. Evaluation of antifungal activities of three Lamiaceae essential oils against *Phoma tracheiphila*. *Tunisian Journal of Plant Protection* 14(1): 11-32.

- **Bahri B.A.**, Saadani M., Mechichi G., Rouissi W., 2019. Genetic diversity of *Colletotrichum gloeosporioides* associated with citrus wither-tip of twigs in Tunisia using microsatellite markers. *Journal of Phytopathology*; 164(6):351-362.
- Srinivasa R. Chaluvadi, Porter Young, Kentrez Thompson, **Bohra Amina Bahri**, Bhavesh Gajera, Subhash Narayanan, Robert Krueger, Jeffrey L. Bennetzen, 2019. *Phoenix* phylogeny, genetic diversity, distribution and population structure characterized in a world collection of date palm (*Phoenix dactylifera*) and its wild relatives. *Plant Diversity*. <https://doi.org/10.1016/j.pld.2018.11.005>.
- **Bahri B.A.**, Belaid Y., Mechichi G., Rouissi W., 2019. Diversity of fungi associated with apples in cold storage facilities in Tunisia. *Journal of the American Pomological Society*; 73(1):62-75.
- Odonkor S., Choi S., Chakraborty D., Martinez-Bello L., Wang X., **Bahri B.A.**, Tenailon M.I., Panaud O. and Devos K.M., 2018. QTL mapping combined with comparative analyses identified candidate genes for reduced shattering in *Setaria italica*. *Front. Plant Sci.*, 9:918. doi: 10.3389/fpls.2018.00918.
- **Bahri B.A.**, Daverdin G., Xu X., Cheng J-F., Barry K.W., Brummer E.C., and Devos K.M., 2018. Natural variation in genes potentially involved in plant architecture and adaptation in switchgrass (*Panicum virgatum* L.). *BMC Evolutionary Biology*, 14; 18(1):91. doi: 10.1186/s12862-018-1193-2.
- C. de Vallavieille-Pope, **B. Bahri**, M. Leconte, O. Zurfluh, Y. Belaid, E. Maghrebi, L. Huber, M. Launay, M.O. Bancal, 2018. Thermal generalist behavior of invasive *Puccinia striiformis* f.sp. *tritici* strains under current and future climate conditions. *Plant Pathology* 67, 1307-1320. doi: 10.1111/ppa.12840
- **Bahri, B.**, Mabrouk H., Chebil S., and Kallel S. (2017). Investigations into physiological, biochemical and histological modifications in a vine decline associated with biotic and abiotic factors. *Tunisian Journal of Plant Protection*, Vol 12, N1:35-52.
- Chebil S., Fersi R., Quaglino F., Chenenaoui S., Melki I., Zacchi E., **Bahri B.A.**, Bianco P.A., and Rhouma A. 2017. Fungi from the Diaporthaceae and Botryosphaeriaceae families associated with grapevine decline in Tunisia. *Ciencia e Investigacion Agraria*, 44(2):127-138.
- Eudy D.M., **Bahri B. A.**, Harrison M., Raymer P., and Devos K.M. (2017). Ploidy level and genetic diversity in the genus *Paspalum*, group *Disticha*. *Crop Science*, Vol 57, No. 6: 3319-3332.
- Schröder S., **Bahri B.**, Eudy, D.M., Layton, D.J., Kellogg, E.A., and Devos, K.M. (2016). Genetic diversity and origin of North American green foxtail [*Setaria viridis* (L.) Beauv.] accessions. *Genet Res Crop Evol* (2016). doi:10.1007/s10722-016-0363-6.
- Walter S., Ali S., Kemen E., Nazari K., **Bahri B.A.**, Enjalbert J., Hansen J.G., Brown, J.K.M., Sicheritz-Pontén T., Jones J., de Vallavieille-Pope C., Hovmøller M.S., and Justesen, A.F. (2016). Molecular markers for tracking the origin and worldwide distribution of invasive strains of *Puccinia striiformis*. *Ecology and Evolution*, 6(9): 2790-2804.
- Aichi-Yousfi H., **Bahri B.A.**, Medini M., Rouz S., NejibRejeb M., and Ghrabi-Gammar Z. (2016). Genetic diversity and population structure of six species of *Capparis* in Tunisia using AFLP markers. *Comptes Rendus Biologies*, 339 (11-12): 442-453.
- Daverdin G., **Bahri B.**, Wu X., Serba D., Tobias C., Saha M.C., Devos K.M. (2015). Comparative relationships and chromosome evolution in switchgrass (*Panicum virgatum*) and its genomic model, foxtail millet (*Setaria italica*). *BioEnergy Research*, 8(1): 137-151
- Ferjaoui S., Ben M'Barek S., **Bahri B.**, Ben Slimane R. and Hamza S. (2015) Identification of resistance sources to *Septoria tritici* blotch in old Tunisian durum wheat germplasm applied for the analysis of the *Zymoseptoria tritici*-durum wheat interaction. *Journal of Plant Pathology*, 97: 1-11
- Huang, P., Feldman, M., Schroder, S., **Bahri, B.**, Diao, X., Zhi, H., Estep, M., Baxter, I., Devos, K. M. and Kellogg, E. A. (2014). Population genetics of *Setaria viridis*, a new model system. *Molecular Ecology*, 23: 4912-4925.

- Medini M., Ferjaoui S., **Bahri B.**, Mhiri W., Hattab S., and Hamza, S. (2014). Bulk segregant analysis and marker-trait association reveal common AFLP markers for resistance to Septoria leaf blotch in Tunisian old durum wheat. *Biotechnol. Agron. Soc. Environ.*, 18:3-10.
- Serba D., Wu L., Daverdin G., **Bahri B.**, Wang X., Kilian A., Bouton J.H., Brummer E.C., Saha M.C., and Devos K.M. (2013). Linkage maps of lowland and upland tetraploid switchgrass ecotypes. *BioEnergyResearch*, 6:953-965.
- Kalai-Grami, L., **Bahri, B.**, Hajlaoui, M.R., and Boubaker, A. 2012. Comparison of growth, sporulation, germination and pathogenicity of two Tunisian isolates of *Phoma tracheiphila*, the causal agent of Mal Secco. *Tunisian Journal of Plant Protection*, 7:1-17.
- Mboup M., **Bahri B.**, Leconte M., de Vallavieille-Pope C., Katz O., and Enjalbert J. (2012). Genetic structure and local adaptation of European wheat yellow rust populations: The role of temperature specific adaptation. *Evolutionary Applications*, 5: 341–352. doi:10.1111/j.1752-4571.2011.00228.x.
- **Bahri B.**, Shah S.J.A., Leconte M., Enjalbert J., and de Vallavieille-Pope C. (2011). Genetic diversity of the wheat yellow rust population in Pakistan and its relationship with host resistance, *Plant Pathology*, 60:649-660.
- **Bahri B.**, Leconte M., de Vallavieille C., and Enjalbert J. (2009). Isolation of ten microsatellite loci in an EST library of the phytopathogenic fungus *Puccinia striiformis* f.sp. *tritici*. *Conservation Genetics*, 10:1425-1428.
- **Bahri B.**, Kalz O., Leconte M., and de Vallavieille C., Enjalbert J. (2009). Tracking costs of virulence in natural populations of the wheat pathogen, *Puccinia striiformis* f.sp. *tritici*. *Bio Med Central Evolutionary Biology*, 9(26). doi:10.1186/1471-2148-9-26
- **Bahri B.**, Leconte M., Ouffroukh A., de Vallavieille C., and Enjalbert J. (2009). Geographic limit of a clonal population of wheat yellow rust in the Mediterranean region. *Molecular Ecology*, 18:4165-4179.