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Education and Professional Experience

2002-2015: Researcher at ISPAAM Sassari

1993-2002: Researcher at Institute of Molecular Genetics, CNR Alghero, Sassari

1992: Researcher (Temporary position) at the Section of Population Genetics of the National Cancer Research (IST), Genoa, Italy

1991: Research Fellow at the Laboratory of Molecular Cytogenetics Imperial Cancer Research Fund, London,

1989-1992: Second level Degree in Microbiology and Virology Department of Biomedical Science, University of Sassari

1988: Degree in Biological Sciences, University of Sassari

Keywords

Molecular Genetic, Microbiology, Rhizobia, Plant Bacteria, Endophyte, Microorganism.

Selected publications (max 20)

1. Rosselli R., Fiamma M, Deligios M, Pintus G, Canu A, Duce P P, Squartini A, Muresu R, Cappuccinelli P (2015) Microbial immigration across the Mediterranean via airborne dust . Scientific Reports. In press
2. Muresu R, Tondello A, Polone E, Sulas L, Baldan B, Squartini A (2013) Antioxidant treatments counteract the non-culturability of bacterial endophytes isolated from legume Arch Microbiol. 195(6):385-91.

3. Mohammeda O., Benataa H., Noureddineb B., Abdelmoumena H., Muresu R., Squartini A.,. Missbah El Idrissia M. (2011) Diversity of rhizobia isolated from *Colutea arborescens* root nodules grown in different soils of eastern Morocco.. Arch Microbiol. 193(2):115-24.
4. Muresu R., Polone E., Sorbolini S., Squartini A. (2010) Characterization of endophytic and symbiotic bacteria within plants of the endemic association *Centaureetum horridae*. Plant Biosyst.
5. Muresu R., Maddau G., Delogu G., Cappuccinelli P., Squartini A. (2009) Bacteria colonizing root nodules of wild legumes exhibit virulence-associated properties of mammalian pathogens. (2010) Anton. van Leeuw. 97(2):143-53
6. Muresu R., Pollone E., Cappuccinelli P., Delogu G, Scarpa A.M., Squartini A. (2009) Wild legume root nodules as a potential reservoir for human pathogenic bacteria. Ann. of Microbiol. 59:97
7. Sulas L., Seddaiu G., Muresu R.,.Roggero P.P (2009) Nitrogen Fixation of Sulla under Mediterranean conditions. Agron. J. 101(6):1-9
8. Muresu R., Polone E, Sulas L, Baldan B, Tondello A, Delogu G, Cappuccinelli P, Alberghini S, Benhizia Y, Benhizia H, Benguedouar A, Mor B, Calamassi R, Dazzo F.B, Squartini A (2008). Coexistence of predominantly nonculturable rhizobia with diverse endophytic bacterial taxa within nodules of wild legumes. Fems Microbiology Ecology, vol. 63; p. 383-400, ISSN: 0168-6496
9. Muresu R., Polone E, Sulas L, Baldan B, Tondello A, Delogu G, Cappuccinelli P, Alberghini S, Benhizia Y, Benhizia H, Benguedouar A, Mori B, Calamassi R, Dazzo.F.B, And Squartini (2008). Non-culturable Rhizobia and diverse endophytic bacteria co-inhabiting wild legume nodules. In: M. Lorito, S. L. Woo, And F. Scala. Biology of Plant-Microbe Interactions. vol. 6.
10. H. Benata , O. Mohammed , B. Noureddine , B. Abdelbasset , H. Abdelmoumen , R. Muresu , A. Squartini , M.M. El Idrissi (2008) Diversity of bacteria that nodulate *Prosopis juliflora* in the eastern area of Morocco. Syst Appl Microbiol. 31(5): 378-86.
11. R. Muresu, L. Sulas, E. Polone and A. Squartini (2005) PCR primers based on different portions of insertion elements can assist phylogeny studies, strain fingerprinting and species identification in rhizobia. FEMS Microbiol. Ecol. 54: 445-453
12. Y. Benhizia, H. Benhizia A. Benguedouar, R. Muresu, A. Giacomini, A. Squartini (2004) Gamma proteobacteria can nodulate legumes of the genus *Hedysarum*. Syst Appl Microbiol. 27(4): 462-8.

13. R. Muresu, L. Sulas, S. Caredda (2003) Legume-Rhizobium symbiosis: characteristics and prospects of inoculation. (Review) Ital. J. of Agron. 1: 33-46