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简历:

1993年毕业于上海第二医科大学临床医学专业, 1995年前往德国, 在德国柏林洪堡大学先后获得了分子生物学硕士及博士。2003年-2011年任职于德国柏林洪堡大学微生物基因工程研究室, 从事有微生物的全基因组测序, 功能基因(组)的鉴定及分析, 菌株的改造, 菌种的分类及次级代谢产物的研究。

研究方向:

分子生物学

专家类别:

职务:

项目负责人

社会任职:

获奖及荣誉:

代表论著:

1. Borriss R, Chen XH, Rueckert C, Blom J, Becker A, Baumgarth B, Fan B, Pukall R, Schumann P, Spröer C, Junge H, Vater J, Pühler A, Klenk HP. Relationship of *Bacillus amyloliquefaciens* clades associated I with strains DSM 7T and FZB42: a proposal for *Bacillus amyloliquefaciens* subsp. *amyloliquefaciens* subsp. nov. and *Bacillus amyloliquefaciens* subsp. *plantarum* subsp. nov. based on their discriminating complete genome sequences. *Int J Syst Evol Microbiol.* 2010 Sep 3. [Epub ahead of print].
2. Fan B, Chen XH, Budiharjo A; Bleiss W, Vater J, Borriss R. Efficient colonization of plant roots by the plant growth promoting bacterium *Bacillus amyloliquefaciens* FZB42, engineered to express green fluorescent protein. *J Biotechnol.* 2011 Jan 13. [Epub ahead of print].
3. Rückert C, Blom J, Chen XH, Reva O, and Borriss R. Genome sequence of *B. amyloliquefaciens* type strain DSM7T reveals differences to plant-associated *B. amyloliquefaciens* FZB42. *J Biotechnol.* 2011 Jan 22. [Epub ahead of print].
4. Chen XH, Scholz R, Borriss M, Junge H, Mögel G, Kunz S, Borriss R. Difficidin and bacilysin produced by plant-associated *Bacillus amyloliquefaciens* are efficient in controlling fire blight disease. *J Biotechnol.* 2009 Mar 10; 140(1-2):38-44. Epub 2008 Nov 18.
5. Chen XH, Koumoutsi A, Scholz R, Schneider K, Vater J, Süßmuth R, Piel J, Borriss R. Genome analysis of *Bacillus amyloliquefaciens* FZB42 reveals its potential for biocontrol of plant pathogens. *J Biotechnol.* 2009 Mar 10; 140(1-2):27-37. Epub 2008 Nov 12.
6. Chen XH, Koumoutsi A, Scholz R, Borriss R. More than anticipated - production of antibiotics and other secondary metabolites by *Bacillus amyloliquefaciens* FZB42. *J Mol Microbiol Biotechnol.* 2009; 16(1-2):14-24. Epub 2008 Oct 29.
7. Moldenhauer J, Chen XH, Borriss R, Piel J. Biosynthesis of the antibiotic bacillaene, the product of a giant

polyketide synthase complex of the trans-AT family. *Angew Chem Int Ed Engl.* 2007; 46(43):8195-7. No abstract available.

8. Schneider K*, Chen XH*, Vater J, Franke P, Nicholson G, Borriss R, Süssmuth RD. Macrolactin is the polyketide biosynthesis product of the pks2 cluster of *Bacillus amyloliquefaciens* FZB42. *J Nat Prod.* 2007 Sep; 70(9):1417-23. Epub 2007 Sep 11. (* both contribute the same)
9. Koumoutsi A, Chen XH, Vater J, Borriss R. DegU and YczE positively regulate the synthesis of bacillomycin D by *Bacillus amyloliquefaciens* strain FZB42. *Appl Environ Microbiol.* 2007 Nov; 73(21):6953-64. Epub 2007 Sep 7.
10. Chen XH, Koumoutsi A, Scholz R, Eisenreich A, Schneider K, Heinemeyer I, Morgenstern B, Voss B, Hess WR, Reva O, Junge H, Voigt B, Jungblut PR, Vater J, Süssmuth R, Liesegang H, Strittmatter A, Gottschalk G, Borriss R. Comparative analysis of the complete genome sequence of the plant growth-promoting bacterium *Bacillus amyloliquefaciens* FZB42. *Nat Biotechnol.* 2007 Sep; 25(9):1007-14. Epub 2007 Aug 19.
11. Chen XH, Vater J, Piel J, Franke P, Scholz R, Schneider K, Koumoutsi A, Hitzeroth G, Grammel N, Strittmatter AW, Gottschalk G, Süssmuth RD, Borriss R. Structural and functional characterization of three polyketide synthase gene clusters in *Bacillus amyloliquefaciens* FZB 42. *J Bacteriol.* 2006 Jun; 188(11):4024-36.
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