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[Continued on next page]

(54) Title: USE OF CHELATING AGENT AND PEPTIDE ANTIMICROBIAL COMPOUNDS

Figure 1

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1 gatggcgatg aatgaacact gcgtttgctg gctttgatga aaatcgagtg caaccttaata
61 taatcaaata tgggtaagat gagagtggagg ttcccaacgt tagtggttgg actaggaata
121 gtattctctca tggcagtgctc aatttggtatt gcttatggag aaaaagatgt gctasagagt
181 catgagagggc ctgaggaaaag agaacaagag gagtggcaac ctaggagaca acgacctcaa
241 agtagaagggg aagagagaga gcaagagcaa gacgaggggt ctccctcata cccacgcagg
301 cagagtggttt atgagagggag acaataccat gagaggagtg agcagagggg agagagagag
361 caagaacaac aacaaggttc tccctcatac tcacgtagac aaaggaaacc ttatcacttc
421 agctctcaaa gattccaacac tctttacaaa aataggaaat gcaaaaatccg tgtgctcgag
481 aggtttgacc aaagaaccaa tagacttgag aatctccaaa actaccgcat tgttgagttc
541 caatcaaacac ctaacactct cattctccct aaacactctg atgctgacta cgtcctcggt
601 gtactcaatg gtatagccac aatcacgata gtaaacctct atagaagaca agcatataac
661 cttgagtatg gcgatgctct cagaatccca gctgggtcaa ctccatatat ccttaaccgc
721 gatgacaacc agaagcttag agtagtcaag ctgcgaatac ccatcaacaa tctggtctac
781 ttttatgatt tctatccatc gagtactaaa gaccaacaat cctacttcag tggcttcagc
841 aggaacactt tagaggccac cttcaatact cgttatgaag agatacaaa gattatttta
901 gggaatgagg atgagcaaga atatgaggaa caaaggcgtg ggcaagagca gagcgacca
961 gacgaggggg tgatagtgat agtttcaaa gaaacagatc aaaaattgac aaaaacagct
1021 caatcttcat caggaaaaga caaacctctt gattctgggc ccttcaactt gagaagcaat
1081 gagcccatat attcaaacaa gtatgggaac ttctatgaaa tcaactcaga tagaaacctt
1141 caagttcagg atttgaatat ctctctcacc tatataaaaa ttaacgaggg agctttgttg
1201 ttgccacact ataactcaaa ggcataatat gtagtctgtg ttgatgaagg agaaggaaat
1261 tatgaactgg taggttatcg agatcaacaa cgacaacaag atgagcaaga agagaagag
1321 gaagaagtga taaggatatg tgctagatta tcagaagggt acatttttgt aattccagca
1381 ggttatccaa ttccatccaa tgcttctctc aatcttctgt tgcttgagtt tggcatcaat
1441 gctgatgaaa accagaggaa tttctctcga ggttctaaag acaatgtgat aaggcagttc
1501 gatagagcag tgaatgagct cacattccct ggttctgctg aagatattga gagattaatc
1561 aaaaaccacac aacagtctta ctttgcaaat ggtcagcctc aacaacaaca acacaacaa
1621 agtgagaagg aggggaaggc tggaagaagg ggttcacatc ttccattttg agcaactttt
1681 actaagctgt tttaaaagct actatcatgt aagagctcat agtgagctac tgagagaata
1741 ataaaactaa agttggacct ttgtactaat aatgtaata aaaaaaaaaa a

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(57) **Abstract:** The inventors provide the use of a chelating agent and an antimicrobial agent that is effective against a plant pathogenic microorganism to inhibit the growth of and/or kill a plant pathogenic microorganism on a plant; the use of a chelating agent to increase the activity of an antimicrobial that is effective against a plant pathogenic microorganism; a method of inhibiting the growth of and/or killing a plant pathogenic microorganism comprising administering to a plant in need thereof a chelating agent and an antimicrobial agent that is effective against a plant pathogenic microorganism; and a method of increasing the activity of an antimicrobial that is effective against a plant pathogenic microorganism comprising using said antimicrobial with a chelating agent. Also provided is a composition comprising a chelating agent and an antimicrobial agent that is effective against a plant pathogenic microorganism, use of said composition to inhibit the growth of and/or kill a plant pathogenic microorganism on a plant, and a method of inhibiting the growth of and/or killing a

plant pathogenic microorganism comprising administering to a plant in need thereof said composition. Further provided is the use of a composition comprising an antimicrobial polypeptide comprising Blad or an active variant thereof to kill, or inhibit the growth of, a plant pathogenic bacterium on a plant, and a method of killing, or inhibiting the growth of, a plant pathogenic bacterium on a plant, said method comprising administering to said plant a composition comprising an effective amount of an antimicrobial polypeptide comprising Blad or an active variant thereof.



SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, **Published:**
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *with international search report (Art. 21(3))*

Declarations under Rule 4.17:

— *as to the applicant's entitlement to claim the priority of
the earlier application (Rule 4.17(iii))*