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INFLAMMATORY IMMUNITY""""ABSTRACT ""; ""INTRODUCTION ""; ""THE INNATE IMMUNE SYSTEM IN THE GUT: ROLE OF TOLL-LIKE RECEPTORS IN INNATE IMMUNITY AND TOLERANCE ""; ""IMMUNOREGULATORY EFFECT OF LACTIC ACID BACTERIA IN INTESTINAL INNATE IMMUNITY VIA PATTERN RECOGNITION RECEPTORS ""; ""FUNCTIONAL EXPRESSION OF TLRs IN SWINE GUT-ASSOCIATED LYMPHOID TISSUES (GALT) ""; ""CONSTRUCTION OF MOLECULAR IMMUNOASSAY SYSTEM FOR THE DISCOVERY OF NOVEL IMMUNOBIOLOGICS AND IMMUNOGENICS "" ""UTILIZATION OF PORCINE INTESTINAL EPITHELIAL CELLS FOR SELECTION AND STUDY OF IMMUNOBIOLOGICS """"Modulation of TLR4-Mediated Inflammatory Response in PIE Cells by Immunobiotics ""; ""Modulation of TLR3-Mediated Anti-Viral Inflammatory Response in PIE Cells by Immunobiotics ""; ""CONCLUSION ""; ""ACKNOWLEDGMENTS ""; ""REFERENCES ""; ""LACTOBACILLUS PLANTARUM: FUNCTIONAL CHARACTERISTICS FOR PROBIOTIC APPLICATIONS ""; ""ABSTRACT""; ""INTRODUCTION ""; ""FUNCTIONAL PROPERTIES ""; ""HEALTH BENEFITS AND THERAPEUTIC EFFECTS""; ""FOOD AND PHARMACEUTICAL APPLICATIONS ""; ""CONCLUSION "" ""REFERENCES """"PROBIOTICS IN THE PREVENTION AND TREATMENT OF ELDERLY DISEASE ""; ""ABSTRACT""; ""INTRODUCTION ""; ""AGE-RELATED ALTERATIONS IN THE INTESTINAL MICROBIOTA ""; ""AGE-RELATED ALTERATIONS IN COLONIC METABOLIC ACTIVITY ""; ""PROBIOTICS IN THE PREVENTION AND TREATMENT OF ELDERLY DISEASE ""; ""APPENDIX I. PUBLISHED LITERATURE FOCUSED ON THE USE OF PROBIOTICS IN ELDERLY DISEASE ""; ""1) Gut Microecology""; ""2) Bowel Movement, Constipation, and Gut transit Time ""; ""3) Irritable Bowel Syndrome ""; ""4) Antibiotic-associated Diarrhea (AAD) ""; ""5) Bacterial Vaginosis (BV) "" ""6) Immune Modulation ""

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