PATENTS

Recent patents in antimicrobials				
Patent number	Description	Assignee	Inventor	Date
US 10,077,461	A method for characterizing at least one microorganism from a sample, including identifying the at least one microorganism and determining the properties of typing, potential resistance to at least one antimicrobial, and virulence factor. The properties of typing, resistance to at least one antimicrobial, and virulence factor for the at least one microorganism are determined by implementing mass spectrometry using proteins, peptides and/or metabolites as markers of the properties of typing, resistance to at least one antimicrobial and virulence factor.	BioMérieux (Marcy l'Étoile, France)	Beaulieu C, Charretier Y, Charrier J-P, Chatellier S, Dufour P, Franceschi C, Girard V, Pons S	9/18/2018
US 10,077,293	An antimicrobial peptide analog derived from abalone and an antimicrobial pharmaceutical composition containing the same. The antimicrobial peptide analog is designed based on hdMolluscidin, which is a peptide derived from the gill of abalone and has been designed to be commercially viable by reducing the number of amino acids. The designed peptide analog exhibits superior antimicrobial activity as well as high membrane permeability and low hemolytic activity.	Industry-Academic Cooperation Foundation, Kunsan National University (Jeollabuk-Do, South Korea)	Seo J-K, Lee K-Y, Cho S-M, Lee I-A	9/18/2018
US 10,076,118	A method of making an antimicrobial poly(methyl methacrylate) (PMMA)/ silver nanocomposite comprising PMMA and silver nanoparticles. The method includes reacting at least one silver salt with a methyl methacry- late (MMA) monomer in at least one organic solvent free of water and in the presence of at least one organic free radical initiator to polymerize the MMA monomer to form the PMMA by free radical polymerization while reducing <i>in situ</i> the silver salt to form the silver nanoparticles, wherein the silver nanoparticles have an average particle size of 35–60 nm and wherein the PMMA forms a matrix that encloses the silver nanoparticles.	King Fahd University of Petroleum and Minerals (Dhahran, Saudi Arabia)	Achilias DS, Siddiqui MN, Redhwi HH	9/18/2018
US 10,072,125	Thiourea-containing dendrimers and thiourea-containing hyperbranched polymers, a preparation method for the thiourea-containing dendrimer and a preparation method for the thiourea-containing hyperbranched polymer, a thiourea-containing dendrimer and a thiourea-containing hyperbranched polymer having increased water solubility prepared by using the thiourea-containing dendrimer and the thiourea-containing hyperbranched polymer as raw materials, and applications of the thio- urea-containing dendrimers and the thiourea-containing hyperbranched polymers in the preparation of antitumor and antimicrobial drugs.	Zhejiang University (Hangzhou, China)	Shen Y, Shao S, Tang J, Liu X	9/11/2018
US 10,072,048	Astexin-1, astexin-2 and astexin-3 lasso peptides, which are based on sequences identified in <i>Asticaccaulis excentricus</i> , and methods of making and using same. Astexin-1 is highly polar, in contrast to many lasso peptides that are primarily hydrophobic, and has modest antimicrobial activity against <i>Caulobacter crescentus</i> , a bacterium related to <i>A. excentricus</i> .	The Trustees of Princeton University (Princeton, NJ)	Link AJ, Maksimov MO	9/11/2018
US 10,071,960	An enaminone-grafted trithiocarbonate compound having a particular structure and the anticancer and antimicrobial activities exhibited by the compound.	King Saud University (Riyadh, Saudi Arabia)	Mabkhot YN, Khaled JMA, Sultan MA, Mohammed FAN, Alharbi NSH, Al-Showiman SS, Ghabbour HA	9/11/2018
US 10,071,133	A method for destroying exosomes, a kit for destroying exosomes, and a method for isolating exosomes derived from normal cells. The method for destroying exosomes includes preparing an antimicrobial peptide and allowing the antimicrobial peptide to coexist with an exosome to destroy the exosome.	Mitsui Chemicals (Tokyo)	Fujii R, Ikeda M, Matsumoto K	9/11/2018
US 10,064,840	A pharmaceutical composition for the treatment of multi-drug-resistant infections, including an antimicrobial agent in combination with the benzopyrano[3,4-b][1]benzopyran-12(6H)-one class of compound boeravinone B. The bio-efficacy of anti-infective drugs can be potentiated when used in combination with boeravinone B. Boeravinone B can overcome the resistance or multi-drug resistance developed by bacteria against the quinolone, mupirocin and macrolide classes of antibacterial agents via inhibition of bacterial efflux pumps.	Council of Scientific & Industrial Research (New Delhi, India)	Vishwakarma R, Kumar A, Khan IA, Bharate SB, Joshi P, Singh S, Satti N	9/4/2018
US 10,059,976	A microorganism detection method that is highly versatile and applicable to both the test for the detection of specified microorganisms and the microbial enumeration test under the same test conditions for kampo extract preparations and crude drugs containing a variety of antimicrobial substances, is able to effectively reduce the influence of antimicrobial substances in a test sample, and may detect target microorganisms with high precision.	Tsumura & Co. (Minato-ku, Japan)	Yamamoto H, Fukuda I	8/28/2018
Source: United States Patent and Trademark Office (http://www.uspto.gov).				