

Susan E Jensen

List of Publications by Year in descending order

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61
papers

3,065
citations

147726

31
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161767

54
g-index

62
all docs

62
docs citations

62
times ranked

2073
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Molecular structure of the acyl-enzyme intermediate in β -lactam hydrolysis at 1.7 Å... resolution. <i>Nature</i> , 1992, 359, 700-705. | 13.7 | 614 |
| 2 | <i>Paenibacillus polymyxa</i> produces fusaricidin-type antifungal antibiotics active against <i>Leptosphaeria maculans</i> , the causative agent of blackleg disease of canola. <i>Canadian Journal of Microbiology</i> , 2002, 48, 159-169. | 0.8 | 173 |
| 3 | A potent new mode of β -lactamase inhibition revealed by the 1.7 Å... X-ray crystallographic structure of the TEM-1- β -BLIP complex. <i>Nature Structural Biology</i> , 1996, 3, 290-297. | 9.7 | 130 |
| 4 | Structural and kinetic characterization of a β -lactamase-inhibitor protein. <i>Nature</i> , 1994, 368, 657-660. | 13.7 | 128 |
| 5 | Structure-Based Design Guides the Improved Efficacy of Deacylation Transition State Analogue Inhibitors of TEM-1 β -Lactamase. <i>Biochemistry</i> , 2000, 39, 5312-5321. | 1.2 | 119 |
| 6 | <i>Paenibacillus polymyxa</i> PKB1 Produces Variants of Polymyxin B-Type Antibiotics. <i>Chemistry and Biology</i> , 2011, 18, 1640-1648. | 6.2 | 104 |
| 7 | Nonribosomal Biosynthesis of Fusaricidins by <i>Paenibacillus polymyxa</i> PKB1 Involves Direct Activation of a d-Amino Acid. <i>Chemistry and Biology</i> , 2008, 15, 118-127. | 6.2 | 96 |
| 8 | Crystal structure and kinetic analysis of beta-lactamase inhibitor protein-II in complex with TEM-1 beta-lactamase. <i>Nature Structural Biology</i> , 2001, 8, 848-852. | 9.7 | 82 |
| 9 | Investigation of the <i>Streptomyces clavuligerus</i> Cephamicin C Gene Cluster and Its Regulation by the CcaR Protein. <i>Journal of Bacteriology</i> , 1998, 180, 4068-4079. | 1.0 | 82 |
| 10 | Cyclization of .DELTA.-(L-.ALPHA.-aminoadipyl)-L-cysteinyl-D-valine to penicillins by cell-free extracts of <i>Streptomyces clavuligerus</i> . <i>Journal of Antibiotics</i> , 1982, 35, 483-490. | 1.0 | 79 |
| 11 | Cloning, sequencing and disruption of a gene from <i>Streptomyces clavuligerus</i> involved in clavulanic acid biosynthesis. <i>Gene</i> , 1994, 147, 41-46. | 1.0 | 73 |
| 12 | Biosynthesis and molecular genetics of clavulanic acid. <i>Antonie Van Leeuwenhoek</i> , 1999, 75, 125-133. | 0.7 | 73 |
| 13 | A pathway-specific transcriptional activator regulates late steps of clavulanic acid biosynthesis in <i>Streptomyces clavuligerus</i> . <i>Molecular Microbiology</i> , 1998, 27, 831-843. | 1.2 | 71 |
| 14 | Origins of the β -lactam rings in natural products. <i>Journal of Antibiotics</i> , 2013, 66, 401-410. | 1.0 | 61 |
| 15 | Use of PCR-Targeted Mutagenesis To Disrupt Production of Fusaricidin-Type Antifungal Antibiotics in <i>Paenibacillus polymyxa</i> . <i>Applied and Environmental Microbiology</i> , 2007, 73, 3480-3489. | 1.4 | 56 |
| 16 | Draft Genome Sequence of <i>Streptomyces clavuligerus</i> NRRL 3585, a Producer of Diverse Secondary Metabolites. <i>Journal of Bacteriology</i> , 2010, 192, 6317-6318. | 1.0 | 55 |
| 17 | Expression of ccaR, Encoding the Positive Activator of Cephamicin C and Clavulanic Acid Production in <i>Streptomyces clavuligerus</i> , Is Dependent on bldG. <i>Antimicrobial Agents and Chemotherapy</i> , 2005, 49, 1529-1541. | 1.4 | 52 |
| 18 | Genes Specific for the Biosynthesis of Clavam Metabolites Antipodal to Clavulanic Acid Are Clustered with the Gene for Clavaminate Synthase 1 in <i>Streptomyces clavuligerus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 1999, 43, 1215-1224. | 1.4 | 50 |

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|----|--|-----|-----------|
| 19 | Cephalosporin formation by cell-free extracts from <i>Streptomyces clavuligerus</i> .. Journal of Antibiotics, 1982, 35, 1351-1360. | 1.0 | 49 |
| 20 | Two Sets of Paralogous Genes Encode the Enzymes Involved in the Early Stages of Clavulanic Acid and Clavam Metabolite Biosynthesis in <i>Streptomyces clavuligerus</i> . Antimicrobial Agents and Chemotherapy, 2004, 48, 930-939. | 1.4 | 49 |
| 21 | Five Additional Genes Are Involved in Clavulanic Acid Biosynthesis in <i>Streptomyces clavuligerus</i> . Antimicrobial Agents and Chemotherapy, 2004, 48, 192-202. | 1.4 | 48 |
| 22 | The positive activator of cephamycin C and clavulanic acid production in <i>Streptomyces clavuligerus</i> is mistranslated in a <i>bldA</i> mutant The GenBank accession number for the sequence reported in this paper is AF436078.. Microbiology (United Kingdom), 2002, 148, 643-656. | 0.7 | 41 |
| 23 | Enzymes Catalyzing the Early Steps of Clavulanic Acid Biosynthesis Are Encoded by Two Sets of Paralogous Genes in <i>Streptomyces clavuligerus</i> . Antimicrobial Agents and Chemotherapy, 2000, 44, 720-726. | 1.4 | 40 |
| 24 | Biosynthesis of Cephalosporins. Critical Reviews in Biotechnology, 1985, 3, 277-301. | 5.1 | 36 |
| 25 | Production of the penicillin precursor β -L-(L- α -aminoadipyl)-L-cysteinyl-D-valine (ACV) by cell-free extracts from <i>Streptomyces clavuligerus</i> . FEMS Microbiology Letters, 1988, 49, 213-218. | 0.7 | 36 |
| 26 | Applications of Gene Replacement Technology to <i>Streptomyces clavuligerus</i> Strain Development for Clavulanic Acid Production. Applied and Environmental Microbiology, 2001, 67, 2292-2297. | 1.4 | 36 |
| 27 | Insights into Positive and Negative Requirements for Protein-Protein Interactions by Crystallographic Analysis of the β -Lactamase Inhibitory Proteins BLIP, BLIP-I, and BLP. Journal of Molecular Biology, 2009, 389, 289-305. | 2.0 | 35 |
| 28 | Biosynthesis of clavam metabolites. Journal of Industrial Microbiology and Biotechnology, 2012, 39, 1407-1419. | 1.4 | 33 |
| 29 | β -Lactam synthetase: implications for β -lactamase evolution. Chemical Communications, 1998, , 2325-2326. | 2.2 | 32 |
| 30 | The Paralogous Pairs of Genes Involved in Clavulanic Acid and Clavam Metabolite Biosynthesis Are Differently Regulated in <i>Streptomyces clavuligerus</i> . Journal of Bacteriology, 2004, 186, 6286-6297. | 1.0 | 32 |
| 31 | 5S Clavam Biosynthetic Genes Are Located in Both the Clavam and Paralog Gene Clusters in <i>Streptomyces clavuligerus</i> . Chemistry and Biology, 2007, 14, 131-142. | 6.2 | 32 |
| 32 | Clavulanic acid biosynthesis and genetic manipulation for its overproduction. Applied Microbiology and Biotechnology, 2010, 88, 659-669. | 1.7 | 32 |
| 33 | Alanylclavam Biosynthetic Genes Are Clustered Together with One Group of Clavulanic Acid Biosynthetic Genes in <i>Streptomyces clavuligerus</i> . Journal of Bacteriology, 2008, 190, 7957-7965. | 1.0 | 31 |
| 34 | Production of <i>Streptomyces clavuligerus</i> isopenicillin N synthase in <i>Escherichia coli</i> using two-cistron expression systems. Journal of Industrial Microbiology, 1990, 5, 197-206. | 0.9 | 29 |
| 35 | Three unlinked gene clusters are involved in clavam metabolite biosynthesis in <i>Streptomyces clavuligerus</i> . Canadian Journal of Microbiology, 2004, 50, 803-810. | 0.8 | 29 |
| 36 | Transcriptional mapping of the genes encoding the early enzymes of the cephamycin biosynthetic pathway of <i>Streptomyces clavuligerus</i> . Gene, 1994, 142, 41-48. | 1.0 | 26 |

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|----|---|-----|-----------|
| 37 | Transcriptional analysis and regulation of carnobacteriocin production in <i>Carnobacterium piscicola</i> LV17. <i>Gene</i> , 1997, 188, 271-277. | 1.0 | 25 |
| 38 | <i>Streptomyces clavuligerus</i> Has a Second Copy of the Proclavaminic Amidinohydrolase Gene. <i>Antimicrobial Agents and Chemotherapy</i> , 2004, 48, 514-520. | 1.4 | 23 |
| 39 | Giant linear plasmids of β -lactam antibiotic producing <i>Streptomyces</i> . <i>FEMS Microbiology Letters</i> , 1995, 131, 27-34. | 0.7 | 22 |
| 40 | Production of penicillins and cephalosporins in an immobilized enzyme reactor. <i>Applied Microbiology and Biotechnology</i> , 1984, 20, 155-160. | 1.7 | 21 |
| 41 | Transcriptional and translational analysis of the <i>ccaR</i> gene from <i>Streptomyces clavuligerus</i> . <i>Microbiology (United Kingdom)</i> , 2004, 150, 4137-4145. | 0.7 | 20 |
| 42 | Prediction and functional analysis of the replication origin of the linear plasmid pSCL2 in <i>Streptomyces clavuligerus</i> . <i>Canadian Journal of Microbiology</i> , 2006, 52, 293-300. | 0.8 | 19 |
| 43 | Prevention of phosphate inhibition of cephalosporin synthetases by ferrous ion. <i>FEMS Microbiology Letters</i> , 1984, 25, 75-79. | 0.7 | 18 |
| 44 | Transcriptional analysis of the isopenicillin N synthase-encoding gene of <i>Streptomyces clavuligerus</i> . <i>Gene</i> , 1992, 111, 77-84. | 1.0 | 18 |
| 45 | A gene located downstream of the clavulanic acid gene cluster in <i>Streptomyces clavuligerus</i> ATCC 27064 encodes a putative response regulator that affects clavulanic acid production. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2009, 36, 301-311. | 1.4 | 17 |
| 46 | Construction and analysis of β -lactamase-inhibitory protein (BLIP) non-producer mutants of <i>Streptomyces clavuligerus</i> The GenBank accession number for the sequence determined in this work is M34538.. <i>Microbiology (United Kingdom)</i> , 2001, 147, 325-335. | 0.7 | 17 |
| 47 | Early Cephamycin Biosynthetic Genes Are Expressed from a Polycistronic Transcript in <i>Streptomyces clavuligerus</i> . <i>Journal of Bacteriology</i> , 2000, 182, 348-356. | 1.0 | 15 |
| 48 | Crystal Structures of an Oligopeptide-Binding Protein from the Biosynthetic Pathway of the β -Lactamase Inhibitor Clavulanic Acid. <i>Journal of Molecular Biology</i> , 2010, 396, 332-344. | 2.0 | 13 |
| 49 | Use of the native <i>flp</i> gene to generate in-frame unmarked mutations in <i>Streptomyces</i> spp.. <i>Gene</i> , 2009, 443, 48-54. | 1.0 | 12 |
| 50 | Transcriptional analysis and heterologous expression of the gene encoding β -lactamase inhibitor protein (BLIP) from <i>Streptomyces clavuligerus</i> . <i>Gene</i> , 1994, 144, 31-36. | 1.0 | 11 |
| 51 | <i>pcd</i> Mutants of <i>Streptomyces clavuligerus</i> Still Produce Cephamycin C. <i>Journal of Bacteriology</i> , 2007, 189, 5867-5874. | 1.0 | 11 |
| 52 | Synthesis of the penicillin precursor, β -(L- α -aminoadipyl)-L-cysteinyl-D-valine (ACV), by an immobilized enzyme preparation. <i>Applied Microbiology and Biotechnology</i> , 1989, 30, 111. | 1.7 | 9 |
| 53 | Comparative Genetics and Molecular Biology of β -Lactam Biosynthesis. <i>Drugs and the Pharmaceutical Sciences</i> , 1997, , 241-277. | 0.1 | 9 |
| 54 | Functional effects of increased copy number of the gene encoding proclavaminic amidino hydrolase on clavulanic acid production in <i>Streptomyces clavuligerus</i> ATCC 27064. <i>Journal of Microbiology and Biotechnology</i> , 2008, 18, 417-26. | 0.9 | 9 |

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|----|---|-----|-----------|
| 55 | Regulation of antibiotic production by iron and oxygen during defined medium fermentations of <i>Streptomyces clavuligerus</i> . <i>Applied Microbiology and Biotechnology</i> , 1989, 31, 390. | 1.7 | 8 |
| 56 | A comparison of the clavam biosynthetic gene clusters in <i>Streptomyces antibioticus</i> TÅ¼1718 and <i>Streptomyces clavuligerus</i> . <i>Canadian Journal of Microbiology</i> , 2012, 58, 413-425. | 0.8 | 8 |
| 57 | Carboxyethylarginine Synthase Genes Show Complex Cross-Regulation in <i>Streptomyces clavuligerus</i> . <i>Applied and Environmental Microbiology</i> , 2013, 79, 240-249. | 1.4 | 6 |
| 58 | Resistance to Î²-Lactamase Inhibitor Protein Does Not Parallel Resistance to Clavulanic Acid in TEM Î²-Lactamase Mutants. <i>Antimicrobial Agents and Chemotherapy</i> , 2002, 46, 3568-3573. | 1.4 | 4 |
| 59 | 5S Clavam Biosynthesis Is Controlled by an Atypical Two-Component Regulatory System in <i>Streptomyces clavuligerus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 4845-4855. | 1.4 | 4 |
| 60 | Two small linear plasmids of <i>Streptomyces jumonjinensis</i> . <i>Canadian Journal of Microbiology</i> , 1997, 43, 633-638. | 0.8 | 0 |
| 61 | Genetic Engineering To Regulate Production of Secondary Metabolites in <i>Streptomyces clavuligerus</i> . , 2014, , 411-425. | | 0 |