

# Roger Labia

## List of Publications by Year in descending order

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78  
papers

2,581  
citations

236925

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97  
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97  
docs citations

97  
times ranked

1851  
citing authors

#	ARTICLE	IF	CITATIONS
1	$\hat{\beta}$ -Lactamases of <i>Kluyvera ascorbata</i> , Probable Progenitors of Some Plasmid-Encoded CTX-M Types. <i>Antimicrobial Agents and Chemotherapy</i> , 2002, 46, 3045-3049.	3.2	292
2	Molecular and Biochemical Characterization of VEB-1, a Novel Class A Extended-Spectrum $\hat{\beta}$ -Lactamase Encoded by an <i>Escherichia coli</i> Integron Gene. <i>Antimicrobial Agents and Chemotherapy</i> , 1999, 43, 573-581.	3.2	221
3	Close amino acid sequence relationship between the new plasmid-mediated extended-spectrum $\hat{\beta}$ -lactamase MEN-1 and chromosomally encoded enzymes of <i>Klebsiella oxytoca</i> . <i>BBA - Proteins and Proteomics</i> , 1992, 1122, 15-22.	2.1	142
4	Computerized microacidimetric determination of $\hat{\beta}$ lactamase Michaelis-Menten constants. <i>FEBS Letters</i> , 1973, 33, 42-44.	2.8	135
5	Single amino acid substitution between SHV-1 $\hat{\beta}$ -lactamase and cefotaxime-hydrolyzing SHV-2 enzyme. <i>FEBS Letters</i> , 1988, 231, 217-220.	2.8	99
6	A Structure-Based Classification of Class A $\hat{\beta}$ -Lactamases, a Broadly Diverse Family of Enzymes. <i>Clinical Microbiology Reviews</i> , 2016, 29, 29-57.	13.6	97
7	Extension of resistance to cefepime and cefpirome associated to a six amino acid deletion in the H-10 helix of the cephalosporinase of an <i>Enterobacter cloacae</i> clinical isolate. <i>FEMS Microbiology Letters</i> , 2001, 195, 185-190.	1.8	80
8	X-ray Analysis of the NMC-A $\hat{\beta}$ -Lactamase at 1.64-Å... Resolution, a Class A Carbapenemase with Broad Substrate Specificity. <i>Journal of Biological Chemistry</i> , 1998, 273, 26714-26721.	3.4	79
9	Synthesis and antimicrobial activities of N-substituted imides. <i>Il Farmaco</i> , 2002, 57, 421-426.	0.9	73
10	New syntheses and potential antimalarial activities of new $\beta$ -retinoid-like chalcones <sup>TM</sup> . <i>European Journal of Medicinal Chemistry</i> , 2006, 41, 142-146.	5.5	67
11	Discriminatory Detection of Inhibitor-Resistant $\hat{\beta}$ -Lactamases in <i>Escherichia coli</i> by Single-Strand Conformation Polymorphism-PCR. <i>Antimicrobial Agents and Chemotherapy</i> , 1998, 42, 879-884.	3.2	63
12	Beta-Lactamases: Determination of Their Isoelectric Points. <i>Antimicrobial Agents and Chemotherapy</i> , 1978, 13, 695-698.	3.2	62
13	Chromosomally encoded cephalosporin-hydrolyzing $\hat{\beta}$ -lactamase of <i>Proteus vulgaris</i> RO104 belongs to Ambler's class A. <i>BBA - Proteins and Proteomics</i> , 1994, 1207, 31-39.	2.1	50
14	Sulbactam: Biochemical Factors Involved in Its Synergy with Ampicillin. <i>Clinical Infectious Diseases</i> , 1986, 8, S496-S502.	5.8	45
15	Inhibition kinetics of three R-factor-mediated $\hat{\beta}$ -lactamases by a new $\hat{\beta}$ -lactam sulfone (CP 45899). <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1980, 611, 351-357.	2.6	44
16	Characterization and amino acid sequence of IRT-4, a novel TEM-type enzyme with a decreased susceptibility to $\beta$ -lactamase inhibitors. <i>FEMS Microbiology Letters</i> , 1994, 120, 111-117.	1.8	44
17	Molecular Characterization of Chromosomal Class C $\hat{\beta}$ -Lactamase and Its Regulatory Gene in <i>Ochrobactrum anthropi</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2001, 45, 2324-2330.	3.2	44
18	Site-directed mutagenesis on TEM-1 $\hat{\beta}$ -lactamase: role of Glu66 in catalysis and substrate binding. <i>Protein Engineering, Design and Selection</i> , 1991, 4, 805-810.	2.1	43

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19	Characterization and amino acid sequence analysis of a new oxyimino cephalosporin-hydrolyzing class A $\beta$ -lactamase from <i>Serratia fonticola</i> CUV. <i>BBA - Proteins and Proteomics</i> , 1997, 1341, 58-70.	2.1	40
20	Clinical inhibitor-resistant mutants of the $\beta$ -lactamase TEM-1 at amino-acid position 69. <i>BBA - Proteins and Proteomics</i> , 1998, 1382, 38-46.	2.1	39
21	Sequence analysis and biochemical characterisation of chromosomal CAV-1 ( <i>Aeromonas caviae</i> ), the parental cephalosporinase of plasmid-mediated AmpC $\beta$ -lactamase cluster. <i>FEMS Microbiology Letters</i> , 2003, 222, 93-98.	3.0	37
22	A kinetic study of NMC-A $\beta$ -lactamase, an Ambler class A carbapenemase also hydrolyzing cephamycins. <i>FEMS Microbiology Letters</i> , 1996, 143, 29-33.	1.8	32
23	Cefotaxime-hydrolysing activity of the $\beta$ -lactamase of <i>Klebsiella oxytoca</i> D488 could be related to a threonine residue at position 140. <i>FEMS Microbiology Letters</i> , 1991, 81, 185-192.	1.8	28
24	<i>Klebsiella pneumoniae</i> strains moderately resistant to ampicillin and carbenicillin: characterization of a new $\beta$ -lactamase. <i>Journal of Antimicrobial Chemotherapy</i> , 1979, 5, 375-382.	3.0	27
25	Affinity of Cefmenoxime for Beta-Lactamases: An Analysis. <i>American Journal of Medicine</i> , 1984, 77, 25-27.	1.5	26
26	Site-directed mutagenesis of beta-lactamase TEM-1. Investigating the potential role of specific residues on the activity of <i>Pseudomonas</i> -specific enzymes. <i>FEBS Journal</i> , 1993, 217, 939-946.	0.2	26
27	Biochemical-Genetic Analysis and Distribution of FAR-1, a Class A $\beta$ -Lactamase from <i>Nocardia farcinica</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 1999, 43, 1644-1650.	3.2	25
28	TEM-89 $\beta$ -Lactamase Produced by a <i>Proteus mirabilis</i> Clinical Isolate: New Complex Mutant (CMT 3) with Mutations in both TEM-59 (IRT-17) and TEM-3. <i>Antimicrobial Agents and Chemotherapy</i> , 2001, 45, 3591-3594.	3.2	25
29	Evidence of In Vivo Transfer of a Plasmid Encoding the Extended-Spectrum $\beta$ -Lactamase TEM-24 and Other Resistance Factors among Different Members of the Family Enterobacteriaceae. <i>Journal of Clinical Microbiology</i> , 2001, 39, 1985-1988.	3.9	23
30	New aromatic annulation reaction via a C14 enaminone synthon: synthesis of $\beta$ -terpenoid-like chalcones. <i>Tetrahedron Letters</i> , 2005, 46, 6671-6674.	1.4	23
31	Antifouling Activities of N-Substituted Imides: Antimicrobial Activities and Inhibition of <i>Mytilus edulis</i> Phenoloxidase. <i>Marine Biotechnology</i> , 2002, 4, 431-440.	2.4	22
32	Classification of $\beta$ -Lactamases from <i>Branhamella catarrhalis</i> in Relation to Penicillinases Produced by Other Bacterial Species. <i>Drugs</i> , 1986, 31, 40-47.	10.9	21
33	Resistance to ceftazidime is associated with a S220Y substitution in the omega loop of the AmpC $\beta$ -lactamase of a <i>Serratia marcescens</i> clinical isolate. <i>Journal of Antimicrobial Chemotherapy</i> , 2005, 55, 496-499.	3.0	21
34	Molecular and Biochemical Characterization of a Novel Class A $\beta$ -Lactamase (HER-1) from <i>Escherichia hermannii</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2003, 47, 2669-2673.	3.2	20
35	Structure-based classification of class A beta-lactamases, an update. <i>Current Research in Translational Medicine</i> , 2019, 67, 115-122.	1.8	20
36	Molecular and Biochemical Analysis of AST-1, a Class A $\beta$ -Lactamase from <i>Nocardia asteroides</i> Sensu Stricto. <i>Antimicrobial Agents and Chemotherapy</i> , 2001, 45, 878-882.	3.2	17

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37	Postneurosurgical Meningitis Due to <i>Proteus penneri</i> with Selection of a Ceftriaxone-Resistant Isolate: Analysis of Chromosomal Class A $\beta$ -Lactamase <i>HugA</i> and its LysR-Type Regulatory Protein <i>HugR</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2002, 46, 216-219.	3.2	17
38	Novel Plasmid-Encoded Class C $\beta$ -Lactamase (MOX-2) in <i>Klebsiella pneumoniae</i> from Greece. <i>Antimicrobial Agents and Chemotherapy</i> , 2002, 46, 2262-2265.	3.2	17
39	TEM-80, a Novel Inhibitor-Resistant $\beta$ -Lactamase in a Clinical Isolate of <i>Enterobacter cloacae</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2002, 46, 1183-1189.	3.2	17
40	Chemistry of Natural Retinoids and Carotenoids: Challenges for the Future. <i>Current Organic Synthesis</i> , 2004, 1, 167-209.	1.3	17
41	Beta-Lactamases Produced by a <i>Pseudomonas aeruginosa</i> Strain Highly Resistant to Carbenicillin. <i>Antimicrobial Agents and Chemotherapy</i> , 1977, 11, 785-790.	3.2	16
42	Phenotypic Study of Resistance of $\beta$ -Lactamase-Inhibitor-Resistant TEM Enzymes Which Differ by Naturally Occurring Variations and by Site-Directed Substitution at Asp <sup>276</sup> . <i>Antimicrobial Agents and Chemotherapy</i> , 1998, 42, 1323-1328.	3.2	16
43	New Syntheses of Retinal and Its Acyclic Analog $\beta$ -Retinal by an Extended Aldol Reaction with a C6 Building Block That Incorporates a C5 Unit after Decarboxylation. A Formal Route to Lycopene and $\beta$ -Carotene. <i>Helvetica Chimica Acta</i> , 2007, 90, 512-520.	1.6	16
44	Biochemical-Genetic Analysis and Distribution of DES-1, an Ambler Class A Extended-Spectrum $\beta$ -Lactamase from <i>Desulfovibrio desulfuricans</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2002, 46, 3215-3222.	3.2	15
45	Class C $\beta$ -Lactamases: Molecular Characteristics. <i>Clinical Microbiology Reviews</i> , 2022, 35, e0015021.	13.6	15
46	A New Stereoselective Synthesis of Acitretin (=Soriatane <sup>®</sup> , Neotigason <sup>®</sup> ). <i>Helvetica Chimica Acta</i> , 2002, 85, 2926-2929.	1.6	14
47	New Synthesis of Natural Carotene Isorenieratene ( $\beta$ , $\beta$ -Carotene) and its 3,3-Dimethoxy Analogue. <i>Helvetica Chimica Acta</i> , 2003, 86, 3314-3319.	1.6	14
48	Syntheses, in vitro antibacterial and cytotoxic activities of a series of 3-substituted succinimides. <i>Il Farmaco</i> , 2004, 59, 879-886.	0.9	14
49	Survey of Enterobacteriaceae Producing Extended-Spectrum $\beta$ -Lactamases in a Slovak Hospital: Dominance of SHV-2a and Characterization of TEM-132. <i>Antimicrobial Agents and Chemotherapy</i> , 2005, 49, 3066-3069.	3.2	13
50	Affinity chromatography of $\beta$ -lactamases. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1973, 315, 439-442.	2.6	12
51	Characterization of TEM-56, a Novel $\beta$ -Lactamase Produced by a <i>Klebsiella pneumoniae</i> Clinical Isolate. <i>Antimicrobial Agents and Chemotherapy</i> , 2000, 44, 453-455.	3.2	12
52	BUT-1: a new member in the chromosomal inducible class C $\beta$ -lactamases family from a clinical isolate of <i>Buttiauxella</i> sp.. <i>FEMS Microbiology Letters</i> , 2002, 213, 103-111.	1.8	10
53	Atypical Oxidation Reaction by Thionyl Chloride: Easy Two-Step Synthesis of $N$ -Alkyl-1,4-dithiines. <i>Synthetic Communications</i> , 2006, 36, 3591-3597.	2.1	10
54	A New Biomimetic-Like Aromatization of the Cyclic End Groups of Terpenoids with Stereospecific Migration of One of the Methyl Groups: A Convenient Route to Isorenieratene ( $\beta$ , $\beta$ -Carotene). <i>European Journal of Organic Chemistry</i> , 2007, 2007, 711-715.	2.4	10

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55	Moxalactam: An Oxa- $\beta$ -Lactam Antibiotic that Inactivates $\beta$ -Lactamases. <i>Clinical Infectious Diseases</i> , 1982, 4, S529-S535.	5.8	9
56	An additional ionic bond suggested by molecular modelling of TEM-2 might induce a slight discrepancy between catalytic properties of TEM-1 and TEM-2 $\beta$ -lactamases. <i>FEMS Microbiology Letters</i> , 1996, 143, 121-125.	1.8	9
57	Synthesis of new ethyl 9-methylene-13E and 13Z-retinoates via the Julia olefination reaction. <i>Tetrahedron Letters</i> , 2001, 42, 4795-4797.	1.4	8
58	Syntheses of new 9- and 13-methylene isomers of retinal. <i>Tetrahedron Letters</i> , 2000, 41, 7221-7224.	1.4	6
59	Synthesis of 9-Methylene Analogs of Retinol, Retinal, Retinonitrile and Retinoic Acid. <i>European Journal of Organic Chemistry</i> , 2001, 2001, 1731-1734.	2.4	6
60	A survey of mono- or bis-decarboxylation of $\beta$ -methyl polyethylenic-malonic acids. <i>Tetrahedron Letters</i> , 2003, 44, 4737-4740.	1.4	6
61	Two-Carbons Homologation of Methyl Ketones Exemplified for the Synthesis of Citral from 6-Methyl-5-hepten-2-one. <i>Synthetic Communications</i> , 2003, 33, 1195-1201.	2.1	6
62	New Synthetic Analogs of Retinoids: Synthesis of Aromatic Analogs of 9-Methylidene- and 13-Demethyl-9-methylidene-retinol, -retinal, and Ethyl 13-Demethyl-9-methylideneretinoate. <i>Helvetica Chimica Acta</i> , 2001, 84, 3423-3427.	1.6	5
63	Etude de la stabilit� chimique et enzymatique de la M�cAMPicilline. <i>M�decine Et Maladies Infectieuses</i> , 1973, 3, 395-398.	5.0	3
64	Val-237 for Ala substitution in the TEM-2 $\beta$ -lactamase dramatically alters the catalytic efficiencies towards carbenicillin and ticarcillin. <i>FEMS Microbiology Letters</i> , 1994, 117, 333-339.	1.8	3
65	Synthesis of new cyclic retinoids via base induced self-condensation of C-13, C-14 and C-15 units. <i>Tetrahedron Letters</i> , 2000, 41, 3359-3362.	1.4	3
66	STEREOSELECTIVE SYNTHESIS OF 9-METHYLENE-13-DEMETHYL ANALOGS OF NATURAL RETINOIDS. <i>Synthetic Communications</i> , 2001, 31, 3219-3223.	2.1	3
67	Recent Progress in Retinoid Chemistry. <i>Studies in Natural Products Chemistry</i> , 2003, 28, 69-107.	1.8	3
68	Structure-activity relationships of methylene or terminal side chain modified retinoids on the differentiation and cell death signaling in NB4 promyelocytic leukemia cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004, 14, 4257-4261.	2.2	3
69	Novel $\beta$ -keto- $\gamma$ -lactones Electro-cyclization of Triethylenic Malonic Acids Exemplified for a One-Pot Synthesis of New $\beta$ -lactones Fused with a Cyclopentene. <i>Journal of Heterocyclic Chemistry</i> , 2016, 53, 1017-1021.	2.6	3
70	Substitution of Met-69 by Ala or Gly in TEM-1 $\beta$ -lactamase confer an increased susceptibility to clavulanic acid and other inhibitors. <i>FEMS Microbiology Letters</i> , 2002, 211, 13-16.	1.8	2
71	Synthesis of a New C-15 Phosphorus Ylide Used for the Preparation of Some $\beta$ -End-Group Retinoid Derivatives. <i>Synthetic Communications</i> , 2010, 41, 184-190.	2.1	2
72	Base-Induced Decarboxylation of Polyunsaturated $\beta$ -Cyano Acids Derived from Malonic Acid: Synthesis of Sesquiterpene Nitriles and Aldehydes with $\beta$ -, $\gamma$ -, and $\delta$ -End Groups. <i>Helvetica Chimica Acta</i> , 2013, 96, 259-265.	1.6	2

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73	Kinetic studies of a $\beta$ -Lactamase by a computerized microacidimetric method. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1975, 384, 242-249.	2.6	1
74	Synthesis of New $\beta$ -Methylene Analogs of Retinoids. <i>Synthetic Communications</i> , 2005, 35, 2363-2369.	2.1	1
75	Chemistry of Natural Retinoids and Carotenoids: Challenges for the Future. <i>ChemInform</i> , 2004, 35, no.	0.0	0
76	Syntheses, in vitro Antibacterial and Cytotoxic Activities of a Series of 3-Substituted Succinimides.. <i>ChemInform</i> , 2005, 36, no.	0.0	0
77	Identification of $\beta$ Lactamases of <i>Pseudomonas Aeruginosa</i> by Computerized Microacidimetry. , 1975, , 51-55.		0
78	Interactions of New Cephalosporins with Some Cephalosporinases. , 1976, , 347-353.		0