

# CITATION REPORT

List of articles citing

**Bacterial endotoxin: molecular relationships of structure to activity and function**

**DOI: 10.1096/fasebj.8.2.8119492**  
**FASEB Journal, 1994, 8, 217-25.**

**Source:** <https://exaly.com/paper-pdf/24702584/citation-report.pdf>

**Version:** 2024-04-10

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
1314	The role of CD14 and lipopolysaccharide-binding protein (LBP) in the activation of different cell types by endotoxin. <b>1994</b> , 183, 279-97		67
1313	Diphosphoryl lipid A derived from the lipopolysaccharide (LPS) of <i>Rhodobacter sphaeroides</i> ATCC 17023 is a potent competitive LPS inhibitor in murine macrophage-like J774.1 cells. <b>1994</b> , 9, 237-43		24
1312	Molecular Structure of Lipid a, the Endotoxic Center of Bacterial Lipopolysaccharides11This article is dedicated to Professor Dr. Dr. med. h.c. Otto Westphal on the occasion of his 80th birthday (February 1st, 1993).. <b>1994</b> , 211-276		130
1311	Extracorporeal techniques of endotoxin removal: a review of the art and science. <b>1995</b> , 2, 60-9		19
1310	Lipid A biosynthesis in <i>Rhizobium leguminosarum</i> : role of a 2-keto-3-deoxyoctulosonate-activated 4Nphosphatase. <b>1995</b> , 92, 7352-6		56
1309	Molecular mechanisms of endotoxin activity. <b>1995</b> , 164, 383-9		253
1308	Modulins: a new class of cytokine-inducing, pro-inflammatory bacterial virulence factor. <b>1995</b> , 44, 187-97		45
1307	Metallothionein induction in cultured rat hepatocytes by arthritic rat serum, activated macrophages, interleukin-6, interleukin-11 and leukaemia inhibitory factor. <b>1995</b> , 44, 475-81		24
1306	Molecular cloning, sequence analysis, and functional characterization of the lipopolysaccharide biosynthetic gene kdtA encoding 3-deoxy-alpha-D-manno-octulosonic acid transferase of <i>Chlamydia pneumoniae</i> strain TW-183. <b>1995</b> , 18, 391-9		46
1305	Structure and function of the porin channel. <b>1995</b> , 48, 930-40		37
1304	Biological and serological characterization of <i>Campylobacter jejuni</i> lipopolysaccharides with deviating core and lipid A structures. <b>1995</b> , 11, 121-30		29
1303	Synthesis of an analog of biosynthetic precursor Ia of lipid A by an improved method: a novel antagonist containing four (S)-3-hydroxy fatty acids. <b>1995</b> , 36, 7455-7458		20
1302	Synthetic route for 14C-labeling of a bioactive lipid a analogue. <b>1995</b> , 36, 8645-8648		11
1301	Influence of hexadecylphosphocholine on the release of tumor necrosis factor and nitroxide from peritoneal macrophages in vitro. <b>1995</b> , 121, 69-75		36
1300	Endotoxemia: methods of detection and clinical correlates. <b>1995</b> , 8, 268-92		234
1299	Enzymatically deacylated lipopolysaccharide (LPS) can antagonize LPS at multiple sites in the LPS recognition pathway. <b>1995</b> , 270, 9904-10		106
1298	Do endotoxin aggregates intercalate into phospholipid membranes in a nonspecific, hydrophobic manner?. <b>1995</b> , 2, 313-323		16

1297	Cell damage in inflammatory and infectious sites might involve a coordinated "cross-talk" among oxidants, microbial haemolysins and amphiphiles, cationic proteins, phospholipases, fatty acids, proteinases and cytokines (an overview). <b>1995</b> , 22, 489-517	61
1296	Review: Bacterial endotoxin and the human monoclonal antibody HA-IA: specificity, potential mechanisms of action, and limits to its effectiveness. <b>1995</b> , 2, 371-386	3
1295	Influence of host defense activation on sleep in humans. <b>1995</b> , 5, 155-69	40
1294	The solution structure of the active domain of CAP18--a lipopolysaccharide binding protein from rabbit leukocytes. <b>1995</b> , 370, 46-52	53
1293	Receptor-dependent mechanisms of cell stimulation by bacterial endotoxin. <b>1995</b> , 13, 437-57	1239
1292	Structure-Bioactivity Relationships of Bacterial Endotoxins. <b>1995</b> , 14, 47-83	32
1291	Tolerance to lipopolysaccharide in human blood monocytes. <b>1995</b> , 193, 217-23	52
1290	Planar asymmetric lipid bilayers of glycosphingolipid or lipopolysaccharide on one side and phospholipids on the other: membrane potential, porin function, and complement activation. <b>1996</b> , 70, 321-9	53
1289	Improved method for the removal of endotoxin from DNA. <b>1996</b> , 44, 43-6	27
1288	Effect of soluble P55 tumour-necrosis factor binding fusion protein on the local Shwartzman and Arthus reactions. <b>1996</b> , 117, 471-478	6
1287	Endotoxin-induced local inflammation and hyperalgesia in rats and mice: a new model for inflammatory pain. <b>1996</b> , 66, 373-9	110
1286	Role of lipo-oligosaccharides and lipopolysaccharides in bacterial adherence. <b>1996</b> , 4, 408-9	86
1285	Food for thought. <b>1996</b> , 4, 410-411	
1284	Tolerance to lipopolysaccharide-induced increase in vascular permeability in mouse skin. <b>1996</b> , 313, 129-34	6
1283	Structural requirements of taxoids for nitric oxide and tumor necrosis factor production by murine macrophages. <b>1996</b> , 227, 227-35	37
1282	LPS induced release of IL-1 beta, IL-6, IL-8 and TNF-alpha in EDTA or heparin anticoagulated whole blood from persons with high or low levels of serum HDL. <b>1996</b> , 8, 152-60	37
1281	Fluorescence resonance energy transfer analysis of lipopolysaccharide in detergent micelles. <b>1996</b> , 70, 988-97	13
1280	Induction of early-phase endotoxin tolerance in horses. <b>1996</b> , 28, 269-74	21

1279	Association of lipid A disaccharide synthase with aerobic glycerol-3-phosphate dehydrogenase in extracts of <i>Escherichia coli</i> . <b>1996</b> , 1304, 245-53	2
1278	Characterisation of the acute phase response of heifers to a prolonged low dose infusion of lipopolysaccharide. <b>1996</b> , 61, 252-7	66
1277	The increased endotoxin-sensitivity of pregnant rats, as reflected by glomerular ecto-ADP-ase activity, is not dependent on the presence of decidual cells. <b>1996</b> , 17, 185-8	3
1276	Resistance to endotoxin shock and reduced dissemination of gram-negative bacteria in CD14-deficient mice. <b>1996</b> , 4, 407-14	628
1275	Separation of wild-type lipopolysaccharides by centrifugal partition chromatography: isolation of smooth form species. <b>1996</b> , 3, 1-7	6
1274	Bacterial endotoxin: Chemical constitution, biological recognition, host response, and immunological detoxification. <b>1996</b> , 216, 39-81	287
1273	Identification of two core types in lipopolysaccharides of <i>Actinobacillus pleuropneumoniae</i> representing serotypes 1 to 12. <b>1996</b> , 42, 855-8	9
1272	Lipopolysaccharide-induced hepatic injury is enhanced by polychlorinated biphenyls. <b>1996</b> , 104, 634-40	12
1271	Human Macrophage Response to Retrieved Titanium Alloy Particles In Vitro. <b>1996</b> , 322, 268-278	64
1270	A murine platelet-activating factor receptor gene: cloning, chromosomal localization and up-regulation of expression by lipopolysaccharide in peritoneal resident macrophages. <b>1996</b> , 314 (Pt 2), 671-8	47
1269	Splenic B-cell activation in lipopolysaccharide-non-responsive C3H/HeJ mice by lipopolysaccharide of <i>Porphyromonas gingivalis</i> . <b>1996</b> , 52, 909-17	13
1268	Bacterial products and the control of ingestive behavior: clinical implications. <b>1996</b> , 12, 303-15	74
1267	Heterogeneity of human blood monocytes: the CD14+ CD16+ subpopulation. <b>1996</b> , 17, 424-8	265
1266	Biochemistry and cell biology of bacterial endotoxins. <b>1996</b> , 16, 83-104	132
1265	A polyreactive human anti-lipid A monoclonal antibody having cross reactivity to polysaccharide portions of <i>Pseudomonas aeruginosa</i> lipopolysaccharides. <b>1996</b> , 14, 31-8	8
1264	Biological characterization of <i>Campylobacter fetus</i> lipopolysaccharides. <b>1996</b> , 15, 43-50	7
1263	Conformation of lipid A, the endotoxic center of bacterial lipopolysaccharide. <b>1996</b> , 3, 173-178	40
1262	Lipopolysaccharide Biosynthesis in <i>Rhizobium leguminosarum</i> . <b>1996</b> , 271, 32112-32118	36

1261	A special acyl carrier protein for transferring long hydroxylated fatty acids to lipid A in <i>Rhizobium</i> . <b>1996</b> , 271, 32126-36	60
1260	Macrophage Activation by Liposomal Lipid A: Implications for Vaccines. <b>1996</b> , 6, 325-338	1
1259	Function of the <i>htrB</i> high temperature requirement gene of <i>Escherichia coli</i> in the acylation of lipid A: <i>HtrB</i> catalyzed incorporation of laurate. <b>1996</b> , 271, 12095-102	155
1258	High affinity endotoxin-binding and neutralizing peptides based on the crystal structure of recombinant <i>Limulus</i> anti-lipopolysaccharide factor. <b>1996</b> , 271, 28120-7	100
1257	Diurnal variations in the human host response to endotoxin. <b>1996</b> , 174, 1040-5	81
1256	Lipopolysaccharide Core Glycosylation in <i>Rhizobium leguminosarum</i> . <b>1996</b> , 271, 32119-32125	36
1255	Pathobiology of lipopolysaccharide. <b>1997</b> , 51, 415-35	161
1254	Review: Chlamydial lipopolysaccharide. <b>1997</b> , 4, 67-84	22
1253	<i>Rhodobacter sphaeroides</i> diphosphoryl lipid A inhibits interleukin-6 production in CD14-negative murine marrow stromal ST2 cells stimulated with lipopolysaccharide or paclitaxel (taxol). <b>1997</b> , 4, 115-122	5
1252	Detection of lipid A by monoclonal antibodies in S-form lipopolysaccharide after acidic treatment of immobilized LPS on Western blot. <b>1997</b> , 4, 89-95	15
1251	Shortened hydroxyacyl chains on lipid A of <i>Escherichia coli</i> cells expressing a foreign UDP-N-acetylglucosamine O-acyltransferase. <b>1997</b> , 272, 19688-96	55
1250	Phosphatidylinositol 3-kinase-dependent activation of protein kinase C-zeta in bacterial lipopolysaccharide-treated human monocytes. <b>1997</b> , 272, 16445-52	109
1249	Effects of pig hemoglobin binding on some physical and biological properties of <i>Actinobacillus pleuropneumoniae</i> lipopolysaccharides. <b>1997</b> , 4, 53-65	7
1248	Identification of the gene encoding the <i>Escherichia coli</i> lipid A 4N-kinase. Facile phosphorylation of endotoxin analogs with recombinant LpxK. <b>1997</b> , 272, 21855-64	85
1247	Endotoxin binding on capillary endothelium and myocyte plasma membranes in perfused rat heart. <b>1997</b> , 4, 45-51	2
1246	New Efficient Synthesis of a Biosynthetic Precursor of Lipid A. <b>1997</b> , 70, 1435-1440	30
1245	Mechanisms of action of the bactericidal/permeability-increasing protein BPI on endotoxin and phospholipid monolayers and aggregates. <b>1997</b> , 36, 10301-10	54
1244	Molecular dynamics simulations of six different fully hydrated monomeric conformers of <i>Escherichia coli</i> re-lipopolysaccharide in the presence and absence of Ca <sup>2+</sup> . <b>1997</b> , 72, 1031-46	29

1243	Pneumonia in the surgical patient. <b>1997</b> , 34, 117-200	19
1242	Conformational studies of synthetic lipid A analogues and partial structures by infrared spectroscopy. <b>1997</b> , 1329, 183-201	73
1241	Role of lipid metabolites in the signalling and activation of macrophage cells by lipopolysaccharide. <b>1997</b> , 36, 227-44	14
1240	Chemistry and functional distribution of sulfoglycolipids. <b>1997</b> , 36, 245-319	243
1239	Lipopolysaccharide rapidly activates K <sup>+</sup> channels at the intracellular membrane face of rat cerebral artery smooth muscle cells. <b>1997</b> , 231, 25-8	17
1238	Transgenic mice expressing rabbit C-reactive protein are resistant to endotoxemia. <b>1997</b> , 94, 2575-80	127
1237	Structural characterization of the lipid A component of <i>Helicobacter pylori</i> rough- and smooth-form lipopolysaccharides. <b>1997</b> , 179, 6453-63	172
1236	Lipopolysaccharide dependent cellular activation. <b>1997</b> , 32, 99-103	38
1235	Comparison of lipopolysaccharides from <i>Bacteroides</i> , <i>Porphyromonas</i> , <i>Prevotella</i> , <i>Campylobacter</i> and <i>Wolinella</i> spp. by tricine-SDS-PAGE. <b>1997</b> , 13, 13-8	7
1234	Distribution of serotypes of <i>Campylobacter jejuni</i> and <i>C. coli</i> from Danish patients, poultry, cattle and swine. <b>1997</b> , 19, 47-56	110
1233	Lipopolysaccharide-binding protein is required to combat a murine gram-negative bacterial infection. <b>1997</b> , 389, 742-5	304
1232	Molecular cloning, sequence analysis and functional characterization of the gene <i>kdsA</i> , encoding 3-deoxy-D-manno-2-octulosonate-8-phosphate synthase of <i>Chlamydia psittaci</i> 6BC. <b>1997</b> , 244, 66-73	12
1231	Deletion of the heptosyltransferase genes <i>rfaC</i> and <i>rfaF</i> in <i>Escherichia coli</i> K-12 results in an Re-type lipopolysaccharide with a high degree of 2-aminoethanol phosphate substitution. <b>1997</b> , 247, 716-24	98
1230	Detection of lipopolysaccharide (LPS)-binding membrane proteins by immuno-coprecipitation with LPS and anti-LPS antibodies. <b>1997</b> , 250, 418-24	16
1229	Bacterial cell wall products increase monocyte HLA-DR and ICAM-1 without affecting lymphocyte CD18 expression. <b>1997</b> , 176, 127-34	24
1228	Immunoreactive T and T <sub>n</sub> epitopes in cancer diagnosis, prognosis, and immunotherapy. <b>1997</b> , 75, 594-602	349
1227	Endotoxemia in febrile patients with hematological malignancies. Relationship of type of bacteremia, clinical findings and serum cytokine pattern. <b>1997</b> , 25, 2-7	9
1226	Endotoxin contamination in fetal bovine serum and its influence on tumor necrosis factor production by macrophage-like cells J774.1 cultured in the presence of the serum. <b>1997</b> , 19, 255-62	27

1225	Characterization of monoclonal antibodies recognizing three distinct, phosphorylated carbohydrate epitopes in the lipopolysaccharide of the deep rough mutant I-69 Rd-/b+ of <i>Haemophilus influenzae</i> . <b>1997</b> , 23, 569-77	9
1224	Antagonism by ethanol of endotoxin-induced tissue factor activation in relation to the depressed endotoxin binding to monocyte-like U937 cells. <b>1997</b> , 15, 271-81	17
1223	Polymyxin B nonapeptide: Conformations in water and in the lipopolysaccharide-bound state determined by two-dimensional NMR and molecular dynamics. <b>1997</b> , 41, 251-265	54
1222	Determination of 2-keto-3-deoxyoctulosonic acid (KDO) with high-performance anion-exchange chromatography (HPAEC): survey of stability of KDO and optimal hydrolytic conditions. <b>1997</b> , 245, 97-101	16
1221	The lipooligosaccharide (LOS) of <i>Neisseria meningitidis</i> serogroup B strain NMB contains L2, L3, and novel oligosaccharides, and lacks the lipid-A 4-phosphate substituent. <b>1998</b> , 307, 311-24	41
1220	Simultaneous determination of glucosamine and glucosamine 4-phosphate in Lipid A with high-performance anion-exchange chromatography (HPAEC). <b>1998</b> , 312, 73-6	8
1219	Infrared spectroscopy of glycolipids. <b>1998</b> , 96, 23-40	51
1218	A comparison of the effects of lipopolysaccharide and ceramide on arachidonic acid metabolism in THP-1 monocytic cells. <b>1998</b> , 186, 147-53	6
1217	Internally applied endotoxin and the activation of BK channels in cerebral artery smooth muscle via a nitric oxide-like pathway. <b>1998</b> , 123, 5-12	18
1216	Comparison of the effects of <i>Salmonella minnesota</i> Re595 lipopolysaccharide, lipid A and monophosphoryl lipid A on nitric oxide, TNF- $\alpha$ , and IL-6 induction from RAW 264.7 macrophages. <b>1998</b> , 22, 263-73	11
1215	Brain inflammatory response induced by intracerebroventricular infusion of lipopolysaccharide: an immunohistochemical study. <b>1998</b> , 794, 211-24	96
1214	Development of a novel in vitro co-culture system for studying host response to native bacterial antigens. <b>1998</b> , 211, 147-58	7
1213	A rapid assay of endotoxin in whole blood using autologous neutrophil dependent chemiluminescence. <b>1998</b> , 212, 169-85	124
1212	Components of gut bacteria as immunomodulators. <b>1998</b> , 41, 141-54	39
1211	Comparison of the effects of <i>Salmonella minnesota</i> Re595 lipopolysaccharide, lipid A and monophosphoryl lipid A on nitric oxide, TNF- $\alpha$ and IL-6 induction from RAW 264.7 macrophages. <b>1998</b> , 22, 263-273	2
1210	Molecular mechanisms of sepsis. <b>1998</b> , 383, 2-10	21
1209	Divergent synthesis and biological activities of lipid A analogues of shorter acyl chains. <b>1998</b> , 54, 4033-4050	63
1208	Thalidomide analogs and PDE4 inhibition. <b>1998</b> , 8, 2669-74	60

1207	Prostaglandin and fatty acid modulation of Escherichia coli O157 phagocytosis by human monocytic cells. <b>1998</b> , 94, 228-34	28
1206	A lethal role for lipid A in Salmonella infections. <b>1998</b> , 29, 571-9	180
1205	Isoproterenol inhibits IL-10, TNF-alpha, and nitric oxide production in RAW 264.7 macrophages. <b>1998</b> , 45, 183-7	86
1204	Antibacterial and anti-inflammatory agents that target endotoxin. <b>1998</b> , 6, 154-9	93
1203	Innate immune recognition of bacterial lipopolysaccharide: dependence on interactions with membrane lipids and endocytic movement. <b>1998</b> , 8, 771-7	70
1202	Structure, processing and properties of surfactant protein A. <b>1998</b> , 1408, 109-31	94
1201	Bacterial endotoxin alters kinetics of BK channels in rat cerebrovascular smooth muscle cells. <b>1998</b> , 1369, 335-45	10
1200	A novel lipopolysaccharide inducible C-C chemokine receptor related gene in murine macrophages. <b>1998</b> , 425, 490-4	44
1199	Hydrocarbon rulers in UDP-N-acetylglucosamine acyltransferases. <b>1998</b> , 273, 32369-72	72
1198	Function of Escherichia coli MsbA, an essential ABC family transporter, in lipid A and phospholipid biosynthesis. <b>1998</b> , 273, 12466-75	268
1197	Structural significance of the benzoyl group at the C-3' position of paclitaxel for nitric oxide and tumor necrosis factor production by murine macrophages. <b>1998</b> , 245, 698-704	13
1196	Critical aggregation concentrations of gram-negative bacterial lipopolysaccharides (LPS). <b>1998</b> , 253, 119-23	103
1195	Antagonism by IL-4 and IL-10 of endotoxin-induced tissue factor activation in monocytic THP-1 cells: activating role of CD14 ligation. <b>1998</b> , 80, 80-7	22
1194	Antiendotoxin strategies for the prevention and treatment of septic shock. New approaches and future directions. <b>1998</b> , 55, 497-508	47
1193	The influence of poly-(L-lysine) and porin on the domain structure of mixed vesicles composed of lipopolysaccharide and phospholipid: an infrared spectroscopic study. <b>1998</b> , 75, 840-52	26
1192	Genetic basis for biosynthesis, structure, and function of meningococcal lipooligosaccharide (endotoxin). <b>1998</b> , 24, 281-334	139
1191	Enzymatic synthesis of lipopolysaccharide in Escherichia coli. Purification and properties of heptosyltransferase i. <b>1998</b> , 273, 2799-807	52
1190	Cloning and overexpression of glycosyltransferases that generate the lipopolysaccharide core of Rhizobium leguminosarum. <b>1998</b> , 273, 26432-40	33



1189	Lipopolysaccharide and peptidoglycan: CD14-dependent bacterial inducers of inflammation. <b>1998</b> , 4, 37-44			78
1188	The Rhizobiaceae. <b>1998</b> ,			62
1187	Accumulation of a lipid A precursor lacking the 4N-phosphate following inactivation of the Escherichia coli lpxK gene. <b>1998</b> , 273, 12457-65			42
1186	Annexins I and II bind to lipid A: a possible role in the inhibition of endotoxins. <b>1998</b> , 330 ( Pt 1), 67-72			18
1185	The (alpha2-->8)-linked polysialic acid capsule and lipooligosaccharide structure both contribute to the ability of serogroup B Neisseria meningitidis to resist the bactericidal activity of normal human serum. <b>1998</b> , 66, 5939-47			127
1184	Coexpression of inducible NO synthase and soluble guanylyl cyclase in colonic enterocytes: a pathophysiologic signaling pathway for the initiation of diarrhea by gram-negative bacteria?. <i>FASEB Journal</i> , <b>1998</b> , 12, 1643-9	0.9		17
1183	Lipopolyamines: novel antiendotoxin compounds that reduce mortality in experimental sepsis caused by gram-negative bacteria. <b>1999</b> , 43, 912-9			66
1182	Surfactant protein A enhances the binding and deacylation of E. coli LPS by alveolar macrophages. <b>1999</b> , 276, L540-7			18
1181	TNF in the Inflammatory Response. <b>1999</b> , 74, 141-161			72
1180	A Haemophilus influenzae gene that encodes a membrane bound 3-deoxy-D-manno-octulosonic acid (Kdo) kinase. Possible involvement of kdo phosphorylation in bacterial virulence. <b>1999</b> , 274, 31391-400			38
1179	A biophysical approach towards an understanding of endotoxin-induced signal transduction. <b>1999</b> , 5, 41-45			5
1178	Effect of cold shock on lipid A biosynthesis in Escherichia coli. Induction At 12 degrees C of an acyltransferase specific for palmitoleoyl-acyl carrier protein. <b>1999</b> , 274, 9677-85			133
1177	A phosphotransferase that generates phosphatidylinositol 4-phosphate (PtdIns-4-P) from phosphatidylinositol and lipid A in Rhizobium leguminosarum. A membrane-bound enzyme linking lipid a and ptdins-4-p biosynthesis. <b>1999</b> , 274, 11139-49			35
1176	Implications for a general role of LPS-binding proteins (CD14, LBP) in combating bacterial infections. <b>1999</b> , 5, 75-80			2
1175	Lipid A modifications characteristic of Salmonella typhimurium are induced by NH4VO3 in Escherichia coli K12. Detection of 4-amino-4-deoxy-L-arabinose, phosphoethanolamine and palmitate. <b>1999</b> , 274, 18503-14			184
1174	Structural analysis of the lipopolysaccharide from Chlamydia trachomatis serotype L2. <b>1999</b> , 274, 16819-24			86
1173	Lipopolysaccharide inhibits virus-mediated induction of interferon genes by disruption of nuclear transport of interferon regulatory factors 3 and 7. <b>1999</b> , 274, 18060-6			14
1172	A deacylase in Rhizobium leguminosarum membranes that cleaves the 3-O-linked beta-hydroxymyristoyl moiety of lipid A precursors. <b>1999</b> , 274, 11150-8			39

1171	Synthesis and bioactivity of a fluorescence-labeled lipid A analogue. <b>1999</b> , 40, 5199-5202	11
1170	Cytokines, growth factors, and oxidative stress in HepG2 cells treated with ethanol, acetaldehyde, and LPS. <b>1999</b> , 134, 197-207	44
1169	From humoral fever to neuroimmunological control of fever. <b>1999</b> , 24, 287-326	68
1168	Cytokines and endotoxin removal by sorbents and its application in push-pull sorbent-based pheresis: the BioLogic-DTPF System. <b>1999</b> , 23, 310-8	30
1167	Effect of time post mortem on the concentration of endotoxin in rat organs: implications for sudden infant death syndrome (SIDS). <b>1999</b> , 25, 125-30	7
1166	Interaction of peptides and proteins with bacterial surface glycolipids: a comparison of glycosphingolipids and lipopolysaccharides. <b>1999</b> , 23, 414-424	13
1165	The structure of the core part of <i>Proteus mirabilis</i> O27 lipopolysaccharide with a new type of glycosidic linkage. <b>1999</b> , 319, 92-101	28
1164	NMR experiments reveal distinct antibody-bound conformations of a synthetic disaccharide representing a general structural element of bacterial lipopolysaccharide epitopes. <b>1999</b> , 38, 6449-59	45
1163	Interlaboratory comparison of endotoxin analyses in occupational exposure. <b>1999</b> , 62, 25-9	1
1162	Complement activation by bacterial surface glycolipids: a study with planar bilayer membranes. <b>1999</b> , 167, 223-32	15
1161	Inhibition of adherence of <i>Actinobacillus pleuropneumoniae</i> to porcine respiratory tract cells by monoclonal antibodies directed against LPS and partial characterization of the LPS receptors. <b>1999</b> , 39, 313-0320	17
1160	The Lps locus: genetic regulation of host responses to bacterial lipopolysaccharide. <b>1999</b> , 48, 613-20	40
1159	Reduced bacterial dissemination and liver injury in CD14-deficient mice following a chronic abscess-forming peritonitis induced by <i>Bacteroides fragilis</i> . <b>1999</b> , 187, 149-56	8
1158	Endotoxin potency in the A549 lung epithelial cell bioassay and the limulus amebocyte lysate assay. <b>1999</b> , 226, 49-58	24
1157	Host resistance to infection: genetic control of lipopolysaccharide responsiveness by TOLL-like receptor genes. <b>1999</b> , 15, 291-4	82
1156	Isolation and structural analysis of phosphorylated oligosaccharides obtained from <i>Escherichia coli</i> J-5 lipopolysaccharide. <b>1999</b> , 260, 235-49	26
1155	Up-regulation of heme-binding protein 23 (HBP23) gene expression by lipopolysaccharide is mediated via a nitric oxide-dependent signaling pathway in rat Kupffer cells. <b>1999</b> , 30, 118-27	38
1154	Molecular mechanisms of interaction of rabbit CAP18 with outer membranes of gram-negative bacteria. <b>1999</b> , 38, 13643-53	32

1153	Recent advances in the medicinal chemistry of taxoid anticancer agents. <b>1999</b> , 69-124	23
1152	Role of centrally administered melatonin and inhibitors of COX and NOS in LPS-induced hyperthermia and adiposia. <b>1999</b> , 60, 249-53	19
1151	CD14. <b>1999</b> , 31, 545-9	54
1150	Signal transduction triggered by lipid A-like molecules in 70Z/3 pre-B lymphocyte tumor cells. <b>1999</b> , 1437, 246-56	3
1149	Differential roles of TLR2 and TLR4 in recognition of gram-negative and gram-positive bacterial cell wall components. <b>1999</b> , 11, 443-51	2719
1148	Lipopolysaccharides. <b>1999</b> , 179-239	15
1147	Function of CD14 as a peptidoglycan receptor: differences and similarities with LPS. <b>1999</b> , 5, 56-61	1
1146	Dynamics of the Lipopolysaccharide Assembly on the Surface of Escherichia coli. <b>1999</b> , 121, 8707-8711	92
1145	Blockade by polyunsaturated n-3 fatty acids of endotoxin-induced monocytic tissue factor activation is mediated by the depressed receptor expression in THP-1 cells. <b>1999</b> , 87, 217-24	58
1144	Compound 48/80 suppresses monocytic tissue factor-initiated extrinsic blood coagulation induced by bacterial endotoxin. <b>1999</b> , 87, 252-7	11
1143	Direct visualization of gram-negative bacterial lipopolysaccharide self-assembly. <b>1999</b> , 2, 42-6	14
1142	S-form lipopolysaccharide (LPS), but not lipid A or R-chemo-type LPS, induces interleukin-6 production in vitamin D3-differentiated THP-1 cells. <b>1999</b> , 257, 327-32	6
1141	Endotoxin tolerance in rats: expression of TNF-alpha, IL-6, IL-10, VCAM-1 AND HSP 70 in lung and liver during endotoxin shock. <b>1999</b> , 11, 796-804	74
1140	Synthesis of <sup>13</sup> C-Labeled Biosynthetic Precursor of Lipid A and Its Analogue with Shorter Acyl Chains. <b>1999</b> , 72, 1857-1867	19
1139	A Divergent Synthesis of Lipid A and Its Chemically Stable Unnatural Analogues. <b>1999</b> , 72, 1377-1385	50
1138	Structural basis of the Escherichia coli outer-membrane permeability. <b>1999</b> ,	0
1137	The active site of Escherichia coli UDP-N-acetylglucosamine acyltransferase. Chemical modification and site-directed mutagenesis. <b>1999</b> , 274, 27047-55	58
1136	Radiodetoxified lipopolysaccharide fails to activate the hypothalamic-pituitary-adrenal axis in the rat. <b>2000</b> , 8, 128-31	4

1135	Lipopolysaccharide (LPS)-induced intra-uterine fetal death (IUFD) in mice is principally due to maternal cause but not fetal sensitivity to LPS. <b>2000</b> , 44, 897-904	57
1134	A lipid A analog, E5531, blocks the endotoxin response in human volunteers with experimental endotoxemia. <b>2000</b> , 28, 2713-20	74
1133	Protective effect of C-reactive protein against the lethality induced by <i>Vibrio vulnificus</i> lipopolysaccharide. <b>2000</b> , 44, 335-40	12
1132	ATF and Jun transcription factors, acting through an Ets/CRE promoter module, mediate lipopolysaccharide inducibility of the chemokine RANTES in monocytic Mono Mac 6 cells. <b>2000</b> , 30, 1102-12	55
1131	Extracellular Ca(2+) suppresses endotoxin-inducible tissue factor activation in monocytic THP-1 cells. <b>2000</b> , 18, 67-73	
1130	<i>Escherichia coli</i> Lipid A: A Potent Activator of Innate Immunity. 435-451	1
1129	Lipopolysaccharides and plant responses to phytopathogenic bacteria. <b>2000</b> , 1, 25-31	47
1128	Physicochemical characteristics of triacyl lipid A partial structure OM-174 in relation to biological activity. <b>2000</b> , 267, 3370-7	42
1127	Comparative functional characterization in vitro of heptosyltransferase I (WaaC) and II (WaaF) from <i>Escherichia coli</i> . <b>2000</b> , 267, 6602-11	58
1126	Schlaf und Schläfrigkeit im Rahmen von Infektionen und im Rahmen experimenteller Immunmodulation beim Menschen. <b>2000</b> , 4, 68-78	4
1125	Effect of <i>Salmonella typhi</i> wild type and O-antigen mutants on human natural killer cell activity. <b>2000</b> , 22, 355-64	5
1124	Endotoxins, asthma, and allergic immune responses. <b>2000</b> , 152, 31-5	65
1123	Induction of proliferation and cytokine production in human T lymphocytes by lipopolysaccharide (LPS). <b>2000</b> , 152, 37-45	70
1122	Endotoxin and muramyl dipeptide modulate surface receptor expression on human mononuclear cells. <b>2000</b> , 48, 117-28	41
1121	Involvement of interleukin-1 in the inflammatory actions of aminobisphosphonates in mice. <b>2000</b> , 130, 1646-54	37
1120	The relationship between O-chain expression and colonisation ability of <i>Helicobacter pylori</i> in a mouse model. <b>2000</b> , 29, 263-70	33
1119	Anorexia of infection: current prospects. <b>2000</b> , 16, 996-1005	132
1118	New technology for regiospecific covalent coupling of polysaccharide antigens in ELISA for serological detection. <b>2000</b> , 242, 133-43	15

1117	Modulation of glial activation by astrocyte-derived protein S100B: differential responses of astrocyte and microglial cultures. <b>2000</b> , 853, 74-80	71
1116	Melatonin reversal of lipopolysaccharides-induced thermal and behavioral hyperalgesia in mice. <b>2000</b> , 395, 15-21	75
1115	Mechanisms of Action of Rabbit CAP18 on Monolayers and Liposomes Made from Endotoxins of Phospholipids. <b>2000</b> , 178, a71-a71	5
1114	Mechanisms of action of rabbit CAP18 on monolayers and liposomes made from endotoxins or phospholipids. <b>2000</b> , 176, 223-36	19
1113	Changes in dehydroepiandrosterone (DHEA) and DHEA-sulfate plasma levels during experimental endotoxemia in healthy volunteers. <b>2000</b> , 85, 4624-9	18
1112	Toll-like receptor 4, but not toll-like receptor 2, is a signaling receptor for Escherichia and Salmonella lipopolysaccharides. <b>2000</b> , 165, 5780-7	296
1111	Cutting edge: repurification of lipopolysaccharide eliminates signaling through both human and murine toll-like receptor 2. <b>2000</b> , 165, 618-22	957
1110	Evaluation of a novel enzyme-linked immunosorbent assay for detection of antibodies against Salmonella, employing a stable coating of lipopolysaccharide-derived antigens covalently attached to polystyrene microwells. <b>2000</b> , 12, 130-5	15
1109	High-resolution NMR spectroscopy of lipid A molecules containing 4-amino-4-deoxy-L-arabinose and phosphoethanolamine substituents. Different attachment sites on lipid A molecules from NH <sub>4</sub> VO <sub>3</sub> -treated Escherichia coli versus kdsA mutants of Salmonella typhimurium. <b>2000</b> , 275, 13542-51	67
1108	Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry of lipopolysaccharides. <b>2000</b> , 145, 311-25	29
1107	Oxygen requirement for the biosynthesis of the S-2-hydroxymyristate moiety in Salmonella typhimurium lipid A. Function of LpxO, A new Fe <sup>2+</sup> /alpha-ketoglutarate-dependent dioxygenase homologue. <b>2000</b> , 275, 32940-9	130
1106	Bacterial Toxins: Methods and Protocols. <b>2000</b> ,	8
1105	The adjuvant monophosphoryl lipid A increases the function of antigen-presenting cells. <b>2000</b> , 12, 807-15	137
1104	Endotoxin tolerance protects against local hepatic ischemia/reperfusion injury in the rat. <b>2000</b> , 6, 321-328	3
1103	Purification and mass spectrometry of six lipid A species from the bacterial endosymbiont Rhizobium etli. Demonstration of a conserved distal unit and a variable proximal portion. <b>2000</b> , 275, 28006-16	97
1102	Two-dimensional NMR spectroscopy and structures of six lipid A species from Rhizobium etli CE3. Detection of an acyloxyacyl residue in each component and origin of the aminogluconate moiety. <b>2000</b> , 275, 28017-27	70
1101	Diurnal variations in lipopolysaccharide-induced sleep, sickness behavior and changes in corticosterone levels in the rat. <b>2000</b> , 71, 375-85	29
1100	The biology of endotoxin. <b>2000</b> , 145, 287-309	4

1099	Manipulation of Macrophage Activities Using Liposomes. <b>2000</b> , 10, 359-389	1
1098	Role of phosphoglucomutase of <i>Bordetella bronchiseptica</i> in lipopolysaccharide biosynthesis and virulence. <b>2000</b> , 68, 4673-80	37
1097	Cellular responses to bacterial cell wall components are mediated through MyD88-dependent signaling cascades. <b>2000</b> , 12, 113-7	248
1096	What are the microbial components implicated in the pathogenesis of sepsis? Report on a symposium. <b>2000</b> , 31, 851-8	45
1095	Purified lipopolysaccharide from <i>Francisella tularensis</i> live vaccine strain (LVS) induces protective immunity against LVS infection that requires B cells and gamma interferon. <b>2000</b> , 68, 1988-96	85
1094	Syndecan-1 shedding is enhanced by LasA, a secreted virulence factor of <i>Pseudomonas aeruginosa</i> . <b>2000</b> , 275, 3057-64	115
1093	The role of polar and facial amphipathic character in determining lipopolysaccharide-binding properties in synthetic cationic peptides. <b>2000</b> , 6, 249-256	18
1092	Pentoxifylline attenuates bacterial lipopolysaccharide-induced enhancement of allyl alcohol hepatotoxicity. <b>2000</b> , 56, 203-10	11
1091	Lipopolysaccharide inhibits HIV-1 infection of monocyte- derived macrophages through direct and sustained down-regulation of CC chemokine receptor 5. <b>2000</b> , 164, 2592-601	60
1090	Structure and mechanism of 3-deoxy-D-manno-octulosonate 8-phosphate synthase. <b>2000</b> , 275, 9476-84	83
1089	<i>Vibrio fischeri</i> lipopolysaccharide induces developmental apoptosis, but not complete morphogenesis, of the <i>Euprymna scolopes</i> symbiotic light organ. <b>2000</b> , 226, 242-54	100
1088	Cytokine inducing activities of rhizobial and mesorhizobial lipopolysaccharides of different lethal toxicity. <b>2000</b> , 202, 408-20	16
1087	Accumulation of unsaturated lipids in monocytes during early phase pyrogen tolerance. <b>2000</b> , 1484, 183-94	3
1086	In a medium containing glucose, lactate carbon is incorporated by gonococci predominantly into fatty acids and glucose carbon incorporation is increased: implications regarding lactate stimulation of metabolism. <b>2000</b> , 290, 627-39	7
1085	Structural significance of the acyl group at the C-10 position and the A ring of the taxane core of paclitaxel for inducing nitric oxide and tumor necrosis factor production by murine macrophages. <b>2000</b> , 478, 221-6	18
1084	The functional association of polymyxin B with bacterial lipopolysaccharide is stereospecific: studies on polymyxin B nonapeptide. <b>2000</b> , 39, 11837-44	62
1083	Antibacterial agents that target lipid A biosynthesis in gram-negative bacteria. Inhibition of diverse UDP-3-O-(r-3-hydroxymyristoyl)-n-acetylglucosamine deacetylases by substrate analogs containing zinc binding motifs. <b>2000</b> , 275, 11002-9	149
1082	Structure-function studies of polymyxin B nonapeptide: implications to sensitization of gram-negative bacteria. <b>2000</b> , 43, 3085-92	116

1081	High-Resolution Atomic Force Microscopy Studies of the Escherichiacoli Outer Membrane: Structural Basis for Permeability. <b>2000</b> , 16, 2789-2796	361
1080	The Induction and Modulation of Plant Defense Responses by Bacterial Lipopolysaccharides. <b>2000</b> , 38, 241-261	214
1079	Endotoxin removal from protein solutions. <b>2000</b> , 76, 97-119	365
1078	Chapter 11. Anti-angiogenesis as a therapeutic strategy for cancer. <b>2000</b> , 35, 123-133	4
1077	Over-expression of hsp-70 inhibits bacterial lipopolysaccharide-induced production of cytokines in human monocyte-derived macrophages. <b>2001</b> , 16, 210-9	93
1076	Involvement of MAPK activation in bacterial endotoxin-inducible tissue factor upregulation in human monocytic THP-1 cells. <b>2001</b> , 101, 85-90	18
1075	Endotoxin removal by affinity sorbents. <b>2001</b> , 49, 665-81	103
1074	Non-mannose-capped lipoarabinomannan stimulates human peripheral monocytes to expression of the "early immediate genes" tissue factor and tumor necrosis factor-alpha. <b>2001</b> , 102, 273-83	5
1073	Novel pyrogen tests based on the human fever reaction. The report and recommendations of ECVAM Workshop 43. European Centre for the Validation of Alternative Methods. European Centre for the Validation of Alternative Methods. <b>2001</b> , 29, 99-123	51
1072	Synthesis of [3H]-Labeled Bioactive Lipid A Analogs and Their Use for Detection of Lipid A-Binding Proteins on Murine Macrophages. <b>2001</b> , 74, 2189-2197	20
1071	Conformational Study of a Tetraacyl Biosynthetic Precursor of Lipid A by NMR. <b>2001</b> , 74, 1455-1461	9
1070	Treatment of systemic inflammatory response syndrome by push-pull powdered sorbent pheresis: a Phase 1 clinical trial. <b>2001</b> , 5, 497-505	14
1069	Powdered sorbent liver dialysis and pheresis in treatment of hepatic failure. <b>2001</b> , 5, 404-16	22
1068	A new endotoxin adsorber: first clinical application. <b>2001</b> , 5, 326-34	17
1067	Complement-mediated lipopolysaccharide release and outer membrane damage in Escherichia coli J5: requirement for C9. <b>2001</b> , 102, 365-72	23
1066	Lipid A and O-chain modifications cause Rhizobium lipopolysaccharides to become hydrophobic during bacteroid development. <b>2001</b> , 39, 379-91	126
1065	Oxy-diazo-carbonyl compounds. Part 6: Synthesis and reactivity of 3-deoxy-2-diazo-esters derived from monosaccharides. Applications in the synthesis of 2-C-alkyl-KDO analogues and related compounds. <b>2001</b> , 42, 8805-8809	8
1064	Neuroinflammation-induced acceleration of amyloid deposition in the APPV717F transgenic mouse. <b>2001</b> , 14, 474-82	87

1063	First Total Synthesis of the Re-Type Lipopolysaccharide. <b>2001</b> , 113, 1523-1528	15
1062	First Total Synthesis of the Re-Type Lipopolysaccharide. <b>2001</b> , 40, 1475-1480	85
1061	Inhibitory effects of novel hydrophilic cyclodextrin derivatives on nitric oxide production in macrophages stimulated with lipopolysaccharide. <b>2001</b> , 18, 1167-73	15
1060	Bacterial Lipopolysaccharides And Plant-Pathogen Interactions. <b>2001</b> , 107, 95-102	27
1059	The biology of endotoxin. <b>2001</b> , 19, 279-96	82
1058	Membrane perturbing properties of sucrose polyesters. <b>2001</b> , 109, 185-202	3
1057	The biphasic immunoregulation of pyrimidylpiperazine (Y-40138) is IL-10 sensitive and requires NF-kappa B targeting in the alveolar epithelium. <b>2001</b> , 133, 49-60	23
1056	Recombinant lipoproteins: lipoprotein-like lipid particles for drug targeting. <b>2001</b> , 47, 251-76	183
1055	Molecular and in silico characterization of a promoter module and C/EBP element that mediate LPS-induced RANTES/CCL5 expression in monocytic cells. <i>FASEB Journal</i> , <b>2001</b> , 15, 577-9	0.9 45
1054	Inflammatory reactions in extraoral tissues in mice after intragingival injection of lipopolysaccharide. <b>2001</b> , 184, 1566-71	11
1053	Lipopolysaccharide stimulates HIV-1 entry and degradation in human macrophages. <b>2001</b> , 7, 271-276	5
1052	Cytokine-associated emotional and cognitive disturbances in humans. <b>2001</b> , 58, 445-52	1031
1051	Lactate stimulation of gonococcal metabolism in media containing glucose: mechanism, impact on pathogenicity, and wider implications for other pathogens. <b>2001</b> , 69, 6565-72	34
1050	Invited review: Neisseria meningitidis lipopolysaccharides in human pathology. <b>2001</b> , 7, 401-420	16
1049	Lipopolyamines as a therapeutic strategy in experimental Gram-negative bacterial sepsis. <b>2001</b> , 7, 35-38	1
1048	The effect of stress on inflammation. <b>2001</b> , 4, 71-9	1
1047	Chemical structure and biological activity of a lipid A component from Helicobacter pylori strain 206. <b>2001</b> , 7, 95-104	31
1046	Construction of acetate auxotrophs of Neisseria meningitidis to study host-meningococcal endotoxin interactions. <b>2001</b> , 276, 5883-91	48



1045	Apolipoprotein E protects against bacterial lipopolysaccharide-induced lethality. A new therapeutic approach to treat gram-negative sepsis. <b>2001</b> , 276, 8820-4	139
1044	Induction of a novel mechanism of accelerated bacterial clearance by lipopolysaccharide in CD14-deficient and Toll-like receptor 4-deficient mice. <b>2001</b> , 166, 1075-8	79
1043	Ca <sup>2+</sup> -induced phosphoethanolamine transfer to the outer 3-deoxy-D-manno-octulosonic acid moiety of Escherichia coli lipopolysaccharide. A novel membrane enzyme dependent upon phosphatidylethanolamine. <b>2001</b> , 276, 1156-63	64
1042	A Chlamydia trachomatis UDP-N-acetylglucosamine acyltransferase selective for myristoyl-acyl carrier protein. Expression in Escherichia coli and formation of hybrid lipid A species. <b>2001</b> , 276, 19565-74	25
1041	A PhoP/PhoQ-induced Lipase (PagL) that catalyzes 3-O-deacylation of lipid A precursors in membranes of Salmonella typhimurium. <b>2001</b> , 276, 9083-92	158
1040	Gene expression of interleukin 18 in unstimulated peripheral blood mononuclear cells of patients with alcoholic cirrhosis. <b>2001</b> , 49, 106-11	15
1039	A monoclonal antibody with specificity for the genus Klebsiella binds to a common epitope located in the core region of Klebsiella lipopolysaccharide. <b>2001</b> , 7, 119-124	4
1038	Lipopolysaccharide of Burkholderia cepacia and its unique character to stimulate murine macrophages with relative lack of interleukin-1beta-inducing ability. <b>2001</b> , 69, 3663-9	21
1037	The essential role of lipopolysaccharide-binding protein in protection of mice against a peritoneal Salmonella infection involves the rapid induction of an inflammatory response. <b>2001</b> , 167, 1624-8	35
1036	The Sepsis Text. <b>2002</b> ,	2
1035	Porphyromonas gingivalis lipopolysaccharide signaling in gingival fibroblasts-CD14 and Toll-like receptors. <b>2002</b> , 13, 132-42	174
1034	The carboxyl-terminal domain of closely related endotoxin-binding proteins determines the target of protein-lipopolysaccharide complexes. <b>2002</b> , 277, 7970-8	64
1033	Contrasting the roles of costimulation and the natural adjuvant lipopolysaccharide during the induction of T cell immunity. <b>2002</b> , 168, 4372-81	34
1032	Divergence of bacterial lipopolysaccharide pro-apoptotic signaling downstream of IRAK-1. <b>2002</b> , 277, 8048-53	54
1031	Shiga-like toxin inhibition of FLICE-like inhibitory protein expression sensitizes endothelial cells to bacterial lipopolysaccharide-induced apoptosis. <b>2002</b> , 277, 40567-74	25
1030	An essential role for albumin in the interaction of endotoxin with lipopolysaccharide-binding protein and sCD14 and resultant cell activation. <b>2002</b> , 277, 47818-25	76
1029	Two msbB genes encoding maximal acylation of lipid A are required for invasive Shigella flexneri to mediate inflammatory rupture and destruction of the intestinal epithelium. <b>2002</b> , 168, 5240-51	117
1028	Characterization of the Campylobacter jejuni heptosyltransferase II gene, waaF, provides genetic evidence that extracellular polysaccharide is lipid A core independent. <b>2002</b> , 184, 2100-7	44

1027	Core oligosaccharides of <i>Plesiomonas shigelloides</i> O54:H2 (strain CNCTC 113/92): structural and serological analysis of the lipopolysaccharide core region, the O-antigen biological repeating unit, and the linkage between them. <b>2002</b> , 277, 11653-63	41
1026	An <i>Escherichia coli</i> mutant lacking the cold shock-induced palmitoleoyltransferase of lipid A biosynthesis: absence of unsaturated acyl chains and antibiotic hypersensitivity at 12 degrees C. <b>2002</b> , 277, 14186-93	69
1025	Expression cloning and characterization of the C28 acyltransferase of lipid A biosynthesis in <i>Rhizobium leguminosarum</i> . <b>2002</b> , 277, 28959-71	44
1024	Effects of hemoperfusion on serum cardiac troponin T concentrations using polymyxin B-immobilized fibers in septic patients undergoing hemodialysis. <b>2002</b> , 48, 41-4	13
1023	Interactions of Bacterial Lipopolysaccharide and Peptidoglycan with Mammalian CD14. <b>2002</b> , 145-186	5
1022	A novel class of endotoxin receptor agonists with simplified structure, toll-like receptor 4-dependent immunostimulatory action, and adjuvant activity. <b>2002</b> , 300, 655-61	59
1021	Glycomicrobiology. <b>2002</b> ,	4
1020	Pore formation and function of phosphoporin PhoE of <i>Escherichia coli</i> are determined by the core sugar moiety of lipopolysaccharide. <b>2002</b> , 277, 34247-53	20
1019	Inhibition of CXCR4-tropic HIV-1 infection by lipopolysaccharide: evidence of different mechanisms in macrophages and T lymphocytes. <b>2002</b> , 168, 6388-95	29
1018	Relaxed acyl chain specificity of <i>Bordetella</i> UDP-N-acetylglucosamine acyltransferases. <b>2002</b> , 277, 18281-90	30
1017	Kupffer cell-mediated cytotoxicity induced by lipopolysaccharide 0111:B4 is greater in dogs than in rats and monkeys. <b>2002</b> , 27, 1-9	21
1016	LPS-induced platelet response and rapid shock in mice: contribution of O-antigen region of LPS and involvement of the lectin pathway of the complement system. <b>2002</b> , 100, 3233-9	80
1015	Bacterial lipopolysaccharide induces mRNA expression of an IkappaB MAIL through toll-like receptor 4. <b>2002</b> , 64, 419-22	19
1014	Extracorporeal blood detoxification by sorbents in treatment of hepatic encephalopathy. <b>2002</b> , 9, 3-18	26
1013	Toll receptors: a central element in innate immune responses. <b>2002</b> , 70, 1033-41	167
1012	Factors predisposing to bacterial invasion and infection. <b>2002</b> , 183, 179-90	45
1011	Expression of functional Toll-like receptor 2 on human epidermal keratinocytes. <b>2002</b> , 30, 185-94	122
1010	Initial responses to endotoxins and Gram-negative bacteria. <b>2002</b> , 323, 59-72	264

1009	Lipopolysaccharide endotoxins. <b>2002</b> , 71, 635-700	3259
1008	Thermal injury induces expression of CD14 in human skin. <b>2002</b> , 28, 223-30	14
1007	Limitations in the use of 3-hydroxy fatty acid analysis to determine endotoxin in mammalian samples. <b>2002</b> , 50, 283-9	30
1006	Endotoxin of <i>Neisseria meningitidis</i> composed only of intact lipid A: inactivation of the meningococcal 3-deoxy-D-manno-octulosonic acid transferase. <b>2002</b> , 184, 2379-88	69
1005	Endotoxin Analogs in the Treatment of Septic Shock. <b>2002</b> , 815-826	
1004	IL-1 and TNF- $\alpha$ release in human polymorphonuclear leukocytes after exposure to calcium hydroxide treated <i>Porphyromonas endodontalis</i> lipopolysaccharide. <b>2002</b> , 27, 463	0
1003	Bacterial Cell Walls An Overview. <b>2002</b> , 33-46	
1002	High doses of glucosamine-HCl have detrimental effects on bovine articular cartilage explants cultured in vitro. <b>2002</b> , 10, 816-25	57
1001	The involvement of L-gamma-glutamyl-L-cysteinyl-glycine (glutathione/GSH) in the mechanism of redox signaling mediating MAPK(p38)-dependent regulation of pro-inflammatory cytokine production. <b>2002</b> , 63, 305-20	67
1000	Endotoxin-induced changes in food consumption in healthy volunteers are associated with TNF-alpha and IL-6 secretion. <b>2002</b> , 27, 945-56	66
999	Lipopolysaccharide administration increases acid and alkaline phosphatase reactivity in the cardiac muscle. <b>2002</b> , 58, 421-6	9
998	An improved fluorometric high-performance liquid chromatography method for sialic acid determination: an internal standard method and its application to sialic acid analysis of human apolipoprotein E. <b>2002</b> , 300, 260-6	27
997	Identification of pulmonary surfactant that bears intestinal-type and tissue-nonspecific-type alkaline phosphatase in endotoxin-induced rat bronchoalveolar fluid. <b>2002</b> , 307, 69-77	15
996	Chromatographic removal of endotoxin from protein solutions by polymer particles. <b>2002</b> , 781, 419-32	93
995	Structure and function of lipopolysaccharides. <b>2002</b> , 4, 837-51	436
994	Increased production of serum IgA-class antibody to lipid A in Kawasaki disease. <b>2002</b> , 44, 5-11	10
993	Differences in LPS-induced activation of bronchial epithelial cells (BEAS-2B) and type II-like pneumocytes (A-549). <b>2002</b> , 56, 294-302	98
992	Chemical structure and immunoreactivity of the lipopolysaccharide of the deep rough mutant I-69 Rd-/b+ of <i>Haemophilus influenzae</i> . <b>2002</b> , 269, 1237-42	7

991	Structural study on lipid A and the O-specific polysaccharide of the lipopolysaccharide from a clinical isolate of <i>Bacteroides vulgatus</i> from a patient with Crohn's disease. <b>2002</b> , 269, 3715-21	20
990	Genetic regulation of host responses to <i>Salmonella</i> infection in mice. <b>2002</b> , 3, 381-93	71
989	Novel thalidomide analogues display anti-angiogenic activity independently of immunomodulatory effects. <b>2002</b> , 87, 1166-72	251
988	Redox/ROS regulation of lipopolysaccharide-induced mitogen-activated protein kinase (MAPK) activation and MAPK-mediated TNF-alpha biosynthesis. <b>2002</b> , 135, 520-36	128
987	Alkaline phosphatases reduce toxicity of lipopolysaccharides in vivo and in vitro through dephosphorylation. <b>2002</b> , 35, 455-61	137
986	Toll-like receptor 4 mediates inflammatory signaling by bacterial lipopolysaccharide in human hepatic stellate cells. <b>2003</b> , 37, 1043-55	498
985	Cell Damage Induced by Photocatalysis of TiO <sub>2</sub> Thin Films. <b>2003</b> , 19, 8765-8768	175
984	Genetic analysis of phosphomannomutase/phosphoglucomutase from <i>Vibrio furnissii</i> and characterization of its role in virulence. <b>2003</b> , 180, 240-50	23
983	Clinical value of lipopolysaccharide-binding protein (LBP) determinations in acute pancreatitis. <b>2003</b> , 388, 181-8	10
982	Functional alteration of murine macrophages stimulated with extracellular polysaccharides from <i>Lactobacillus delbrueckii</i> ssp. <i>bulgaricus</i> OLL1073R-1. <b>2003</b> , 20, 267-273	55
981	<i>Pseudomonas fluorescens</i> lipopolysaccharide inhibits both delayed rectifier and transient A-type K <sup>+</sup> channels of cultured rat cerebellar granule neurons. <b>2003</b> , 983, 185-92	9
980	Alterations in human red blood cell membrane properties induced by the lipopolysaccharide from <i>Proteus mirabilis</i> S1959. <b>2003</b> , 146, 73-80	5
979	Evidence that the anorexia induced by lipopolysaccharide is mediated by the 5-HT <sub>2C</sub> receptor. <b>2003</b> , 74, 505-12	34
978	Induction and temporal changes of osteopontin mRNA and protein in the brain following systemic lipopolysaccharide injection. <b>2003</b> , 141, 65-73	21
977	The interaction of lipopolysaccharides with phenothiazine dyes. <b>2003</b> , 33, 311-9	74
976	Evaluation of lipopolysaccharide aggregation by light scattering spectroscopy. <b>2003</b> , 4, 96-100	112
975	The role of the methylene blue and toluidine blue monomers and dimers in the photoinactivation of bacteria. <b>2003</b> , 71, 87-98	151
974	<i>Francisella novicida</i> LPS has greater immunobiological activity in mice than <i>F. tularensis</i> LPS, and contributes to <i>F. novicida</i> murine pathogenesis. <b>2003</b> , 5, 397-403	91

973	Structure-activity relationship study of taxoids for their ability to activate murine macrophages as well as inhibit the growth of macrophage-like cells. <b>2003</b> , 11, 2867-88	17
972	Contrasting responses of human gingival and periodontal ligament fibroblasts to bacterial cell-surface components through the CD14/Toll-like receptor system. <b>2003</b> , 18, 14-23	77
971	Endotoxic activity and chemical structure of lipopolysaccharides from <i>Chlamydia trachomatis</i> serotypes E and L2 and <i>Chlamydia psittaci</i> 6BC. <b>2003</b> , 270, 440-50	78
970	Cell activation by monosaccharide lipid A analogues utilizing Toll-like receptor 4. <b>2003</b> , 110, 66-72	48
969	Induction of glomerular alkaline phosphatase after challenge with lipopolysaccharide. <b>2003</b> , 84, 135-44	36
968	Toll-like receptor-4 (TLR4) signaling augments chemokine-induced neutrophil migration by modulating cell surface expression of chemokine receptors. <b>2003</b> , 9, 315-21	206
967	Lysines 128 and 132 enable lipopolysaccharide binding to MD-2, leading to Toll-like receptor-4 aggregation and signal transduction. <b>2003</b> , 278, 48313-20	178
966	Chemical structure and immunobiological activity of lipid A from <i>Prevotella intermedia</i> ATCC 25611 lipopolysaccharide. <b>2003</b> , 543, 98-102	37
965	Lipid-protein interactions in biological membranes: a structural perspective. <b>2003</b> , 1612, 1-40	664
964	Induction of human mammary-associated serum amyloid A3 expression by prolactin or lipopolysaccharide. <b>2003</b> , 301, 1030-7	62
963	Relationship between the immune response and protection conferred by new designed inactivated vaccines against ovine enzootic abortion in a mouse model. <b>2003</b> , 21, 3126-36	24
962	Purification and binding properties of porcine plasma ficolin that binds <i>Actinobacillus pleuropneumoniae</i> . <b>2003</b> , 27, 835-44	17
961	Elevated milk soluble CD14 in bovine mammary glands challenged with <i>Escherichia coli</i> lipopolysaccharide. <b>2003</b> , 86, 2382-9	48
960	Pavlovian conditioning of endotoxin-tolerance in rats. <b>2003</b> , 17, 20-7	14
959	Augmented lipopolysaccharide-induction of the histamine-forming enzyme in streptozotocin-induced diabetic mice. <b>2003</b> , 1637, 83-90	11
958	Synthesis and biological evaluation of <i>Rhizobium</i> sin-1 lipid A derivatives. <b>2003</b> , 125, 6103-12	43
957	A mannosyl transferase required for lipopolysaccharide inner core assembly in <i>Rhizobium leguminosarum</i> . Purification, substrate specificity, and expression in <i>Salmonella</i> waaC mutants. <b>2003</b> , 278, 16356-64	14
956	Phosphorylation of the lipid A region of meningococcal lipopolysaccharide: identification of a family of transferases that add phosphoethanolamine to lipopolysaccharide. <b>2003</b> , 185, 3270-7	102

955	The obligate predatory <i>Bdellovibrio bacteriovorus</i> possesses a neutral lipid A containing alpha-D-Mannoses that replace phosphate residues: similarities and differences between the lipid As and the lipopolysaccharides of the wild type strain <i>B. bacteriovorus</i> HD100 and its host-independent derivative HI100. <b>2003</b> , 278, 27502-12	74
954	Expression cloning and biochemical characterization of a <i>Rhizobium leguminosarum</i> lipid A 1-phosphatase. <b>2003</b> , 278, 39269-79	56
953	Cross-linked hemoglobin converts endotoxically inactive pentaacyl endotoxins into a physiologically active conformation. <b>2003</b> , 278, 47660-9	20
952	Receptors, mediators, and mechanisms involved in bacterial sepsis and septic shock. <b>2003</b> , 16, 379-414	566
951	Disposition of a synthetic analogue of lipid A (E5564) in rats. <b>2003</b> , 33, 323-39	7
950	Endotoxin as a drug target. <b>2003</b> , 31, S57-64	81
949	Plasma exchange as rescue therapy in multiple organ failure including acute renal failure. <b>2003</b> , 31, 1730-6	94
948	Lower endotoxin immunity predicts increased cognitive dysfunction in elderly patients after cardiac surgery. <b>2003</b> , 34, 508-13	42
947	Mechanisms of bacterial lipopolysaccharide-induced endothelial apoptosis. <b>2003</b> , 284, L899-914	253
946	Cyclic ADP-ribose is a second messenger in the lipopolysaccharide-stimulated proliferation of human peripheral blood mononuclear cells. <b>2003</b> , 375, 395-403	51
945	Synthesis and Biological Activities of Lipid A Analogs Possessing Glycosidic Linkage at 1-Position. <b>2003</b> , 76, 485-500	14
944	Current and future management of pneumonia. <b>2003</b> , 363-402	1
943	Association study of CD14 polymorphism with myocardial infarction in a Japanese population. <b>2003</b> , 44, 613-22	31
942	Comparative evaluation of pyrogens tests in pharmaceutical products. <b>2004</b> , 35, 48-53	8
941	MsbA transporter-dependent lipid A 1-dephosphorylation on the periplasmic surface of the inner membrane: topography of <i>francisella novicida</i> LpxE expressed in <i>Escherichia coli</i> . <b>2004</b> , 279, 49470-8	96
940	Lipopolysaccharides of <i>Bacteroides fragilis</i> , <i>Chlamydia trachomatis</i> and <i>Pseudomonas aeruginosa</i> signal via toll-like receptor 2. <b>2004</b> , 53, 735-740	147
939	LPS binding protein does not participate in the pharmacokinetics of E5564. <b>2004</b> , 10, 185-194	5
938	N-linked glycosylation is required for c1 inhibitor-mediated protection from endotoxin shock in mice. <b>2004</b> , 72, 1946-55	36

937	Induction of lipoprotein lipase gene expression in <i>Chlamydia pneumoniae</i> -infected macrophages is dependent on Ca <sup>2+</sup> signaling events. <b>2004</b> , 385, 67-74	9
936	The search for molecular determinants of LPS inhibition by proteins and peptides. <b>2004</b> , 4, 1185-201	32
935	Regulation of endotoxin-induced proinflammatory activation in human coronary artery cells: expression of functional membrane-bound CD14 by human coronary artery smooth muscle cells. <b>2004</b> , 173, 1336-43	71
934	<i>Neisseria meningitidis</i> lipooligosaccharide structure-dependent activation of the macrophage CD14/Toll-like receptor 4 pathway. <b>2004</b> , 72, 371-80	136
933	Structure and biological activity of the short-chain lipopolysaccharide from <i>Bartonella henselae</i> ATCC 49882T. <b>2004</b> , 279, 21046-54	68
932	Laboratory markers of severe acute pancreatitis. <b>2004</b> , 22, 247-57	51
931	LPS binding protein does not participate in the pharmacokinetics of E5564. <b>2004</b> , 10, 185-94	4
930	Detailed structure of lipid A isolated from lipopolysaccharide from the marine proteobacterium <i>Marinomonas vaga</i> ATCC 27119. <b>2004</b> , 271, 2895-904	27
929	Microbial etiology of periodontitis. <b>2004</b> , 36, 14-26	158
928	Neuropeptide Y stabilizes body temperature and prevents hypotension in endotoxaemic rats. <b>2004</b> , 561, 245-52	32
927	Comprehending the role of LPS in Gram-negative bacterial vaginosis: ogling into the causes of unfulfilled child-wish. <b>2004</b> , 270, 133-46	43
926	Commensal bacteria (normal microflora), mucosal immunity and chronic inflammatory and autoimmune diseases. <b>2004</b> , 93, 97-108	512
925	Ambroxol reduces LPS toxicity mediated by induction of alkaline phosphatases in rat lung. <b>2004</b> , 37, 688-93	6
924	Determination of the rat tissue partitioning of endotoxin in vitro for physiologically-based pharmacokinetic (PBPK) modeling. <b>2004</b> , 24, 177-81	5
923	Interactions between lipopolysaccharide and the intestinal epithelium. <b>2004</b> , 224, 1446-52	21
922	Early-phase alcoholic liver disease: an update on animal models, pathology, and pathogenesis. <b>2004</b> , 23, 217-31	69
921	Role of Cell Surface Lipopolysaccharides in <i>Escherichia coli</i> K12 adhesion and transport. <b>2004</b> , 20, 7736-46	268
920	Potential role of endotoxin as a proinflammatory mediator of atherosclerosis. <b>2004</b> , 24, 2227-36	215

919	Soluble CD14 as a predictor of subsequent development of recurrent wheezing in hospitalized young children with respiratory syncytial virus-induced bronchiolitis. <b>2004</b> , 92, 545-8	7
918	Advances in sepsis therapy. <b>2004</b> , 64, 837-59	35
917	Structure of supported bilayers composed of lipopolysaccharides and bacterial phospholipids: raft formation and implications for bacterial resistance. <b>2004</b> , 86, 3759-71	39
916	Novel modification of lipid A of <i>Francisella tularensis</i> . <b>2004</b> , 72, 5340-8	120
915	Lysophospholipid acyltransferases in monocyte inflammatory responses and sepsis. <b>2004</b> , 209, 31-8	9
914	Characterization of an interaction between fetal hemoglobin and lipid A of LPS resulting in augmented induction of cytokine production in vivo and in vitro. <b>2004</b> , 4, 1859-72	12
913	Inner field compensation as a tool for the characterization of asymmetric membranes and Peptide-membrane interactions. <b>2004</b> , 86, 913-22	19
912	Protection against an <i>Escherichia coli</i> -induced sepsis by alkaline phosphatase in mice. <b>2004</b> , 22, 174-9	50
911	Structural characterization of complex bacterial glycolipids by Fourier transform mass spectrometry. <b>2005</b> , 11, 535-46	46
910	Lysine-spermine conjugates: hydrophobic polyamine amides as potent lipopolysaccharide sequestrants. <b>2005</b> , 13, 2523-36	35
909	Functionalized dendrimers as endotoxin sponges. <b>2005</b> , 15, 1295-8	25
908	The mechanism of lipopolysaccharide infiltration through HUVEC membrane surface in direct endotoxin injury. <b>2005</b> , 44, 211-22	2
907	Generation of inflammatory stimuli: how bacteria set up inflammatory responses in the gingiva. <b>2005</b> , 32 Suppl 6, 57-71	191
906	Mechanisms of innate immune responses mediated by Toll-like receptors. <b>2005</b> , 5, 167-183	5
905	Mitogenicity of a spread film of monophosphoryl lipid A. <b>2005</b> , 79, 161-7	2
904	Lipopolysaccharide recognition protein, MD-2, facilitates cellular uptake of <i>E. coli</i> -derived plasmid DNA in synovium. <b>2005</b> , 7, 956-64	4
903	Effect of environmental factors on the composition of lipopolysaccharides released from the <i>Rhodobacter capsulatus</i> cell wall. <b>2005</b> , 32, 133-137	4
902	Anti-endotoxin antibodies. <b>2005</b> , 42, 27-38	1



901	Salmonella lipopolysaccharide (LPS) mediated neurodegeneration in hippocampal slice cultures. <b>2005</b> , 8, 207-20	14
900	Effect of lipopolysaccharides having different structures on the cardiovascular system of Wistar rats. <b>2005</b> , 402, 189-91	1
899	The Structure of Uncommon Lipid A from the Marine Bacterium <i>Marinomonas communis</i> ATCC 27118T. <b>2005</b> , 31, 362-371	2
898	N-linked glycosylation at Asn3 and the positively charged residues within the amino-terminal domain of the c1 inhibitor are required for interaction of the C1 Inhibitor with <i>Salmonella enterica</i> serovar typhimurium lipopolysaccharide and lipid A. <b>2005</b> , 73, 4478-87	22
897	Microbial and immunological responses relative to high-altitude exposure in mountaineers. <b>2005</b> , 37, 1313-8	52
896	Chemokines: Central Mediators of the Innate Response to Sepsis. <b>2005</b> , 1, 237-260	3
895	Pulmonary hypertensive responses of broilers to bacterial lipopolysaccharide (LPS): evaluation of LPS source and dose, and impact of pre-existing pulmonary hypertension and cellulose micro-particle selection. <b>2005</b> , 84, 432-41	20
894	Epitope of the vaccine-type <i>Bordetella pertussis</i> strain 186 lipooligosaccharide and antiendotoxin activity of antibodies directed against the terminal pentasaccharide-tetanus toxoid conjugate. <b>2005</b> , 73, 7381-9	21
893	Structural origin of endotoxin neutralization and antimicrobial activity of a lactoferrin-based peptide. <b>2005</b> , 280, 16955-61	66
892	Influence of CD14 on ligand interactions between lipopolysaccharide and its receptor complex. <b>2005</b> , 175, 3940-5	158
891	A formyltransferase required for polymyxin resistance in <i>Escherichia coli</i> and the modification of lipid A with 4-Amino-4-deoxy-L-arabinose. Identification and function of UDP-4-deoxy-4-formamido-L-arabinose. <b>2005</b> , 280, 14154-67	128
890	The systemic response to lung infection. <b>2005</b> , 26, 1-9	23
889	Probing the properties of lipopolysaccharide monolayers and their interaction with the antimicrobial peptide polymyxin B by atomic force microscopy. <b>2005</b> , 21, 6970-8	32
888	Discovery of novel and potent small-molecule inhibitors of NO and cytokine production as antisepsis agents: synthesis and biological activity of alkyl 6-(N-substituted sulfamoyl)cyclohex-1-ene-1-carboxylate. <b>2005</b> , 48, 7457-67	82
887	San-Huang-Xie-Xin-Tang reduces lipopolysaccharides-induced hypotension and inflammatory mediators. <b>2005</b> , 96, 99-106	38
886	San-Huang-Xie-Xin-Tang attenuates inflammatory responses in lipopolysaccharide-exposed rat lungs. <b>2005</b> , 101, 68-74	49
885	Divalent cations affect chain mobility and aggregate structure of lipopolysaccharide from <i>Salmonella minnesota</i> reflected in a decrease of its biological activity. <b>2005</b> , 1715, 122-31	71
884	Elevation of galectin-9 as an inflammatory response in the periodontal ligament cells exposed to <i>Porphyromonas gingivalis</i> lipopolysaccharide in vitro and in vivo. <b>2005</b> , 37, 397-408	40

883	Involvement of CD14 in the inhibitory effects of dimethyl-alpha-cyclodextrin on lipopolysaccharide signaling in macrophages. <b>2005</b> , 579, 1707-14	22
882	The effect of lipopolysaccharide on cholecystokinin in murine plasma and tissue. <b>2005</b> , 26, 447-55	13
881	Acute and chronic administration of immunomodulators induces anorexia in Zucker rats. <b>2005</b> , 84, 165-73	29
880	Differential expression and secretion of bovine serum amyloid A3 (SAA3) by mammary epithelial cells stimulated with prolactin or lipopolysaccharide. <b>2005</b> , 107, 255-64	45
879	Lipopolysaccharide sequestrants: structural correlates of activity and toxicity in novel acylhomospermines. <b>2005</b> , 48, 2589-99	57
878	Invited review: Diversity of endotoxin and its impact on pathogenesis. <b>2006</b> , 12, 205-223	23
877	Platelet Toll-like receptor expression modulates lipopolysaccharide-induced thrombocytopenia and tumor necrosis factor-alpha production in vivo. <b>2006</b> , 107, 637-41	374
876	Pro-atherogenic properties of lipopolysaccharide from the periodontal pathogen <i>Actinobacillus actinomycetemcomitans</i> . <b>2006</b> , 12, 57-64	26
875	Lipid-specific membrane activity of human beta-defensin-3. <b>2006</b> , 45, 5663-70	35
874	Complete lipopolysaccharide of <i>Plesiomonas shigelloides</i> O74:H5 (strain CNCTC 144/92). 2. Lipid A, its structural variability, the linkage to the core oligosaccharide, and the biological activity of the lipopolysaccharide. <b>2006</b> , 45, 10434-47	20
873	Structure-activity relationships in lipopolysaccharide neutralizers: design, synthesis, and biological evaluation of a 540-membered amphipathic bisamide library. <b>2006</b> , 8, 32-43	26
872	Structure of the <i>Escherichia coli</i> heptosyltransferase WaaC: binary complexes with ADP and ADP-2-deoxy-2-fluoro heptose. <b>2006</b> , 363, 383-94	74
871	Determination of endotoxin by the measurement of the acetylated methyl glycoside derivative of Kdo with gas-liquid chromatography-mass spectrometry. <b>2006</b> , 64, 171-84	16
870	Effects of bacterial lipopolysaccharide on peripheral leukocytes in the American alligator ( <i>Alligator mississippiensis</i> ). <b>2006</b> , 111, 315-20	15
869	Induction of endotoxin tolerance inhibits alloimmune responses. <b>2006</b> , 16, 158-65	5
868	Influence of commercial sanitizers on lipopolysaccharide production by <i>Salmonella Enteritidis</i> ATCC 13076. <b>2006</b> , 69, 2889-95	3
867	Stable isotope metabolic labeling of <i>Neisseria meningitidis</i> lipooligosaccharide. <b>2006</b> , 12, 93-8	7
866	Lipopolysaccharide-induced proliferation and adhesion of U937 cells to endothelial cells involves barium chloride sensitive hyperpolarization. <b>2006</b> , 12, 224-230	2

865	MyD88-dependent signaling affects the development of meningococcal sepsis by nonlipooligosaccharide ligands. <b>2006</b> , 74, 3538-46	15
864	Endotoxin evaluation of eleven lipopolysaccharides by whole blood assay does not always correlate with Limulus amoebocyte lysate assay. <b>2006</b> , 12, 171-180	27
863	Calcium adsorption and displacement: characterization of lipid monolayers and their interaction with membrane-active peptides/proteins. <b>2006</b> , 7, 15	17
862	Expression of a Porphyromonas gingivalis lipid A palmitoyltransferase in Escherichia coli yields a chimeric lipid A with altered ability to stimulate interleukin-8 secretion. <b>2006</b> , 8, 120-9	24
861	Immunobiological activities of a new nontoxic lipopolysaccharide from Acidiphilium GS18h/ATCC55963, a soil isolate from an Indian copper mine. <b>2006</b> , 48, 107-15	4
860	Structure and heterogeneity of the O-antigen chain of Salmonella Agona lipopolysaccharide. <b>2006</b> , 48, 223-36	8
859	Experimental immunomodulation, sleep, and sleepiness in humans. <b>2000</b> , 917, 488-99	41
858	Synthesis of lipid A monosaccharide analogues containing acidic amino acid: exploring the structural basis for the endotoxic and antagonistic activities. <b>2006</b> , 14, 6759-77	20
857	Molecular modeling analysis of the interaction of novel bis-cationic ligands with the lipid A moiety of lipopolysaccharide. <b>2006</b> , 16, 714-7	11
856	Novel endotoxin-sequestering compounds with terephthalaldehyde-bis-guanyldiazide scaffolds. <b>2006</b> , 16, 1305-8	25
855	Biologically active lipid A antagonist embedded in a multilayered polyelectrolyte architecture. <b>2006</b> , 27, 1771-7	23
854	Aggregation behavior and size of lipopolysaccharide from Escherichia coli O55:B5. <b>2006</b> , 53, 9-14	45
853	Synthesis and biological evaluation of novel lipid A antagonists. <b>2006</b> , 14, 190-9	23
852	What can calorimetry tell us about changes of three-dimensional aggregate structures of phospholipids and glycolipids?. <b>2006</b> , 445, 133-143	18
851	Invited review: Mechanisms of endotoxin neutralization by synthetic cationic compounds. <b>2006</b> , 12, 261-277	4
850	Anti-endotoxin antibodies. <b>2006</b> , 163-174	
849	Lipopolysaccharides of Pectobacterium atrosepticum and Pseudomonas corrugata induce different defence response patterns in tobacco, tomato, and potato. <b>2006</b> , 8, 636-45	27
848	Disruption of lipid rafts impairs the production of nitric oxide in lipopolysaccharide-stimulated murine RAW264.7 macrophages. <b>2006</b> , 32, 847-856	2

847	Structural correlation between lipophilicity and lipopolysaccharide-sequestering activity in spermine-sulfonamide analogs. <b>2006</b> , 16, 6209-12	10
846	Penta-acylated lipopolisaccharide binds to murine MD-2 but does not induce the oligomerization of TLR4 required for signal transduction. <b>2006</b> , 244, 57-64	10
845	Cordycepin inhibits lipopolysaccharide-induced inflammation by the suppression of NF-kappaB through Akt and p38 inhibition in RAW 264.7 macrophage cells. <b>2006</b> , 545, 192-9	227
844	Plasma D-lactate as a potential early marker for colon ischaemia after open aortic reconstruction. <b>2006</b> , 31, 470-4	55
843	Endotoxin and mammalian host responses during experimental disease. <b>2006</b> , 135, 157-75	50
842	The influence of intramammary lipopolysaccharide infusion on serum Ca, P, vitamin D, cytokines and cortisol concentrations in lactating sows. <b>2006</b> , 53, 113-8	12
841	The 2-aminogluconate isomer of rhizobium sin-1 lipid A can antagonize TNF-alpha production induced by enteric LPS. <b>2006</b> , 7, 140-8	10
840	Endotoxin, TLR4 signaling and vascular inflammation: potential therapeutic targets in cardiovascular disease. <b>2006</b> , 12, 4229-45	98
839	Endotoxin evaluation of eleven lipopolysaccharides by whole blood assay does not always correlate with Limulus amebocyte lysate assay. <b>2006</b> , 12, 171-80	48
838	Inflammatory response of tracheobronchial epithelial cells to endotoxin. <b>2006</b> , 290, L86-96	21
837	Lipopolysaccharide-induced proliferation and adhesion of U937 cells to endothelial cells involves barium chloride sensitive hyperpolarization. <b>2006</b> , 12, 224-30	2
836	Mechanisms of endotoxin neutralization by synthetic cationic compounds. <b>2006</b> , 12, 261-77	41
835	Diversity of endotoxin and its impact on pathogenesis. <b>2006</b> , 12, 205-23	235
834	On the role and fate of LPS-dephosphorylating activity in the rat liver. <b>2006</b> , 290, G377-85	55
833	Pro-atherogenic properties of lipopolysaccharide from the periodontal pathogen Actinobacillus actinomycetemcomitans. <b>2006</b> , 12, 57-64	28
832	Transfer of antigen-pulsed dendritic cells induces specific T-Cell proliferation and a therapeutic effect against long-term Helicobacter pylori infection in mice. <b>2006</b> , 74, 984-93	18
831	Lipooligosaccharide structure contributes to multiple steps in the virulence of Neisseria meningitidis. <b>2006</b> , 74, 1360-7	52
830	Francisella tularensis LPS induces the production of cytokines in human monocytes and signals via Toll-like receptor 4 with much lower potency than E. coli LPS. <b>2006</b> , 18, 785-95	57

829	Expression cloning and periplasmic orientation of the Francisella novicida lipid A 4-phosphatase LpxF. <b>2006</b> , 281, 9321-30		79
828	Kdo2-Lipid A of Escherichia coli, a defined endotoxin that activates macrophages via TLR-4. <b>2006</b> , 47, 1097-111		173
827	An outer membrane enzyme encoded by Salmonella typhimurium lpxR that removes the 3-N-acetyloxyacyl moiety of lipid A. <b>2006</b> , 281, 21974-21987		76
826	Structural correlates of antibacterial and membrane-permeabilizing activities in acylpolyamines. <b>2006</b> , 50, 852-61		46
825	Structural basis for the acyl chain selectivity and mechanism of UDP-N-acetylglucosamine acyltransferase. <b>2007</b> , 104, 13543-50		56
824	Identification of LpxL, a late acyltransferase of Francisella tularensis. <b>2007</b> , 75, 5518-31		18
823	Soluble CD14 discriminates slight structural differences between lipid as that lead to distinct host cell activation. <b>2007</b> , 179, 7674-83		28
822	Bound to shock: protection from lethal endotoxemic shock by a novel, nontoxic, alkylpolyamine lipopolysaccharide sequestrant. <b>2007</b> , 51, 2811-9		21
821	Effects of intravenous infusion of lipopolysaccharide on plasma micromineral, magnesium, and cytokine concentrations and serum cortisol concentrations in lactating goats. <b>2007</b> , 68, 529-34		3
820	Acinetobacter baumannii lipopolysaccharides are potent stimulators of human monocyte activation via Toll-like receptor 4 signalling. <b>2007</b> , 56, 165-171		74
819	Escape from immune surveillance by Capnocytophaga canimorsus. <b>2007</b> , 195, 375-86		52
818	Human MD-2 discrimination of meningococcal lipid A structures and activation of TLR4. <b>2007</b> , 17, 847-56		27
817	Characterization of two novel LPS-binding sites in leukocyte integrin betaA domain. <i>FASEB Journal</i> , <b>2007</b> , 21, 3231-9	0.9	34
816	Attenuated virulence of a Francisella mutant lacking the lipid A 4-phosphatase. <b>2007</b> , 104, 4136-41		102
815	Biochemical characterization of MsbA from Pseudomonas aeruginosa. <b>2007</b> , 282, 26939-26947		17
814	Differential effects of Francisella tularensis lipopolysaccharide on B lymphocytes. <b>2007</b> , 82, 813-20		12
813	Response of alveolar type II epithelial cells to mechanical stretch and lipopolysaccharide. <b>2007</b> , 74, 579-85		25
812	An unambiguous assignment and structural analysis using solution NMR experiments of O-antigen from Escherichia coli ATCC23505 (Serotype O9). <b>2007</b> , 55, 992-5		9

811	The molecular adsorption-type endotoxin detection system using immobilized $\epsilon$ -polylysine. <b>2007</b> ,	
810	Biophysical analysis of the interaction of granulysin-derived peptides with enterobacterial endotoxins. <b>2007</b> , 1768, 2421-31	25
809	Bacterial lipopolysaccharides induce genes involved in the innate immune response in embryos of the zebrafish ( <i>Danio rerio</i> ). <b>2007</b> , 23, 901-5	73
808	High-resolution solution structure of a designed peptide bound to lipopolysaccharide: transferred nuclear Overhauser effects, micelle selectivity, and anti-endotoxic activity. <b>2007</b> , 46, 5864-74	42
807	Lipopolysaccharide in bacterial chronic infection: insights from <i>Helicobacter pylori</i> lipopolysaccharide and lipid A. <b>2007</b> , 297, 307-19	42
806	Neutralizing and cross-reactive antibodies against enterobacterial lipopolysaccharide. <b>2007</b> , 297, 321-40	38
805	Immobilization of $\epsilon$ -polylysine onto the probe surface for molecular adsorption type endotoxin detection system. <b>2007</b> ,	4
804	Lipid A modification systems in gram-negative bacteria. <b>2007</b> , 76, 295-329	904
803	Review: variability of host-pathogen interaction. <b>2007</b> , 13, 199-218	10
802	3-hydroxy fatty acids found in capsules of <i>Cryptococcus neoformans</i> . <b>2007</b> , 53, 809-12	19
801	E6020: a synthetic Toll-like receptor 4 agonist as a vaccine adjuvant. <b>2007</b> , 6, 773-84	71
800	Polycationic sulfonamides for the sequestration of endotoxin. <b>2007</b> , 50, 877-88	17
799	Examination of bacterial toxin measurement using Quartz crystal microbalance method. <b>2007</b> ,	
798	Effect of deletion of the <i>lpxM</i> gene on virulence and vaccine potential of <i>Yersinia pestis</i> in mice. <b>2007</b> , 56, 443-453	31
797	Endotoxins. <b>2007</b> ,	39
796	Microbial Polysaccharide Structures. <b>2007</b> , 123-179	16
795	Effects of theophylline on chronic inflammatory lung injury induced by LPS exposure in guinea pigs. <b>2007</b> , 56, 445-56	17
794	Inhibition of lipid a stimulated activation of human dendritic cells and macrophages by amino and hydroxylamino monosaccharides. <b>2007</b> , 46, 3308-12	25

793	Inhibition of Lipid A Stimulated Activation of Human Dendritic Cells and Macrophages by Amino and Hydroxylamino Monosaccharides. <b>2007</b> , 119, 3372-3376	3
792	Infrared spectroscopy studies of cation effects on lipopolysaccharides in aqueous solution. <b>2007</b> , 55, 241-50	30
791	The influence of the long chain fatty acid on the antagonistic activities of Rhizobium sin-1 lipid A. <b>2007</b> , 15, 4800-12	11
790	Protection from endotoxic shock by EVK-203, a novel alkylpolyamine sequestrant of lipopolysaccharide. <b>2007</b> , 15, 5694-709	17
789	Differential interactions of plasmid DNA, RNA and endotoxin with immobilised and free metal ions. <b>2007</b> , 1141, 226-34	34
788	Oxylipin studies expose aspirin as antifungal. <b>2007</b> , 7, 1207-17	18
787	Tolerance of mice to lipopolysaccharide is correlated with inhibition of caspase-3-mediated apoptosis in mouse liver cells. <b>2007</b> , 39, 96-100	3
786	Neuronal NF-kappaB influences thermoregulation and survival in a sepsis model. <b>2007</b> , 189, 41-9	13
785	Immune-endocrine host response to endotoxin in major depression. <b>2007</b> , 41, 280-9	24
784	Some peculiarities of the outer membrane composition of marine Gram-negative bacterium <i>Chryseobacterium indoltheticum</i> CIP 103168T. <b>2007</b> , 1, 114-122	1
783	Effects of Coenzyme Q10 on TNF-alpha secretion in human and murine monocytic cell lines. <b>2007</b> , 31, 35-41	43
782	Permeability issues in whole-cell bioprocesses and cellular membrane engineering. <b>2007</b> , 74, 730-8	157
781	Association of polymorphism of TLR4 and CD14 genes with gastroduodenal diseases in Japan. <b>2007</b> , 15, 124-8	13
780	ATR-FTIR study of lipopolysaccharides at mineral surfaces. <b>2008</b> , 62, 188-98	36
779	Anti-inflammatory effects of ethanol extract from <i>Kummerowia striata</i> (Thunb.) Schindl on lps-stimulated RAW 264.7 cell. <b>2008</b> , 31, 154-66	18
778	Experimental Study of the Influence of Ar/H2 Microwave Discharges on Lipid A. <b>2008</b> , 5, 26-32	18
777	Pharmacokinetics of DS-96, an alkylpolyamine lipopolysaccharide sequestrant, in rodents. <b>2008</b> , 97, 5376-85	4
776	Stereoselective glycal fluorophosphorylation: synthesis of ADP-2-fluoroheptose, an inhibitor of the LPS biosynthesis. <b>2008</b> , 14, 9530-9	38

775	Novel quantitative electrophoretic analysis of endotoxins on microchips. <b>2008</b> , 29, 1713-22	10
774	Characterization of intact lipopolysaccharides from the Haemophilus influenzae strain RM 118 using electrophoresis-assisted open-tubular liquid chromatography-mass spectrometry. <b>2008</b> , 29, 2171-81	9
773	Discovery of new Gram-negative antivirulence drugs: structure and properties of novel E. coli WaaC inhibitors. <b>2008</b> , 18, 4022-6	84
772	Relevance of fucosylation and Lewis antigen expression in the bacterial gastroduodenal pathogen Helicobacter pylori. <b>2008</b> , 343, 1952-65	95
771	Comparison of the immunostimulatory and proinflammatory activities of candidate Gram-positive endotoxins, lipoteichoic acid, peptidoglycan, and lipopeptides, in murine and human cells. <b>2008</b> , 118, 132-41	70
770	Thermodynamic Analysis of the Interaction of Lipopolysaccharides with Cationic Compounds. <b>2008</b> , 8, 523-529	11
769	Functions of coenzyme Q10 in inflammation and gene expression. <b>2008</b> , 32, 179-83	165
768	The effect of composition of the core region of Escherichia coli K-12 lipopolysaccharides on the surface properties of cells. <b>2008</b> , 77, 293-297	7
767	In vitro assessment of dialysis membrane as an endotoxin transfer barrier: geometry, morphology, and permeability. <b>2008</b> , 32, 701-10	24
766	Porcine plasma ficolin binds and reduces infectivity of porcine reproductive and respiratory syndrome virus (PRRSV) in vitro. <b>2008</b> , 77, 28-38	18
765	Tumor necrosis factor-alpha and endothelial cells modulate Notch signaling in the bone marrow microenvironment during inflammation. <b>2008</b> , 36, 545-558	53
764	Human ApoA-I overexpression diminishes LPS-induced systemic inflammation and multiple organ damage in mice. <b>2008</b> , 590, 417-22	61
763	Lysophospholipid acyltransferases: novel potential regulators of the inflammatory response and target for new drug discovery. <b>2008</b> , 119, 104-14	34
762	p38 kinase/cytosolic phospholipase A2/cyclooxygenase-2 pathway: a new signaling cascade for lipopolysaccharide-induced interleukin-1beta and interleukin-6 release in differentiated U937 cells. <b>2008</b> , 86, 61-7	14
761	Innate microbial sensors and their relevance to allergy. <b>2008</b> , 122, 846-58; quiz 858-60	13
760	Plasmid DNA binds to the core oligosaccharide domain of LPS molecules of E. coli cell surface in the CaCl2-mediated transformation process. <b>2008</b> , 9, 2501-9	10
759	Bacterial Cell Wall Components. <b>2008</b> , 1535-1600	6
758	Changes in HLA-DR expression, cytokine production and coagulation following endotoxin infusion in healthy human volunteers. <b>2008</b> , 8, 701-7	4



757	Movement-evoked hyperalgesia induced by lipopolysaccharides is not suppressed by glucocorticoids. <b>2008</b> , 136, 75-84	7
756	Lipid A and liposomes containing lipid A as antigens and adjuvants. <b>2008</b> , 26, 3036-45	39
755	Interactions of a designed peptide with lipopolysaccharide: Bound conformation and anti-endotoxic activity. <b>2008</b> , 369, 853-7	21
754	Distribution of 3-hydroxy oxylipins and acetylsalicylic acid sensitivity in <i>Cryptococcus</i> species. <b>2008</b> , 54, 111-8	8
753	Controlling plasma protein binding: structural correlates of interactions of hydrophobic polyamine endotoxin sequestrants with human serum albumin. <b>2008</b> , 5, 1131-7	14
752	Eosinophil cationic protein high-affinity binding to bacteria-wall lipopolysaccharides and peptidoglycans. <b>2008</b> , 47, 3544-55	98
751	Lipopolysaccharide, a key molecule involved in the synergism between temporins in inhibiting bacterial growth and in endotoxin neutralization. <b>2008</b> , 283, 22907-17	80
750	Complicated catheter-associated urinary tract infections due to <i>Escherichia coli</i> and <i>Proteus mirabilis</i> . <b>2008</b> , 21, 26-59	514
749	Glucosamine found as a substituent of both phosphate groups in <i>Bordetella</i> lipid A backbones: role of a BvgAS-activated ArnT ortholog. <b>2008</b> , 190, 4281-90	54
748	Chlamydial LPS and high-sensitivity CRP levels in serum are associated with an elevated body mass index in patients with cardiovascular disease. <b>2008</b> , 14, 375-82	22
747	Structural investigations into the interaction of hemoglobin and part structures with bacterial endotoxins. <b>2008</b> , 14, 39-49	14
746	Preventative and Therapeutic Potential of Lipopolysaccharide Derived from Edible Gram-Negative Bacteria to Various Diseases. <b>2008</b> , 3, 26-32	6
745	Inhibition of LPS-induced cyclooxygenase 2 and nitric oxide production by transduced PEP-1-PTEN fusion protein in Raw 264.7 macrophage cells. <b>2008</b> , 40, 629-38	6
744	Assessment of the convergence of molecular dynamics simulations of lipopolysaccharide membranes. <b>2008</b> , 34, 295-307	30
743	Acyl chain specificity of the acyltransferases LpxA and LpxD and substrate availability contribute to lipid A fatty acid heterogeneity in <i>Porphyromonas gingivalis</i> . <b>2008</b> , 190, 4549-58	28
742	Variability in endotoxin exposure levels and consequences for exposure assessment. <b>2008</b> , 52, 303-16	34
741	Determination of pyrophosphorylated forms of lipid A in Gram-negative bacteria using a multivariate mass spectrometric approach. <b>2008</b> , 105, 12742-7	49
740	Effect of spaceflight on ability of monocytes to respond to endotoxins of gram-negative bacteria. <b>2008</b> , 15, 1523-8	52

- 739 Modification of lipooligosaccharide with phosphoethanolamine by LptA in *Neisseria meningitidis* enhances meningococcal adhesion to human endothelial and epithelial cells. **2008**, 76, 5777-89 27
- 738 Comments on "Diversity in Cell Properties and Transport Behavior among 12 Different Environmental *Escherichia coli* Isolates," by C.H. Bolster, B.Z. Hazendaroglu, and S.L. Walker in the *Journal of Environmental Quality* 2009 38:465-472. **2009**, 38, 1775-6; author reply 1776
- 737 Endotoxin and biogenic amine levels in Atlantic mackerel (*Scomber scombrus*), sardine (*Sardina pilchardus*) and Mediterranean hake (*Merluccius merluccius*) stored at 22 degrees C. **2009**, 26, 355-62 27
- 736 Purification and characterization of the lipid A 1-phosphatase LpxE of *Rhizobium leguminosarum*. **2009**, 284, 414-425 22
- 735 CD14-Mac-1 interactions in *Bacillus anthracis* spore internalization by macrophages. **2009**, 106, 13957-62 71
- 734 Designed beta-boomerang antiendotoxic and antimicrobial peptides: structures and activities in lipopolysaccharide. **2009**, 284, 21991-22004 82
- 733 The gut microbiota in inflammatory bowel disease. **2009**, 15, 1528-36 78
- 732 Real-time visualization of human prolactin alternate promoter usage in vivo using a double-transgenic rat model. **2009**, 23, 529-38 28
- 731 Structural and biological diversity of lipopolysaccharides from *Burkholderia pseudomallei* and *Burkholderia thailandensis*. **2009**, 16, 1420-8 54
- 730 Biological and physical characterization of the X4 HIV-1 suppressive factor secreted by LPS-stimulated human macrophages. **2009**, 390, 37-44 9
- 729 Atomic force microscopy study of the role of LPS O-antigen on adhesion of *E. coli*. **2009**, 22, 347-55 62
- 728 Lipopolysaccharide bound structures of the active fragments of fowlicidin-1, a cathelicidin family of antimicrobial and antiendotoxic peptide from chicken, determined by transferred nuclear Overhauser effect spectroscopy. **2009**, 92, 9-22 49
- 727 CD14 promoter-159 polymorphism is associated with reduced risk of intestinal-type gastric cancer in a Japanese population. **2009**, 54, 1508-12 10
- 726 Transepithelial activation of human leukocytes by probiotics and commensal bacteria: role of Enterobacteriaceae-type endotoxin. **2009**, 53, 241-50 5
- 725 The structural basis of lipopolysaccharide recognition by the TLR4-MD-2 complex. **2009**, 458, 1191-5 1488
- 724 Electrostatic binding of substituted metal phthalocyanines to enterobacterial cells: its role in photodynamic inactivation. **2009**, 74, 1305-14 26
- 723 Exogenous heat shock proteins (HSP70) significantly inhibit endotoxin-induced activation of human neutrophils. **2009**, 426, 298-301 6
- 722 Therapeutic approach to regulate innate immune response by Toll-like receptor 4 antagonist E5564 in rats with D-galactosamine-induced acute severe liver injury. **2009**, 24, 1089-94 25

721	Detecting and differentiating microbes by dendritic cells for the development of cell-based biosensors. <b>2009</b> , 24, 2598-603	3
720	Structure-activity relationships of lipopolysaccharide sequestration in guanyldihydrazone-bearing lipopolyamines. <b>2009</b> , 17, 709-15	12
719	Structure-activity relationships of lipopolysaccharide sequestration in N-alkylpolyamines. <b>2009</b> , 19, 2478-81	5
718	Identification of undecaprenyl phosphate-beta-D-galactosamine in <i>Francisella novicida</i> and its function in lipid A modification. <b>2009</b> , 48, 1162-72	45
717	Purification and characterization of the lipid A disaccharide synthase (LpxB) from <i>Escherichia coli</i> , a peripheral membrane protein. <b>2009</b> , 48, 11559-71	27
716	Temporins and their synergism against Gram-negative bacteria and in lipopolysaccharide detoxification. <b>2009</b> , 1788, 1610-9	87
715	Innate immune sensing and activation of cell surface Toll-like receptors. <b>2009</b> , 21, 175-84	43
714	Factors affecting endotoxin removal from recombinant therapeutic proteins by anion exchange chromatography. <b>2009</b> , 64, 76-81	44
713	Anti-inflammatory effects of ethyl acetate fraction from <i>Melilotus suaveolens</i> Ledeb on LPS-stimulated RAW 264.7 cells. <b>2009</b> , 123, 97-105	46
712	Fold-unfold transitions in the selectivity and mechanism of action of the N-terminal fragment of the bactericidal/permeability-increasing protein (rBPI(21)). <b>2009</b> , 96, 987-96	17
711	Promotion of angiogenesis by an artificial extracellular matrix protein containing the laminin-1-derived IKVAV sequence. <b>2009</b> , 20, 1759-64	13
710	Synthesis of a monophosphoryl lipid A derivative and its conjugation to a modified form of a tumor-associated carbohydrate antigen GM3. <b>2009</b> , 5536-7	26
709	Evidence of a specific interaction between new synthetic antiseptics agents and CD14. <b>2009</b> , 48, 12337-44	47
708	Intestinal bacteria and inflammatory bowel disease. <b>2009</b> , 46, 25-54	67
707	Assessment of endotoxin activity in wastewater treatment plants. <b>2009</b> , 11, 1421-7	14
706	Different bacteria species lipopolysaccharide co-exposure with <i>Pseudomonas</i> exotoxin A on multiple organ injury induction. <b>2009</b> , 31, 616-24	2
705	Discovery of new biosynthetic pathways: the lipid A story. <b>2009</b> , 50 Suppl, S103-8	143
704	<i>Porphyromonas gingivalis</i> resistance to polymyxin B is determined by the lipid A 4Nphosphatase, PGN_0524. <b>2009</b> , 1, 126-35	24

703	Chemical structure and biological significance of lipopolysaccharide from Legionella. <b>2009</b> , 4, 96-107	7
702	6 Bakterielle Erkennungsstrukturen und intestinale Barriere. <b>2009</b> ,	
701	Endotoxins: lipopolysaccharides of gram-negative bacteria. <b>2010</b> , 53, 3-25	90
700	The role of endotoxin in infection: Helicobacter pylori and Campylobacter jejuni. <b>2010</b> , 53, 209-40	11
699	Development of small-molecule endotoxin sequestering agents. <b>2010</b> , 53, 255-83	3
698	Synthetic and natural TLR4 agonists as safe and effective vaccine adjuvants. <b>2010</b> , 53, 303-21	52
697	Chemical structure of Bacteriovorax stolpii lipid A. <b>2010</b> , 45, 189-98	6
696	Dominance of E. coli phagocytosis over LPS in the inflammatory response of microglia. <b>2010</b> , 227, 111-9	28
695	Involvement of nitric oxide in lipopolysaccharide induced anorexia. <b>2010</b> , 97, 112-20	26
694	Synthesis of a monophosphoryl derivative of Escherichia coli lipid A and its efficient coupling to a tumor-associated carbohydrate antigen. <b>2010</b> , 16, 1319-25	26
693	Comprehensive structure characterization of lipid A extracted from Yersinia pestis for determination of its phosphorylation configuration. <b>2010</b> , 21, 785-99	24
692	Molecular basis for endotoxin neutralization by amphipathic peptides derived from the alpha-helical cationic core-region of NK-lysin. <b>2010</b> , 150, 80-7	28
691	Inactivation of Bacteria and Biomolecules by Low-Pressure Plasma Discharges. <b>2010</b> , 7, 327-352	118
690	Toll-like receptor 4 in CNS pathologies. <b>2010</b> , 114, 13-27	218
689	Low endotoxic activity of lipopolysaccharides isolated from Bradyrhizobium, Mesorhizobium, and Azospirillum strains. <b>2010</b> , 54, 717-25	10
688	Structural analysis of lipopolysaccharides from Gram-negative bacteria. <b>2010</b> , 75, 383-404	50
687	Lipopolissacarídeo (LPS): ativador e regulador da transcriçã o gênica via fator de transcriçã o NFKB. <b>2010</b> , 4, 40-43	5
686	Regulation of inflammatory pain by inhibition of fatty acid amide hydrolase. <b>2010</b> , 334, 182-90	81

685	Study of matrix additives for sensitive analysis of lipid A by matrix-assisted laser desorption ionization mass spectrometry. <b>2010</b> , 76, 3437-43	35
684	Immune system activation affects song and territorial defense. <b>2010</b> , 21, 788-793	16
683	Modulation of epithelial sodium channel activity by lipopolysaccharide in alveolar type II cells: involvement of purinergic signaling. <b>2010</b> , 298, L417-26	25
682	Effects of pretreatment with dexamethasone or levothyroxine sodium on endotoxin-induced alterations in glucose and insulin dynamics in horses. <b>2010</b> , 71, 60-8	30
681	De novo designed lipopolysaccharide binding peptides: structure based development of antiendotoxic and antimicrobial drugs. <b>2010</b> , 17, 3080-93	66
680	Myristoylation negative msbB-mutants of probiotic E. coli Nissle 1917 retain tumor specific colonization properties but show less side effects in immunocompetent mice. <b>2010</b> , 1, 139-45	8
679	Subcellular organelle lipidomics in TLR-4-activated macrophages. <b>2010</b> , 51, 2785-97	156
678	A new look on brain mechanisms of acute illness anorexia. <b>2010</b> , 100, 464-71	33
677	Escherichia coli mutants that synthesize dephosphorylated lipid A molecules. <b>2010</b> , 49, 8325-37	17
676	Structural prerequisites for endotoxic activity in the Limulus test as compared to cytokine production in mononuclear cells. <b>2010</b> , 16, 39-47	44
675	Pharmacological evaluation of the natural constituent of Cannabis sativa, cannabichromene and its modulation by (9)-tetrahydrocannabinol. <b>2010</b> , 112, 126-33	60
674	Altered lipid A structures and polymyxin hypersensitivity of Rhizobium etli mutants lacking the LpxE and LpxF phosphatases. <b>2010</b> , 1801, 593-604	24
673	Lipopolysaccharide: Biosynthetic pathway and structure modification. <b>2010</b> , 49, 97-107	266
672	Modulators of Toll-Like Receptor (TLR) Signaling. <b>2010</b> , 45, 191-207	3
671	Lipopolysaccharide, LPS removal, Depyrogenation. <b>2010</b> , 1	0
670	Nasal PMN response to repeated challenge with endotoxin in healthy volunteers. <b>2011</b> , 23, 142-7	6
669	A common NH53K mutation in the combining site of antibodies raised against chlamydial LPS glycoconjugates significantly increases avidity. <b>2011</b> , 50, 3357-68	15
668	Characterization and proinflammatory response of airborne biological particles from wastewater treatment plants. <b>2011</b> , 45, 3282-7	41

667	Morphology, size distribution, and aggregate structure of lipopolysaccharide and lipid A dispersions from enterobacterial origin. <b>2011</b> , 17, 427-38	42
666	Effects of specific versus nonspecific ionic interactions on the structure and lateral organization of lipopolysaccharides. <b>2011</b> , 100, 2169-77	42
665	Biophysical mechanisms of endotoxin neutralization by cationic amphiphilic peptides. <b>2011</b> , 100, 2652-61	92
664	Planktonic and benthic cyanobacteria of European brackish waters: a perspective on estuaries and brackish seas. <b>2011</b> , 46, 292-304	18
663	Eritoran tetrasodium (E5564) treatment for sepsis: review of preclinical and clinical studies. <b>2011</b> , 7, 479-94	118
662	Structure-activity relationship, conformational and biological studies of temporin L analogues. <b>2011</b> , 54, 1298-307	59
661	Lipopolysaccharide and lipoteichoic acid induce different immune responses in the bovine mammary gland. <b>2011</b> , 94, 5405-12	53
660	Lipid A Structure. <b>2011</b> , 1-20	11
659	Modulation of Lipopolysaccharide Signalling Through TLR4 Agonists and Antagonists. <b>2011</b> , 389-416	
658	Protein-Engineered Biomaterials: Synthesis and Characterization. <b>2011</b> , 35-52	1
657	E. coli Lipopolysaccharide: acute oral toxicity study in mice. <b>2011</b> , 49, 1770-2	8
656	Modeling the effects of estradiol and progesterone on the acute phase proinflammatory axis: variability in tumor necrosis factor- $\alpha$ , nitric oxide, and xanthine oxidase responses to endotoxin challenge in steers. <b>2011</b> , 40, 213-21	7
655	Effects of a cytokine inhibitor, JTE-607, on the response to endotoxin in healthy human volunteers. <b>2011</b> , 11, 1837-43	6
654	Protective changes of inflammation-related gene expression by the leaves of <i>Eriobotrya japonica</i> in the LPS-stimulated human gingival fibroblast: microarray analysis. <b>2011</b> , 135, 636-45	12
653	Differential reduction of HCN channel activity by various types of lipopolysaccharide. <b>2011</b> , 51, 226-35	21
652	Structural biology of the Toll-like receptor family. <b>2011</b> , 80, 917-41	238
651	Relationship Between Steroid Hormones and <i>Helicobacter pylori</i> . <b>2011</b> ,	
650	Translocated LPS might cause endotoxin tolerance in circulating monocytes of cystic fibrosis patients. <b>2011</b> , 6, e29577	28

649	Selective removal of endotoxin from a DNA solution by cross-linked cyclodextrin beads. <b>2011</b> , 27, 213-6	13
648	LPS-induced cytokine production in human monocytes and macrophages. <b>2011</b> , 31, 379-446	380
647	A deep rough type structure in <i>Bordetella bronchiseptica</i> lipopolysaccharide modulates host immune responses. <b>2011</b> , 55, 847-54	8
646	Modulation of asthma by endotoxin. <b>2011</b> , 41, 9-19	48
645	Pathway analysis of <i>Acinetobacter baylyi</i> : a combined bioinformatic and genomics approach. <b>2011</b> , 78, 893-905	4
644	Biological activity of (lipo)polysaccharides of the exopolysaccharide-deficient mutant Rt120 derived from <i>Rhizobium leguminosarum</i> bv. <i>trifolii</i> strain TA1. <b>2011</b> , 76, 840-50	5
643	Effect of extracellular recombinant human heat shock protein 70 (HSP70) on protein pattern observed after endotoxin-induced macrophage activation. <b>2011</b> , 45, 347-351	2
642	The structural biology of Toll-like receptors. <b>2011</b> , 19, 447-59	418
641	Immunomodulating potency of lipopolysaccharides (LPS) derived from smooth type of bacterial pathogens in Indian major carp. <b>2011</b> , 151, 413-7	10
640	A redox microenvironment is essential for MAPK-dependent secretion of pro-inflammatory cytokines: modulation by glutathione (GSH/GSSG) biosynthesis and equilibrium in the alveolar epithelium. <b>2011</b> , 270, 53-61	19
639	Relationships between physicochemical characteristics and biological activity of lipopolysaccharides. <b>2011</b> , 5, 293-309	1
638	Short native antimicrobial peptides and engineered ultrashort lipopeptides: similarities and differences in cell specificities and modes of action. <b>2011</b> , 68, 2267-80	111
637	Chemical composition of <i>Desulfovibrio desulfuricans</i> lipid A. <b>2011</b> , 193, 15-21	7
636	Interactions of complement proteins C1q and factor H with lipid A and <i>Escherichia coli</i> : further evidence that factor H regulates the classical complement pathway. <b>2011</b> , 2, 320-32	26
635	Mapping residue-specific contacts of polymyxin B with lipopolysaccharide by saturation transfer difference NMR: insights into outer-membrane disruption and endotoxin neutralization. <b>2011</b> , 96, 273-87	25
634	Systematic synthesis of inhibitors of the two first enzymes of the bacterial heptose biosynthetic pathway: towards antivirulence molecules targeting lipopolysaccharide biosynthesis. <b>2011</b> , 17, 11305-13	35
633	Structural investigation and biological activity of the lipooligosaccharide from the psychrophilic bacterium <i>Pseudoalteromonas haloplanktis</i> TAB 23. <b>2011</b> , 17, 7053-60	29
632	Comparative evaluation of <i>Pseudomonas fluorescens</i> and their lipopolysaccharides as implicated in induction of resistance against pearl millet downy mildew. <b>2011</b> , 44, 1285-1299	5

631	Antibiotic control of tumor-colonizing <i>Salmonella enterica</i> serovar Typhimurium. <b>2011</b> , 236, 1282-90	8
630	Genome-wide expression profiling and mutagenesis studies reveal that lipopolysaccharide responsiveness appears to be absolutely dependent on TLR4 and MD-2 expression and is dependent upon intermolecular ionic interactions. <b>2011</b> , 187, 3683-93	34
629	Palmitoylation state impacts induction of innate and acquired immunity by the <i>Salmonella enterica</i> serovar typhimurium msbB mutant. <b>2011</b> , 79, 5027-38	33
628	<i>Salmonella</i> synthesizing 1-dephosphorylated [corrected] lipopolysaccharide exhibits low endotoxic activity while retaining its immunogenicity. <b>2011</b> , 187, 412-23	54
627	Endotoxin release in cardiac surgery with cardiopulmonary bypass: pathophysiology and possible therapeutic strategies. An update. <b>2011</b> , 39, 451-8	40
626	Oleifolioside A, a New Active Compound, Attenuates LPS-Stimulated iNOS and COX-2 Expression through the Downregulation of NF- $\kappa$ B and MAPK Activities in RAW 264.7 Macrophages. <b>2012</b> , 2012, 637512	29
625	The role of bacterial lipopolysaccharides as immune modulator in vaccine and drug development. <b>2012</b> , 12, 221-35	18
624	Phosphatidylethanolamine of <i>Helicobacter pylori</i> functions as a steroid-binding lipid in the assimilation of free cholesterol and 3 $\beta$ -hydroxyl steroids into the bacterial cell membrane. <b>2012</b> , 194, 2658-67	21
623	Enterobacterial common antigen mutants of <i>Salmonella enterica</i> serovar Typhimurium establish a persistent infection and provide protection against subsequent lethal challenge. <b>2012</b> , 80, 441-50	20
622	Ready to fire into the lumen: a new role for enterocyte microvilli in gut host defense. <b>2012</b> , 3, 460-2	10
621	Characterization of endotoxin collected on California dairies using personal and area-based sampling methods. <b>2012</b> , 9, 580-91	10
620	A potential therapeutic role for aldose reductase inhibitors in the treatment of endotoxin-related inflammatory diseases. <b>2012</b> , 21, 329-39	25
619	Phosphate groups of lipid A are essential for <i>Salmonella enterica</i> serovar Typhimurium virulence and affect innate and adaptive immunity. <b>2012</b> , 80, 3215-24	53
618	Immunization with an anti-idiotypic antibody against the broadly lipopolysaccharide-reactive antibody WN1 222-5 induces <i>Escherichia coli</i> R3-core-type specific antibodies in rabbits. <b>2012</b> , 18, 279-93	1
617	Structural basis of species-specific endotoxin sensing by innate immune receptor TLR4/MD-2. <b>2012</b> , 109, 7421-6	227
616	Antimicrobial peptides for gram-negative sepsis: a case for the polymyxins. <b>2012</b> , 3, 252	3
615	Mechanisms of O-Antigen Structural Variation of Bacterial Lipopolysaccharide (LPS). <b>2012</b> ,	4
614	C1 inhibitor suppresses the endotoxic activity of a wide range of lipopolysaccharides and interacts with live gram-negative bacteria. <b>2012</b> , 38, 220-5	8



613	Quantitative microfluidic analysis of S- and R-type endotoxin components with chip capillary electrophoresis. <b>2012</b> , 33, 3351-3360	11
612	Photodegradation of lipopolysaccharides and the inhibition of macrophage activation by anthraquinone-boronic acid hybrids. <b>2012</b> , 48, 7595-7	10
611	Induction of phenoloxidase and other immunological activities in the humoral fluids of amphioxus <i>Branchiostoma belcheri</i> challenged with Lipopolysaccharide (LPS). <b>2012</b> , 38, 1835-1842	3
610	Unexpected anomeric selectivity of a 1-C-aryllyglycal donor in Kdo glycoside synthesis. <b>2012</b> , 77, 96-107	22
609	Subacute ruminal acidosis (SARA), endotoxins and health consequences. <b>2012</b> , 172, 9-21	168
608	The role of WlaRG, WlaTB and WlaTC in lipooligosaccharide synthesis by <i>Campylobacter jejuni</i> strain 81116. <b>2012</b> , 52, 344-52	12
607	Factor H as a regulator of the classical pathway activation. <b>2012</b> , 217, 162-8	26
606	Single-trial conditioning in a human taste-endotoxin paradigm induces conditioned odor aversion but not cytokine responses. <b>2012</b> , 26, 234-8	27
605	Lipopolysaccharide inhibits the simultaneous establishment of LiCl-induced anticipatory nausea and intravascularly conditioned taste avoidance in the rat. <b>2012</b> , 232, 278-86	8
604	Contamination of nanoparticles by endotoxin: evaluation of different test methods. <b>2012</b> , 9, 41	93
603	Sensing of microbial molecular patterns by Toll-like receptors. <b>2012</b> , 250, 216-29	127
602	Influence of a high-fat diet on gut microbiota, intestinal permeability and metabolic endotoxaemia. <b>2012</b> , 108, 801-9	388
601	Endotoxin-Induced Airway Inflammation and Asthma Models. <b>2012</b> , 301-342	2
600	The lipopolysaccharide from <i>Capnocytophaga canimorsus</i> reveals an unexpected role of the core-oligosaccharide in MD-2 binding. <b>2012</b> , 8, e1002667	28
599	Role of mechanical stretching and lipopolysaccharide in early apoptosis and IL-8 of alveolar epithelial type II cells A549. <b>2012</b> , 5, 638-44	5
598	Effects of deoxynivalenol and lipopolysaccharide on electrophysiological parameters in growing pigs. <b>2012</b> , 28, 243-52	8
597	Structural analyses of human Toll-like receptor 4 polymorphisms D299G and T399I. <b>2012</b> , 287, 40611-7	90
596	Comparison of inflammatory responses in human cells caused by lipopolysaccharides from <i>Escherichia coli</i> and from indigenous bacteria in aquatic environment. <b>2012</b> , 47, 1966-74	6

595	Modifications of <i>Xanthomonas axonopodis</i> pv. <i>citri</i> lipopolysaccharide affect the basal response and the virulence process during citrus canker. <b>2012</b> , 7, e40051	37
594	Characterisation of <i>Pasteurella multocida</i> isolated from rabbits in the Czech Republic. <b>2012</b> , 51, 278-287	2
593	The chemical composition of endotoxin isolated from intestinal strain of <i>Desulfovibrio desulfuricans</i> . <b>2012</b> , 2012, 647352	11
592	Biophysical characterization of polymyxin B interaction with LPS aggregates and membrane model systems. <b>2012</b> , 98, 338-44	82
591	Bacterial cell surface structures in <i>Yersinia enterocolitica</i> . <b>2012</b> , 60, 199-209	25
590	<i>Bordetella Pertussis</i> Toxin does not induce the release of pro-inflammatory cytokines in human whole blood. <b>2012</b> , 201, 327-35	9
589	Bioactive and total endotoxins in atmospheric aerosols in the Pearl River Delta region, China. <b>2012</b> , 47, 3-11	21
588	New strategies of boar sperm cryopreservation: development of novel freezing and thawing methods with a focus on the roles of seminal plasma. <b>2012</b> , 83, 623-9	19
587	Ornithine lipids and their structural modifications: from A to E and beyond. <b>2012</b> , 335, 1-10	39
586	Modelling the interactions between TLR4 and IFN $\gamma$ pathways. <b>2012</b> , 307, 137-48	2
585	The innate immune response of the bovine mammary gland to bacterial infection. <b>2012</b> , 192, 148-52	103
584	Myeloid differentiation 2 as a therapeutic target of inflammatory disorders. <b>2012</b> , 133, 291-8	43
583	Inhibition of LiCl-induced conditioning of anticipatory nausea in rats following immune system stimulation: comparing the immunogens lipopolysaccharide, muramyl dipeptide, and polyinosinic: polycytidylic acid. <b>2012</b> , 106, 243-51	7
582	The presence of 3-hydroxy oxylipins in pathogenic microbes. <b>2012</b> , 97, 17-21	3
581	The inhibition of liposaccharide heptosyltransferase WaaC with multivalent glycosylated fullerenes: a new mode of glycosyltransferase inhibition. <b>2012</b> , 18, 641-51	88
580	Bacterial resistance to cationic antimicrobial peptides. <b>2013</b> , 39, 180-95	72
579	CD14 overexpression upregulates TNF $\alpha$ -mediated inflammatory responses and suppresses the malignancy of gastric carcinoma cells. <b>2013</b> , 376, 137-43	4
578	Adjuvants containing natural and synthetic Toll-like receptor 4 ligands. <b>2013</b> , 12, 793-807	24

577	<i>Pseudomonas aeruginosa</i> -dependent upregulation of TLR2 influences host responses to a secondary <i>Staphylococcus aureus</i> infection. <b>2013</b> , 69, 149-56	10
576	Isolation and structural characterization of a (Kdo-isosteric) D-glycero- $\beta$ -D-talo-oct-2-ulopyranosidonic acid (Ko) interlinking lipid A and core oligosaccharide in the lipopolysaccharide of <i>Acinetobacter calcoaceticus</i> NCTC 10305. <b>2013</b> , 378, 63-70	9
575	Antibodies bound to A $\beta$ oligomers potentiate the neurotoxicity of A $\beta$ by activating microglia. <b>2013</b> , 126, 604-15	15
574	Effects of grain, fructose, and histidine feeding on endotoxin and oxidative stress measures in dairy heifers. <b>2013</b> , 96, 7881-91	9
573	CCAAT/enhancer-binding protein $\beta$ is a critical mediator of lipopolysaccharide-induced acute lung injury. <b>2013</b> , 182, 420-30	23
572	The calcium-stimulated lipid A 3-O deacylase from <i>Rhizobium etli</i> is not essential for plant nodulation. <b>2012</b> , 1831, 1250-9	2
571	Constrained 3,6-Anhydro-Heptosides: Synthesis by a DAST-Induced Debenzylative Reaction, and Reactivity Profile. <b>2013</b> , 2013, 7593-7603	12
570	Impact of nutrition on lameness and claw health in cattle. <b>2013</b> , 156, 71-87	34
569	Multisystemic functions of alkaline phosphatases. <b>2013</b> , 1053, 27-51	111
568	Recognition of lipopolysaccharide pattern by TLR4 complexes. <b>2013</b> , 45, e66	524
567	Molecular dynamics and NMR spectroscopy studies of <i>E. coli</i> lipopolysaccharide structure and dynamics. <b>2013</b> , 105, 1444-55	125
566	Immunopharmacology of lipid A mimetics. <b>2013</b> , 66, 81-128	3
565	The crystal structure of human soluble CD14 reveals a bent solenoid with a hydrophobic amino-terminal pocket. <b>2013</b> , 190, 1304-11	64
564	Chemical biology based on target-selective degradation of proteins and carbohydrates using light-activatable organic molecules. <b>2013</b> , 9, 834-54	10
563	Lipid A from lipopolysaccharide recognition: structure, dynamics and cooperativity by molecular dynamics simulations. <b>2013</b> , 81, 658-74	23
562	Strategy for dual-analyte luciferin imaging: in vivo bioluminescence detection of hydrogen peroxide and caspase activity in a murine model of acute inflammation. <b>2013</b> , 135, 1783-95	224
561	Concomitant lipopolysaccharide-induced transfer of blood-derived components including immunoglobulins into milk. <b>2013</b> , 96, 889-96	44
560	Improving the immunostimulatory potency of diethanolamine-containing lipid A mimics. <b>2013</b> , 21, 2199-2209	11

559 Encyclopedia of Biophysics. **2013**, 1236-1236

558 Encyclopedia of Biophysics. **2013**, 1286-1286

557 Encyclopedia of Biophysics. **2013**, 1225-1225

556 Reviewing and identifying amino acids of human, murine, canine and equine TLR4 / MD-2 receptor complexes conferring endotoxic innate immunity activation by LPS/lipid A, or antagonistic effects by Eritoran, in contrast to species-dependent modulation by lipid IVa. **2013**, 5, e201302012 20

555 New technologies in developing recombinant attenuated Salmonella vaccine vectors. **2013**, 58, 17-28 55

554 Structural characterization of bacterial lipopolysaccharides with mass spectrometry and on- and off-line separation techniques. **2013**, 32, 90-117 63

553 Lipid IVa incompletely activates MyD88-independent Toll-like receptor 4 signaling in mouse macrophage cell lines. **2013**, 67, 199-205 3

552 Diversity-oriented synthesis of inner core oligosaccharides of the lipopolysaccharide of pathogenic Gram-negative bacteria. **2013**, 135, 6262-71 41

551 Inflammasome-mediated secretion of IL-1 $\beta$  in human monocytes through TLR2 activation; modulation by dietary fatty acids. **2013**, 191, 4337-47 152

550 Exploring the immunomodulatory potential of microbial-associated molecular patterns derived from the enteric bacterial microbiota. **2013**, 159, 1535-1544 23

549 Completely humanizing prolactin rescues infertility in prolactin knockout mice and leads to human prolactin expression in extrapituitary mouse tissues. **2013**, 154, 4777-89 18

548 Encyclopedia of Biophysics. **2013**, 1249-1250 0

547 Isolation and chemical characterization of lipid A from gram-negative bacteria. **2013**, e50623 36

546 Targeting toll-like receptors: promising therapeutic strategies for the management of sepsis-associated pathology and infectious diseases. **2013**, 4, 387 185

545 Marine compounds with therapeutic potential in gram-negative sepsis. **2013**, 11, 2216-29 30

544 Pathogenicity of Yersinia pestis synthesis of 1-dephosphorylated lipid A. **2013**, 81, 1172-85 15

543 Encyclopedia of Biophysics. **2013**, 1226-1233

542 Towards clinical applications of anti-endotoxin antibodies; a re-appraisal of the disconnect. **2013**, 5, 2589-620 20

541	The UDP-diacylglycerol pyrophosphohydrolase LpxH in lipid A biosynthesis utilizes Mn <sup>2+</sup> cluster for catalysis. <b>2013</b> , 288, 26987-27001	12
540	Wedelolactone inhibits LPS-induced pro-inflammation via NF-kappaB pathway in RAW 264.7 cells. <b>2013</b> , 20, 84	49
539	Comparative analysis of hepatic CD14 expression between two different endotoxin shock model mice: relation between hepatic injury and CD14 expression. <b>2013</b> , 8, e53692	6
538	Discovery and validation of a new class of small molecule Toll-like receptor 4 (TLR4) inhibitors. <b>2013</b> , 8, e65779	79
537	Anti-inflammatory effects of cordycepin in lipopolysaccharide-stimulated RAW 264.7 macrophages through Toll-like receptor 4-mediated suppression of mitogen-activated protein kinases and NF- $\kappa$ B signaling pathways. <b>2014</b> , 8, 1941-53	74
536	Synthetic Antimicrobial Peptides Exhibit Two Different Binding Mechanisms to the Lipopolysaccharides Isolated from <i>Pseudomonas aeruginosa</i> and <i>Klebsiella pneumoniae</i> . <b>2014</b> , 2014, 809283	9
535	The Immunology of Mammary Gland of Dairy Ruminants between Healthy and Inflammatory Conditions. <b>2014</b> , 2014, 659801	59
534	Mechanism of Action of Antimicrobial Peptides Against Bacterial Membrane. <b>2014</b> , 44, 140	2
533	Bacterial lipopolysaccharide induces a dose-dependent activation of neuroglia and loss of basal forebrain cholinergic cells in the rat brain. <b>2014</b> , 1,	10
532	Innate Immunity. <b>2014</b> , 2-19	
531	Development and retranslational validation of an in vitro model to characterize acute infections in large human joints. <b>2014</b> , 2014, 848604	3
530	Effects of central injection of anti-LPS antibody and blockade of TLR4 on GnRH/LH secretion during immunological stress in anestrous ewes. <b>2014</b> , 2014, 867170	19
529	Incorporating amino acids composition and functional domains for identifying bacterial toxin proteins. <b>2014</b> , 2014, 972692	2
528	Lipid A-based affinity biosensor for screening anti-sepsis components from herbs. <b>2014</b> , 34,	0
527	Toll-Like Receptors and their Contribution to Innate Immunity: Focus on TLR4 Activation by Lipopolysaccharide. <b>2014</b> , 4, 1-23	12
526	Modulation of endotoxicity of <i>Shigella</i> generalized modules for membrane antigens (GMMA) by genetic lipid A modifications: relative activation of TLR4 and TLR2 pathways in different mutants. <b>2014</b> , 289, 24922-35	51
525	Inhibition of cardiac pacemaker channel hHCN2 depends on intercalation of lipopolysaccharide into channel-containing membrane microdomains. <b>2014</b> , 592, 1199-211	13
524	Impact of KDO in biological activity of Re-LPS. <b>2014</b> , 18,	78

523	Plasma flux-dependent lipid A deactivation. <b>2014</b> , 47, 224015	3
522	Evaluation of the endotoxin binding efficiency of clay minerals using the Limulus Amebocyte lysate test: an in vitro study. <b>2014</b> , 4, 1	55
521	Iron sulfate inhibits Limulus activity by induction of structural and qualitative changes in lipid A. <b>2014</b> , 116, 89-99	6
520	Interaction of silver nanoparticles with Escherichia coli and their cell envelope biomolecules. <b>2014</b> , 54, 905-15	75
519	Antimicrobial protein rBPI21-induced surface changes on Gram-negative and Gram-positive bacteria. <b>2014</b> , 10, 543-51	58
518	Endotoxicity of lipopolysaccharide as a determinant of T-cell-mediated colitis induction in mice. <b>2014</b> , 146, 765-75	51
517	Regenerative therapies for central nervous system diseases: a biomaterials approach. <b>2014</b> , 39, 169-88	184
516	Deciphering the role of Burkholderia cenocepacia membrane proteins in antimicrobial properties of chitosan. <b>2014</b> , 196, 9-16	16
515	Different mechanism of LPS-induced calcium increase in human lung epithelial cell and microvascular endothelial cell: a cell culture study in a model for ARDS. <b>2014</b> , 41, 4253-9	10
514	Models of hepatotoxicity and the underlying cellular, biochemical and immunological mechanism(s): a critical discussion. <b>2014</b> , 37, 118-33	116
513	Site-specific acylation changes in the lipid A of Escherichia coli lpxL mutants grown at high temperatures. <b>2014</b> , 20, 269-82	10
512	NMR-based structural analysis of the complete rough-type lipopolysaccharide isolated from Capnocytophaga canimorsus. <b>2014</b> , 289, 23963-76	18
511	Glycopolymers of microorganisms: Achievements and future research (review). <b>2014</b> , 50, 539-553	
510	Novel Broad-Spectrum Antimicrobial Photoinactivation of In Situ Oral Biofilms by Visible Light plus Water-Filtered Infrared A. <b>2014</b> , 80, 7324-36	41
509	Construction of nanoantennas on the bacterial outer membrane. <b>2014</b> , 50, 6252-5	26
508	Electrochemical sensor with substitutional stripping voltammetry for highly sensitive endotoxin assay. <b>2014</b> , 139, 5001-6	14
507	Synthesis and evaluation of monophosphoryl lipid A derivatives as fully synthetic self-adjuvanting glycoconjugate cancer vaccine carriers. <b>2014</b> , 12, 3238-45	61
506	The sweet tooth of bacteria: common themes in bacterial glycoconjugates. <b>2014</b> , 78, 372-417	87

505	Method to conjugate polysaccharide antigens to surfaces for the detection of antibodies. <b>2014</b> , 465, 73-80	3
504	Forsythia inhibits lipopolysaccharide-induced inflammation by suppressing JAK-STAT and p38 MAPK signalings and ROS production. <b>2014</b> , 63, 597-608	47
503	A combined fermentative-chemical approach for the scalable production of pure E. coli monophosphoryl lipid A. <b>2014</b> , 98, 7781-91	8
502	Dimerization of isolated <i>Pseudomonas aeruginosa</i> lipopolysaccharide transporter component LptA. <b>2014</b> , 450, 1327-32	5
501	A cross-disciplinary perspective on the innate immune responses to bacterial lipopolysaccharide. <b>2014</b> , 54, 212-23	127
500	Association of obesity with inflammation and pain after total hip arthroplasty. <b>2014</b> , 472, 1442-8	35
499	Proteogenomics of selective susceptibility to endotoxin using circulating acute phase biomarkers and bioassay development in sheep: a review. <b>2014</b> , 12, 12	10
498	Spectroscopic investigations of the binding mechanisms between antimicrobial peptides and membrane models of <i>Pseudomonas aeruginosa</i> and <i>Klebsiella pneumoniae</i> . <b>2014</b> , 22, 4210-22	8
497	Lipopolysaccharide-induced dynamic lipid membrane reorganization: tubules, perforations, and stacks. <b>2014</b> , 106, 2395-407	44
496	Animal models of human disease: inflammation. <b>2014</b> , 87, 121-30	68
495	Recognition of LPS by TLR4: potential for anti-inflammatory therapies. <b>2014</b> , 12, 4260-73	45
494	<i>Campylobacter jejuni</i> Lipooligosaccharides: Structures and Biosynthesis. <b>2014</b> , 483-504	13
493	Ikatanin regulates NF- $\kappa$ B activity and inflammatory cytokine expression in bronchial epithelial cells treated with lipopolysaccharide. <b>2014</b> , 34, 632-8	31
492	Nature and mechanisms of hepatocyte apoptosis induced by D-galactosamine/lipopolysaccharide challenge in mice. <b>2014</b> , 33, 1498-506	31
491	Lipopolysaccharide-induced pulmonary endothelial barrier disruption and lung edema: critical role for bicarbonate stimulation of AC10. <b>2015</b> , 309, L1430-7	11
490	Novel and disruptive biological strategies for resolving gut health challenges in monogastric food animal production. <b>2015</b> , 1, 138-143	3
489	Insights into the species-specific TLR4 signaling mechanism in response to <i>Rhodobacter sphaeroides</i> lipid A detection. <b>2015</b> , 5, 7657	34
488	Vulvovaginal infections. 307-317	

487	Enhancement of the anti-inflammatory activity of temporin-1Tl-derived antimicrobial peptides by tryptophan, arginine and lysine substitutions. <b>2015</b> , 21, 779-85	9
486	Cell-based detection of microbial biomaterial contaminations. <b>2015</b> , 60, 51-63	7
485	Endotoxemia Analysis by the Limulus Amoebocyte Lysate Assay in Different Mammal Species Used in Metabolic Studies. <b>2015</b> , 6,	4
484	Construction of Escherichia coli Mutant with Decreased Endotoxic Activity by Modifying Lipid A Structure. <b>2015</b> , 13, 3388-406	3
483	Removal of endotoxins from bacteriophage preparations by extraction with organic solvents. <b>2015</b> , 10, e0122672	60
482	Somatostatin Improved B Cells Mature in Macaques during Intestinal Ischemia-Reperfusion. <b>2015</b> , 10, e0133692	8
481	Oxidant/Antioxidant Balance in Animal Nutrition and Health: The Role of Protein Oxidation. <b>2015</b> , 2, 48	91
480	Editorial: Antimicrobial Peptides in Medicinal Chemistry: Advances and Applications. <b>2016</b> , 16, 2-3	4
479	Endotoxin-Induced Tryptophan Degradation along the Kynurenine Pathway: The Role of Indolamine 2,3-Dioxygenase and Aryl Hydrocarbon Receptor-Mediated Immunosuppressive Effects in Endotoxin Tolerance and Cancer and Its Implications for Immunoparalysis. <b>2015</b> , 2015, 973548	38
478	Lipid A as a Drug Target and Therapeutic Molecule. <b>2015</b> , 23, 510-6	14
477	Detection of endotoxin using a photonic crystal nanolaser. <b>2015</b> , 106, 131112	14
476	Spectral and biological evaluation of a synthetic antimicrobial peptide derived from 1-aminocyclohexane carboxylic acid. <b>2015</b> , 23, 1341-7	3
475	Endotoxin detection in end-stage kidney disease. <b>2015</b> , 68, 73-8	5
474	The antimicrobial peptide microcin J25 stabilizes the gel phase of bacterial model membranes. <b>2015</b> , 129, 183-90	10
473	Gut microbiota. Antimicrobial peptide resistance mediates resilience of prominent gut commensals during inflammation. <b>2015</b> , 347, 170-5	240
472	A Two-Step Protocol to Remove Endotoxins from Human-Like Collagen. <b>2015</b> , 50, 993-1001	4
471	Selective One-Pot Fluorophosphorylation of d,d-Heptosylglycals Mediated by Selectfluor. <b>2015</b> , 55, 392-397	6
470	Enhanced antimicrobial activity with faceted silver nanostructures. <b>2015</b> , 50, 2849-2858	23



469	Expression of the lipopolysaccharide biosynthesis gene lpxD affects biofilm formation of <i>Pseudomonas aeruginosa</i> . <b>2015</b> , 197, 135-45	18
468	Epidemiology. Opposite effects of anthelmintic treatment on microbial infection at individual versus population scales. <b>2015</b> , 347, 175-7	108
467	Survival Strategies of Extracellular Bacterial Pathogens. <b>2015</b> , 475-489	
466	Understanding bacterial resistance to antimicrobial peptides: From the surface to deep inside. <b>2015</b> , 1848, 3078-88	108
465	D-Amino acids incorporation in the frog skin-derived peptide esculentin-1a(1-21)NH <sub>2</sub> is beneficial for its multiple functions. <b>2015</b> , 47, 2505-19	50
464	Strategy for efficient production of recombinant <i>Staphylococcus epidermidis</i> lipase in <i>Bacillus subtilis</i> . <b>2015</b> , 103, 152-157	9
463	<i>Achromobacter</i> respiratory infections. <b>2015</b> , 12, 252-8	44
462	Lipopolysaccharide-induced inflammatory liver injury in mice. <b>2015</b> , 49, 37-46	63
461	Fighting microbial infections: A lesson from amphibian skin-derived esculentin-1 peptides. <b>2015</b> , 71, 286-95	27
460	Activation of Human Toll-like Receptor 4 (TLR4) by Myeloid Differentiation Factor 2 (MD-2) by Hypoacylated Lipopolysaccharide from a Clinical Isolate of <i>Burkholderia cenocepacia</i> . <b>2015</b> , 290, 21305-19	36
459	Endodontic Irrigation. <b>2015</b> ,	6
458	In vivo porcine lipopolysaccharide inflammation models to study immunomodulation of drugs. <b>2015</b> , 166, 58-69	61
457	Oral administration of <i>Saccharomyces boulardii</i> ameliorates carbon tetrachloride-induced liver fibrosis in rats via reducing intestinal permeability and modulating gut microbial composition. <b>2015</b> , 38, 170-9	23
456	Chapter 3: Lipopolysaccharides as Microbe-associated Molecular Patterns: A Structural Perspective. <b>2015</b> , 38-63	12
455	The science of fatty acids and inflammation. <b>2015</b> , 6, 293S-301S	186
454	Nanoantennas as biomarkers for bacterial detection. <b>2015</b> , 87, 4042-6	30
453	Involvement of RNA Polymerase III in Immune Responses. <b>2015</b> , 35, 1848-59	28
452	Lantibiotic resistance. <b>2015</b> , 79, 171-91	95

451	Delivery of dexamethasone from electrospun PCL/PEO binary fibers and their effects on inflammation regulation. <b>2015</b> , 5, 34166-34172	15
450	Bacterial Lipopolysaccharides: An Overview of Their Structure, Biosynthesis and Immunological Activity. <b>2015</b> , 57-89	3
449	Mass Spectrometry: Updates in the Elucidation of Structure of Oligosaccharides. <b>2015</b> , 93-119	
448	On the translocation of bacteria and their lipopolysaccharides between blood and peripheral locations in chronic, inflammatory diseases: the central roles of LPS and LPS-induced cell death. <b>2015</b> , 7, 1339-77	98
447	What Can We Learn About the Neural Functions of TNAP from Studies on Other Organs and Tissues?. <b>2015</b> , 76, 155-66	3
446	Phosphatidylethanolamine, but not Phosphatidylglycerol-Cardiolipin, Isolated from Two Species of Helicobacter Binds Cholesterol over Cholesteryl Ester. <b>2015</b> , 50, 799-804	3
445	Specific Lipopolysaccharide Serotypes Induce Differential Maternal and Neonatal Inflammatory Responses in a Murine Model of Preterm Labor. <b>2015</b> , 185, 2390-401	46
444	Intracanal Medication. <b>2015</b> , 267-283	0
443	The natural immunity to evolutionary atavistic endotoxin for human cancer. <b>2015</b> , 85, 701-6	
442	Comparative study of four interleukin 17 cytokines of tongue sole <i>Cynoglossus semilaevis</i> : Genomic structure, expression pattern, and promoter activity. <b>2015</b> , 47, 321-30	15
441	Carbohydrate-based vaccine adjuvants - discovery and development. <b>2015</b> , 10, 1133-44	14
440	Surface polysaccharides from <i>Acinetobacter baumannii</i> : Structures and syntheses. <b>2015</b> , 418, 29-43	20
439	Organization and functions of glycolipid-enriched microdomains in phagocytes. <b>2015</b> , 1851, 90-7	23
438	Kdo2 -lipid A: structural diversity and impact on immunopharmacology. <b>2015</b> , 90, 408-27	52
437	Chemistry of lipid A: at the heart of innate immunity. <b>2015</b> , 21, 500-19	147
436	Molecular simplification of lipid A structure: TLR4-modulating cationic and anionic amphiphiles. <b>2015</b> , 63, 153-61	23
435	Phage on tap-a quick and efficient protocol for the preparation of bacteriophage laboratory stocks. <b>2016</b> , 4, e2261	112
434	More than 70 years of pyrogen detection: Current state and future perspectives. <b>2016</b> , 44, 239-53	18

433	A Semisynthetic Approach to New Immunoadjuvant Candidates: Site-Selective Chemical Manipulation of <i>Escherichia coli</i> Monophosphoryl Lipid A. <b>2016</b> , 22, 11053-63	9
432	Modification of the 1-Phosphate Group during Biosynthesis of <i>Capnocytophaga canimorsus</i> Lipid A. <b>2016</b> , 84, 550-61	10
431	Impact of luminal and systemic endotoxin exposure on gut function, immune response and performance of chickens. <b>2016</b> , 72, 367-380	13
430	Characterization of a Novel d-Glycero-d-talo-oct-2-ulosonic acid-substituted Lipid A Moiety in the Lipopolysaccharide Produced by the Acetic Acid Bacterium <i>Acetobacter pasteurianus</i> NBRC 3283. <b>2016</b> , 291, 21184-21194	16
429	Structure and function: Lipid A modifications in commensals and pathogens. <b>2016</b> , 306, 290-301	165
428	Lipopolysaccharide transport and assembly at the outer membrane: the PEZ model. <b>2016</b> , 14, 337-45	208
427	LPS stimulates IgM production in vivo without help from non-B cells. <b>2016</b> , 22, 307-15	11
426	Heat stress, gastrointestinal permeability and interleukin-6 signaling - Implications for exercise performance and fatigue. <b>2016</b> , 3, 240-251	26
425	Early-life enteric infections: relation between chronic systemic inflammation and poor cognition in children. <b>2016</b> , 74, 374-86	49
424	Endocannabinoids in the Gut. <b>2016</b> , 1, 67-77	71
423	Cloning and differential expression of a novel toll-like receptor gene in noble scallop <i>Chlamys nobilis</i> with different total carotenoid content. <b>2016</b> , 56, 229-238	35
422	Esculentin-1a-Derived Peptides Promote Clearance of <i>Pseudomonas aeruginosa</i> Internalized in Bronchial Cells of Cystic Fibrosis Patients and Lung Cell Migration: Biochemical Properties and a Plausible Mode of Action. <b>2016</b> , 60, 7252-7262	34
421	Rapid detection of bacterial endotoxins in ophthalmic viscosurgical device materials by direct analysis in real time mass spectrometry. <b>2016</b> , 943, 98-105	15
420	Characterization of complex, heterogeneous lipid A samples using HPLC-MS/MS technique I. Overall analysis with respect to acylation, phosphorylation and isobaric distribution. <b>2016</b> , 51, 1043-1063	10
419	A Protein Nanopore-Based Approach for Bacteria Sensing. <b>2016</b> , 11, 501	8
418	Multigram-scale synthesis of l,d-heptoside using a Fleming-Tamao oxidation promoted by mercuric trifluoroacetate. <b>2016</b> , 432, 71-5	8
417	Comparative genomic analysis of <i>Klebsiella pneumoniae</i> subsp. <i>pneumoniae</i> KP617 and PittNDM01, NUHL24835, and ATCC BAA-2146 reveals unique evolutionary history of this strain. <b>2016</b> , 8, 34	14
416	Reduction Impairs the Antibacterial Activity but Benefits the LPS Neutralization Ability of Human Enteric Defensin 5. <b>2016</b> , 6, 22875	26

4 <sup>15</sup>	A two-step method for extraction of lipopolysaccharide from <i>Shigella dysenteriae</i> serotype 1 and <i>Salmonella typhimurium</i> : An improved method for enhanced yield and purity. <b>2016</b> , 127, 41-50	5
4 <sup>14</sup>	Primary Air-Liquid Interface Culture of Nasal Epithelium for Nasal Drug Delivery. <b>2016</b> , 13, 2242-52	24
4 <sup>13</sup>	Immunotoxicity assessment of CdSe/ZnS quantum dots in macrophages, lymphocytes and BALB/c mice. <b>2016</b> , 14, 10	52
4 <sup>12</sup>	Glycolipid-based TLR4 Modulators and Fluorescent Probes: Rational Design, Synthesis, and Biological Properties. <b>2016</b> , 88, 217-29	10
4 <sup>11</sup>	Peptides with dual mode of action: Killing bacteria and preventing endotoxin-induced sepsis. <b>2016</b> , 1858, 971-9	42
4 <sup>10</sup>	Angiotensin-(1-7)/Mas Signaling Inhibits Lipopolysaccharide-Induced ADAM17 Shedding Activity and Apoptosis in Alveolar Epithelial Cells. <b>2016</b> , 97, 63-71	11
4 <sup>09</sup>	The influence of rough lipopolysaccharide structure on molecular interactions with mammalian antimicrobial peptides. <b>2016</b> , 1858, 197-209	13
4 <sup>08</sup>	Regulation of drug-metabolizing enzymes by local and systemic liver injuries. <b>2016</b> , 12, 245-51	11
4 <sup>07</sup>	Sepsis: in search of cure. <b>2016</b> , 65, 587-602	38
4 <sup>06</sup>	Endotoxin exposure, serum vitamin D, asthma and wheeze outcomes. <b>2016</b> , 114, 61-6	9
4 <sup>05</sup>	Human SR-BI and SR-BII Potentiate Lipopolysaccharide-Induced Inflammation and Acute Liver and Kidney Injury in Mice. <b>2016</b> , 196, 3135-47	35
4 <sup>04</sup>	Dynamics and Interactions of OmpF and LPS: Influence on Pore Accessibility and Ion Permeability. <b>2016</b> , 110, 930-8	54
4 <sup>03</sup>	Alkaline phosphatase immobilization on spherical pectin gel particles. <b>2016</b> , 52, 36-42	2
4 <sup>02</sup>	Interferon- $\beta$ stimulates CD14, TLR2 and TLR4 mRNA expression in gingival fibroblasts increasing responsiveness to bacterial challenge. <b>2016</b> , 61, 36-43	10
4 <sup>01</sup>	Biological Effects of Simvastatin Formulated as pMDI on Pulmonary Epithelial Cells. <b>2016</b> , 33, 92-101	15
4 <sup>00</sup>	Anti-inflammatory effects of ononin on lipopolysaccharide-stimulated RAW 264.7 cells. <b>2017</b> , 83, 46-51	43
3 <sup>99</sup>	Modifications of <i>Bordetella bronchiseptica</i> core lipopolysaccharide influence immune response without affecting protective activity. <b>2017</b> , 27, 432-436	2
3 <sup>98</sup>	The Stories Tryptophans Tell: Exploring Protein Dynamics of Heptosyltransferase I from <i>Escherichia coli</i> . <b>2017</b> , 56, 886-895	11

397	Effects of body condition, monensin, and essential oils on ruminal lipopolysaccharide concentration, inflammatory markers, and endoplasmatic reticulum stress of transition dairy cows. <b>2017</b> , 100, 2751-2764	7
396	Glucose phosphorylated on carbon 6 suppresses lipopolysaccharide binding to lipopolysaccharide-binding protein and inhibits its bioactivities. <b>2017</b> , 45, 43-52	1
395	Ethyl acetate extract from <i>Asparagus cochinchinensis</i> exerts anti-inflammatory effects in LPS-stimulated RAW264.7 macrophage cells by regulating COX-2/iNOS, inflammatory cytokine expression, MAP kinase pathways, the cell cycle and anti-oxidant activity. <b>2017</b> , 15, 1613-1623	17
394	SIRT1, a Class III Histone Deacetylase, Regulates LPS-Induced Inflammation in Human Keratinocytes and Mediates the Anti-Inflammatory Effects of Hinokitiol. <b>2017</b> , 137, 1257-1266	28
393	Modeling and simulation of bacterial outer membranes and interactions with membrane proteins. <b>2017</b> , 43, 131-140	30
392	LPS-induced inflammatory response is suppressed by Wnt inhibitors, Dickkopf-1 and LGK974. <b>2017</b> , 7, 41612	51
391	Structural and biological characteristics of different forms of lipid A: use of MS to highlight structural discrepancies. <b>2017</b> , 58, 543-552	6
390	Characterization of O-antigen polysaccharide backbone derived from nitric oxide-inducing <i>Mesorhizobium loti</i> MAFF 303099 lipopolysaccharide. <b>2017</b> , 445, 44-50	1
389	Impedimetric label-free sensor for specific bacteria endotoxin detection by surface charge registration. <b>2017</b> , 243, 142-151	20
388	Bergapten prevents lipopolysaccharide-induced inflammation in RAW264.7 cells through suppressing JAK/STAT activation and ROS production and increases the survival rate of mice after LPS challenge. <b>2017</b> , 48, 159-168	37
387	Development of polyhydroxybutyrate biosynthesis in <i>Bacillus subtilis</i> with combination of PHB-associated genes derived from <i>Ralstonia eutropha</i> and <i>Bacillus megaterium</i> . <b>2017</b> , 79, 110-115	6
386	Gram-Negative Extremophile Lipopolysaccharides: Promising Source of Inspiration for a New Generation of Endotoxin Antagonists. <b>2017</b> , 2017, 4055-4073	18
385	A comparative study of different strategies for removal of endotoxins from bacteriophage preparations. <b>2017</b> , 132, 153-159	26
384	Increase in seizure susceptibility in sepsis like condition explained by spiking cytokines and altered adhesion molecules level with impaired blood brain barrier integrity in experimental model of rats treated with lipopolysaccharides. <b>2017</b> , 135, 176-186	19
383	An antimicrobial peptide-based colorimetric bioassay for rapid and sensitive detection of <i>E. coli</i> O157:H7. <b>2017</b> , 7, 15769-15775	19
382	Exploiting pH-Regulated Dimer-Tetramer Transformation of Concanavalin A to Develop Colorimetric Biosensing of Bacteria. <b>2017</b> , 7, 1452	14
381	TLR2-stimulating contaminants in glycoconjugate fractions prepared from <i>Bacteroides fragilis</i> . <b>2017</b> , 23, 449-458	5
380	Xanthotoxin suppresses LPS-induced expression of iNOS, COX-2, TNF- $\alpha$ and IL-6 via AP-1, NF- $\kappa$ B, and JAK-STAT inactivation in RAW 264.7 macrophages. <b>2017</b> , 49, 21-29	61

379	Emerging role of various signaling pathways in the pathogenesis and therapeutics of atherosclerosis. <b>2017</b> , 10-11, 1-12	7
378	Host defenses against metabolic endotoxaemia and their impact on lipopolysaccharide detection. <b>2017</b> , 36, 125-144	19
377	Enhancement of chitosanase secretion by <i>Bacillus subtilis</i> for production of chitosan oligosaccharides. <b>2017</b> , 79, 49-54	17
376	Resveratrol mitigates lipopolysaccharide-mediated acute inflammation in rats by inhibiting the TLR4/NF- $\kappa$ B/p65/MAPKs signaling cascade. <b>2017</b> , 7, 45006	65
375	Sepsis-Induced Acute Kidney Injury in Equine: Current Knowledge and Future Perspectives. <b>2017</b> , 50, 84-95	1
374	Antimicrobial Peptides. <b>2017</b> ,	6
373	Methods for In Vitro Analysis of Antimicrobial Activity and Toxicity of Anti-keratitis Peptides: Bacterial Viability in Tears, MTT, and TNF- $\alpha$ Release Assays. <b>2017</b> , 1548, 395-409	1
372	Preparation of Membrane Models of Gram-Negative Bacteria and Their Interaction with Antimicrobial Peptides Studied by CD and NMR. <b>2017</b> , 1548, 231-245	1
371	Anti-inflammatory Properties of Antimicrobial Peptides and Peptidomimetics: LPS and LTA Neutralization. <b>2017</b> , 1548, 369-386	4
370	Protein Reviews. <b>2017</b> ,	
369	Metabolites related to renal function, immune activation, and carbamylation are associated with muscle composition in older adults. <b>2017</b> , 100, 1-10	9
368	Development of Clickable Monophosphoryl Lipid A Derivatives toward Semisynthetic Conjugates with Tumor-Associated Carbohydrate Antigens. <b>2017</b> , 60, 9757-9768	8
367	Polyspecificity of Anti-lipid A Antibodies and Its Relevance to the Development of Autoimmunity. <b>2017</b> , 966, 181-202	3
366	Molecular cloning, biochemical characterization, and expression analysis of two glutathione S-transferase paralogs from the big-belly seahorse ( <i>Hippocampus abdominalis</i> ). <b>2017</b> , 214, 1-11	9
365	Characterization of the O-antigen polysaccharide derived from <i>Pantoea agglomerans</i> IG1 lipopolysaccharide. <b>2017</b> , 449, 32-36	3
364	Chemical Structure of the Lipid A component of <i>Pseudomonas</i> sp. strain PAMC 28618 from Thawing Permafrost in Relation to Pathogenicity. <b>2017</b> , 7, 2168	4
363	Unusual Lipid A from a Cold-Adapted Bacterium: Detailed Structural Characterization. <b>2017</b> , 18, 1845-1854	17
362	Early innate immune responses to bacterial LPS. <b>2017</b> , 44, 14-19	175

361	The impact of inflammation on respiratory plasticity. <b>2017</b> , 287, 243-253		34
360	Functional dyspepsia susceptibility is related to CD14, GNB3, MIF, and TRPV1 gene polymorphisms in the Greek population. <b>2017</b> , 29, e12913		16
359	Non-chromatographic bioprocess engineering of a recombinant mineralizing protein for the synthesis of silica nanocapsules. <b>2017</b> , 114, 335-343		13
358	The influence of protein malnutrition on biological and immunomodulatory aspects of bone marrow mesenchymal stem cells. <b>2017</b> , 36, 1149-1157		9
357	Structures and recognition modes of toll-like receptors. <b>2017</b> , 85, 3-9		45
356	Biophysical Analysis of Lipopolysaccharide Formulations for an Understanding of the Low Endotoxin Recovery (LER) Phenomenon. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 18,	6.3	11
355	Inhibition of Toll-Like Receptor Signaling as a Promising Therapy for Inflammatory Diseases: A Journey from Molecular to Nano Therapeutics. <b>2017</b> , 8, 508		181
354	Experimental Models of Liver Damage Mediated by Oxidative Stress. <b>2017</b> , 529-546		13
353	Graphene and the Immune System: A Romance of Many Dimensions. <b>2017</b> , 8, 673		40
352	2.2 Protein-Engineered Biomaterials: Synthesis and Characterization ?. <b>2017</b> , 18-40		
351	The Role of Intestinal Alkaline Phosphatase in Inflammatory Disorders of Gastrointestinal Tract. <b>2017</b> , 2017, 9074601		74
350	Lipopolysaccharide Influences Adipokine Expression in 3T3-L1 Adipocytes. <b>2017</b> , 2017, 9039302		4
349	Assessment of A Lipopolysaccharide, as an Adhesin in an In Vitro Model of Rabbit Respiratory Epithelium. <b>2017</b> , 2017, 8967618		2
348	The anti-microbial peptide TP359 attenuates inflammation in human lung cells infected with <i>Pseudomonas aeruginosa</i> via TLR5 and MAPK pathways. <b>2017</b> , 12, e0176640		16
347	Encryption of agonistic motifs for TLR4 into artificial antigens augmented the maturation of antigen-presenting cells. <b>2017</b> , 12, e0188934		6
346	Differences in survival, virulence and biofilm formation between sialidase-deficient and W83 wild-type <i>Porphyromonas gingivalis</i> strains under stressful environmental conditions. <b>2017</b> , 17, 178		7
345	Anti-inflammatory evaluation of the methanolic extract of <i>Taraxacum officinale</i> in LPS-stimulated human umbilical vein endothelial cells. <b>2017</b> , 17, 508		19
344	The application of mesenchymal progenitor stem cells for the reduction of oxidative stress in animals. <b>2017</b> , 41, 12-19		3

343	Modulation of innate and adaptive immune responses by arabinoxylans. <b>2018</b> , 42, e12473	8
342	Importance of heterogeneity in lipopolysaccharide lipid A in tissue specific inflammatory signalling. <b>2018</b> , 10, 1440128	22
341	Disruption of female reproductive function by endotoxins. <b>2018</b> , 155, R169-R181	24
340	Release of large amounts of lipopolysaccharides from <i>Pseudomonas aeruginosa</i> cells reduces their susceptibility to colistin. <b>2018</b> , 51, 888-896	8
339	Synthesis, kinetics and inhibition of <i>Escherichia coli</i> Heptosyltransferase I by monosaccharide analogues of Lipid A. <b>2018</b> , 28, 594-600	3
338	Anti-Inflammatory Effects of Hypophyllanthin and Niranthin Through Downregulation of NF- $\kappa$ B/MAPKs/PI3K-Akt Signaling Pathways. <b>2018</b> , 41, 984-995	29
337	Molecular characterization of thioredoxin-like protein 1 (TXNL1) from big-belly seahorse <i>Hippocampus abdominalis</i> in response to immune stimulation. <b>2018</b> , 75, 181-189	9
336	Arabinoxylans from rice bran and wheat immunomodulatory potentials: a review article. <b>2018</b> , 48, 97-110	5
335	A novel microporous oxidized bacterial cellulose/arginine composite and its effect on behavior of fibroblast/endothelial cell. <b>2018</b> , 184, 323-332	32
334	Immune responses to bacterial and fungal infections in the silkworm, <i>Bombyx mori</i> . <b>2018</b> , 83, 3-11	33
333	Dose matters: Direct killing or immunoregulatory effects of natural polysaccharides in cancer treatment. <b>2018</b> , 195, 243-256	22
332	Combination of urea-crosslinked hyaluronic acid and sodium ascorbyl phosphate for the treatment of inflammatory lung diseases: An in vitro study. <b>2018</b> , 120, 96-106	13
331	Differential Responses of the Nitric Oxide Synthase (NOS) Gene to Immunological Challenges in Noble Scallop <i>Chlamys nobilis</i> . <b>2018</b> , 80, 119-127	1
330	Atomistic Scale Effects of Lipopolysaccharide Modifications on Bacterial Outer Membrane Defenses. <b>2018</b> , 114, 1389-1399	26
329	Progress in the synthesis and biological evaluation of lipid A and its derivatives. <b>2018</b> , 38, 556-601	25
328	Recent progress of fully synthetic carbohydrate-based vaccine using TLR agonist as build-in adjuvant. <b>2018</b> , 29, 19-26	25
327	Characterization of outer membrane vesicles of <i>Acetobacter pasteurianus</i> NBRC3283. <b>2018</b> , 125, 425-431	7
326	Purification and partial characterization of LdtP, a cell envelope modifying enzyme in <i>Liberibacter asiaticus</i> . <b>2018</b> , 18, 201	5



325	Prenatal Programming of Neuroendocrine System Development by Lipopolysaccharide: Long-Term Effects. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	16
324	Current Progress in the Structural and Biochemical Characterization of Proteins Involved in the Assembly of Lipopolysaccharide. <b>2018</b> , 2018, 5319146		10
323	Growth and Toxin Production of spp. Can Be Regulated by Quorum-Sensing Bacteria. <b>2018</b> , 10,		8
322	Effect of CD14/TLR4 antagonist on GnRH/LH secretion in ewe during central inflammation induced by intracerebroventricular administration of LPS. <b>2018</b> , 9, 52		13
321	S-Alk(en)ylmercaptocysteine suppresses LPS-induced pro-inflammatory responses in murine macrophages through inhibition of NF- $\kappa$ B pathway and modulation of thiol redox status. <b>2018</b> , 129, 548-558		11
320	Inflammation and LPS-Binding Protein Enable the Stimulatory Effect of Endotoxin on Prolactin Secretion in the Ovine Anterior Pituitary: Ex Vivo Study. <b>2018</b> , 2018, 5427089		3
319	Molecular dynamics modeling of <i>Pseudomonas aeruginosa</i> outer membranes. <b>2018</b> , 20, 23635-23648		16
318	Indene Compounds Synthetically Derived from Vitamin D Have Selective Antibacterial Action on <i>Helicobacter pylori</i> . <b>2018</b> , 53, 393-401		16
317	Genistein has the function of alleviating and treating disseminated intravascular coagulation caused by lipopolysaccharide. <b>2018</b> , 72, 846-856		3
316	Single-Cell Force Spectroscopy of Interaction of Lipopolysaccharides from <i>Yersinia pseudotuberculosis</i> and <i>Yersinia pestis</i> with J774 Macrophage Membrane Using Optical Tweezers. <b>2018</b> , 12, 93-106		2
315	Molecular cloning of sea perch ( <i>Lateolabrax japonicus</i> ) TLR1 and analysis of its expression pattern after stimulation with various bacteria. <b>2018</b> , 49, 2455-2465		1
314	High-Density Lipoprotein Reduction Differentially Modulates to Classical and Nonclassical Monocyte Subpopulations in Metabolic Syndrome Patients and in LPS-Stimulated Primary Human Monocytes. <b>2018</b> , 2018, 2737040		8
313	Role of Muramyl Dipeptide in Lipopolysaccharide-Mediated Biological Activity and Osteoclast Activity. <b>2018</b> , 2018, 8047610		4
312	Anti-inflammatory effect of Calycosin glycoside on lipopolysaccharide-induced inflammatory responses in RAW 264.7 cells. <b>2018</b> , 675, 94-101		17
311	Recent examples of $\beta$ -ketoglutarate-dependent mononuclear non-haem iron enzymes in natural product biosyntheses. <b>2018</b> , 35, 792-837		80
310	Oregano Essential Oil Attenuates RAW264.7 Cells from Lipopolysaccharide-Induced Inflammatory Response through Regulating NADPH Oxidase Activation-Driven Oxidative Stress. <b>2018</b> , 23,		22
309	Aminosugar-based immunomodulator lipid A: synthetic approaches. <b>2018</b> , 14, 25-53		15
308	Recognition of Lipopolysaccharide and Activation of NF- $\kappa$ B by Cytosolic Sensor NOD1 in Teleost Fish. <b>2018</b> , 9, 1413		37

307	Structure and inflammatory activity of the LPS isolated from <i>Acetobacter pasteurianus</i> CIP103108. <b>2018</b> , 119, 1027-1035	14
306	Insights into Heptosyltransferase I Catalysis and Inhibition through the Structure of Its Ternary Complex. <b>2018</b> , 26, 1399-1407.e5	11
305	Phage on Tap: A Quick and Efficient Protocol for the Preparation of Bacteriophage Laboratory Stocks. <b>2018</b> , 1838, 37-46	8
304	Sensitive method for endotoxin determination in nanomedicinal product samples. <b>2019</b> , 14, 1231-1246	8
303	Weak Agonistic LPS Restores Intestinal Immune Homeostasis. <b>2019</b> , 27, 1974-1991	29
302	Glutamyl cyclase inhibitor exhibits anti-inflammatory effects in both AD and LPS-induced inflammatory model mice. <b>2019</b> , 75, 105770	4
301	Roles of the Conserved Amino Acid Residues in Reduced Human Defensin 5: Cysteine and Arginine Are Indispensable for Its Antibacterial Action and LPS Neutralization. <b>2019</b> , 14, 1457-1465	5
300	Virulence factors of <i>Escherichia coli</i> : an overview of animal and human infections with emphasis in bovine mastitis. <b>2019</b> , 40, 2087	1
299	Surviving Sepsis: Tolerance Towards Bacteria and Their Cell Wall Components. <b>2019</b> , 159-175	
298	Immunobiology and application of toll-like receptor 4 agonists to augment host resistance to infection. <b>2019</b> , 150, 104502	20
297	Inactivation of Bacteria by Irradiation to Investigate the Interaction with Antimicrobial Peptides. <b>2019</b> , 117, 1805-1819	5
296	Bacterial resistance to antimicrobial peptides. <b>2019</b> , 25, e3210	18
295	Cytokine profiles of umbilical cord blood mononuclear cells upon in vitro stimulation with lipopolysaccharides of different vaginal gram-negative bacteria. <b>2019</b> , 14, e0222465	7
294	Simvastatin Nanoparticles Reduce Inflammation in LPS-Stimulated Alveolar Macrophages. <b>2019</b> , 108, 3890-3897	5
293	Self-Sterilizing Laser-Induced Graphene Bacterial Air Filter. <b>2019</b> , 13, 11912-11920	65
292	Oral cannabinoids in people living with HIV on effective antiretroviral therapy: CTN PT028-study protocol for a pilot randomised trial to assess safety, tolerability and effect on immune activation. <b>2019</b> , 9, e024793	20
291	Distinct Intramolecular Hydrogen Bonding Dictates Antimicrobial Action of Membrane-Targeting Amphiphiles. <b>2019</b> , 10, 754-760	12
290	Association of intestinal permeability with a NUTRIC score in critically ill patients. <b>2019</b> , 63-64, 1-8	3

289 Severe Trauma and Sepsis. **2019**,

288 Caffeoyloxy-5,6-dihydro-4-methyl-(2H)-pyran-2-one isolated from the leaves of *Olinia usambarensis* attenuates LPS-induced inflammatory mediators by inactivating AP-1 and NF- $\kappa$ B. **2019**, 309, 108718 1

287 Development of boronic acid-functionalized mesoporous silica-coated core/shell magnetic microspheres with large pores for endotoxin removal. **2019**, 1602, 91-99 6

286 The extracellular role of Ref-1 as anti-inflammatory function in lipopolysaccharide-induced septic mice. **2019**, 139, 16-23 7

285 Gene Polymorphisms and Susceptibility to Functional Dyspepsia: A Systematic Review and Meta-Analysis. **2019**, 2019, 3420548 3

284 The Inhibitory Role of M2000 (ED-Mannuronic Acid) on Expression of Toll-like Receptor 2 and 4 in HT29 Cell Line. **2019**, 13, 57-65 0

283 A highly sensitive endotoxin sensor based on redox cycling in a nanocavity. **2019**, 144, 3659-3667 9

282 Systemic LPS-induced A $\beta$ olubilization and clearance in ABP-transgenic mice is diminished by heparanase overexpression. **2019**, 9, 4600 6

281 The structure of lipopolysaccharide transport protein B (LptB) from *Burkholderia pseudomallei*. **2019**, 75, 227-232 1

280 Synergistic Association of House Endotoxin Exposure and Ambient Air Pollution with Asthma Outcomes. **2019**, 200, 712-720 19

279 Role of O-Antigen in Response to Mechanical Stress of the *E. coli* Outer Membrane: Insights from Coarse-Grained MD Simulations. **2019**, 123, 3567-3575 20

278 Effects of chlorination and combined UV/Cl treatment on endotoxin activity and inhalation toxicity of lipopolysaccharide, gram-negative bacteria and reclaimed water. **2019**, 155, 124-130 11

277 Impacts of chronic and increasing lipopolysaccharide exposure on production and reproductive parameters in lactating Holstein dairy cows. **2019**, 102, 3569-3583 4

276 Low Endotoxin Recovery-Masking of Naturally Occurring Endotoxin. *International Journal of Molecular Sciences*, **2019**, 20, 6.3 10

275 Development of a Novel Antibacterial Medicine that Targets a Characteristic Lipid of the Cell Membranes of *Helicobacter pylori*. **2019**,

274 The anti-inflammatory effects of formononetin and ononin on lipopolysaccharide-induced zebrafish models based on lipidomics and targeted transcriptomics. **2019**, 15, 153 16

273 Microbial translocation revisited: targeting the endotoxic potential of gut microbes in HIV-infected individuals. **2019**, 33, 645-653 8

272 cis-9, trans-11-Conjugated Linoleic Acid Exerts an Anti-inflammatory Effect in Bovine Mammary Epithelial Cells after *Escherichia coli* Stimulation through NF- $\kappa$ B Signaling Pathway. **2019**, 67, 193-200 10

271	Molecular and transcriptional insights into viperin protein from Big-belly seahorse ( <i>Hippocampus abdominalis</i> ), and its potential antiviral role. <b>2019</b> , 86, 599-607	11
270	XAV939, a Wnt/ $\beta$ -catenin pathway modulator, has inhibitory effects on LPS-induced inflammatory response. <b>2019</b> , 41, 394-402	7
269	Identification of thioredoxin domain-containing protein 17 from big-belly seahorse <i>Hippocampus abdominalis</i> : Molecular insights, immune responses, and functional characterization. <b>2019</b> , 86, 301-310	5
268	Molecular characterization of big-belly seahorse ( <i>Hippocampus abdominalis</i> ) arachidonate 5-lipoxygenase (HaALOX5): First evidence of an immune defensive role by induced immunological stress in teleost. <b>2019</b> , 86, 230-238	0
267	Human Toll-Like Receptor 4 (hTLR4): Structural and functional dynamics in cancer. <b>2019</b> , 122, 425-451	18
266	Lipids as Biomarkers of Cancer and Bacterial Infections. <b>2019</b> , 26, 1924-1932	6
265	Silencing astrocyte elevated gene-1 attenuates lipopolysaccharide-induced inflammation and mucosal barrier injury in NCM460 cells by suppressing the activation of NLRP3 inflammasome. <b>2019</b> , 43, 56-64	3
264	Homology modeling, docking and structure-based virtual screening for new inhibitor identification of heptosyltransferase-III. <b>2020</b> , 38, 1887-1902	18
263	Lipopolysaccharide inhibits GPR120 expression in macrophages via Toll-like receptor 4 and p38 MAPK activation. <b>2019</b> , 44, 89	5
262	Selenomethionine relieves inflammation in the chicken trachea caused by LPS though inhibiting the NF- $\kappa$ B pathway. <b>2020</b> , 194, 525-535	16
261	Structure and function of lipid A-modifying enzymes. <b>2020</b> , 1459, 19-37	11
260	Comparison of different zinc precursors for the construction of zeolitic imidazolate framework-8 artificial shells on living cells. <b>2020</b> , 16, 270-275	12
259	Adsorptive filtration: A case study for early impurity reduction in an <i>Escherichia coli</i> production process. <b>2020</b> , 36, e2948	6
258	Expression, subcellular localization, and potential antiviral function of three interferon regulatory factors in the big-belly seahorse ( <i>Hippocampus abdominalis</i> ). <b>2020</b> , 96, 297-310	2
257	Nanomaterials for Biosensing Lipopolysaccharide. <b>2019</b> , 10,	24
256	Class IIa HDAC inhibitor TMP195 alleviates lipopolysaccharide-induced acute kidney injury. <b>2020</b> , 319, F1015-F1026	12
255	Astilbe Chinensis ethanol extract suppresses inflammation in macrophages via NF- $\kappa$ B pathway. <b>2020</b> , 20, 302	5
254	Methods to Investigate Innate Immune Receptors and Their Carbohydrate-Based Ligands. <b>2020</b> , 127-147	

253	Impact of lipopolysaccharide administration on luteinizing hormone/choriogonadotropin receptor (Lhcgr) expression in mouse ovaries. <b>2020</b> , 142, 103193		3
252	Simultaneous Ultrasensitive Detection and Elimination of Drug-Resistant Bacteria by Cyclometalated Iridium(III) Complexes. <b>2020</b> , 12, 35967-35976		16
251	Identification and structural characterization of lipid A from Escherichia coli, Pseudomonas putida and Pseudomonas taiwanensis using liquid chromatography coupled to high-resolution tandem mass spectrometry. <b>2020</b> , 34, e8897		2
250	Bacterial Endotoxin Testing-Fast Endotoxin Masking Kinetics in the Presence of Lauryldimethylamine Oxide. <b>2020</b> , 8,		1
249	Lipopolysaccharide Recognition in the Crossroads of TLR4 and Caspase-4/11 Mediated Inflammatory Pathways. <b>2020</b> , 11, 585146		22
248	Toll-Like Receptor-4 Is Involved in Mediating Intestinal and Extra-Intestinal Inflammation in -Infected Secondary Abiotic IL-10 Mice. <b>2020</b> , 8,		2
247	Molecular expression analysis and characterization of rockfish (Sebastes schlegelii) B cell activating factor. <b>2020</b> , 250, 110480		3
246	Pairing LPS Structure with Its Immunomodulatory Effects on Human Cellular Models. <b>2020</b> , 6, 1602-1616		23
245	Synthesis of monophosphorylated lipid A precursors using 2-naphthylmethyl ether as a protecting group. <b>2020</b> , 16, 1955-1962		0
244	Characterization of Free Fatty Acid Receptor 4 and Its Involvement in Nutritional Control and Immune Response in Pacific Oysters (). <b>2020</b> , 5, 21355-21363		0
243	Self-Competitive Inhibition of the Bacteriophage P22 Tailspike Endorhamnosidase by O-Antigen Oligosaccharides. <b>2020</b> , 59, 4845-4855		1
242	Effect of maternal organic selenium supplementation during pregnancy on sow reproductive performance and long-term effect on their progeny. <b>2020</b> , 98,		5
241	Unique responses of Helicobacter pylori to exogenous hydrophobic compounds. <b>2020</b> , 229, 104908		2
240	Elevated amyloidoses of human IAPP and amyloid beta by lipopolysaccharide and their mitigation by carbon quantum dots. <i>Nanoscale</i> , <b>2020</b> , 12, 12317-12328	7.7	15
239	Root Extracts From Inhibit IL-8 Release Interactions With Toll-Like Receptor 4 and Lipopolysaccharide. <i>Frontiers in Pharmacology</i> , <b>2020</b> , 11, 889	5.6	3
238	Complex Regulatory Role of the TRPA1 Receptor in Acute and Chronic Airway Inflammation Mouse Models. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	6
237	Liquid Chromatography/Electrospray Ionization Tandem Mass Spectrometry-based Structural Analysis of Deacylated Lipooligosaccharides From Escherichia coli. <b>2020</b> , 41, 454-459		1
236	Influence of disulfide bonds in human beta defensin-3 on its strain specific activity against Gram-negative bacteria. <b>2020</b> , 1862, 183273		7

235	COX-2 in liver fibrosis. <b>2020</b> , 506, 196-203		15
234	Preparation and characterization of lipopolysaccharide (LPS) monolayers for investigating their role in bacterial adhesion. <b>2020</b> , 29, 895-900		
233	Effect of positive charges in the structural interaction of crabroline isoforms with lipopolysaccharide. <b>2020</b> , 26, e3271		5
232	Synthesis of bioactive lipid A and analogs. <b>2020</b> , 51-102		
231	IGF1 inclusion bodies: A QbD based process approach for efficient USP as well as early DSP unit operations. <b>2020</b> , 312, 23-34		2
230	Biochemical interactions between LPS and LPS-binding molecules. <b>2020</b> , 40, 292-305		9
229	Recent Advances in Lipopolysaccharide Recognition Systems. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	65
228	Army Liposome Formulation (ALF) family of vaccine adjuvants. <b>2020</b> , 19, 279-292		34
227	NACE-ESI-MS/MS method for separation and characterization of phosphorylation and acylation isomers of lipid A. <b>2020</b> , 41, 1178-1188		3
226	O176 LPS structure and dynamics: A NMR spectroscopy and MD simulation study. <b>2020</b> , 2, 79-88		5
225	Resveratrol-loaded biopolymer core-shell nanoparticles: bioavailability and anti-inflammatory effects. <i>Food and Function</i> , <b>2020</b> , 11, 4014-4025	6.1	14
224	TLR4-MyD88 signaling pathway is responsible for acute lung inflammation induced by reclaimed water. <b>2020</b> , 396, 122586		8
223	Octomycin Inhibits LPS-Induced Chemokine and Pro-inflammatory Cytokine Secretion from RAW 264.7 Macrophages via Blocking TLRs/NF- $\kappa$ B Signal Transduction. <b>2020</b> , 10,		13
222	Identification of novel anti-inflammatory peptides from bee pollen ( <i>Apis mellifera</i> ) hydrolysate in lipopolysaccharide-stimulated RAW264.7 macrophages. <b>2021</b> , 60, 280-289		10
221	Outer membrane vesicles: moving within the intricate labyrinth of assays that can predict risks of reactogenicity in humans. <b>2021</b> , 17, 601-613		7
220	Aggregation-induced emission active metal complexes: a promising strategy to tackle bacterial infections. <b>2021</b> , 57, 174-186		13
219	Genomic Organization and Transcriptional Regulation of Two Homologous Fucoselectin Genes AjFTL-1 and AjFTL-2 in <i>Apostichopus japonicus</i> . <b>2021</b> , 20, 189-197		
218	GmhB enzyme involved in ADP-heptose biosynthesis pathway is essential for lipopolysaccharide biosynthesis and bacterial virulence. <b>2021</b> , 12, 1610-1628		1

217	Animal Models in the Evaluation of the Effectiveness of Phage Therapy for Infections Caused by Gram-Negative Bacteria from the ESKAPE Group and the Reliability of Its Use in Humans. <b>2021</b> , 9,	8
216	Ruminal Lipopolysaccharides Analysis: Uncharted Waters with Promising Signs. <b>2021</b> , 11,	3
215	Isoimperatorin exerts anti-inflammatory activity by targeting the LPS-TLR4/MD-2-NF- $\kappa$ B pathway. <b>2021</b> , 19, 205873922110005	3
214	Lipid larceny: channelizing host lipids for establishing successful pathogenesis by bacteria. <b>2021</b> , 12, 195-216	3
213	Gut Microbiome-Based Analysis of Lipid A Biosynthesis in Individuals with Autism Spectrum Disorder: An In Silico Evaluation. <b>2021</b> , 13,	5
212	Chemical Highlights Supporting the Role of Lipid A in Efficient Biological Adaptation of Gram-Negative Bacteria to External Stresses. <b>2021</b> , 64, 1816-1834	1
211	Advances in Understanding of the Copper Homeostasis in. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3 3
210	TLR Agonists as Mediators of Trained Immunity: Mechanistic Insight and Immunotherapeutic Potential to Combat Infection. <b>2020</b> , 11, 622614	24
209	Deep-sea microbes as tools to refine the rules of innate immune pattern recognition. <b>2021</b> , 6,	3
208	Lipopolysaccharide Preparation Derived From Induces a Weaker Immuno-Inflammatory Response in BV-2 Microglial Cells Than by Differentially Activating TLR2/4-Mediated NF- $\kappa$ B/STAT3 Signaling Pathways. <b>2021</b> , 11, 606986	6
207	Phosphorylated-myosin light chain mediates the destruction of small intestinal epithelial tight junctions in mice with acute liver failure. <b>2021</b> , 23,	1
206	Effects of Cordyceps militaris Extracts on Macrophage as Immune Conductors. <b>2021</b> , 11, 2206	1
205	A short review, effect of dimethyl- $\beta$ -cyclodextrin on the interaction between and steroidal compounds. <b>2021</b> , 7, e06767	1
204	Inhibitory Activities of Ononin on Particulate Matter-induced Oxidative Stress. <b>2021</b> , 26, 208-215	5
203	In Vitro Models for Studying Respiratory Host-Pathogen Interactions. <b>2021</b> , 5, e2000624	5
202	Recombinant bacterial endotoxin testing: a proven solution. <b>2021</b> , 70, 290-300	1
201	Oral Mutant as a Carrier for a $\beta$ -Based Vaccine for Prevention and Reversal of Type 1 Diabetes. <b>2021</b> , 12, 667897	0
200	Regulation of Bone Cell Differentiation and Activation by Microbe-Associated Molecular Patterns. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3 3



199	Effect of Dietary Fatty Acids on MicroRNA Expression Related to Metabolic Disorders and Inflammation in Human and Animal Trials. <b>2021</b> , 13,	1
198	Weiterführende Literatur. <b>2021</b> , 169-179	
197	Miniaturization, Parallelization, and Automation of Endotoxin Detection by Centrifugal Microfluidics. <b>2021</b> , 93, 8508-8516	1
196	Research progress on Toll-like receptor signal transduction and its roles in antimicrobial immune responses. <b>2021</b> , 105, 5341-5355	4
195	Development of Immunoassays for Detection of Lipopolysaccharide in Tularemia Patient Samples. <b>2021</b> , 10,	2
194	A Journey from Structure to Function of Bacterial Lipopolysaccharides. <b>2021</b> ,	13
193	Effect of different sample treatment methods on Low Endotoxin Recovery Phenomenon. <b>2021</b> , 186, 106241	1
192	Preclinical Cancer Theranostics From Nanomaterials to Clinic: The Missing Link. <b>2021</b> , 31, 2104199	3
191	Endotoxin contamination of engineered nanomaterials: Overcoming the hurdles associated with endotoxin testing. <b>2021</b> , 13, e1738	3
190	GMMA-Based Vaccines: The Known and The Unknown. <b>2021</b> , 12, 715393	3
189	Impact of Gut Microbiota and Microbiota-Related Metabolites on Hyperlipidemia. <b>2021</b> , 11, 634780	9
188	Low endotoxin recovery and its impact on endotoxin detection. <b>2021</b> , 112, e23470	0
187	Gut Microbiota: Novel Therapeutic Target of Ginsenosides for the Treatment of Obesity and Its Complications. <i>Frontiers in Pharmacology</i> , <b>2021</b> , 12, 731288	5.6 2
186	Molecular characterization and immune regulatory, antioxidant, and antiapoptotic activities of thioredoxin domain-containing protein 17 (TXNDC17) in yellowtail clownfish ( <i>Amphiprion clarkii</i> ). <b>2021</b> , 115, 75-85	1
185	Synthetic Glycolipids as Molecular Vaccine Adjuvants: Mechanism of Action in Human Cells and In Vivo Activity. <b>2021</b> , 64, 12261-12272	2
184	A Combination Extract of Gardeniae Fructus and Perillae Folium Exerts Anti-Inflammatory Effects on LPS-Activated RAW 264.7 Mouse Macrophages via an ER Stress-Induced CHOP Pathway. <b>2021</b> , 9, 1632	2
183	Comparison of methods for purification of bacteriophage lysates of gram-negative bacteria for personalized therapy. <b>2021</b> ,	
182	Implications for the role of lipopolysaccharide in the development of atherosclerosis. <b>2021</b> ,	4



181	Immune responses, subcellular localization, and antiviral activity of interferon-induced protein 35 (IFP35) in rock bream ( <i>Oplegnathus fasciatus</i> ). <b>2021</b> , 123, 104142	1
180	Anti-Inflammatory Action and Mechanisms of Resveratrol. <b>2021</b> , 26,	41
179	Natural and synthetic carbohydrate-based vaccine adjuvants and their mechanisms of action. <b>2021</b> , 1-20	41
178	The Genera <i>Proteus</i> , <i>Providencia</i> , and <i>Morganella</i> . <b>2006</b> , 245-269	35
177	Severe Sepsis and Septic Shock. <b>2008</b> , 287-304	1
176	Conformation and supramolecular structure of lipid A. <b>2010</b> , 667, 25-38	11
175	Endotoxin Antagonists. <b>2000</b> , 492-500	1
174	Structure and mechanism of aldehyde reductase. <b>1995</b> , 372, 193-201	16
173	Cloning and characterization of a murine platelet-activating factor receptor gene. <b>1997</b> , 407, 347-55	1
172	Genetic analysis of resistance to infections in mice: A/J meets C57BL/6J. <b>2008</b> , 321, 27-57	19
171	Mikrobielle Pathogenitätsfaktoren und Virulenzmechanismen. <b>2004</b> , 4-24	1
170	Chemical Biology and Biomedicine: Glycolipids and Glycosphingolipids. <b>2001</b> , 2183-2249	5
169	Endotoxin-based molecular strategies for the prevention and treatment of gram-negative sepsis and septic shock. <b>1996</b> , 216, 275-97	10
168	Antibody Recognition of <i>Chlamydia</i> LPS: Structural Insights of Inherited Immune Responses. <b>2012</b> , 75-120	10
167	Mechanisms regulating airway nucleotides. <b>2011</b> , 55, 17-49	9
166	Lipopolysaccharides and K-Antigens: Their Structures, Biosynthesis, and Functions. <b>1998</b> , 119-154	61
165	Molecular mechanisms of endotoxin activity. <b>1995</b> , 164, 383	43
164	Bacterial lipopolysaccharide has structural similarity to ceramide and stimulates ceramide-activated protein kinase in myeloid cells. <b>1994</b> , 269, 17606-17610	106

163	Heparin and enoxaparin enhance endotoxin-induced tumor necrosis factor-alpha production in human monocytes. <b>1999</b> , 229, 542-50	21
162	CD14 is not involved in <i>Rhodobacter sphaeroides</i> diphosphoryl lipid A inhibition of tumor necrosis factor alpha and nitric oxide induction by taxol in murine macrophages. <b>1995</b> , 63, 486-97	31
161	Lipopolysaccharides of <i>Actinobacillus pleuropneumoniae</i> bind pig hemoglobin. <b>1995</b> , 63, 656-62	41
160	Endotoxin activates human vascular smooth muscle cells despite lack of expression of CD14 mRNA or endogenous membrane CD14. <b>1995</b> , 63, 1020-6	90
159	Binding of lipopolysaccharide (LPS) to an 80-kilodalton membrane protein of human cells is mediated by soluble CD14 and LPS-binding protein. <b>1995</b> , 63, 2576-80	41
158	Glycosphingolipids from <i>Sphingomonas paucimobilis</i> induce monokine production in human mononuclear cells. <b>1995</b> , 63, 2899-905	33
157	The inflammatory cytokine response to <i>Chlamydia trachomatis</i> infection is endotoxin mediated. <b>1995</b> , 63, 3125-30	141
156	Induction of alpha/beta interferon and dependent nitric oxide synthesis during <i>Chlamydia trachomatis</i> infection of McCoy cells in the absence of exogenous cytokine. <b>1996</b> , 64, 3951-6	31
155	Potent CD14-mediated signalling of human leukocytes by <i>Escherichia coli</i> can be mediated by interaction of whole bacteria and host cells without extensive prior release of endotoxin. <b>1996</b> , 64, 3592-600	30
154	Release of lipopolysaccharide from intracellular compartments containing <i>Salmonella typhimurium</i> to vesicles of the host epithelial cell. <b>1997</b> , 65, 24-34	70
153	A novel component different from endotoxin extracted from <i>Prevotella intermedia</i> ATCC 25611 activates lymphoid cells from C3H/HeJ mice and gingival fibroblasts from humans. <b>1997</b> , 65, 4531-8	25
152	Similarities and disparities between core-specific and O-side-chain-specific antilipopolysaccharide monoclonal antibodies in models of endotoxemia and bacteremia in mice. <b>1997</b> , 65, 811-4	14
151	Role of CD14 molecules in internalization of <i>Actinobacillus actinomycetemcomitans</i> by macrophages and subsequent induction of apoptosis. <b>1997</b> , 65, 1147-51	33
150	<i>Pseudomonas aeruginosa</i> lipopolysaccharide binds galectin-3 and other human corneal epithelial proteins. <b>1997</b> , 65, 2747-53	93
149	A nonsubstituted primary hydroxyl group in position 6Nbf free lipid A is required for binding of lipid A monoclonal antibodies. <b>1997</b> , 65, 3961-5	20
148	Endotoxin-neutralizing protein protects against endotoxin-induced endothelial barrier dysfunction. <b>1998</b> , 66, 1400-7	19
147	Nuclear translocation of NF-kappaB in lipopolysaccharide-treated macrophages fails to correspond to endotoxicity: evidence suggesting a requirement for a gamma interferon-like signal. <b>1998</b> , 66, 1638-47	23
146	Low endotoxic potential of <i>Legionella pneumophila</i> lipopolysaccharide due to failure of interaction with the monocyte lipopolysaccharide receptor CD14. <b>1998</b> , 66, 4151-7	52

145	alpha-GlcNAc-1-->2-alpha-glc, the Salmonella homologue of a conserved lipopolysaccharide motif in the Enterobacteriaceae, elicits broadly cross-reactive antibodies. <b>1998</b> , 66, 4389-96	10
144	Examination of early interactions between Haemophilus ducreyi and host cells by using cocultured HaCaT keratinocytes and foreskin fibroblasts. <b>1999</b> , 67, 5352-60	10
143	Activity of monosaccharide lipid A analogues in human monocytic cells as agonists or antagonists of bacterial lipopolysaccharide. <b>1999</b> , 67, 6286-92	35
142	Induction of cytokines and chemokines in human monocytes by Mycoplasma fermentans-derived lipoprotein MALP-2. <b>1999</b> , 67, 6303-8	72
141	Escherichia coli msbB gene as a virulence factor and a therapeutic target. <b>1999</b> , 67, 6583-90	79
140	Autoregulatory effect of interleukin-10 on proinflammatory cytokine production by Porphyromonas gingivalis lipopolysaccharide-tolerant human monocytes. <b>1999</b> , 67, 2153-9	26
139	The internalization time course of a given lipopolysaccharide chemotype does not correspond to its activation kinetics in monocytes. <b>1999</b> , 67, 2515-21	15
138	Structures in Bacillus subtilis are recognized by CD14 in a lipopolysaccharide binding protein-dependent reaction. <b>1999</b> , 67, 2964-8	39
137	Bacterial lipopolysaccharide inhibits dengue virus infection of primary human monocytes/macrophages by blockade of virus entry via a CD14-dependent mechanism. <b>1999</b> , 73, 2650-7	110
136	Potential virulence factors of Proteus bacilli. <b>1997</b> , 61, 65-89	73
135	Bacterial modulins: a novel class of virulence factors which cause host tissue pathology by inducing cytokine synthesis. <b>1996</b> , 60, 316-41	318
134	Local venous responses to endotoxin in humans. <b>1996</b> , 94, 490-7	36
133	Pseudomonas aeruginosa LPS or flagellin are sufficient to activate TLR-dependent signaling in murine alveolar macrophages and airway epithelial cells. <b>2009</b> , 4, e7259	119
132	rBPI(21) promotes lipopolysaccharide aggregation and exerts its antimicrobial effects by (hemi)fusion of PG-containing membranes. <b>2009</b> , 4, e8385	66
131	The lipid-bound apolipoprotein A-I cysteine mutant (N74C) inhibits the activation of NF- $\kappa$ B, JNK and p38 in endotoxemic mice and RAW264.7 cells. <b>2012</b> , 7, e51327	3
130	Tetra- and penta-acylated lipid A structures of Porphyromonas gingivalis LPS differentially activate TLR4-mediated NF- $\kappa$ B signal transduction cascade and immuno-inflammatory response in human gingival fibroblasts. <b>2013</b> , 8, e58496	116
129	Characterization of the structure and immunostimulatory activity of a vaccine adjuvant, de-O-acylated lipooligosaccharide. <b>2014</b> , 9, e85838	14
128	Salmonella enterica serovar Typhimurium $\Phi$ sbB triggers exacerbated inflammation in Nod2 deficient mice. <b>2014</b> , 9, e113645	11

127	A Complete Pathway Model for Lipid A Biosynthesis in Escherichia coli. <b>2014</b> , 10, e0121216	45
126	Detection of Endotoxin Contamination of Graphene Based Materials Using the TNF- $\alpha$ Expression Test and Guidelines for Endotoxin-Free Graphene Oxide Production. <b>2016</b> , 11, e0166816	58
125	Lipopolysaccharide of Pantoea agglomerans 9649: Chemical Identification and Biological Activity. <b>2018</b> , 80, 56-66	1
124	Avaliação de pirogênios em produtos de uso veterinário pelos testes da hipertermia em coelhos e do lisado de amebócitos do Limulus. <b>2007</b> , 37, 190-194	1
123	Basic fibroblast growth factor selectively enhances TNF-alpha-induced apoptotic cell death in glomerular endothelial cells: effects on apoptotic signaling pathways. <b>2000</b> , 11, 2199-2211	23
122	Lipopolysaccharide-coated CuS nanoparticles promoted anti-cancer and anti-metastatic effect by immuno-photothermal therapy. <b>2017</b> , 8, 105584-105595	15
121	Importance of the residue 190 on bactericidal activity of the bactericidal/permeability-increasing protein 5. <b>2016</b> , 7, 43088-43094	2
120	Cell preparation methods influence Escherichia coli D21g surface chemistry and transport in saturated sand. <b>2008</b> , 37, 2108-15	15
119	Anti-endotoxin agents. 2. Pilot high-throughput screening for novel lipopolysaccharide-recognizing motifs in small molecules. <b>2004</b> , 7, 733-47	23
118	Anti-endotoxin agents. 1. Development of a fluorescent probe displacement method optimized for the rapid identification of lipopolysaccharide-binding agents. <b>2004</b> , 7, 239-49	51
117	Membrane-permeabilizing activity of reverse-amide 2-aminoimidazole antibiofilm agents against Acinetobacter baumannii. <b>2015</b> , 12, 223-30	8
116	Biophysical mechanisms of the neutralization of endotoxins by lipopolyamines. <b>2013</b> , 7, 82-93	6
115	How does bacterial endotoxin influence gonadoliberein/gonadotropins secretion and action?. <b>2016</b> , 25, 283-291	5
114	Gut-Derived Bacterial Toxins (Endotoxin) and Alcoholic Liver Disease. <b>2001</b> , 369-386	10
113	A Genetic Variant of the CD14 C-159T in Patients with Functional Dyspepsia (FD) in Japanese Subjects. <b>2008</b> , 42, 104-10	8
112	Polycystic kidney disease: an unrecognized emerging infectious disease?. <b>1997</b> , 3, 113-27	12
111	Toll-Like Receptor-4 Dependent Intestinal and Systemic Sequelae Following Peroral Infection of IL10 Deficient Mice Harboring a Human Gut Microbiota. <b>2020</b> , 9,	5
110	Structural modifications of Helicobacter pylori lipopolysaccharide: an idea for how to live in peace. <b>2014</b> , 20, 9882-97	37

- 109 Gene polymorphisms associated with functional dyspepsia. **2015**, 21, 7672-82 24
- 108 Effects of Early Enteral Glutamine Supplementation on Intestinal Permeability in Critically Ill Patients. **2019**, 23, 356-362 5
- 107 Transduced Tat-Annexin protein suppresses inflammation-associated gene expression in lipopolysaccharide (LPS)-stimulated Raw 264.7 cells. **2011**, 44, 484-9 15
- 106 The Effect of Cordycepin on the Production of Pro-inflammatory Cytokines in Mouse Peritoneal Macrophages. **2014**, 46, 68-72 3
- 105 Study on the pathogenesis of liver injury caused by alcohol and drugs. **2021**, 17, 319-323 1
- 104 Electrochemical Immunoassay with Dual-Signal Amplification for Redox Cycling within a Nanoscale Gap. 1
- 103 Some Pathways of Carbohydrate Metabolism. **2001**, 1129-1179
- 102 Treatment of Sepsis and Endotoxemia by Extracorporeal Endotoxin Adsorption with Immobilised Human Serum Albumin. **2001**, 103-109
- 101 Lipids, Membranes, and Cell Coats. **2001**, 379-453
- 100 Endotoxin. **2004**, 183-249
- 99 MMP and TIMP production in periodontal ligament fibroblasts stimulated by *Prevotella nigrescens* lipopolysaccharide. **2005**, 30, 372 1
- 98 New Approach of Lipopolysaccharide Derived from Dietary-Experienced Gram-Negative Bacteria (IP-PA1) Based on the Macrophage-Network. **2007**, 4, 79-90 1
- 97 Innate Immunity. **2009**, 19-35
- 96 El Lipopolisacido. **2010**, 37-45 0
- 95 A Study on the Inhibitory Effect and Mechanism of *Lonicera Japonica* on Type I Interferon. **2013**, 26, 17-32 7
- 94 Sepsis [Multiorganversagen. **1995**, 51-136
- 93 Der Einfluss experimenteller Stimulation der primären Wirtsantwort auf den Schlaf des Menschen. **1996**, 751-754
- 92 An Idiotype Vaccine Against Gram-Negative Bacterial Sepsis. **1997**, 357-368

91 Immunosuppression und abdominale Sepsis. **1997**, 217-224

90 Therapy of Sepsis Syndrome with Human Polyclonal IgM-Enriched Immunoglobulins: Interim Analysis of a Randomized Trial in Neutropenic Cancer Patients. **1997**, 977-982

89 Endotoxin scavengers as a therapeutic strategy for sepsis. **1999**, 247-260

88 Lipopolysaccharide signaling pathways and their role in the development of the systemic inflammatory response syndrome. **1999**, 37-56

87 Comprehensive Review of Endotoxin Level Reported in Metalworking Operations. **2014**, 24, 405-415

86 Natūalus imunitetas atavistiniam endotoksinui eksperimentinė onkologijoje ir ėhogaus vėžio profilaktikoje (naujos koncepcijos apvalga). **2015**, 21, 430-437

85 Suppressive Effects of Epigallocatechin Gallate Pretreatment on the Expression of Inflammatory Cytokines in RAW264.7 Cells Activated by Lipopolysaccharide. **2015**, 25, 961-969

84 Serogroup-specific interactions of lipopolysaccharides with supported lipid bilayer assemblies. **2017**,

83 Lipopolysaccharide of Pantoea agglomerans 7604: Chemical Identification and Biological Activity. **2017**, 79, 23-33

82 Effect of Diclofenac on Hematological Parameters and Inflammatory Markers in Rat after Injection of Escherichia coli Lipopolysaccharide. **2018**, 6, 79-82

81 Diterpenoid Compounds Isolated from Solms Exert Anti-Inflammatory Effects by Inhibiting the IKK/NF- $\kappa$ B Pathway. **2021**, 26,

1

80 Phenotypic and Functional Responses of Human Decidua Basalis Mesenchymal Stem/Stromal Cells to Lipopolysaccharide of Gram-Negative Bacteria. **2021**, 14, 51-69

1

79 Development of a Gold Nanoparticle-Based Colorimetric Sensor for Water for Injection At-Line Impurity Testing. **2021**, 26, 218-224

78 Extracellular histones stimulate collagen expression and promote liver fibrogenesis in a mouse model the TLR4-MyD88 signaling pathway. **2020**, 26, 7513-7527

3

77 Refractory gram-negative septic shock complicated by extended purpura fulminans and multiple organ failure in a 23-year-old puerpera -a case report. **2021**, 74, 266-270

76 Specificity and Neutralizing Properties of Cross-Reactive Anti-Core LPS Monoclonal Antibodies. **2020**, 633-642

75 Extracellular histones stimulate collagen expression and potentially promote liver fibrogenesis via TLR4-MyD88 signalling pathway.

74 Dephosphorylation of endotoxin by alkaline phosphatase in vivo. **1997**, 151, 1163-9

123

73	Biomechanical aspects of the auto-digestion theory. <b>2008</b> , 5, 83-95	7
72	Protective effect of bone marrow derived mesenchymal stem cells in lipopolysaccharide-induced acute lung injury mediated by claudin-4 in a rat model. <b>2016</b> , 8, 3769-3779	9
71	Phage Therapy: Future Inquiries. <b>2013</b> , 1, 24-35	5
70	Gastrointestinal (GI)-Tract Microbiome Derived Neurotoxins and their Potential Contribution to Inflammatory Neurodegeneration in Alzheimer's Disease (AD). <b>2021</b> , 11,	1
69	PDI family thioredoxin from disk abalone ( <i>Haliotis discus discus</i> ): Responses to stimulants (PAMPs, bacteria, and viral) and functional characterization. <b>2021</b> , 120, 261-270	0
68	High-Fat, Western-Style Diet, Systemic Inflammation, and Gut Microbiota: A Narrative Review. <b>2021</b> , 10,	20
67	CircNFIC Balances Inflammation and Apoptosis by Sponging miR-30e-3p and Regulating DENND1B Expression. <b>2021</b> , 12,	0
66	Human Antimicrobial Peptide Triggered Colloidal Transformations in Bacteria Membrane Lipopolysaccharides. <b>2021</b> , e2104211	1
65	A critical analysis of research methods and experimental models to study pulpitis.. <b>2022</b> ,	1
64	The Role of Lipopolysaccharide-Induced Cell Signalling in Chronic Inflammation.. <b>2022</b> , 6, 247054702210763907	7
63	Neonatal hypoxia ischemia redistributes L1 cell adhesion molecule into rat cerebellar lipid rafts.. <b>2022</b> ,	1
62	Molecular Mechanisms of Lipopolysaccharide (LPS) Induced Inflammation in an Immortalized Ovine Luteal Endothelial Cell Line (OLENDO).. <b>2022</b> , 9,	1
61	Graduate Student Literature Review: Systemic mediators of inflammation during mastitis and the search for mechanisms underlying impaired lactation.. <b>2021</b> ,	0
60	Machine learning classification of bacterial species using mix-and-match reagents on paper microfluidic chips and smartphone-based capillary flow analysis.. <b>2022</b> , 1	
59	Synergistic enhancement of rat intestinal alkaline phosphatase activity by taurine and sodium butyrate protects against endotoxin-induced bowel inflammation.. <b>2022</b> , e14123	
58	Periodontitis and cardiometabolic disorders: The role of lipopolysaccharide and endotoxemia.. <b>2022</b> ,	3
57	Eggs Polysaccharide Enhances Macrophage Phagocytosis Against Infection by TLR4/STAT3 Axis.. <i>Frontiers in Pharmacology</i> , <b>2022</b> , 13, 807440	5.6
56	Identification and comparison of somatic antigen composition for bacteria from <i>Providencia</i> genus.	

55 Gynecological and surgical sepsis. 382-398

54 Image\_1.PDF. **2018**,

53 DataSheet\_1.xlsx. **2020**,

52 Image\_1.pdf. **2020**,

51 The gut microbiome and cardiac surgery an unusual symphony.. **2022**, 2676591221097219

50 Single-cell transcriptomic and chromatin accessibility analyses of dairy cattle peripheral blood mononuclear cells and their responses to lipopolysaccharide.. **2022**, 23, 338 0

49 The monocyte activation test detects potentiated cytokine release resulting from the synergistic effect of endotoxin and non-endotoxin pyrogens.. **2022**, 17534259221097948 0

48 NEW STRAIN OF MUTANT MICE CHARACTERIZED BY SELECTIVE RESISTANCE TO ONE OF TWO SEPTIC SHOCK PROTOCOLS. *Russian Journal of Immunology: RJI: Official Journal of Russian Society of Immunology*, **2020**, 23, 27-34 0.1 1

47 Differentiation and classification of bacterial endotoxins based on surface enhanced Raman scattering and advanced machine learning. *Nanoscale*, 7.7 2

46 Lipidomic change in *Aedes aegypti* female following blood feeding reveals similar changes in functionally related lipids.

45 Effects of Intestinal FXR-Related Molecules on Intestinal Mucosal Barriers in Biliary Tract Obstruction. *Frontiers in Pharmacology*, 13, 5.6 0

44 Potentialities of Ginkgo extract on toxicants, toxins, and radiation: a critical review. *Food and Function*, 6.1 1

43 Flagellotropic Bacteriophages: Opportunities and Challenges for Antimicrobial Applications. *International Journal of Molecular Sciences*, **2022**, 23, 7084 6.3 1

42 Lipid Transport Across Bacterial Membranes. *Annual Review of Cell and Developmental Biology*, **2022**, 38, 12.6 1

41 Increased arginine, lysine, and methionine levels can improve the performance, gut integrity and immune status of turkeys but the effect is interactive and depends on challenge conditions. *Veterinary Research*, **2022**, 53, 3.8 0

40 Host and Species-Specificities of Pattern Recognition Receptors Upon Infection With *Leptospira interrogans*. 12, 0

39 Structural determination of the lipid A from the deep-sea bacterium *Zunongwangia profunda* SM-A87: a small-scale approach. 0

38 Brain region-specific microglial and astrocytic activation in response to systemic lipopolysaccharides exposure. 14, 1



- 37 Intranasal instillation of *Pasteurella multocida* lipopolysaccharide in rabbits causes interstitial lung damage. **2022**, 152, 115-126
- 36 Contributions of *Neisseria meningitidis* LPS and non-LPS to proinflammatory cytokine response. **2001**, 70, 283-288 13
- 35 Effects of different levels of rutin on growth performance, immunity, intestinal barrier and antioxidant capacity of broilers. **2022**, 21, 1390-1401 0
- 34 Prospective lipid-A altered live attenuated *Salmonella Gallinarum* confers protectivity, DIVA capability, safety and low endotoxicity against fowl typhoid. **2022**, 274, 109572 0
- 33 Effect of repeated intrauterine infusion of lipopolysaccharides on mastitis in goats. **2022**, 193, 87-92 0
- 32 *Bacteroides thetaiotaomicron* rough-type lipopolysaccharide: The chemical structure and the immunological activity. **2022**, 297, 120040 2
- 31 Breaking down the cell wall: Still an attractive antibacterial strategy. 13, 0
- 30 Infection, learning, and memory: Focus on immune activation and aversive conditioning. **2022**, 142, 104898 0
- 29 *Astragalus* polysaccharides protect against inactivated *Vibrio alginolyticus*-induced inflammatory injury in macrophages of large yellow croaker. **2022**, 131, 95-104 0
- 28 Advanced Recombinant Cascade Reagent PyroSmart NextGen<sup>®</sup> for Bacterial Endotoxins Test as Described in the Pharmacopeias. **2022**, 5, 105-114 0
- 27 Antiproliferative effects of resveratrol and indole-3-carbinol in HPV-associated diseases prevention. **2022**, 151-159 0
- 26 HSC-Derived Fatty Acid Oxidation in Steady-State and Stressed Hematopoiesis. **2022**, 0
- 25 Impairments of intestinal arginine and NO metabolisms trigger aging-associated intestinal barrier dysfunction and ‘inflammaging’. **2022**, 102528 0
- 24 Fluorescence Detection of Endotoxin Using Cadmium Complexed with Dipicolylamine-type Pyrene Probe. **2022**, 33, 95-99 0
- 23 Lipopolysaccharide Structure and the Phenomenon of Low Endotoxin Recovery. **2022**, 180, 289-307 1
- 22 Identification of Bcl2 as a Stably Expressed qPCR Reference Gene for Human Colon Cancer Cells Treated with Cottonseed-Derived Gossypol and Bioactive Extracts and Bacteria-Derived Lipopolysaccharides. **2022**, 27, 7560 2
- 21 Tryptophan metabolism can modulate immunologic tolerance in primitive vertebrate lamprey via IDO-kynurenine-AHR pathway. **2023**, 132, 108485 0
- 20 Advanced theragnostics for the central nervous system (CNS) and neurological disorders using functional inorganic nanomaterials. **2023**, 192, 114636 0

19	Thioredoxin domain-containing protein 12 (TXNDC12) in red spotted grouper ( <i>Epinephelus akaara</i> ): Molecular characteristics, disulfide reductase activities, and immune responses. <b>2022</b> , 108449	0
18	The Neuroprotective and Antioxidant Effects of Nanocurcumin Oral Suspension against Lipopolysaccharide-Induced Cortical Neurotoxicity in Rats. <b>2022</b> , 10, 3087	0
17	In vitro and in vivo anti-osteoarthritis effects of tradition Chinese prescription Ji-Ming-San. <b>2022</b> , 116084	0
16	Activation-Induced Resistance of Human Macrophages to HIV-1 Infection In Vitro. <b>1999</b> , 162, 400-406	10
15	Activation of STAT5 by Lipopolysaccharide Through Granulocyte-Macrophage Colony-Stimulating Factor Production in Human Monocytes. <b>1998</b> , 160, 838-845	8
14	Characterization of Human Endotoxin Lipopolysaccharide Receptor CD14 Expression in Transgenic Mice. <b>1999</b> , 162, 503-509	6
13	Endocytosis of Heparin-Binding Protein (CAP37) Is Essential for the Enhancement of Lipopolysaccharide-Induced TNF- $\alpha$ Production in Human Monocytes. <b>1999</b> , 162, 4240-4245	4
12	Lysosomal Accumulation and Recycling of Lipopolysaccharide to the Cell Surface of Murine Macrophages, an In Vitro and In Vivo Study. <b>1999</b> , 162, 6784-6791	8
11	The Oligosaccharide Region of LPS Governs Predation of <i>E. coli</i> by the Bacterivorous Protist, <i>Acanthamoeba castellanii</i> .	0
10	Therapeutic Targeting of TLR4 for Inflammation, Infection, and Cancer: A Perspective for Disaccharide Lipid A Mimetics. <b>2023</b> , 16, 23	0
9	The neutralising and stimulatory effects of antimicrobial peptide LL-37 in human gingival fibroblasts. <b>2023</b> , 148, 105634	0
8	Deciphering the contribution of microbial biomass to the properties of dissolved and particulate organic matter in anaerobic digestates. <b>2023</b> , 877, 162882	0
7	Phosphorylated polysaccharides: Applications, natural abundance, and new-to-nature structures generated by chemical and enzymatic functionalisation. <b>2023</b> , 65, 108140	0
6	The Role of Dietary Fats in the Development and Treatment of Endometriosis. <b>2023</b> , 13, 654	0
5	Nanospanlastics as a Novel Approach for Improving the Oral Delivery of Resveratrol in Lipopolysaccharide-Induced Endotoxicity in Mice.	0
4	Lipidomic Profiling Reveals Concerted Temporal Patterns of Functionally Related Lipids in <i>Aedes aegypti</i> Females Following Blood Feeding. <b>2023</b> , 13, 421	0
3	Antitoxic Applications of Clays in the Protection of Human Health. <b>2023</b> , 79-90	0
2	Selenium suppressed the LPS -induced inflammation of bovine endometrial epithelial cells through NF- $\kappa$ B and MAPK pathways under high cortisol background.	0

- 1 Analysis of Cellular Damage Resulting from Exposure of Bacteria to Graphene Oxide and Hybrids Using Fourier Transform Infrared Spectroscopy. **2023**, 12, 776

o