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Macrophage plasticity, polarization, and function in health and disease

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1961	<i>Nocardia rubra</i> cell wall skeleton accelerates cutaneous wound healing by enhancing macrophage activation and angiogenesis. <b>2018</b> , 46, 2398-2409		5
1960	A bite to fight: front-line innate immune defenses against malaria parasites. <b>2018</b> , 112, 1-12		7
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1956	The immunopathogenesis of fibrosis in systemic sclerosis. <b>2019</b> , 195, 310-321		49
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1946	The effects of CD14 and IL-27 on induction of endotoxin tolerance in human monocytes and macrophages. <b>2018</b> , 293, 17631-17645		14
1945	Saponins from <i>Boussingaultia gracilis</i> prevent obesity and related metabolic impairments in diet-induced obese mice. <b>2018</b> , 9, 5660-5673		3

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1754	Immune response to <i>Leishmania mexicana</i> : the host-parasite relationship. <b>2020</b> , 78,	1
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1728	The importance of T cell-derived cytokines in post-kala-azar dermal leishmaniasis. <b>2021</b> , 147, 155321	1
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1726	Targeting tumor-associated macrophages for cancer immunotherapy. <b>2020</b> , 1874, 188434	19
1725	Longisglucinols A-C, Structurally Intriguing Polycyclic Polyprenylated Acylphloroglucinols with Anti-inflammatory Activity from. <b>2020</b> , 22, 7926-7929	4
1724	Chitosan hydrogel incorporated with dental pulp stem cell-derived exosomes alleviates periodontitis in mice via a macrophage-dependent mechanism. <b>2020</b> , 5, 1113-1126	51
1723	Myeloid-specific blockade of Notch signaling alleviates murine pulmonary fibrosis through regulating monocyte-derived Ly6c MHCII alveolar macrophages recruitment and TGF- $\beta$ secretion. <b>2020</b> , 34, 11168-11184	5
1722	The emerging landscape of circular RNAs in immunity: breakthroughs and challenges. <b>2020</b> , 8, 25	8
1721	Annexin A5 regulates hepatic macrophage polarization via directly targeting PKM2 and ameliorates NASH. <b>2020</b> , 36, 101634	18
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1715	Oxidized LDL Disrupts Metabolism and Inhibits Macrophage Survival by Activating a miR-9/Drp1/Mitochondrial Fission Signaling Pathway. <b>2020</b> , 2020, 8848930	3
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1707	Improving cellular uptake and cytotoxicity of chitosan-coated poly(lactic--glycolic acid) nanoparticles in macrophages. <b>2020</b> , 15, 2671-2688	8
1706	Increased expression of macrophages and inflammatory cytokines at tendon origin in patients with chronic lateral epicondylitis. <b>2021</b> , 30, 1487-1493	2
1705	Pathogenic effects of inhibition of mTORC1/STAT3 axis facilitates Staphylococcus aureus-induced pyroptosis in human macrophages. <b>2020</b> , 18, 187	5
1704	Sodium Butyrate Alleviates Lipopolysaccharide-Induced Inflammatory Responses by Down-Regulation of NF- $\kappa$ B, NLRP3 Signaling Pathway, and Activating Histone Acetylation in Bovine Macrophages. <b>2020</b> , 7, 579674	8
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1692	Fate of Adipose Progenitor Cells in Obesity-Related Chronic Inflammation. <b>2020</b> , 8, 644	7
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1682	Understanding the Role of Innate Immune Cells and Identifying Genes in Breast Cancer Microenvironment. <b>2020</b> , 12,	8
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1638	Follistatin-like 1 (FSTL1) is a prognostic biomarker and correlated with immune cell infiltration in gastric cancer. <b>2020</b> , 18, 324	12
1637	Macrophages in Osteosarcoma Immune Microenvironment: Implications for Immunotherapy. <b>2020</b> , 10, 586580	12
1636	3 $\beta$ -Angeloyloxy--kaur-16-en-19-oic Acid Isolated from <i>L. Alleviates Xylene-Induced Mouse Ear Edema and Inhibits NF-<math>\kappa</math>B and MAPK Pathway in LPS-Stimulated Macrophages.</i> <b>2020</b> , 83, 3726-3735	2
1635	The Degree of Infection Affects the State of Macrophage Polarization through Crosstalk between ROS and HIF-1. <b>2020</b> , 2020, 5281795	4
1634	Metabolic Perturbations and Severe COVID-19 Disease: Implication of Molecular Pathways. <b>2020</b> , 2020, 8896536	5
1633	Development of a nano-immunomodulator encapsulating R837 and caffeine for combined radio-/immunotherapy against orthotopic breast cancer. <b>2020</b> , 30, 697-706	3
1632	Identification of ALDH3A2 as a novel prognostic biomarker in gastric adenocarcinoma using integrated bioinformatics analysis. <b>2020</b> , 20, 1062	9
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1630	Studies on the Immunomodulatory Effects of Extract on Human THP-1 Monocytes. <b>2020</b> , 2020, 7574606	1
1629	A Reactive Oxygen Species Scavenging and O <sub>2</sub> Generating Injectable Hydrogel for Myocardial Infarction Treatment In vivo. <b>2020</b> , 16, e2005038	31
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1622	Electronegative LDL Induces M1 Polarization of Human Macrophages Through a LOX-1-Dependent Pathway. <b>2020</b> , 43, 1524-1535	9
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1620	Soluble PTX3 of Human Umbilical Cord Blood-Derived Mesenchymal Stem Cells Attenuates Hyperoxic Lung Injury by Activating Macrophage Polarization in Neonatal Rat Model. <b>2020</b> , 2020, 1802976	4
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1617	An Immunological Glance on Pancreatic Ductal Adenocarcinoma. <b>2020</b> , 21,	6
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1614	Biomaterials Selection [Cellular Interactions During Regenerative and Remodeling Phases. <b>2020</b> , 43-60	
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1603	Cardioprotective Effects of Latifolin Against Doxorubicin-Induced Cardiotoxicity by Macrophage Polarization in Mice. <b>2020</b> , 75, 564-572	5

1602	Aberrations in peripheral inflammatory cytokine levels in substance use disorders: a meta-analysis of 74 studies. <b>2020</b> , 115, 2257-2267	6
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1600	Depletion of NK cells attenuates paraquat-induced acute lung injury by manipulating macrophage polarization. <b>2020</b> , 86, 106698	7
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1598	The fundamentals of phenotypic plasticity. <b>2020</b> , 1-21	2
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1596	N-Carboxymethyl-Lysine Negatively Regulates Foam Cell Migration via the Vav1/Rac1 Pathway. <b>2020</b> , 2020, 1906204	2
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1594	Characteristics of Tumor-Infiltrating Lymphocytes Prior to and During Immune Checkpoint Inhibitor Therapy. <b>2020</b> , 11, 364	30
1593	Reference gene selection and validation for mRNA expression analysis by RT-qPCR in murine M1- and M2-polarized macrophage. <b>2020</b> , 47, 2735-2748	3
1592	HS counteracts proinflammatory effects of LPS through modulation of multiple pathways in human cells. <b>2020</b> , 69, 481-495	12
1591	Nitric Oxide in Dental Pulp Tissue: From Molecular Understanding to Clinical Application in Regenerative Endodontic Procedures. <b>2020</b> , 26, 327-347	1
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1559	Liver macrophages mediate effects of downhill running and caloric restriction on nonalcoholic fatty liver disease of high fat diet-fed mice. <b>2020</b> , 256, 117978	7
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1547	Atherosclerosis: Insights into Vascular Pathobiology and Outlook to Novel Treatments. <b>2020</b> , 13, 744-757	25
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1545	Vestitol drives LPS-activated macrophages into M2 phenotype through modulation of NF- $\kappa$ B pathway. <b>2020</b> , 82, 106329	8
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1543	Recent Advances in Allogeneic CAR-T Cells. <b>2020</b> , 10,	26
1542	Transfection of hard-to-transfect primary human macrophages with siRNA to reverse Resveratrol-induced apoptosis. <b>2020</b> , 17, 755-764	12
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1513	Airway Epithelial Dynamics in Allergy and Related Chronic Inflammatory Airway Diseases. <b>2020</b> , 8, 204	8

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1510	Anti-Inflammatory Profile of Less. by Downregulation of Proinflammatory Mediators and Inhibition of NF-B and p38 Pathways. <b>2020</b> , 2020, 9078956	1
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1508	Noggin Inhibits IL-1 $\beta$ and BMP-2 Expression, and Attenuates Cartilage Degeneration and Subchondral Bone Destruction in Experimental Osteoarthritis. <b>2020</b> , 9,	23
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1409	Macrophages and Their Organ Locations Shape Each Other in Development and Homeostasis - A Perspective. <b>2021</b> , 9, 630272	3
1408	Mesenchymal stem cells cultured in serum-free medium ameliorate experimental peritoneal fibrosis. <b>2021</b> , 12, 203	3
1407	Cell Division Cycle Associated Genes as Diagnostic and Prognostic Biomarkers in Hepatocellular Carcinoma. <b>2021</b> , 8, 657161	1
1406	Mechanical and Biological Determinants of Iatrogenic Injuries in Orthodontics. <b>2021</b> , 277-296	
1405	Interferon Regulatory Factor 5 ( ) Gene Haplotypes Are Associated with Premature Coronary Artery Disease. Association of the Polymorphisms with Cardiometabolic Parameters. The Genetics of Atherosclerotic Disease (GEA) Mexican Study. <b>2021</b> , 11,	0



1404	Exosomes from human umbilical cord mesenchymal stem cells attenuate the inflammation of severe steroid-resistant asthma by reshaping macrophage polarization. <b>2021</b> , 12, 204	10
1403	Type I and II Interferons in the Anti-Tumor Immune Response. <b>2021</b> , 13,	11
1402	Biomaterial-based osteoimmunomodulatory strategies via the TLR4-NF- $\kappa$ B signaling pathway: A review. <b>2021</b> , 22, 100969	5
1401	The Regulatory Role of $\alpha$ -Ketoglutarate Metabolism in Macrophages. <b>2021</b> , 2021, 5577577	5
1400	Application of a three-dimensional (3D) breast cancer model to study macrophage polarization. <b>2021</b> , 21, 482	0
1399	Human macrophages stimulate expression of inflammatory mediators in adipocytes; effects of second-generation antipsychotics and glucocorticoids on cellular cross-talk. <b>2021</b> , 125, 105071	2
1398	Engineered Cytokines for Cancer and Autoimmune Disease Immunotherapy. <b>2021</b> , 10, e2002214	5
1397	Macrophage Polarization in Cardiac Tissue Repair Following Myocardial Infarction. <b>2021</b> , 22,	12
1396	The role of tumor-associated macrophages in osteosarcoma progression - therapeutic implications. <b>2021</b> , 44, 525-539	15
1395	Adenylate Kinase 4 Promotes Inflammatory Gene Expression Hif1 $\alpha$ and AMPK in Macrophages. <b>2021</b> , 12, 630318	3
1394	Targeting macrophages in cancer immunotherapy. <b>2021</b> , 6, 127	65
1393	Pyridoxamine ameliorates methylglyoxal-induced macrophage dysfunction to facilitate tissue repair in diabetic wounds. <b>2021</b> ,	2
1392	Profiles of immune cell infiltration and immune-related genes in the tumor microenvironment of esophageal squamous cell carcinoma. <b>2021</b> , 14, 75	4
1391	Nano-designed carbon monoxide donor SMA/CORM2 exhibits protective effect against acetaminophen induced liver injury through macrophage reprogramming and promoting liver regeneration. <b>2021</b> , 331, 350-363	15
1390	M2 Macrophage Co-Expression Factors Correlate With Immune Phenotype and Predict Prognosis of Bladder Cancer. <b>2021</b> , 11, 609334	1
1389	Anti-Leishmania activity of extracts from C.DC. (Piperaceae). <b>2021</b> , 76, 229-241	
1388	Perspective of Molecular Hydrogen in the Treatment of Sepsis. <b>2021</b> , 27, 667-678	5
1387	Acellular fraction from malignant effusions has cytotoxicity in breast cancer cells. <b>2021</b> , 14, 106	

1386	The Serum from Patients with Secondary Frozen Shoulder Following Rotator Cuff Repair Induces Shoulder Capsule Fibrosis and Promotes Macrophage Polarization and Fibroblast Activation. <b>2021</b> , 14, 1055-1068	1
1385	The Role of Innate and Adaptive Immune Cells in Skeletal Muscle Regeneration. <b>2021</b> , 22,	8
1384	Bmal1 Regulates Macrophage Polarize Through Glycolytic Pathway in Alcoholic Liver Disease. <b>2021</b> , 12, 640521	6
1383	Role of exosomes in the immune microenvironment of ovarian cancer. <b>2021</b> , 21, 377	9
1382	In vitro skin culture media influence the viability and inflammatory response of primary macrophages. <b>2021</b> , 11, 7070	3
1381	Single-Cell Sequencing, an Advanced Technology in Lung Cancer Research. <b>2021</b> , 14, 1895-1909	3
1380	Further evidence that cigarette smoke and nicotine compromise host immunity against tuberculosis (invited editorial). <b>2021</b> , 127, 102035	
1379	Macrophage polarization: an effective approach to targeted therapy of inflammatory bowel disease. <b>2021</b> , 25, 191-209	5
1378	Cyanidin-3-galactoside from Aronia melanocarpa ameliorates PM10 induced pulmonary injury by modulating M1/M2 macrophage polarization and NRF2/Sirt1 MAPK signaling. <b>2021</b> , 78, 104363	4
1377	Intravital Metabolic Autofluorescence Imaging Captures Macrophage Heterogeneity Across Normal and Cancerous Tissue. <b>2021</b> , 9, 644648	3
1376	Comparative Phenotypic and Functional Analyses of the Effects of IL-10 or TGF- $\beta$ on Porcine Macrophages. <b>2021</b> , 11,	4
1375	Double Insurance for OC: miRNA-Mediated Platinum Resistance and Immune Escape. <b>2021</b> , 12, 641937	3
1374	The Impact of the Ca-Independent Phospholipase A <sub>2</sub> (iPLA <sub>2</sub> ) on Immune Cells. <b>2021</b> , 11,	0
1373	ATP2C2 Has Potential to Define Tumor Microenvironment in Breast Cancer. <b>2021</b> , 12, 657950	4
1372	M1 Macrophages Are More Susceptible to Necroptosis. <b>2021</b> , 3, 97-102	0
1371	Mesenchymal Stem Cells and Extracellular Vesicles: An Emerging Alternative to Combat COVID-19.	1
1370	Context-Dependent Glioblastoma-Macrophage/Microglia Symbiosis and Associated Mechanisms. <b>2021</b> , 42, 280-292	3
1369	Hydrocephalus Induced by Intraventricular Peroxiredoxin-2: The Role of Macrophages in the Choroid Plexus. <b>2021</b> , 11,	4

1368	Major signaling pathways and key mediators of macrophages in acute kidney injury (Review). <b>2021</b> , 23,	8
1367	In focus in HCB. <b>2021</b> , 155, 435-438	
1366	High-Yield Human Induced Pluripotent Stem Cell-Derived Monocytes and Macrophages Are Functionally Comparable With Primary Cells. <b>2021</b> , 9, 656867	2
1365	Inhibition of PDE4 by apremilast attenuates skin fibrosis through directly suppressing activation of M1 and T cells. <b>2021</b> ,	0
1364	Non-Specific Binding, a Limitation of the Immunofluorescence Method to Study Macrophages In Situ. <b>2021</b> , 12,	1
1363	The pathogenic potential of the combined action of chronic <i>Opisthorchis felinus</i> infection and repeated social defeat stress in C57BL/6 mice. <b>2021</b> , 51, 353-363	1
1362	A multi-colour confocal microscopy method for identifying and enumerating macrophage subtypes and adherent cells in the stromal vascular fraction of human adipose. <b>2021</b> , 491, 112988	1
1361	Modeling the energy metabolism in immune cells. <b>2021</b> , 68, 282-291	6
1360	Resveratrol, Metabolic Dysregulation, and Alzheimer's Disease: Considerations for Neurodegenerative Disease. <b>2021</b> , 22,	6
1359	T Cells as Guardians of Pain Resolution. <b>2021</b> , 27, 302-313	8
1358	Transcriptional Profiles of Genes Related to Stress and Immune Response in Rainbow Trout ( ) Symptomatically or Asymptomatically Infected With. <b>2021</b> , 12, 639489	1
1357	Macrophage Polarization in the Skin Lesion Caused by Neotropical Species of sp. <b>2021</b> , 2021, 5596876	4
1356	Azithromycin alleviates systemic lupus erythematosus via the promotion of M2 polarisation in lupus mice. <b>2021</b> , 7, 82	
1355	Recent Advances in Macrophage-Mediated Drug Delivery Systems. <b>2021</b> , 16, 2703-2714	8
1354	Generation of cryopreserved macrophages from normal and genetically engineered human pluripotent stem cells for disease modelling. <b>2021</b> , 16, e0250107	1
1353	A narrative review of tumor-associated macrophages in lung cancer: regulation of macrophage polarization and therapeutic implications. <b>2021</b> , 10, 1889-1916	13
1352	Nitrogen-Doped Multiwalled Carbon Nanotubes Enhance Bone Remodeling through Immunomodulatory Functions. <b>2021</b> , 13, 25290-25305	4
1351	The Restoration of Vitamin D Levels Slows the Progression of Renal Ischemic Injury in Rats Previously Deficient in Vitamin D. <b>2021</b> , 8, 625647	1

1350	Interleukin-6, CXCL10 and Infiltrating Macrophages in COVID-19-Related Cytokine Storm: Not One for All But All for One!. <b>2021</b> , 12, 668507	27
1349	Capturing Cytokines with Advanced Materials: A Potential Strategy to Tackle COVID-19 Cytokine Storm. <b>2021</b> , 33, e2100012	16
1348	Natural Polysaccharides and Their Derivates: A Promising Natural Adjuvant for Tumor Immunotherapy. <b>2021</b> , 12, 621813	8
1347	Modern clinical and fundamental aspects in the diagnosis and treatment of patients with ischemic cardiomyopathy (Review). <b>2021</b> , 36, 20-29	2
1346	Immediate and sustained effects of cobalt-containing pigments on macrophages.	
1345	Curcumin: A Dietary Phytochemical for Targeting the Phenotype and Function of Dendritic Cells. <b>2021</b> , 28, 1549-1564	6
1344	Differential Metabolome in Rheumatoid Arthritis: a Brief Perspective. <b>2021</b> , 23, 42	3
1343	Effects of irbesartan on phenotypic alterations in monocytes and the inflammatory status of hypertensive patients with left ventricular hypertrophy. <b>2021</b> , 21, 194	1
1342	Effects of Ipriflavone-Loaded Mesoporous Nanospheres on the Differentiation of Endothelial Progenitor Cells and Their Modulation by Macrophages. <b>2021</b> , 11,	4
1341	Keratin Scaffolds Containing Casomorphin Stimulate Macrophage Infiltration and Accelerate Full-Thickness Cutaneous Wound Healing in Diabetic Mice. <b>2021</b> , 26,	6
1340	Pathological and Immunohistochemical Characteristics of Granuloma and Lymphatics in Cheilitis Granulomatosa. <b>2021</b> ,	1
1339	Pinosylin Shifts Macrophage Polarization to Support Resolution of Inflammation. <b>2021</b> , 26,	2
1338	MicroRNAs in Metastasis and the Tumour Microenvironment. <b>2021</b> , 22,	3
1337	Polarization of avian macrophages upon avian flavivirus infection. <b>2021</b> , 256, 109044	3
1336	ShenLian Extract Enhances TGF- $\beta$ Functions in the Macrophage-SMC Unit and Stabilizes Atherosclerotic Plaques. <b>2021</b> , 12, 669730	1
1335	Macrophage 3D migration: A potential therapeutic target for inflammation and deleterious progression in diseases. <b>2021</b> , 167, 105563	4
1334	Cancer-Associated Fibroblasts and Tumor-Associated Macrophages in Cancer and Cancer Immunotherapy. <b>2021</b> , 11, 668731	11
1333	The ACE2-Ang-(1-7)-Mas Axis Modulates M1/M2 Macrophage Polarization to Relieve CLP-Induced Inflammation via TLR4-Mediated NF- $\kappa$ B and MAPK Pathways. <b>2021</b> , 14, 2045-2060	9

1332	Anti-Inflammatory Effect of Auranofin on Palmitic Acid and LPS-Induced Inflammatory Response by Modulating TLR4 and NOX4-Mediated NF- $\kappa$ B Signaling Pathway in RAW264.7 Macrophages. <b>2021</b> , 22,	6
1331	New insights into oxidative stress and immune mechanisms involved in age-related macular degeneration tackled by novel therapies. <b>2021</b> , 188, 108513	3
1330	Potential Role of Macrophage Phenotypes and CCL2 in the Pathogenesis of Takayasu Arteritis. <b>2021</b> , 12, 646516	3
1329	Neonatal Osteomacs and Bone Marrow Macrophages Differ in Phenotypic Marker Expression and Function. <b>2021</b> , 36, 1580-1593	5
1328	Purification, Structural Characterization and Immunomodulatory Effects of Polysaccharides from Lour. on RAW 264.7 Macrophages. <b>2021</b> , 26,	3
1327	A novel mouse model for liver metastasis of prostate cancer reveals dynamic tumour-immune cell communication. <b>2021</b> , 54, e13056	1
1326	Effects of Risk Factors on In Situ Expression of Proinflammatory Markers Correlated to Carotid Plaque Instability. <b>2021</b> , 29, 741-749	0
1325	Anti-Inflammatory Effects of an Extract from <i>Pseudomonas aeruginosa</i> and Its Purified Product 1-Hydroxyphenazine on RAW264.7 Cells. <b>2021</b> , 78, 2762-2773	1
1324	Hallmarks of Aging in Macrophages: Consequences to Skin Inflammaging. <b>2021</b> , 10,	8
1323	Therapeutic mechanisms of mesenchymal stem cells in acute respiratory distress syndrome reveal potentials for Covid-19 treatment. <b>2021</b> , 19, 198	7
1322	Liver macrophages and inflammation in physiology and physiopathology of non-alcoholic fatty liver disease. <b>2021</b> ,	6
1321	Integrative Analysis of DNA Methylation and Transcriptome Identifies a Predictive Epigenetic Signature Associated With Immune Infiltration in Gliomas. <b>2021</b> , 9, 670854	3
1320	Intertumoral Genetic Heterogeneity Generates Distinct Tumor Microenvironments in a Novel Murine Synchronous Melanoma Model. <b>2021</b> , 13,	1
1319	Nanomedicine Approach to Immunotherapy of Hepatocellular Carcinoma. <b>2021</b> , 17, 771-792	0
1318	Breast cancer dormancy: need for clinically relevant models to address current gaps in knowledge. <b>2021</b> , 7, 66	8
1317	A sweet spot for macrophages: Focusing on polarization. <b>2021</b> , 167, 105576	6
1316	The inflammatory speech of fibroblasts. <b>2021</b> , 302, 126-146	23
1315	The Effects of Macrophage Phenotype on Osteogenic Differentiation of MSCs in the Presence of Polyethylene Particles. <b>2021</b> , 9,	2

1314	Gastric Emptying Abnormalities in Diabetes Mellitus. <b>2021</b> , 384, 1742-1751	4
1313	The role of HIF-1 $\beta$ in BCG-stimulated macrophages polarization and their tumoricidal effects in vitro. <b>2021</b> , 210, 149-156	0
1312	OVOL2 inhibits macrophage M2 polarization by regulating IL-10 transcription, and thus inhibits the tumor metastasis by modulating the tumor microenvironment. <b>2021</b> ,	3
1311	Macrophage Plasticity and Atherosclerosis Therapy. <b>2021</b> , 8, 679797	24
1310	Epigenetic Modulation of Microglia Function and Phenotypes in Neurodegenerative Diseases. <b>2021</b> , 2021, 9912686	2
1309	Cord-Blood-Derived Professional Antigen-Presenting Cells: Functions and Applications in Current and Prospective Cell Therapies. <b>2021</b> , 22,	
1308	Morphine enhances LPS-induced macrophage apoptosis through a PPAR $\beta$ -dependent mechanism. <b>2021</b> , 22, 714	1
1307	Fargesin ameliorates osteoarthritis via macrophage reprogramming by downregulating MAPK and NF- $\kappa$ B pathways. <b>2021</b> , 23, 142	11
1306	M1/M2 polarization in major depressive disorder: Disentangling state from trait effects in an individualized cell-culture-based approach. <b>2021</b> , 94, 185-195	4
1305	MiR-19a-3p Suppresses M1 Macrophage Polarization by Inhibiting STAT1/IRF1 Pathway. <b>2021</b> , 12, 614044	3
1304	CLEC5A knockdown protects against cardiac dysfunction after myocardial infarction by suppressing macrophage polarization, NLRP3 inflammasome activation, and pyroptosis. <b>2021</b> , 99, 655-665	1
1303	Cancer-Cell-Derived Hybrid Vesicles from MCF-7 and HeLa Cells for Dual-Homotypic Targeting of Anticancer Drugs. <b>2021</b> , 21, e2100067	1
1302	Endometriosis and Cancer: Exploring the Role of Macrophages. <b>2021</b> , 22,	1
1301	Inhibition of TLR4 Signaling Impedes Tumor Growth in Colitis-Associated Colon Cancer. <b>2021</b> , 12, 669747	9
1300	Disulfide and Fully Reduced HMGB1 Induce Different Macrophage Polarization and Migration Patterns. <b>2021</b> , 11,	3
1299	Molecular mechanism of asthma and its novel molecular target therapeutic agent. <b>2021</b> , 59, 291-301	7
1298	Systematic approach in macrophage polarization experiments: Maintaining integrity and reproducibility using flow cytometry and sample preparation. <b>2021</b> , 492, 112969	
1297	Prognostic value of CCR2 as an immune indicator in lung adenocarcinoma: A study based on tumor-infiltrating immune cell analysis. <b>2021</b> , 10, 4150-4163	1

1296	Insights Into Host Cell Cytokines in Infection. <b>2021</b> , 12, 639834	1
1295	The Role of Macrophages in the Pathogenesis of SARS-CoV-2-Associated Acute Respiratory Distress Syndrome. <b>2021</b> , 12, 682871	13
1294	Nonclassical monocytes in cardiovascular physiology and disease. <b>2021</b> , 320, C761-C770	4
1293	Force-Induced Autophagy in Periodontal Ligament Stem Cells Modulates M1 Macrophage Polarization via AKT Signaling. <b>2021</b> , 9, 666631	5
1292	Multi-functional cerium oxide nanoparticles regulate inflammation and enhance osteogenesis. <b>2021</b> , 124, 112041	9
1291	Applications of biomaterials for immunosuppression in tissue repair and regeneration. <b>2021</b> , 126, 31-44	9
1290	Omics and Transgenic Analyses Reveal that Salvianolic Acid B Exhibits its Anti-Inflammatory Effects through Inhibiting the Mincle-Syk-Related Pathway in Macrophages. <b>2021</b> , 20, 3734-3748	2
1289	Glial Cells as Therapeutic Approaches in Brain Ischemia-Reperfusion Injury. <b>2021</b> , 10,	4
1288	The Macrophage Response Is Driven by Mesenchymal Stem Cell-Mediated Metabolic Reprogramming. <b>2021</b> , 12, 624746	3
1287	ROS-Responsive Boronate-Stabilized Polyphenol-Poloxamer 188 Assembled Dexamethasone Nanodrug for Macrophage Repolarization in Osteoarthritis Treatment. <b>2021</b> , 10, e2100883	7
1286	Targeting tumor vascularization: promising strategies for vascular normalization. <b>2021</b> , 147, 2489-2505	2
1285	Glucose Metabolism: The Metabolic Signature of Tumor Associated Macrophage. <b>2021</b> , 12, 702580	2
1284	Pseudolaric acid B ameliorates synovial inflammation and vessel formation by stabilizing PPAR $\alpha$ to inhibit NF- $\kappa$ B signalling pathway. <b>2021</b> , 25, 6664-6678	1
1283	Hyperglycemia modulates M1/M2 macrophage polarization via reactive oxygen species overproduction in ligature-induced periodontitis. <b>2021</b> , 56, 991-1005	9
1282	Hyperactivation of monocytes and macrophages in MCI patients contributes to the progression of Alzheimer's disease. <b>2021</b> , 18, 29	1
1281	(3R)-3-(tiglinoyloxy)-ent-kaur-16-en-19-oic acid, isolated from <i>Wedelia trilobata</i> L., exerts an anti-inflammatory effect via the modulation of NF- $\kappa$ B, MAPK and mTOR pathway and autophagy in LPS-stimulated macrophages. <b>2021</b> , 73, 105139	
1280	Unraveling the thread of uncontrolled immune response in COVID-19 and STEMI: an emerging need for knowledge sharing. <b>2021</b> , 320, H2240-H2254	0
1279	Interplay between mesenchymal stromal cells and immune system: clinical applications in immune-related diseases.	1

1278	Pharmacological inhibition of SETD7 by PFI-2 attenuates renal fibrosis following folic acid and obstruction injury. <b>2021</b> , 901, 174097	3
1277	Extracellular vesicle activities regulating macrophage- and tissue-mediated injury and repair responses. <b>2021</b> , 11, 1493-1512	18
1276	The immunogenic reaction and bone defect repair function of $\beta$ -poly-L-lysine (EPL)-coated nanoscale PCL/HA scaffold in rabbit calvarial bone defect. <b>2021</b> , 32, 63	5
1275	Tumor-Associated Macrophages: A Potential Target for Cancer Therapy. <b>2021</b> , 11, 693517	9
1274	An immunomodulatory bioink with hollow manganese silicate nanospheres for angiogenesis. <b>2021</b> , 23, 101015	5
1273	Identification of Potential ceRNA Network and Patterns of Immune Cell Infiltration in Systemic Sclerosis-Associated Interstitial Lung Disease. <b>2021</b> , 9, 622021	1
1272	Dermal macrophage and its potential in inducing hair follicle regeneration. <b>2021</b> , 134, 25-33	0
1271	Tracheal Macrophages During Regeneration and Repair of Long-Segment Airway Defects. <b>2021</b> ,	3
1270	Thalidomide Attenuates Colitis and Is Associated with the Suppression of M1 Macrophage Polarization by Targeting the Transcription Factor IRF5. <b>2021</b> , 66, 3803-3812	1
1269	Role of the F-BAR Family Member PSTPIP2 in Autoinflammatory Diseases. <b>2021</b> , 12, 585412	2
1268	The Emerging Role of Extracellular Vesicle-Associated RNAs in the Multiple Myeloma Microenvironment. <b>2021</b> , 11, 689538	0
1267	HOXA5 induces M2 macrophage polarization to attenuate carotid atherosclerosis by activating MED1. <b>2021</b> , 73, 1142-1152	2
1266	Cardiac Dysfunction in a Mouse Vascular Dementia Model of Bilateral Common Carotid Artery Stenosis. <b>2021</b> , 8, 681572	2
1265	Modulation of TRIB3 and Macrophage Phenotype to Attenuate Insulin Resistance After Downhill Running in Mice. <b>2021</b> , 12, 637432	0
1264	Defects in Macrophage Reprogramming in Cancer Therapy: The Negative Impact of PD-L1/PD-1. <b>2021</b> , 12, 690869	10
1263	Roles and Mechanisms of DNA Methylation in Vascular Aging and Related Diseases. <b>2021</b> , 9, 699374	2
1262	Proteome Profiling of PMJ2-R and Primary Peritoneal Macrophages. <b>2021</b> , 22,	1
1261	Electronic Cigarette Exposure Enhances Lung Inflammatory and Fibrotic Responses in COPD Mice. <b>2021</b> , 12, 726586	5



1260	Macrophage Polarization Modulated by Porcine Circovirus Type 2 Facilitates Bacterial Coinfection. <b>2021</b> , 12, 688294	3
1259	Nicotinamide Mononucleotide Alleviates LPS-Induced Inflammation and Oxidative Stress Decreasing COX-2 Expression in Macrophages. <b>2021</b> , 8, 702107	4
1258	Management Strategies to Reduce Exacerbations in non-T2 Asthma. <b>2021</b> , 9, 2588-2597	2
1257	Abnormal Macrophage Polarization in Patients with Myelodysplastic Syndrome. <b>2021</b> , 2021, 9913382	2
1256	Effects of 17 $\beta$ Estradiol on Monocyte/Macrophage Response to : An Study. <b>2021</b> , 11, 701391	0
1255	The Biogenesis, Biological Functions, and Applications of Macrophage-Derived Exosomes. <b>2021</b> , 8, 715461	8
1254	CAR-macrophage: A new immunotherapy candidate against solid tumors. <b>2021</b> , 139, 111605	25
1253	Exosomes Derived From M2 Macrophages Facilitate Osteogenesis and Reduce Adipogenesis of BMSCs. <b>2021</b> , 12, 680328	5
1252	The role of macrophage polarization and associated mechanisms in regulating the anti-inflammatory action of acupuncture: a literature review and perspectives. <b>2021</b> , 16, 56	2
1251	Macrophage activation in vitro by Parachartergus fraternus venom. <b>2021</b> , 198, 48-53	0
1250	Effective Actions of Ion Release from Mesoporous Bioactive Glass and Macrophage Mediators on the Differentiation of Osteoprogenitor and Endothelial Progenitor Cells. <b>2021</b> , 13,	3
1249	MiR-382-5p suppresses M1 macrophage polarization and inflammatory response in response to bronchopulmonary dysplasia through targeting CDK8: Involving inhibition of STAT1 pathway. <b>2021</b> , 26, 772-781	6
1248	CD163 macrophages suppress T cell response by producing TGF- $\beta$ in pediatric colorectal polyps. <b>2021</b> , 96, 107644	2
1247	Burkitt lymphoma with a granulomatous reaction: an M1/Th1-polarised microenvironment is associated with controlled growth and spontaneous regression. <b>2021</b> ,	2
1246	A low-temperature-printed hierarchical porous sponge-like scaffold that promotes cell-material interaction and modulates paracrine activity of MSCs for vascularized bone regeneration. <b>2021</b> , 274, 120841	19
1245	Role of specialized pro-resolving lipid mediators in pulmonary inflammation diseases: mechanisms and development. <b>2021</b> , 22, 204	4
1244	The roles of macrophage polarization in the host immune response to sepsis. <b>2021</b> , 96, 107791	14
1243	Latitudinal and longitudinal regulation of tissue macrophages in inflammatory diseases. <b>2021</b> ,	1

1242	FVIII at the crossroad of coagulation, bone and immune biology: Emerging evidence of biological activities beyond hemostasis. <b>2021</b> , 27, 102-102	3
1241	Molecular insights into phytochemicals-driven break function in tumor microenvironment. <b>2021</b> , 45, e13824	1
1240	Macrophage as a Peripheral Pain Regulator. <b>2021</b> , 10,	8
1239	Alpha defensin-1 attenuates surgically induced osteoarthritis in association with promoting M1 to M2 macrophage polarization. <b>2021</b> , 29, 1048-1059	4
1238	Tumor Associated Macrophages, as the Dominant Immune Cells, Are an Indispensable Target for Immunologically Cold Tumor-Glioma Therapy?. <b>2021</b> , 9, 706286	6
1237	Effects of TRIM59 on RAW264.7 macrophage gene expression and function. <b>2021</b> , 226, 152109	0
1236	Immunostimulatory effects of the intracellular polysaccharides isolated from liquid culture of <i>Ophiocordyceps sinensis</i> (Ascomycetes) on RAW264.7 cells via the MAPK and PI3K/Akt signaling pathways. <b>2021</b> , 275, 114130	3
1235	Effect of stimulation time on the expression of human macrophage polarization markers.	
1234	-Terminal Fragment of Vitellogenin II, a Potential Yolkin Polypeptide Complex Precursor Protein-Heterologous Expression, Purification, and Immunoregulatory Activity. <b>2021</b> , 22,	
1233	Natural Compounds: A Potential Treatment for Alcoholic Liver Disease?. <b>2021</b> , 12, 694475	3
1232	The Escalation of Osteosarcoma Stem Cells Apoptosis After the Co-Cultivation of Peripheral Blood Mononuclear Cells Sensitized with Mesenchymal Stem Cells Secretome and Colony Stimulating Factor-2 in vitro. <b>2021</b> , 12, 601-611	1
1231	Cell-Inspired Biomaterials for Modulating Inflammation. <b>2021</b> ,	1
1230	Activin receptor-like kinase 4 haploinsufficiency alleviates the cardiac inflammation and pacing-induced ventricular arrhythmias after myocardial infarction. <b>2021</b> , 13, 17473-17488	1
1229	Role of Macrophages and Related Cytokines in Kidney Disease. <b>2021</b> , 8, 688060	7
1228	Lactic acid in macrophage polarization: The significant role in inflammation and cancer. <b>2021</b> , 1-15	9
1227	Mitochondrial metabolism regulates macrophage biology. <b>2021</b> , 297, 100904	6
1226	Materials and Cytokines in the Healing of Diabetic Foot Ulcers. <b>2021</b> , 4, 2100075	3
1225	Safety and feasibility of resuming bariatric surgery under the cloud of COVID-19. <b>2021</b> , 103, 524-529	1

1224	Autoimmune pancreatitis and pancreatic cancer: Epidemiological aspects and immunological considerations. <b>2021</b> , 27, 3825-3836	3
1223	Neuropeptides, Inflammation, Biofilms, and diabetic Foot Ulcers. <b>2021</b> ,	1
1222	Prominent Role of Type 2 Immunity in Skin Diseases-Beyond Atopic Dermatitis. <b>2021</b> , 12034754211027858	1
1221	Osteocyte exosomes accelerate benign prostatic hyperplasia development. <b>2021</b> , 531, 111301	1
1220	Promotion Effect of EGCG on the Raised Expression of IL-23 through the Signaling of STAT3-BATF2-c-JUN/ATF2. <b>2021</b> , 69, 7898-7909	
1219	Detection of Immune Checkpoint Receptors - A Current Challenge in Clinical Flow Cytometry. <b>2021</b> , 12, 694055	5
1218	Maresin 1 alleviates the inflammatory response, reduces oxidative stress and protects against cardiac injury in LPS-induced mice. <b>2021</b> , 277, 119467	6
1217	Arf6 exacerbates allergic asthma through cell-to-cell transmission of ASC inflammasomes. <b>2021</b> , 6,	4
1216	Down-regulation of TNF- $\alpha$ via macrophage-targeted RNAi system for the treatment of acute inflammatory sepsis. <b>2021</b> , 336, 344-353	5
1215	Pharmacological inhibition of MELK restricts ferroptosis and the inflammatory response in colitis and colitis-propelled carcinogenesis. <b>2021</b> , 172, 312-329	8
1214	Adiponectin Inhibits the Production of TNF- $\alpha$ and Chemokines by Human Lung Macrophages. <b>2021</b> , 12, 718929	1
1213	Recent advances in understanding the role of IL-4 signaling. <b>2021</b> , 10, 71	2
1212	Macrophage-targeted nanomedicine for chronic diseases immunotherapy. <b>2021</b> , 33, 597-597	7
1211	Impact of a long-term high-glucose environment on pro-inflammatory responses in macrophages stimulated with lipopolysaccharide. <b>2021</b> , 394, 2129-2139	0
1210	Decidual stromal cells support tolerance at the human foetal-maternal interface by inducing regulatory M2 macrophages and regulatory T-cells. <b>2021</b> , 146, 103330	8
1209	Glucocorticoids and Androgens Protect From Gastric Metaplasia by Suppressing Group 2 Innate Lymphoid Cell Activation. <b>2021</b> , 161, 637-652.e4	7
1208	Der f 38 Is a Novel TLR4-Binding Allergen Related to Allergy Pathogenesis from. <b>2021</b> , 22,	0
1207	Quorum Sensing by Gelsolin Regulates Programmed Cell Death 4 Expression and a Density-Dependent Phenotype in Macrophages. <b>2021</b> , 207, 1250-1264	2

1206	Analysis of Bulk RNA Sequencing Data Reveals Novel Transcription Factors Associated With Immune Infiltration Among Multiple Cancers. <b>2021</b> , 12, 644350	1
1205	M2 Macrophage-Based Prognostic Nomogram for Gastric Cancer After Surgical Resection. <b>2021</b> , 11, 690037	1
1204	Tumor-Associated Macrophages (TAMs) in Colorectal Cancer (CRC): From Mechanism to Therapy and Prognosis. <b>2021</b> , 22,	15
1203	Possible roles of anti-type II collagen antibody and innate immunity in the development and progression of diabetic retinopathy. <b>2021</b> , 1	0
1202	Macrophages of different tissue origin exhibit distinct inflammatory responses to mycobacterial infection. <b>2021</b> , 99, 1085-1092	0
1201	IL-23/IL-17 axis and soluble receptors isoforms sIL-23R and sIL-17RA in patients with rheumatoid arthritis-presenting periodontitis. <b>2021</b> , 35, e23963	3
1200	n-3 Polyunsaturated fatty acid-enriched phosphatidylglycerol suppresses inflammation in RAW264.7 cells through Nrf2 activation via alteration of fatty acids in cellular phospholipids. <b>2021</b> , 87, 727-737	
1199	Mesenchymal Stem Cell-Derived Exosomes: Applications in Regenerative Medicine. <b>2021</b> , 10,	25
1198	Functional characterization of an interleukin 20 like homologue in grass carp <i>Ctenopharyngodon idella</i> . <b>2021</b> , 115, 43-57	1
1197	IL-21 regulates macrophage activation in human monocytic THP-1-derived macrophages.	1
1196	Age-related LRRK2 G2019S Mutation Impacts Microglial Dopaminergic Fiber Refinement and Synaptic Pruning Involved in Abnormal Behaviors. <b>2021</b> , 1	2
1195	Immunomodulatory mechanism of <i>Bacillus subtilis</i> R0179 in RAW 264.7 cells against <i>Candida albicans</i> challenge. <b>2021</b> , 157, 104988	0
1194	Advances in Nanomaterials for Injured Heart Repair. <b>2021</b> , 9, 686684	
1193	Dual Inhibition of Endoplasmic Reticulum Stress and Oxidation Stress Manipulates the Polarization of Macrophages under Hypoxia to Sensitize Immunotherapy. <b>2021</b> , 15, 14522-14534	4
1192	Perivascular clusters of Th2 cells and M2 macrophages in allergic contact dermatitis to methylchloroisothiazolinone and methylisothiazolinone. <b>2021</b> ,	0
1191	Role of Inflammatory Mediators, Macrophages, and Neutrophils in Glioma Maintenance and Progression: Mechanistic Understanding and Potential Therapeutic Applications. <b>2021</b> , 13,	8
1190	Interleukin 4 promotes anti-inflammatory macrophages that clear cartilage debris and inhibits osteoclast development to protect against osteoarthritis. <b>2021</b> , 229, 108784	5
1189	A potent and selective PARP14 inhibitor decreases protumor macrophage gene expression and elicits inflammatory responses in tumor explants. <b>2021</b> , 28, 1158-1168.e13	11

1188	Two methoxy derivatives of resveratrol, 3,3',4,5'-tetramethoxy-trans-stilbene and 3,4',5-trimethoxy-trans-stilbene, suppress lipopolysaccharide-induced inflammation through inactivation of MAPK and NF- $\kappa$ B pathways in RAW 264.7 cells. <b>2021</b> , 16, 69	3
1187	Immune Microenvironment Landscape in CNS Tumors and Role in Responses to Immunotherapy. <b>2021</b> , 10,	3
1186	Searching for the one(s): Using Probiotics as Anthelmintic Treatments. <b>2021</b> , 12, 714198	2
1185	Roles of CCL2-CCR2 Axis in the Tumor Microenvironment. <b>2021</b> , 22,	7
1184	PD-1/PD-L1 immune checkpoints: Tumor vs atherosclerotic progression. <b>2021</b> , 519, 70-75	0
1183	Loss of Hepatic Angiotensinogen Attenuates Sepsis-Induced Myocardial Dysfunction. <b>2021</b> , 129, 547-564	4
1182	Non-Lyn Src Family Kinases Activate SIRP $\alpha$ HP-1 to Inhibit PI3K-Akt2 and Dampen Proinflammatory Macrophage Polarization. <b>2021</b> , 207, 1419-1427	2
1181	The complex roles of efferocytosis in cancer development, metastasis, and treatment. <b>2021</b> , 140, 111776	5
1180	Low concentrations of lead disturb phenotypical markers of the inflammatory and the anti-inflammatory profile of bone marrow-derived macrophages from BALB/c mice. <b>2021</b> , 460, 152885	0
1179	Anti-Inflammatory Effects Induced by Near-Infrared Light Irradiation through M2 Macrophage Polarization. <b>2021</b> , 141, 2056-2066.e10	1
1178	Caveolin-1 Deficiency Protects Mice Against Carbon Tetrachloride-Induced Acute Liver Injury Through Regulating Polarization of Hepatic Macrophages. <b>2021</b> , 12, 713808	2
1177	Macrophage HIF-2 $\beta$ suppresses NLRP3 inflammasome activation and alleviates insulin resistance. <b>2021</b> , 36, 109607	4
1176	The Bigger Picture: Why Oral Mucosa Heals Better Than Skin. <b>2021</b> , 11,	6
1175	Plasma extracellular vesicles released after severe burn injury modulate macrophage phenotype and function. <b>2021</b> ,	3
1174	Hidden Treasures: Macrophage Long Non-Coding RNAs in Lung Cancer Progression. <b>2021</b> , 13,	1
1173	Mitochondrial Dysfunction in Vascular Wall Cells and Its Role in Atherosclerosis. <b>2021</b> , 22,	5
1172	()-5-hydroxy-7-methoxy-3-(2'-hydroxybenzyl)-4-chromanone isolated from <i>L.</i> suppresses LPS-induced inflammation in RAW 264.7 macrophages by downregulating inflammatory factors. <b>2021</b> , 43, 611-621	2
1171	Role of Transforming Growth Factor- $\beta$ in Regulating Fetal-Maternal Immune Tolerance in Normal and Pathological Pregnancy. <b>2021</b> , 12, 689181	5

1170	Exosomes Derived from Human Umbilical Cord Mesenchymal Stem Cells Regulate Macrophage Polarization to Attenuate Systemic Lupus Erythematosus-Associated Diffuse Alveolar Hemorrhage in Mice. <b>2021</b> , 14, 331-340	8
1169	TLR-4 Agonist Induces IFN- $\beta$ Production Selectively in Proinflammatory Human M1 Macrophages through the PI3K-mTOR- and JNK-MAPK-Activated p70S6K Pathway. <b>2021</b> , 207, 2310-2324	1
1168	Subacute cadmium exposure promotes M1 macrophage polarization through oxidative stress-evoked inflammatory response and induces porcine adrenal fibrosis. <b>2021</b> , 461, 152899	7
1167	Cancer derived exosomes induce macrophages immunosuppressive polarization to promote bladder cancer progression. <b>2021</b> , 19, 93	5
1166	Enhancement of acellular cartilage matrix scaffold by Wharton's jelly mesenchymal stem cell-derived exosomes to promote osteochondral regeneration. <b>2021</b> , 6, 2711-2728	23
1165	HA-coated collagen nanofibers for urethral regeneration via in situ polarization of M2 macrophages. <b>2021</b> , 19, 283	2
1164	Prolonged exposure to the herbicide atrazine suppresses immune cell functions by inducing spleen cell apoptosis in rats. <b>2021</b> , 220, 112386	3
1163	Immunomodulation and osseointegration activities of NaTiO nanorods-arrayed coatings doped with different Sr content.. <b>2022</b> , 10, 323-334	0
1162	The Role of Type I Interferon Signaling in Regulating Cytokine Production and Cell Survival in Bone Marrow-Derived Macrophages. <b>2021</b> , 34, 470-482	0
1161	TNFSF9 promotes metastasis of pancreatic cancer through Wnt/Snail signaling and M2 polarization of macrophages. <b>2021</b> , 13, 21571-21586	3
1160	SIRP $\beta$ sequesters SHP-2 to promote IL-4 and IL-13 signaling and the alternative activation of macrophages. <b>2021</b> , 14, eabb3966	2
1159	Nanotherapies for sepsis by regulating inflammatory signals and reactive oxygen and nitrogen species: New insight for treating COVID-19. <b>2021</b> , 45, 102046	12
1158	TLR7 Agonist Suppresses Group 2 Innate Lymphoid Cell-mediated Inflammation via IL-27-Producing Interstitial Macrophages. <b>2021</b> , 65, 309-318	1
1157	Myeloid-specific deletion of ferroportin impairs macrophage bioenergetics but is disconnected from systemic insulin action in adult mice. <b>2021</b> , 321, E376-E391	1
1156	Strontium-incorporated titanium implant surfaces treated by hydrothermal treatment enhance rapid osseointegration in diabetes: A preclinical vivo experimental study. <b>2021</b> , 32, 1366-1383	2
1155	The Presence and Potential Role of ALDH1A2 in the Glioblastoma Microenvironment. <b>2021</b> , 10,	0
1154	Effects of living and metabolically inactive mesenchymal stromal cells and their derivatives on monocytes and macrophages. <b>2021</b> , 13, 1160-1176	0
1153	LncRNA MIR155HG induces M2 macrophage polarization and drug resistance of colorectal cancer cells by regulating ANXA2. <b>2021</b> , 1	4

1152	Protective Effect of Tangshen Formula () on Interstitial Cells of Cajal in Colon of Diabetic Rats. <b>2021</b> , 1	
1151	Supervillin Contributes to LPS-induced Inflammatory Response in THP-1 Cell-derived Macrophages. <b>2021</b> , 1	0
1150	Sulforaphane-Dependent Up-Regulation of NRF2 Activity Alleviates Both Systemic Inflammatory Response and Lung Injury After Hemorrhagic Shock/Resuscitation In Mice. <b>2021</b> ,	2
1149	Extracellular Vesicles (Exosomes) as Immunosuppressive Mediating Variables in Tumor and Chronic Inflammatory Microenvironments. <b>2021</b> , 10,	3
1148	IL-33/ST2 Axis Plays a Protective Effect in Infection through Strengthening of the Innate Immunity. <b>2021</b> , 22,	0
1147	CP-25 exerts therapeutic effects in mice with dextran sodium sulfate-induced colitis by inhibiting GRK2 translocation to downregulate the TLR4-NF- $\kappa$ B-NLRP3 inflammasome signaling pathway in macrophages. <b>2021</b> , 73, 1406-1422	2
1146	The role of IL-32 in Bacillus Calmette-Guérin (BCG)-induced trained immunity in infections caused by different Leishmania spp. <b>2021</b> , 158, 105088	2
1145	Mechanistic Insight into PPAR $\gamma$ and Tregs in Atherosclerotic Immune Inflammation. <b>2021</b> , 12, 750078	7
1144	Transcriptome profiling reveals new insights into the roles of neuronal nitric oxide synthase on macrophage polarization towards classically activated phenotype. <b>2021</b> , 16, e0257908	0
1143	MiR-145-5p modulates lipid metabolism and M2 macrophage polarization by targeting PAK7 and regulating Eatenin signaling in hyperlipidemia. <b>2021</b> , 99, 857-863	2
1142	UPR attenuates the proinflammatory effect of HPDLF on macrophage polarization. <b>2021</b> , 26, 937-944	1
1141	Ovotransferrin exerts bidirectional immunomodulatory activities via TLR4-mediated signal transduction pathways in RAW264.7 cells. <b>2021</b> , 9, 6162-6175	1
1140	The Emerging Plasticizer Alternative DINCH and Its Metabolite MINCH Induce Oxidative Stress and Enhance Inflammatory Responses in Human THP-1 Macrophages. <b>2021</b> , 10,	2
1139	Huang-Lian-Jie-Du Decoction Attenuates Atherosclerosis and Increases Plaque Stability in High-Fat Diet-Induced ApoE Mice by Inhibiting M1 Macrophage Polarization and Promoting M2 Macrophage Polarization. <b>2021</b> , 12, 666449	1
1138	Macrophages in Atherosclerosis, First or Second Row Players?. <b>2021</b> , 9,	1
1137	Selenium Deficiency Aggravates Heat Stress Pneumonia in Chickens by Disrupting the M1/M2 Balance. <b>2021</b> , 1	3
1136	The critical role of mesenchymal stromal/stem cell therapy in COVID-19 patients: An updated review. <b>2021</b> , 39, 945-954	2
1135	A hitchhiker's guide through the COVID-19 galaxy. <b>2021</b> , 232, 108849	0

1134	Selective Induction of Cell Death in Human M1 Macrophages by Smac Mimetics Is Mediated by cIAP-2 and RIPK-1/3 through the Activation of mTORC. <b>2021</b> , 207, 2359-2373	1
1133	Tumor immune microenvironment in epidermal growth factor receptor-mutated non-small cell lung cancer before and after epidermal growth factor receptor tyrosine kinase inhibitor treatment: a narrative review. <b>2021</b> , 10, 3823-3839	3
1132	Reduced innate lymphoid cells in the endometrium of women with endometriosis. <b>2021</b> , e13502	1
1131	Inflammation in Asthma Pathogenesis: Role of T cells, Macrophages, Epithelial Cells and Type 2 Inflammation. <b>2021</b> ,	1
1130	VitA or VitD ameliorates bronchopulmonary dysplasia by regulating the balance between M1 and M2 macrophages. <b>2021</b> , 141, 111836	1
1129	Immunomodulatory effects of tricalcium silicate-based cements on osteogenesis. <b>2021</b> , 24, 101145	2
1128	Dioscin ameliorates murine ulcerative colitis by regulating macrophage polarization. <b>2021</b> , 172, 105796	10
1127	Dysregulation of cholesterol homeostasis in human lung cancer tissue and tumour-associated macrophages. <b>2021</b> , 72, 103578	6
1126	HIF-1 $\alpha$ activator DMOG inhibits alveolar bone resorption in murine periodontitis by regulating macrophage polarization. <b>2021</b> , 99, 107901	6
1125	Discovery of bioactive polycyclic polyprenylated acylphloroglucinols from <i>Hypericum wilsonii</i> . <b>2021</b> , 115, 105246	1
1124	Paraquat promotes acute lung injury in rats by regulating alveolar macrophage polarization through glycolysis. <b>2021</b> , 223, 112571	4
1123	Immune responses to injury and their links to eye disease. <b>2021</b> , 236, 52-71	7
1122	The roles of MCP-1/CCR2 mediated macrophage recruitment and polarization in bladder outlet obstruction (BOO) induced bladder remodeling. <b>2021</b> , 99, 107947	1
1121	Modulating immune microenvironment during bone repair using biomaterials: Focusing on the role of macrophages. <b>2021</b> , 138, 110-120	4
1120	M2 macrophage polarization in chronic spontaneous urticaria refractory to antihistamine treatment. <b>2021</b> , 70, 504-506	0
1119	Monocytes and macrophages in ANCA-associated vasculitis. <b>2021</b> , 20, 102911	8
1118	Irf1- and Egr1-activated transcription plays a key role in macrophage polarization: A multiomics sequencing study with partial validation. <b>2021</b> , 99, 108072	3
1117	Bisphenol F promotes the secretion of pro-inflammatory cytokines in macrophages by enhanced glycolysis through PI3K-AKT signaling pathway. <b>2021</b> , 350, 30-39	1



1116	Polarization of rheumatoid macrophages is regulated by the CDKN2B-AS1/ MIR497/TXNIP axis. <b>2021</b> , 239, 23-31	1
1115	Formaldehyde reinforces pro-inflammatory responses of macrophages through induction of glycolysis. <b>2021</b> , 282, 131149	1
1114	1,10-Seco-Eudesmane sesquiterpenoids as a new type of anti-neuroinflammatory agents by suppressing TLR4/NF- $\kappa$ B/MAPK pathways. <b>2021</b> , 224, 113713	6
1113	Chemical characterization and multifunctional neuroprotective effects of sesquiterpenoid-enriched <i>Inula britannica</i> flowers extract. <b>2021</b> , 116, 105389	1
1112	Protective effect of cynaroside on sepsis-induced multiple organ injury through Nrf2/HO-1-dependent macrophage polarization. <b>2021</b> , 911, 174522	3
1111	Recent advancement on development of drug-induced macrophage polarization in control of human diseases. <b>2021</b> , 284, 119914	3
1110	Novel prognostic model established for patients with head and neck squamous cell carcinoma based on pyroptosis-related genes. <b>2021</b> , 14, 101233	7
1109	(-)-Epigallocatechin-3-gallate (EGCG) modulates polarized macrophages to suppress M1 phenotype and promote M2 polarization in vitro and in vivo. <b>2021</b> , 87, 104743	2
1108	Response of RAW 264.7 and J774A.1 macrophages to particles and nanoparticles of a mesoporous bioactive glass: A comparative study. <b>2021</b> , 208, 112110	1
1107	Anti-inflammatory activities of Italian Chestnut and Eucalyptus honeys on murine RAW 264.7 macrophages. <b>2021</b> , 87, 104752	0
1106	Extraction, structural characterization, and immunostimulatory activity of soluble non-starch polysaccharides of finger millet. <b>2021</b> , 111, 40-50	0
1105	Characterization of inflammatory changes in the breast cancer associated adipose tissue and comparison to the unaffected contralateral breast. <b>2021</b> , 39, 101659	
1104	Upregulation of autophagy in M2 macrophage by vitamin D alleviates crystalline silica-induced pulmonary inflammatory damage. <b>2021</b> , 225, 112730	0
1103	ACVR1 extends inflammatory responses in human induced pluripotent stem cell-derived macrophages. <b>2021</b> , 153, 116129	3
1102	Human macrophage polarization in the response to genomic DNA. <b>2021</b> , 2, 100015	0
1101	Role of Bladder Cancer Metabolic Reprogramming in the Effectiveness of Immunotherapy. <b>2021</b> , 13,	3
1100	Mechanical Loading Mitigates Osteoarthritis Symptoms by Regulating the Inflammatory Microenvironment.	
1099	Macrophage contributes to radiation-induced anti-tumor abscopal effect on transplanted breast cancer by HMGB1/TNF- $\beta$ -signaling factors. <b>2021</b> , 17, 926-941	3

1098	CD47 expression in gastric cancer clinical correlates and association with macrophage infiltration. <b>2021</b> , 70, 1831-1840	7
1097	The Paradox Effect of Calcification in Carotid Atherosclerosis: Microcalcification is Correlated with Plaque Instability. <b>2021</b> , 22,	5
1096	Cell-derived biomimetic nanocarriers for targeted cancer therapy: cell membranes and extracellular vesicles. <b>2021</b> , 28, 1237-1255	11
1095	Encyclopedia of Molecular Pharmacology. <b>2021</b> , 1-6	
1094	Physicochemical properties of polysaccharides from Ligusticum chuanxiong and analysis of their anti-tumor potential through immunoregulation. <b>2021</b> , 12, 1719-1731	4
1093	Ultra-purification of Lipopolysaccharides reveals species-specific signalling bias of TLR4: importance in macrophage function. <b>2021</b> , 11, 1335	3
1092	Contribution of oxidative stress in the mechanisms of postoperative complications and multiple organ dysfunction syndrome. <b>2021</b> , 26, 35-44	2
1091	Rheumatoid arthritis CD14 monocytes display metabolic and inflammatory dysfunction, a phenotype that precedes clinical manifestation of disease. <b>2021</b> , 10, e1237	11
1090	shifts macrophage polarization toward M1-like phenotype with an altered cytokine profile. <b>2021</b> , 13, 1868152	3
1089	USP2-Related Cellular Signaling and Consequent Pathophysiological Outcomes. <b>2021</b> , 22,	8
1088	Exercise reduces metabolic burden while altering the immune system in aged mice. <b>2021</b> , 13, 1294-1313	2
1087	Mechanism of SMND-309 Against Lung Injury Induced by Chronic Intermittent Hypoxia.	
1086	Nanomedicine-based cancer immunotherapies developed by reprogramming tumor-associated macrophages. <b>2021</b> , 13, 4705-4727	14
1085	Phytochemical drug candidates for the modulation of peroxisome proliferator-activated receptor $\alpha$ in inflammatory bowel diseases. <b>2020</b> , 34, 1530-1549	9
1084	Macrophages at the nexus of mesenchymal stromal cell potency: The emerging role of chemokine cooperativity. <b>2021</b> , 39, 1145-1154	13
1083	Preparation of Hyaluronic Acid-Based Nanoparticles for Macrophage-Targeted MicroRNA Delivery and Transfection. <b>2020</b> , 2118, 99-110	3
1082	Macrophages skew towards M1 profile through reduced CD163 expression in symptomatic apical periodontitis. <b>2020</b> , 24, 4571-4581	9
1081	Gd-metallofullerenol drug delivery system mediated macrophage polarization enhances the efficiency of chemotherapy. <b>2020</b> , 320, 293-303	6

1080	Macrophages: an indispensable piece of ovarian health. <b>2021</b> , 104, 527-538	2
1079	Aberrant lipid metabolism in hepatocellular carcinoma cells as well as immune microenvironment: A review. <b>2020</b> , 53, e12772	26
1078	Aberrant invasion of nervous fibers in endometriosis: the role of estrogens. <b>2020</b> , 26, 104	2
1077	Age-related M1/M2 phenotype changes in circulating monocytes from healthy/unhealthy individuals. <b>2018</b> , 10, 1268-1280	24
1076	Dexmedetomidine inhibits LPS-induced proinflammatory responses via suppressing HIF1 $\alpha$ -dependent glycolysis in macrophages. <b>2020</b> , 12, 9534-9548	5
1075	IL-22 promotes tumor growth of breast cancer cells in mice. <b>2020</b> , 12, 13354-13364	4
1074	Accelerated Atherosclerosis in Rheumatoid Arthritis: Mechanisms and Treatment. <b>2019</b> , 25, 969-986	8
1073	Medicinal Plants As Natural Polarizers of Macrophages: Phytochemicals and Pharmacological Effects. <b>2019</b> , 25, 3225-3238	10
1072	Pro-inflammatory Cytokines in Acute Coronary Syndromes. <b>2020</b> , 26, 4624-4647	9
1071	Specific function and modulation of teleost monocytes/macrophages: polarization and phagocytosis. <b>2019</b> , 40, 146-150	32
1070	Mesenchymal stromal cell activation by breast cancer secretomes in bioengineered 3D microenvironments. <b>2019</b> , 2,	20
1069	Up-regulation of CD163 expression in subpopulations of blood monocytes after kidney allograft transplantation. <b>2020</b> , 69, 885-896	2
1068	New Insights on the Role of Lipid Metabolism in the Metabolic Reprogramming of Macrophages. <b>2019</b> , 10, 2993	77
1067	Functioning of Long Noncoding RNAs Expressed in Macrophage in the Development of Atherosclerosis. <b>2020</b> , 11, 567582	2
1066	The Impact of Immune Cells on the Skeletal Muscle Microenvironment During Cancer Cachexia. <b>2020</b> , 11, 1037	12
1065	Chronic Inflammation and Radiation-Induced Cystitis: Molecular Background and Therapeutic Perspectives. <b>2020</b> , 10,	3
1064	Platelet Transforming Growth Factor- $\beta$ Induces Liver Sinusoidal Endothelial Cells to Secrete Interleukin-6. <b>2020</b> , 9,	3
1063	Effects of Eltrombopag on In Vitro Macrophage Polarization in Pediatric Immune Thrombocytopenia. <b>2020</b> , 22,	7

1062	Soluble mannose receptor as a predictor of prognosis of hepatitis B virus-related acute-on-chronic liver failure. <b>2019</b> , 25, 5667-5675	4
1061	Tumor microenvironment in primary liver tumors: A challenging role of natural killer cells. <b>2020</b> , 26, 4900-4918	10
1060	Functions of CD169 positive macrophages in human diseases (Review). <b>2021</b> , 14, 26	5
1059	Immune cell infiltration and related core genes expression characteristics in eosinophilic and non-eosinophilic chronic rhinosinusitis with nasal polyps. <b>2020</b> , 20, 180	1
1058	Obesity and Breast Cancer: The Role of Crown-Like Structures in Breast Adipose Tissue in Tumor Progression, Prognosis, and Therapy. <b>2020</b> , 23, 233-245	20
1057	Ubiquitin E3 Ligase Pellino-1 Inhibits IL-10-mediated M2c Polarization of Macrophages, Thereby Suppressing Tumor Growth. <b>2019</b> , 19, e32	10
1056	Viperin Differentially Induces Interferon-Stimulated Genes in Distinct Cell Types. <b>2019</b> , 19, e33	2
1055	Deciphering Macrophage Phenotypes upon Lipid Uptake and Atherosclerosis. <b>2020</b> , 20, e22	7
1054	Mesenchymal stromal cells as potential immunomodulatory players in severe acute respiratory distress syndrome induced by SARS-CoV-2 infection. <b>2020</b> , 12, 731-751	11
1053	MicroRNA sequences modulating inflammation and lipid accumulation in macrophage "foam" cells: Implications for atherosclerosis. <b>2020</b> , 12, 303-333	3
1052	Metabolic and non-metabolic liver zonation is established non-synchronously and requires sinusoidal Wnts. <b>2020</b> , 9,	22
1051	Pro-inflammatory response ensured by LPS and Pam3CSK4 in RAW 264.7 cells did not improve a fungistatic effect on infection. <b>2020</b> , 8, e10295	2
1050	Exosomes derived from M0, M1 and M2 macrophages exert distinct influences on the proliferation and differentiation of mesenchymal stem cells. <b>2020</b> , 8, e8970	16
1049	Conditioned medium from M2b macrophages modulates the proliferation, migration, and apoptosis of pulmonary artery smooth muscle cells by deregulating the PI3K/Akt/FoxO3a pathway. <b>2020</b> , 8, e9110	5
1048	Chloroquine potentially modulated innate immune response to <i>Vibrio parahaemolyticus</i> in RAW 264.7 macrophages. <b>2021</b> , 32, 606-624	
1047	Representing Tumor-Associated Macrophages as the Angiogenesis and Tumor Microenvironment Regulator. <b>2021</b> , 4, 52-67	
1046	Liposomal honokiol inhibits glioblastoma growth through regulating macrophage polarization.. <b>2021</b> , 9, 1644	1
1045	Chitosan-Based Hydrogels for Tissue Engineering. <b>2021</b> , 519-571	0

1044	Zhike Pingchuan Granule suppresses interleukin (IL)-6 or the medium of M2 macrophages induced apoptosis in human bronchial epithelial cells. <b>2021</b> , 12, 7694-7703	1
1043	Bacterial Cellulose as a Potential Bio-Scaffold for Effective Re-Epithelialization Therapy. <b>2021</b> , 13,	5
1042	Roles of Crosstalk between Astrocytes and Microglia in Triggering Neuroinflammation and Brain Edema Formation in 1,2-Dichloroethane-Intoxicated Mice. <b>2021</b> , 10,	6
1041	Cell Membrane Vesicles with Enriched CXCR4 Display Enhances Their Targeted Delivery as Drug Carriers to Inflammatory Sites. <b>2021</b> , 8, e2101562	1
1040	MicroRNA in extracellular vesicles regulates inflammation through macrophages under hypoxia. <b>2021</b> , 7, 285	1
1039	LncRNA-SNHG1 promotes macrophage M2-like polarization and contributes to breast cancer growth and metastasis. <b>2021</b> , 13, 23169-23181	5
1038	Single-Cell Transcriptome Profiling Identifies Phagocytosis-Related Dual-Feature Cells in A Model of Acute Otitis Media in Rats. <b>2021</b> , 12, 760954	0
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