

免疫 | 2026-10 月度文献报告

碱基日读 · 作者 碱基 · 数据来源 PubMed / bioRxiv 官方接口 · 本月收录 759 篇，正文详述其中 30 篇

本月概览

本月最集中的信号，是境遇依赖性免疫调控从描述性观察走向精确机制。两篇同日发表于Nature的研究从相反方向确认了这一方向：脱发只在特定毛发周期窗口叠加交感神经激活时才由Treg缺失引发（PMID: 42816609），而既往蠕虫感染史通过训练肺间质巨噬细胞亚群，赋予了对致死性流感的容忍能力（PMID: 42816626）。这两项研究共同说明的不是某个具体靶点有用，而是同一个靶点在不同境遇下行为截然不同。同期，Cell Research鉴定了一条在人类肿瘤细胞中存在、在小鼠中缺失的FXR-TRIM22-STAT1蛋白稳态轴，首次提供了放疗免疫激活效果人鼠差异的分子解释（PMID: 42816648）。此外，Aire在外周B细胞中的非胸腺功能（PMID: 42815461）、孢子虫穿刺运动作为先天免疫触发器（PMID: 42816580），以及肿瘤中性粒细胞-造血前体细胞的自放大回路（PMID: 42837412），为本月再添三条机制层次的新线索。宏观看，巨噬细胞生物学持续向M1/M2框架之外扩张，但各机制研究相互独立、缺乏整合。

值得细看的研究

双击才能引爆：毛囊干细胞破坏的时序门控

（PMID: 42816609）这项Nature研究在小鼠中建立了自身免疫性脱发的精确双击模型。第一击是Treg细胞的短暂清除，但单独执行并不引发疾病；第二击是交感神经活动的时序条件——只有在毛发生长期（anagen）发生Treg缺失才能引发CD8+ T细胞介导的免疫豁免毛囊干细胞（HFSC）破坏和脱发，相同操作在休止期（telogen）不产生这一后果。机制上，交感去甲肾上腺素通过HFSC内源性ADRB2驱动内源性逆转录病毒（ERV）的生理性重新激活；在Treg缺失条件下，这一ERV活化状态触发AIM2依赖的先天免疫激活，进而引发病理性CD8+ T细胞应答。心理应激或光遗传学激活交感神经，均可将原本耐受的休止期皮肤转变为易感靶点；遗传性Aim2敲除或药理学抑制ERV逆转录酶则阻断了疾病发生。光遗传学激活这一环节提供了神经成分的因果证明而非仅仅相关性，这是该研究机制证据链的最强节点。全部实验在小鼠中完成；人类斑秃发作与毛发周期时序的对应关系尚无直接临床数据。对领域的意义在于它将交感神经活动、ERV重新激活与器官特异性Treg失调三条原本独立的线索整合进一个统一回路，并提供了ERV逆转录酶抑制这一具体干预靶点。

II型免疫史训练肺巨噬细胞：容忍而非清除

（PMID: 42816626）同日发表于Nature的这篇论文回答了一个反直觉的问题：为何蠕虫感染史能保护对抗异源病毒。粪线虫（*Nippostrongylus brasiliensis*）感染后，一类神经与气道相关巨噬细胞（NAM）短暂扩增并获得表观遗传印记的训练免疫。在异源挑战模型中，既往感染过*N. brasiliensis*的小鼠面对致死性H1N1流感攻击时全部存活，而未处理对照组在第5-6天全部死亡。保护发生时病毒载量没有减少，T细胞应答也未增强，而是通过减轻免疫病理、扩大II型信号、增加胞葬作用和加速组织修复实现的。利用NAM-DTR小鼠证明NAM是必要且充分的：清除条件性NAM或以未经训练的NAM替换均废除保护，过继转移条件性NAM则在不增强病毒清除的前提下赋予容忍能力。基因组分析指向IL-4-STAT6-PPAR γ 和ARG1染色质程序作为印记机制。该研究的核心意义在于对“疫苗设计的目标是清除病原体”这一

默认假设提出了挑战，容忍也是可以独立设计的保护端点。主要限制是蠕虫-流感的跨域组合在自然界中不构成典型的共暴露情境，机制的可推广范围尚不清楚。

人类肿瘤中的放疗刹车：FXR-TRIM22-STAT1轴

(PMID: 42816648) 这项Cell Research研究鉴定了一条人类偏移的肿瘤内在蛋白稳态检查点，为放射免疫学的核心谜题提供了分子解释。电离辐射通过USP7依赖的去泛素化稳定核受体FXR；FXR转录诱导E3连接酶TRIM22；TRIM22与STAT1结合并催化其K48连接泛素化降解，从而熄灭cGAS-STING下游的干扰素刺激基因程序。这一回路在小鼠肿瘤细胞中缺失——小鼠没有能够去稳定STAT1的TRIM22家族成员——这直接解释了为何放疗在小鼠中能激发更强的免疫应答。遗传性破坏FXR或TRIM22能够保留STAT1、放大I型干扰素信号；熊去氧胆酸（UDCA）通过干预这一轴增强了放疗的免疫效果。UDCA用于放疗联合治疗的临床可行性需要前瞻性人类试验验证，机制同时也提示了需要排除UDCA对肿瘤以外组织中STAT1信号的系统性影响。

孢子虫穿越宿主细胞触发独特先天感知

(PMID: 42816580) 减毒疟原虫孢子虫候选疫苗能激发强免疫，但先天激活机制不清。这项Nature Microbiology研究将分选的GFP+ 伯氏疟原虫和恶性疟原虫孢子虫直接加至骨髓来源巨噬细胞和人外周血单核细胞，发现孢子虫产生类似细胞损伤应答的激活模式，而非经典的病原相关分子模式识别。穿越宿主细胞能力缺陷的孢子虫不能激活巨噬细胞，也不能在体内有效启动保护性CD8+ T细胞免疫。这一损伤应答不依赖炎症小体或Toll样受体信号，而需要 $\gamma\delta$ T细胞——后者已知对疟原虫特异性CD8+ T细胞应答有支持作用。材料纯度由分选控制，并在小鼠和人类细胞中均进行了测试。体外和小鼠模型仍是主要证据来源，孢子虫疫苗在人体内的先天激活逻辑是否与此一致，需要临床免疫学数据确认。

Aire在外周B细胞中限制天然IgM稳态

(PMID: 42815461) 这项Immunity研究将Aire的功能版图从胸腺髓质上皮细胞延伸至外周抗体分泌细胞（ASC）。脾脏和骨髓的ASC表达Aire，IgM+ 细胞中表达最高；这些Aire+IgM+ 细胞具有天然IgM分泌细胞的典型特征：不依赖T细胞、具有独特的免疫库特征、主要来源于B-1a和边缘区B细胞。稳健诱导Aire需要通过B细胞活化因子（BAFF）或APRIL的TNFSF协同信号，揭示了一条此前未认识的TNF超家族控制Aire诱导的途径。在这些细胞中，Aire不驱动乱序基因表达，而是从内部限制细胞数量，调节稳态天然多反应性IgM。这一发现为APECED综合征（Aire功能缺失）的多器官自身免疫表现增加了外周B细胞维度的解释空间，但外周Aire缺失对患者表型的净贡献尚未被量化。

中性粒细胞-造血前体细胞自放大回路维持肿瘤免疫抑制

(PMID: 42837412) 这项JCI研究描述了一个驱动脾脏免疫抑制性髓系造血的自维持机制。肿瘤相关中性粒细胞产生活性氧（ROS），在脾脏造血干祖细胞（HSPC）中激活FOXO1，驱动DRP1介导的线粒体分裂，将HSPC编程为髓系扩增和免疫抑制性输出；子代中性粒细胞又强化脾脏氧化应激，形成正反馈环路。遗传性Cybb敲除或脾脏靶向ROS清除可抑制FOXO1激活、保持线粒体融合形态；阻断FOXO1或DRP1则减少抑制性髓系细胞产生并恢复细胞毒性T细胞活性。来自癌症患者脾脏样本的分析以及脐带血HSPC与中性粒细胞共培养实验提供了人类相关性的支持，但这些属于相关性数据而非功能性验证。该机制从结构上解释了肿瘤免疫抑制的持续性，而不只是某一时间点的截面观察。

其他值得记录的发现

STAT1功能获得性突变（T385M）通过促进CXCR3+ Tfh1样细胞分化和生发中心应答失调，驱动IFN- γ 分泌型Tfh1细胞产生与自身抗体形成；IFN- γ 中和在体内减少了这些自身免疫应答（PMID: 42815782）。体内编辑的CCR7+IL-7+ 树突状细胞通过在肿瘤引流淋巴结中促进Tscm分化，在B16F10预防模型中使80%的小鼠抑制了远端肿瘤形成（PMID: 42815468）。TAM对肿瘤细胞的troglanocytosis效率与肿瘤细胞皮质刚度负相关，通过上调CXCL5和Arg-1导致CD8+ T细胞耗竭；这一机械-免疫轴在人类细胞系和临床样本中有相关性支持（PMID: 42813956）。空间转录组与MERFISH联合分析揭示ICI在脑中引发不良反应的T细胞-小胶质细胞串扰轴，条件性删除T细胞证明其对ICI驱动小胶质细胞激活不可或缺（PMID: 42813238）。

趋势判断

- 境遇作为解释变量正在系统性格，但这也是一个警告信号。** 本月高影响力研究的共同逻辑不是"找到靶点就能预测结果"，而是"同一靶点在不同境遇下行为截然不同"。这对转化医学的直接含义是：单一时间点的横断面分子图谱对这类问题的预测能力系统性不足。但反过来说，境遇变量的不断引入也是一把双刃剑——如果每个免疫结局都需要叠加三到四个境遇条件才能解释，机制的可预测性实际上在下降，而非上升。这一方向的研究进展有价值，但对其转化产出的预期需要保持审慎。

- 人鼠差异从"已知局限"升格为"研究对象本身"。** FXR-TRIM22-STAT1轴（PMID: 42816648）是一个清晰例子：两者之间的差异不是实验误差，而是有机制的、可干预的生物学现实。预期这类物种比较会在肿瘤免疫和感染免疫领域增加，但需要注意：在这类研究中，小鼠仍然是揭示人类特异性机制的反向工具，而不是人类病理的直接模型。

- 巨噬细胞研究横跨多类疾病持续扩张，但可能已接近理论整合的边界。** 本月巨噬细胞相关机制分布在NAM训练免疫（PMID: 42816626）、troglanocytosis（PMID: 42813956）、MrgprD-NF- κ B结肠炎（PMID: 42816791）、SLE衰老表型（PMID: 42776065）和骨关节炎LSP1-SOD1-胞外陷阱轴（PMID: 42814102）五个互相独立的疾病语境中。这体现了这一方向的生产力，但大量各自成立的机制发现在缺乏整合理论的情况下，难以产生跨疾病的预测能力。目前这个方向存在研究投入与理论整合不成比例的问题，值得关注。

- 自放大回路作为持续性致病机制反复出现，但干预节点的选择仍缺乏跨研究依据。** 中性粒细胞-HSPC回路（PMID: 42837412）、ERV-AIM2-CD8+回路（PMID: 42816609）和TAM troglanocytosis-T细胞耗竭机制（PMID: 42813956）都呈现初始触发建立后效应物自我维持的结构。这类机制暗示早期干预有结构性优势，但各研究提议的最佳断点不同，在无跨研究系统比较之前，不宜从单项研究直接推论干预优先级。

这批研究的共同弱点

- 机制依赖急性或遗传操纵模型，临床时序不可直接套用。** 毛发周期精确时控的Treg清除（PMID: 42816609）和N. brasiliensis-H1N1异源挑战（PMID: 42816626）在实验控制精度上是设计的优点，但同时意味着所研究的"境遇"是人工构建的而非自然病程。这些模型证明了机制的存在，但不直接告诉我们临床干预窗口在哪里、能持续多久，以及在共病背景下境遇条件如何改变。

- 人类相关性证据以相关性分析为主，功能验证缺位。** 中性粒细胞-HSPC回路（PMID: 42837412）的人类证据来自患者脾脏样本的相关分析和脐带血体外共培养；TAM troglanocytosis（PMID: 42813956）的临床相关性来自临床样本中标志物与T细胞耗竭的相关。这类数据能支持动物实验的方向性

结论，但不能回答"功能性阻断这一机制在人类中能否重现动物实验效应量"这一核心转化问题。

- 体外到体内的效应衰减规律被系统性低报。** BG@HPCH水凝胶体外实验中，B细胞死亡区域从 $1.93 \pm 0.48\%$ 升至 $91.12 \pm 0.90\%$ ，MSC存活维持于 $98.59 \pm 0.26\%$ （PMID:

42959986）；同一材料在TNF转基因小鼠体内使关节炎指数从 2.88 ± 0.18 降至 $1.81 \pm$

0.13（第28天），BV/TV从 $30.00 \pm 6.74\%$ 升至 $55.66 \pm 1.07\%$ 。体外与体内数字之间的巨大落差是可以预期的，但造成这一落差的具体原因、以及在更复杂疾病背景下落差是否会进一步扩大，在报告中未被分析，这限制了对临床转化前景的评估。

- 小样本基因组分析的解释深度存在结构性上限。** 阿尔茨海默病神经免疫微环境分析（PMID: 42813688）基于9个AD样本和8个对照样本（GSE53697数据集），报告了NF- κ B、IL-17、TNF、MAPK和Notch通路的富集。17例样本量不足以稳健区分疾病异质性亚型，也不足以排除批次效应或主要共变量的干扰。这类分析在提出假设方面有参考价值，但不宜直接作为发病机制的证据。

- 这批文献的主题覆盖范围极宽，内在连贯性有限。** 从鱼类水产免疫（PMID: 42815863，PMID: 42815865）到人类癌症放疗，从骨关节炎巨噬细胞到疟疾先天感知，这些研究共用"免疫"这一标签，但在实验系统、干预靶点和读者群体上几乎没有交叉。综述性文献（PMID: 42815812，PMID:

42817194）和评述文章（PMID:

42817603）进一步稀释了原创实验证据的密度。读者在利用这批文献时，需要明确区分实验来源。

下个月值得关注

ERV重新激活作为自身免疫触发器在毛囊干细胞背景下获得了清晰机制（PMID: 42816609），核心的未回答问题是：这一ERV-AIM2轴是否在其他器官特异性自身免疫中有对应回路，以及逆转录酶抑制剂在相关人类疾病模型中能否重现保护。若其他自身免疫病中有相似报告出现，将实质性增强这一机制的普遍性。

UDCA干预FXR-TRIM22-STAT1轴（PMID: 42816648）是本月转化前景最清晰的一条线索，因为它指向一种已有临床应用的药物与放疗的联合。相关联合治疗的人类试验设计、以及对TRIM22在肿瘤以外组织中分布的系统性评估，是可以在近期追踪的节点。

NAM的IL-4-STAT6-PPAR γ 训练印记机制（PMID: 42816626）为靶向激活肺间质巨噬细胞亚群提供了分子把手。探索这一印记能否用外源性IL-4或STAT6激动剂在没有先发感染的情况下诱导，以及在人类接种前使用此类策略能否改变重症病毒感染结局，将是检验训练免疫临床相关性的直接实验。

$\gamma\delta$ T细胞在孢子虫先天感知中的桥接作用（PMID: 42816580）提示这一细胞群在其他减毒活疫苗免疫保护机制中可能被系统性低估，包括卡介苗。相关疫苗临床试验中 $\gamma\delta$ T细胞应答的前瞻性测量，以及穿刺运动能力与疫苗效力之间的定量关系，是值得在恶性疟原虫疫苗临床数据中检索的指标。

附录：2026-10 全部收录文献（759 篇）

#	标题	期刊	日期	PMID
1	Injectable bioactive glass hydrogels orchestrate metalloimmunotherapy by depleting pathogenic B cells and rescuing bone in rheumatoid arthritis.	Bioactive materials	2027-Feb	42959986
2	Rapid microwave-assisted synthesis of ZnMn dual-atom nanozymes for cancer catalytic immunotherapy.	Biomaterials	2026-Sep-3	42828844
3	Aire is a cell-intrinsic regulator of natural IgM-secreting cells.	Immunity	2026-Sep-3	42815461
4	In vivo-edited CCR7+IL-7+ DCs reverse T cell exhaustion by promoting T memory stem cell differentiation.	Cell reports. Medicine	2026-Sep-3	42815468
5	Hyperactive STAT1 Promotes T Follicular Helper Type 1 Cell Differentiation to Trigger Autoimmunity.	The Journal of allergy and clinical immu	2026-Sep-3	42815782
6	Antigen prioritization and selection for vaccine design and development: A comprehensive pipeline.	Biotechnology advances	2026-Sep-3	42815812
7	A Teleost - Specific Sema4E - like Protein Promotes Grass Carp Reovirus Infection by Upregulating HSP70 Expression.	Fish & shellfish immunology	2026-Sep-3	42815863
8	Ferritin middle-subunit (LcFerM) from large yellow croaker (Larimichthys crocea): molecular features and immune roles against iridovirus (LYCIV) infection.	Fish & shellfish immunology	2026-Sep-3	42815865
9	Targeting Dectin-1/Syk axis alleviates chemotherapy-induced cognitive impairment via STING signaling pathway.	Chemico-biological interactions	2026-Sep-3	42815875
10	Innate immune sensing of Plasmodium sporozoite cell traversal drives protective T cell responses.	Nature microbiology	2026-Sep-3	42816580
11	A two-hit mechanism triggers autoimmune hair loss.	Nature	2026-Sep-3	42816609
12	Type 2 immune history trains lung macrophages for viral disease tolerance.	Nature	2026-Sep-3	42816626
13	Ursodeoxycholic acid enhances cancer radioimmunotherapy by releasing a human-biased FXR-TRIM22-STAT1 immune brake.	Cell research	2026-Sep-3	42816648
14	MrgprD-mediated macrophage polarization drives chemically induced colitis in mice.	The Journal of pathology	2026-Sep-3	42816791
15	Extraintestinal Reprogramming of Colon-Derived CD4+ Intraepithelial Lymphocytes Reveals a Mechanism Underlying the Gut-Joint Axis.	Arthritis & rheumatology (Hoboken, N	2026-Sep-3	42817078
16	The Interactions Between Acetylcholine and T-Cells and Their Role in the Immune System: A Scoping Review.	Immunology	2026-Sep-3	42817194
17	Rethinking colitis: MrgprD puts macrophages in the driver's seat †.	The Journal of pathology	2026-Sep-3	42817603
18	ADP Inhibits Macrophage Senescence via the AMPK/KLF10 Pathway in Systemic Lupus Erythematosus.	FASEB journal : official publication of	2026-Sep-3	42776065
19	CAR signaling instructs divergent metabolic reprogramming and functional fates in α β and γ δ T cells.	Cellular & molecular immunology	2026-Sep-3	42811126
20	NCAPD3 induces M2 polarization of peripheral macrophages in lung adenocarcinoma by promoting the binding of E2F1 to the FOXM1 promoter region.	The Korean journal of physiology & p	2026-Sep-3	42811795
21	Spatial Transcriptomics Reveals a T Cell-Mediated Microglial Activation Axis of Immune Checkpoint Inhibition-Related Adverse Events in the Brain.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-3	42813238

#	标题	期刊	日期	PMID
22	Integrative transcriptomic and regulatory network analysis reveals associations of seven proposed risk genes with immune-related molecular features in Alzheimer's disease.	Journal of Alzheimer's disease : JAD	2026-Sep-3	42813688
23	Macrophage Trogocytosis of Tumor Cells Drives the Immunosuppression of Tumor Microenvironment.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-3	42813956
24	Digoxin Alleviates Osteoarthritis by Inhibiting Macrophage Extracellular Trap Formation via Disruption of the LSP1-SOD1 Interaction.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-3	42814102
25	Neutrophil-Membrane Camouflaged Nanoparticles for Dual Suppression of Pro-Inflammatory Macrophages and Oxidative Stress in Septic Acute Lung Injury.	Advanced healthcare materials	2026-Sep-3	42814515
26	Epithelial interferon- γ responsiveness shapes chemokine induction and clinical outcomes in herpes simplex virus infection.	PLoS pathogens	2026-Sep-3	42814769
27	Computational and biophysical validation of tobramycin targeting Mycobacterium MetE(Rv1133c): implications for anti-tuberculosis activity & rifampicin synergy.	Journal of biomolecular structure &	2026-Sep-3	42814976
28	Carboxymethyl chitosan - sodium alginate dual-loaded drug nanofiber sheet promotes wound healing of diabetic skin.	Biomaterials advances	2026-Sep-2	42832895
29	Neutrophil-progenitor feedback sustains splenic myelopoiesis and promotes immune evasion in cancer.	The Journal of clinical investigation	2026-Sep-2	42837412
30	Qishen granule improves myocardial fibrosis in heart failure via Piezo1/Calpain2/LAMP1/CTSS in CCR2+ macrophages.	Phytomedicine : international journal of	2026-Sep-2	42828847
31	Endoplasmic reticulum stress activated by IBRV induces mitophagy to impair the RIG-I-MAVS-mediated type I interferon pathway and facilitate viral replication.	Veterinary microbiology	2026-Sep-2	42822072
32	Chlorogenic Acid Attenuates Liver Fibrosis in Mice via HIF-1 α Inhibition and M2 Macrophage Polarization.	Current medicinal chemistry	2026-Sep-2	42817082
33	Advances in Antimicrobial Peptides: Design, Mechanism, and Clinical Application-A Critical Review.	Current protein & peptide science	2026-Sep-2	42817128
34	Nanoconjugate Strategy Integrating Immunogenic Cell Death Induction and Innate Immune Activation for Potent Anti-Cancer Immunity.	Advanced materials (Deerfield Beach, Fla	2026-Sep-2	42809051
35	Tumor necrosis factor- α coordinates the macrophage innate immune response to Histoplasma capsulatum.	Infection and immunity	2026-Sep-2	42809420
36	Receptor-tuned Interleukin-2 Mutein Decouples Treg Expansion from ILC2-driven Cutaneous Inflammation.	The Journal of clinical investigation	2026-Sep-2	42809620
37	Immune subtypes of megakaryocytes orchestrate inflammatory and regulatory responses to pulmonary infection via Treg crosstalk.	The Journal of clinical investigation	2026-Sep-2	42809631
38	Defensins-thioredoxin crosstalk in innate immunity: A redox switch linking barrier defense, inflammation, and disease.	Molecular immunology	2026-Sep-2	42810144
39	Spatial evolution of a cachexia-promoting microenvironment in pancreatic cancer.	Cell	2026-Sep-2	42810340
40	Anti-inflammatory and anti-proliferative cyclodepsipeptides from an endophytic fungus Fusarium iranicum YH6.	Phytochemistry	2026-Sep-2	42810564

#	标题	期刊	日期	PMID
41	TaWRKY24 Positively Regulates Wheat Resistance to <i>Puccinia striiformis</i> f. sp. <i>Tritici</i> via Modulation of Defense Signaling and Reactive Oxygen Species Accumulation.	Plant science : an international journal	2026-Sep-2	42810593
42	Lineage Plasticity-Mediated Resistance to CD7-Directed CAR-T Therapy in Relapsed/Refractory T-ALL/LBL.	Transplantation and cellular therapy	2026-Sep-2	42810712
43	IL-2/CD25 acts within the tumor microenvironment to reprogram tumor-specific cytotoxic CD8+ T cells while restraining regulatory T-cell accumulation.	Journal for immunotherapy of cancer	2026-Sep-2	42810810
44	Co-expression of non-signaling CARs enhances EGFRvIII-specific CAR T-cell cytotoxicity against head and neck squamous cell carcinoma.	BMC cancer	2026-Sep-2	42811304
45	Paeoniflorin Attenuates Oxidized Low-Density Lipoprotein-Induced Dysfunction in RAW264.7 Cells with AMP-Activated Protein Kinase Involvement.	Journal of visualized experiments : JoVE	2026-Sep-2	42813696
46	Cell Death and Unprecedented Cytoskeletal Changes in <i>Leishmania amazonensis</i> Parasites Evidenced by 3D Reconstruction.	Chemical & biomedical imaging	2026-Sep-2	42820015
47	Mechanotransduction Promotes Macrophage Apoptosis Resistance in Pulmonary Fibrosis via Metabolic Reprogramming.	bioRxiv : the preprint server for biolog	2026-Sep-2	42818508
48	Inhibitory Fc Receptor sets a time limit on macrophage response to IgG.	bioRxiv : the preprint server for biolog	2026-Sep-2	42818132
49	Paeoniflorin improved intestinal barrier function and immune homeostasis of broiler chickens challenged with <i>Eimeria</i> by modulating gut microbiota and suppressing M1 macrophage-asso	Poultry science	2026-Sep-2	42810086
50	Ningxintong and its active component calycosin stabilize vulnerable atherosclerotic plaques by targeting SIRT7 and inhibiting pyroptosis.	Phytomedicine : international journal of	2026-Sep-2	42815265
51	Targeting PIM kinases in cancer and inflammatory disorders: From mechanisms to clinical translation.	European journal of medicinal chemistry	2026-Sep-2	42822254
52	Experimental model of VZV reactivation reveals vaccine-induced mechanisms of protection against herpes zoster.	medRxiv : the preprint server for health	2026-Sep-2	42818448
53	Adaptive-like features of the γ δ TCR couple chronic BTNL recognition to NK-like tissue immunity.	bioRxiv : the preprint server for biolog	2026-Sep-2	42817942
54	Hepatic cholinergic T cell signaling mediates an adaptive response to alcohol-induced liver stress.	bioRxiv : the preprint server for biolog	2026-Sep-2	42817970
55	A CD4-CD8 T-cell circuit converts cardiac inflammation into tissue injury.	bioRxiv : the preprint server for biolog	2026-Sep-2	42818065
56	Multi-Omic Profiling Defines the Renal Mechanisms of Cardiovascular-Kidney-Metabolic Syndrome in Pulmonary Arterial Hypertension.	bioRxiv : the preprint server for biolog	2026-Sep-2	42818325
57	GM-CSF signaling on monocytes and monocyte-derived dendritic cells is required for effective pulmonary immunity to <i>Aspergillus fumigatus</i> .	bioRxiv : the preprint server for biolog	2026-Sep-2	42818359
58	The application of engineered exosome-mimetic lipid nanoparticles in the hepatic rejuvenation of aged donor livers.	Biomaterials advances	2026-Sep-2	42809987
59	FOXD3 promotes the transcription of RGS13 to inhibit colorectal cancer malignant progression and CD8+ T cell apoptosis.	Histology and histopathology	2026-Oct-3	42958927

#	标题	期刊	日期	PMID
60	Endothelial Cell-Expressed Prion Protein Prnd/Doppel Promotes Long-Term Recovery After Ischemic Stroke.	Stroke	2026-Oct-3	42960431
61	Recent Advances in Synovial Sarcoma: Molecular Insights and Evolving Pharmacological Therapies.	Cancer investigation	2026-Oct-3	42960526
62	Baicalin attenuates malignant progression of salivary adenoid cystic carcinoma by downregulating the STIM1-SOCE/c-Myc/RPL35-mediated ribosomal pathway via ubiquitination.	Journal of natural medicines	2026-Oct-3	42961638
63	HPV-associated extracellular vesicles and the tumor microenvironment: mechanisms of immune modulation and translational implications.	Molecular biology reports	2026-Oct-3	42961687
64	Flavonoids From Sophora tonkinensis Disrupt STING-TBK1-IRF3 Complex Assembly and Ameliorate Inflammatory Diseases by Modulating cGAS-STING Signaling.	Phytotherapy research : PTR	2026-Oct-3	42961780
65	SR-A1 cooperates with TLR4-NF- κ B signaling to drive macrophage TGF- β 1 expression and Treg induction during schistosome infection.	PLoS pathogens	2026-Oct-3	42961990
66	GPRI83 senses 7 α ,25-OHC to drive Treg differentiation and tumor immune evasion via AXL-JAK2-STAT5 signaling.	Science advances	2026-Oct-3	42962000
67	FOSL1-associated condensates modulate superenhancer-mediated selected IL-1 family gene activation in psoriasis.	Science advances	2026-Oct-3	42950026
68	Wdr82-COMPASS coordinates Foxp3 and TCR signaling to sustain Treg cell control of microbiota-driven intestinal inflammation.	Science advances	2026-Oct-3	42950054
69	Tumor-derived amyloid- β drives TREM2+ macrophages immunosuppression in cholangiocarcinoma.	International immunopharmacology	2026-Oct-2	42956578
70	A sex-specific platelet switch controls anti-tumor immunity in glioblastoma.	Cancer cell	2026-Oct-2	42956742
71	Growth factor VEGF-B sustains intestinal Tfh cell stemness to restrict Taurinivorans outgrowth and microbiota-driven obesity.	Immunity	2026-Oct-2	42956746
72	Immunotherapy targeting an endogenous retrovirus decreases islet senescence markers and preserves glucose control in a mouse model of type 2 diabetes.	Molecular metabolism	2026-Oct-2	42956890
73	Nanozyme-Powered Immunotherapy via Concurrent Niche Disruption and Checkpoint Blockade for Acute Myeloid Leukemia.	Acta biomaterialia	2026-Oct-2	42956951
74	Pyroptosis-type I interferon crosstalk in inflammatory myopathies: An evidence-graded reciprocal regulatory model and translational implications.	Autoimmunity reviews	2026-Oct-2	42957011
75	Glycolysis-related hub genes associated with shared resistance signatures to TACE and PD-1 therapy in hepatocellular carcinoma.	Clinica chimica acta; international jour	2026-Oct-2	42957020
76	Quercetin alleviates blood-milk barrier disruption in bovine mastitis by inhibiting macrophage M1 polarization.	Immunology letters	2026-Oct-2	42957054
77	Integrated UPLC-Q-TOF and serum pharmacological analysis: Yinchenhao decoction alleviates alcoholic steatohepatitis via inhibition of COX-2/PI3K/Akt and suppression of M1 macrophag	Journal of ethnopharmacology	2026-Oct-2	42957106

#	标题	期刊	日期	PMID
78	The HvfB operon of <i>Pasteurella multocida</i> : An engineered deletion mutant provides cross-protection as an attenuated candidate vaccine strain.	Veterinary journal (London, England : 19	2026-Oct-2	42957152
79	Non-canonical caspase-8 activation by cathepsin B drives anti-inflammatory human macrophage polarization.	Cell death and differentiation	2026-Oct-2	42957859
80	Caffeic acid mitigates myocardial fibrosis via suppressing MAPKs/CREB-mediated inflammation in myocardial ischemia-reperfusion injury mice.	Chinese medicine	2026-Oct-2	42958408
81	Fuyuan Huoxue Decoction Promotes Lumbar Interbody Fusion in Rats: Role of Macrophage-Driven Inflammation and the TLR9/NF- κ B Pathway.	Advanced science (Weinheim, Baden-Wurtte	2026-Oct-2	42958760
82	Topology-Driven X-Shaped DNA as a cGAS Stimulator to Promote Dendritic Cell Activation and Antitumor Vaccine Efficacy.	Advanced science (Weinheim, Baden-Wurtte	2026-Oct-2	42958766
83	Integrated Single-Cell and Spatial Transcriptomics Reveal Convergence on a Senescence-Associated B Cell-MIF Signaling Axis in Joint Aging and Osteoarthritis Progression.	Advanced science (Weinheim, Baden-Wurtte	2026-Oct-2	42958787
84	Specialized Pro-resolving Mediators and Mimetics: Bridging Resolution Biology and Therapeutic Development.	Current topics in microbiology and immun	2026-Oct-2	42949782
85	The evolving landscape of DLL3-directed Therapeutics in small cell lung cancer.	Cancer treatment reviews	2026-Oct-2	42951714
86	A High-Nuclear Silver Cluster Incorporated Polyoxoniobate Boosts Antitumor Immunity With Low Systemic Toxicity.	Angewandte Chemie (International ed. in	2026-Oct-2	42952413
87	Hybrid Membrane-Coated Nanoplatfom Enables Pyroptosis-Driven Photothermal Immunotherapy via Synergistic STING/TLR4 Activation.	ACS applied materials & interfaces	2026-Oct-2	42953927
88	Environmental PM2.5 exposure associated with lung cancer in nonsmokers: a narrative review of high-risk groups, mechanisms, and implications for screening.	Journal of toxicology and environmental	2026-Oct-2	42954122
89	SARS-CoV-2 membrane (M) protein activates TLR4 to induce an inflammatory response.	mSphere	2026-Oct-2	42954473
90	Impaired NK Cell-Mediated Tumor Surveillance in Atherosclerosis Due to Plaque-Induced PPAR α Dysfunction.	Arteriosclerosis, thrombosis, and vascul	2026-Oct-2	42954894
91	Immunological signatures of sepsis in abdominal solid organ transplant recipients: A multilayer and multicentric prospective cohort study.	Intensive care medicine	2026-Oct-2	42955323
92	RPL22 suppresses tumor growth in undifferentiated/dedifferentiated endometrial carcinoma through IFIT3 downregulation.	Journal of molecular medicine (Berlin, G	2026-Oct-2	42955326
93	Integrated single-cell transcriptomic and experimental analyses identify macrophage-associated STAT3 signaling contributing to ferroptosis-related injury in septic cardiomyopathy.	Molecular biology reports	2026-Oct-2	42955445
94	Acute respiratory distress syndrome FXR/Sptlc2 signaling promotes alveolar macrophage mitophagy and limits lung inflammation.	Cell reports	2026-Oct-2	42955947
95	A commensally regulated immune rheostat fine-tunes skin barrier fitness.	Science (New York, N.Y.)	2026-Oct-2	42956135

#	标题	期刊	日期	PMID
96	Anti-PD-L1 glycoengineering enhances tumor killing through coordinated interactions between PD-L1 DCs and CD16A cytotoxic lymphocytes.	Cancer research communications	2026-Oct-2	42956317
97	Distinct sensing of BCAAs by mTOR and c-Myc governs T cell proliferation, independent of catabolism.	EMBO reports	2026-Oct-2	42957880
98	Synergistic efficacy of the EGFR inhibitor osimertinib with the XPO1 inhibitor selinexor in T-cell acute lymphoblastic leukemia.	Biomarker research	2026-Oct-2	42958372
99	IL-6/CD147-augmented CAR macrophages enhance the antitumor activity of CAR-T cells in solid tumor models.	Biomarker research	2026-Oct-2	42958375
100	A nanoscale map of the human cell surface proteome reveals spatial and functional organization.	Nature structural & molecular biolog	2026-Oct-2	42951938
101	Protease-Responsive Condensation of Engineered Proteins Drives Tumor-Targeted T-Cell Activation.	Angewandte Chemie (International ed. in	2026-Oct-2	42952021
102	Macrophage GLUD1 is Essential for Redox Balance and Immune Homeostasis in Cardiac Injury.	Advanced science (Weinheim, Baden-Wurtte	2026-Oct-2	42952152
103	BRCA1 Mutation-Recognizing Tetrahedral Framework Nucleic Acid Nanoplatfrom Enables Coordinated PARP/WEE1 Inhibition and STING-Associated Antitumor Immunity in Ovarian Cancer.	Advanced science (Weinheim, Baden-Wurtte	2026-Oct-2	42952168
104	A Curcumin-Loaded Iron-Porphyrin Covalent Organic Framework Alleviates Atherosclerosis by Modulating Oxidative Stress and Lipid Metabolism.	Small (Weinheim an der Bergstrasse, Germ	2026-Oct-2	42952270
105	Translating Translation: Lessons from Zotatfin's Clinical Development and the Case for Trials in Lymphoma.	Current oncology reports	2026-Oct-2	42955527
106	Impact of RAG transposon co-option on the evolution of the jawed vertebrate immune system.	Immunogenetics	2026-Oct-2	42946918
107	Phenolic Hydroxyl-Containing Lipid Nanoparticles Enable Codelivery of HPV Peptide Antigens and Manganese Adjuvant for Cancer Immunotherapy.	ACS applied bio materials	2026-Oct-2	42947624
108	Cynarin Targets Host CX3CR1 for Dual-Action Prophylaxis against RSV Infection and Pulmonary Pathology.	Journal of agricultural and food chemist	2026-Oct-2	42949333
109	Single-Nucleus RNA Sequencing Identifies CREM as a Brake on Myofiber Hypertrophy in Chickens.	Advanced science (Weinheim, Baden-Wurtte	2026-Oct-2	42949767
110	Self-Crosslinked Oxidized Xyloglucan Hydrogels Enhance Macrophage Metabolism for Diabetic Wound Healing via the cAMP-PKA Pathway.	Advanced healthcare materials	2026-Oct-2	42949815
111	Targeting Neutrophil Hitchhiking for Drug Delivery to Block CCL5-CCR1 and Effectively Alleviate Acute Lung Injury.	Advanced healthcare materials	2026-Oct-2	42949824
112	MIF-CD74 orchestrates synovial macrophage metabolic-inflammatory reprogramming by ENO2 interaction to drive osteoarthritis pathogenesis.	Science translational medicine	2026-Oct-2	42950016
113	Immune checkpoint gene TIGIT related trans-eQTL polymorphisms confer risk of autoimmune thyroid diseases: a case-control study.	Human immunology	2026-Oct-2	42950596
114	Arginine rewires eIF4F translation initiation to overcome fever-induced CAR T cell dysfunction.	Cell metabolism	2026-Oct-2	42950831

#	标题	期刊	日期	PMID
115	RNA binding motif protein 15 (RBM15) inhibits macrophage phagocytosis via m6A-dependent colony stimulating factor 2 (CSF2)/STAT3 pathway in pancreatic cancer.	International journal of biological macr	2026-Oct-2	42950923
116	Myeloid Suppressor Cells Drive HCC Invasiveness via the THBS1-SDC4 Pathway.	JHEP reports : innovation in hepatology	2026-Oct-2	42951078
117	Isotretinoin Alleviates Rosacea-like Inflammation by Partially Involving TET2 Upregulation and JAK2/STAT3 Suppression.	The Journal of investigative dermatology	2026-Oct-2	42951126
118	Unraveling Neuro-Immune Crosstalk in Dry Eye Disease: Corneal Neuropathy, Lacrimal Dysfunction, and Therapeutic Horizons.	Experimental eye research	2026-Oct-2	42951238
119	Tetrahedral DNA engineered Janus nanoplatform for potentiated Zn2+ interference therapy and cGAS-STING activation via efficient delivery of exogenous DNA.	Journal of controlled release : official	2026-Oct-2	42951258
120	3D model to study the immunomodulatory functions of adipocyte/T lymphocytes paracrine crosstalk.	Biofabrication	2026-Oct-2	42945576
121	Disruption of host E3 ubiquitin ligase Smurf1 promotes resistance to Salmonella by enhancing bacterial clearance and limiting inflammatory tissue damage.	Molecular immunology	2026-Oct-2	42945635
122	Esculetin alleviates mouse transplant rejection by modulating CD4+ T cell functional responses and glycolytic metabolism via the PI3K-AKT-mTOR axis.	International immunopharmacology	2026-Oct-2	42945918
123	Macrophage lipid signaling drives glioblastoma invasion and represents a therapeutic vulnerability.	Cancer cell	2026-Oct-2	42945959
124	Lactylation at the crossroads: a metabolic-epigenetic-immune integrator in intestinal homeostasis and disease.	Journal of genetics and genomics = Yi ch	2026-Oct-2	42946084
125	Lactate-Induced PPP1R1B Upregulation Drives Resistance to Neoadjuvant Immunotherapy in NSCLC via IRF3 Dephosphorylation.	Cancer letters	2026-Oct-2	42946197
126	The fate of cysteine's sulfur in CD8+ T cell function.	Trends in endocrinology and metabolism:	2026-Oct-2	42946636
127	Bibliometric Analysis of Traditional Chinese Medicine-Derived Bioactive Constituents in Macrophage Polarization Regulation.	Journal of visualized experiments : JoVE	2026-Oct-2	42949189
128	Oncogenic Role of PLOD3 in Melanoma Progression via Wnt/ β -catenin Signaling and Tumor Microenvironment Reprogramming.	Journal of visualized experiments : JoVE	2026-Oct-2	42949204
129	Multimodal effects of CD40L blockade in multiple sclerosis: Insights from preclinical and clinical studies.	Multiple sclerosis (Houndmills, Basingst	2026-Oct-2	42935322
130	The physiological roles and pathological implications of metabolic communication via tunneling nanotubes in immune cells.	The FEBS journal	2026-Oct-2	42937000
131	Macrophage heterogeneity and interferon signaling in systemic sclerosis.	Current opinion in rheumatology	2026-Oct-2	42937031
132	Powerhouses of lethality: mitochondria in macrophage antimicrobial activity.	Infection and immunity	2026-Oct-2	42937463
133	Adaptive Cellular Responsiveness to Electrical Stimulation at the Skin-Electrode Interface.	Advanced science (Weinheim, Baden-Wurtte	2026-Oct-2	42944681

#	标题	期刊	日期	PMID
134	Rational Surface Engineering Reduces Advanced Glycation End-Product Adsorption and Improves Implant Integration.	Advanced science (Weinheim, Baden-Wurtte	2026-Oct-2	42944698
135	[Update on immunotherapy in head and neck cancer : New aspects from the ASCO annual meeting 2026].	HNO	2026-Oct-2	42944866
136	Hyperuricemia aggravates acute colitis through NLRP3-associated macrophage-lineage inflammatory responses.	Inflammatory bowel diseases	2026-Oct-2	42945135
137	Pharmacological ON/OFF Regulation of CAR T Cells through Estrogen Receptor-Based Stabilization and Targeted Degradation.	ACS chemical biology	2026-Oct-2	42945362
138	CD28 costimulation is organized by signaling condensates and counteracted by PD-1.	Proceedings of the National Academy of S	2026-Oct-2	42905561
139	A Pathway-Economical Synthesis Enabling Systematic Evaluation: Enantiodivergent Access to Aspidosperma Alkaloids Unlocks Divergent Antitumor Mechanisms.	JACS Au	2026-Oct-2	42953574
140	An injectable ROS-responsive natural drug self-delivery hydrogel relieves neuropathic pain by remodeling DRG macrophage-mediated neuroinflammation.	Biomaterials	2026-Oct-2	42945945
141	Targeting the transcription factor SPI1 attenuates neuroinflammation and dopaminergic degeneration in Parkinson's disease via the tim-3/NF- κ b axis.	Neurotherapeutics : the journal of the A	2026-Oct-2	42933062
142	Signaling pathways of macrophages during Mycobacterium tuberculosis infection and potential anti-tuberculosis therapeutic targets.	International immunopharmacology	2026-Oct-2	42933075
143	Enhancing mRNA-lipid nanoparticle vaccine-induced T cell responses by simple supplementation with class B CpG oligodeoxynucleotides.	International journal of pharmaceutics	2026-Oct-2	42933514
144	A monoclonal antibody against CD3 ϵ enables characterization of T cell activation and metabolic reprogramming in Chinese seabass (Lateolabrax maculatus).	Fish & shellfish immunology	2026-Oct-2	42933518
145	The myeloid transcription factor PU.1 acts through three distal and proximal enhancers to drive TNF induction in human alveolar macrophages.	The Journal of biological chemistry	2026-Oct-2	42933570
146	MUC16 drives macrophage-mediated immunosuppression in pancreatic cancer.	Cancer letters	2026-Oct-2	42933591
147	Analysis of the dynamic evolution and immunosuppressive functions of myeloid cells in gliomas based on single-cell transcriptomics.	Brain research	2026-Oct-2	42933716
148	Intestinal Candida albicans promotes HCC progression and anti-PD-1 resistance via IL-17A and Trem2+ macrophages.	Journal of hepatology	2026-Oct-2	42933735
149	Nuclear BCL10 translocation contributes to lymphoma progression and poor prognosis of peripheral T-cell lymphomas.	European journal of pharmacology	2026-Oct-2	42933765
150	Therapeutic Targeting of the Macrophage YTHDC1/TIGAR/NF- κ B Axis Mitigates Pulmonary Hypertension.	American journal of respiratory and crit	2026-Oct-2	42934119
151	p38 α acts as a molecular switch to differentially regulate the Flt3 and CD115 pathways in dendritic cell development.	Cellular & molecular immunology	2026-Oct-2	42934289

#	标题	期刊	日期	PMID
152	Blocking aryl hydrocarbon receptor remodels myeloid-T cell crosstalk and enhances anti-PD-1 response in the tumor microenvironment.	Experimental hematology & oncology	2026-Oct-2	42934708
153	Stromal CCL2/CXCL10/SPARC axes drive pro-tumor CHI3L1 expression for microenvironmental modulation in pancreatic cancer progression and therapeutic innovation.	Journal of biomedical science	2026-Oct-2	42934719
154	Time-Encoded Ligand Presentation via a Magnetically Actuated Hydrogel Mitigates T Cell Exhaustion.	Advanced materials (Deerfield Beach, Fla	2026-Oct-2	42935099
155	Whole-transcriptome single-cell spatial landscape of instability in human carotid atherosclerosis.	Cardiovascular research	2026-Oct-2	42929042
156	A Biomimetic PLK1 Nanodelivery System Promotes Migrasome-Mediated Mitocytosis to Restore Efferocytosis and Functional Recovery After Spinal Cord Injury.	Advanced science (Weinheim, Baden-Wurtte	2026-Oct-2	42929182
157	Inhalable PD-1 Exosomes Co-Delivering EP2/EP4 Antagonists Remodel the Pulmonary Tumor Microenvironment in Breast Cancer Lung Colonization.	Advanced healthcare materials	2026-Oct-2	42929240
158	Early innate immune signatures correlate with Ad26.COV2.S vaccine immunogenicity and protective efficacy.	Journal of virology	2026-Oct-2	42929544
159	Patient Sociodemographic Factors Impact the Breast Cancer Microenvironment.	Cancer research	2026-Oct-2	42929736
160	Aurora-A promotes tumor progression and remodels the Th2-associated immune microenvironment.	Clinical science (London, England : 1979	2026-Oct-2	42931825
161	Astrocyte-Regulatory T Cell Communication in Neuroinflammation: From Glial Reactivity to Immune Modulation.	Journal of neuroimmune pharmacology : th	2026-Oct-2	42931987
162	miR-125b-5p alleviates sepsis-associated acute lung injury by targeting PTP1B to inhibit the endoplasmic reticulum stress-pyroptosis axis.	In vitro cellular & developmental bi	2026-Oct-2	42932141
163	Type I interferon signaling promotes early innate control of Borrelia burgdorferi infection.	PLoS pathogens	2026-Oct-2	42932384
164	Redox-responsive nanoparticles prevent post-ablation hepatocellular carcinoma recurrence by dual regulation of dendritic cells and tumor cells.	Journal of controlled release : official	2026-Oct-2	42927795
165	Elevated GANAB fuels PD-1/PD-L1 checkpoint-mediated immune escape by maintaining PD-L1 stability in bladder cancer.	Cellular signalling	2026-Oct-2	42927820
166	Transcriptomic analysis reveals enhanced host inflammatory responses associated with TNF- α /NF- κ B signaling pathway during infection with the ASFV CN/SC/2019 pA104R-K5R.	Virus research	2026-Oct-2	42927862
167	Plasma Membrane Lipid Asymmetry Dynamically Regulates Passive Diffusion.	Advanced science (Weinheim, Baden-Wurtte	2026-Oct-2	42928505
168	[pMHCBind: predicting major histocompatibility complex class I-peptide interactions via protein large language models and hypergraph neural networks].	Sheng wu gong cheng xue bao = Chinese jo	2026-Oct-2	42920233
169	Molecular Mechanisms of Immunomodulation by Neural Stem Cells in Spinal Cord Injury: From Macrophage Polarization to Therapeutic Plasticity.	Molecular biology reports	2026-Oct-2	42927573

#	标题	期刊	日期	PMID
170	Saikosaponin A promotes diabetic wound healing by suppressing NLRP3 inflammasome-associated macrophage pyroptosis and modulating mitophagy-related signaling.	Molecular biology reports	2026-Oct-2	42927588
171	Ligulaplenolides A-S, nineteen undescribed eremophilane-type sesquiterpenoids from <i>Ligularia platyglossa</i> and their anti-inflammatory activity.	Bioorganic chemistry	2026-Oct-2	42945715
172	Correlative insights into luteolin regulating the macrophage-p53-CCNB1/CDK1 axis associated with cell-cycle control in hepatocellular carcinoma.	Biochemical and biophysical research com	2026-Oct-2	42950621
173	Paternally Inherited DIO3 Loss and Infantile-Onset Central Hypothyroidism: Human Evidence for a Novel Mechanism of Hypothalamic-Pituitary-Thyroid Axis Dysregulation.	Thyroid : official journal of the Americ	2026-Oct-2	42921690
174	Osteoinductive Microgrooved Membranes for Alveolar Ridge Preservation.	Journal of dental research	2026-Oct-2	42921737
175	Bispecific T-cell engagers beyond hematology: Expanding uses in solid tumors.	Journal of oncology pharmacy practice :	2026-Oct-2	42925305
176	Pharmacological Inhibition of Hexokinase 2 Impairs Hematoma Clearance and Exacerbates Brain Injury After Intracerebral Hemorrhage in Mice.	Translational stroke research	2026-Oct-2	42925448
177	Interpreting the Role of IRF1 in Oxidized Mitochondrial DNA-Driven PANoptosis.	Cell biochemistry and biophysics	2026-Oct-2	42925473
178	mRNA-Guided Therapeutic Strategies in Primary and Metastatic Brain Tumors: Platforms, Targets, and Translational Constraints.	Oncology	2026-Oct-2	42925534
179	Immunometabolic checkpoint: The dual regulatory role of macrophages in islet destruction in type 1 diabetes.	Life sciences	2026-Oct-2	42925924
180	Platelet-macrophage crosstalk in cardiac inflammation and remodeling.	Biochimica et biophysica acta. Molecular	2026-Oct-2	42925935
181	T-cell dysregulation in systemic lupus erythematosus: a four-layered model from extracellular cues to epigenetic remodeling and therapeutic opportunities.	Autoimmunity reviews	2026-Oct-2	42925994
182	The environmental pollutant benzo[k]fluoranthene alters CD4+ T-cell subset distribution via AhR signaling.	Environmental toxicology and pharmacolog	2026-Oct-2	42926047
183	Polyol Pathway Inhibition by Epalrestat Attenuates Pathological Bone Loss through Redox Homeostasis and Sorbitol-Linked Calcium Signaling.	Pharmacological research	2026-Oct-2	42926079
184	Immune signaling networks in graft-versus-host disease: From mechanism to precision therapeutic targeting.	Transplant immunology	2026-Oct-2	42926080
185	Interleukin-17D Deficiency Attenuates Atherosclerosis by Diminishing Macrophage Inflammation and Promoting M2 Phenotype.	European journal of pharmacology	2026-Oct-2	42926082
186	EZH2 coordinates inflammatory and pain-associated pathways across joint compartments in osteoarthritis.	Molecular biomedicine	2026-Oct-2	42920051
187	SIRPA drives T cell apoptosis to promote immune evasion in hepatocellular carcinoma.	Journal for immunotherapy of cancer	2026-Oct-2	42919623
188	Siglec-15 and its glycan ligands in tumor-associated macrophage biology and immunotherapy.	Journal for immunotherapy of cancer	2026-Oct-2	42919624
189	Local T-cell engager secretion reprograms endogenous antitumor immunity and enhances CAR-T cell persistence in solid tumors.	Journal for immunotherapy of cancer	2026-Oct-2	42919626

#	标题	期刊	日期	PMID
190	Thymic single-cell RNA sequencing reveals the immunosuppressive microenvironment in chicken model simulating vertical transmission of recombinant ALV.	Poultry science	2026-Oct-2	42950476
191	Haemonchus contortus excretory and secretory proteins inhibit goat immune responses by downregulating TLR4/TRIF signaling pathway.	Veterinary parasitology	2026-Oct-2	42950750
192	Myristic acid promotes cell-to-cell spread of Marek's disease virus by inhibiting STING-mediated IFN- β production and reprograming metabolic profiles.	Veterinary microbiology	2026-Oct-2	42950769
193	Transformed mycosis fungoides: Biological heterogeneity, clinicopathological features, and prognostic determinants.	Blood reviews	2026-Oct-2	42928032
194	Anthracycline Cardiotoxicity as Multicellular Network Failure: Cardiac Niche Reprogramming and Pathological Cell-Cell Communication.	Journal of the American Heart Associatio	2026-Oct-2	42924836
195	Macrophage-Derived Glycoprotein Nonmetastatic Melanoma Protein B Attenuates Cardiac Dysfunction by Promoting Vascular Endothelial Growth Factor-Independent Angiogenesis.	Journal of the American Heart Associatio	2026-Oct-2	42924840
196	Spermidine-mediated AMPK signaling pathway drives M2 macrophage polarization to promote the growth of vaginal cancer.	Journal of leukocyte biology	2026-Oct-2	42924880
197	Targeted Therapies in Polymyalgia Rheumatica: From Immunopathophysiology to a Redefined Treatment Paradigm.	Drugs	2026-Oct-2	42909820
198	Rucaparib enhances IL-2 production in EL-4 T cells and splenocytes.	Pharmacology	2026-Oct-2	42912736
199	The Role of Vitamin D in Uveitis: Immunological Mechanisms, Clinical Evidence, and Therapeutic Potential.	Ocular immunology and inflammation	2026-Oct-2	42912813
200	RES NPs/GelMA Sustained-Release Cryogel Modulates Macrophage Arachidonic Acid Metabolism and Angiogenic Microenvironment Promoting Diabetic Wound Healing.	ACS applied materials & interfaces	2026-Oct-2	42912867
201	Interferon- λ signaling to maternal dendritic cells protects against congenital Zika virus infection.	Science advances	2026-Oct-2	42912987
202	Histone methyltransferase NSD2 shapes CD8+ T cell fates through the H3K36me2-Zbtb20 axis.	Science advances	2026-Oct-2	42912999
203	Protective Effects of PD-L1-Overexpressing MSCs and Their Derived Extracellular Vesicles in Type 1 Diabetes.	Diabetes	2026-Oct-2	42913369
204	Immunologic and Plasma-Dependent Mechanisms of Chronic Hemolysis and Hyperhemolysis in Sickle Cell Disease.	Blood	2026-Oct-2	42913486
205	CD8 T-cell exhaustion linked with CAR T-cell failure can be mitigated by a non-alpha IL2 receptor agonist.	Blood	2026-Oct-2	42913488
206	GM2A links keratinocyte metabolism to inflammation in psoriasis: Integrated transcriptomic and functional analyses.	International immunopharmacology	2026-Oct-2	42914819
207	PHLDA3 deficiency attenuates neonatal sepsis-associated acute lung injury and is associated with reduced endoplasmic reticulum stress and NF- κ B activation.	International immunopharmacology	2026-Oct-2	42914823
208	Control of M. tuberculosis infection requires CD28 to generate lung-homing T cells and CTLA-4 to limit immunopathology.	Mucosal immunology	2026-Oct-2	42918332
209	Mycobacterium smegmatis MSMEG_6906 modulates IL-1 β via NF- κ B pathway to benefit intracellular survival.	Microbial pathogenesis	2026-Oct-2	42918428

#	标题	期刊	日期	PMID
210	Targeting Macrophage Glycolytic-Serine Metabolism and NF- κ B Activation by Compound Xiancao Granule Confers Renoprotection in Diabetic Nephropathy.	Journal of ethnopharmacology	2026-Oct-2	42918465
211	Single - cell multi - omics analysis reveals TGF- β 1-RUNX2-mediated matCAF differentiation and its role in remodeling the lymph node metastatic microenvironment in bladder cancer.	Oncogene	2026-Oct-2	42918833
212	Lck regulates T cell activation through phosphorylation of p62.	EMBO reports	2026-Oct-2	42919913
213	Bispecific dual T cell agonist invikafusp alfa in solid tumors: the phase 1/2 START-001 trial.	Nature medicine	2026-Oct-2	42919963
214	Current and Emerging Therapies for Generalized Myasthenia Gravis: Toward Precision Medicine.	Neurology and therapy	2026-Oct-2	42920067
215	A Newly Curated Single Cell Sequencing Atlas Predicts Efferocytic-dependent Crosstalk in Hearts.	American journal of physiology. Heart an	2026-Oct-2	42932980
216	Pulsating Fluid Shear Stress Induces an Altered Macrophage Mechanotype with a Moderate Pro-inflammatory Profile and Reduced Phagocytosis.	American journal of physiology. Cell phy	2026-Oct-2	42932997
217	Reprogramming the tumor microenvironment from within: intratumoral immunoadjuvants in cancer immunotherapy.	Journal for immunotherapy of cancer	2026-Oct-2	42914562
218	Beyond molecular mimicry: immune memory as the missing dimension of cancer immune surveillance.	Journal for immunotherapy of cancer	2026-Oct-2	42914564
219	Spatiotemporally Precise Rheumatoid Arthritis Therapy via a Triple-Locked Cascaded Nanoplatfrom With Dual-Channel Self-Reporting.	Advanced science (Weinheim, Baden-Wurtte	2026-Oct-2	42921895
220	ER α -PADI4-CXCL8 Axis Drives MDSC-Mediated Immune Evasion in Anaplastic Thyroid Carcinoma.	Advanced science (Weinheim, Baden-Wurtte	2026-Oct-2	42921915
221	Immunomodulatory Biomaterials for Craniomaxillofacial, Periodontal, and Pulp-Dentin Tissue Regeneration.	Tissue engineering. Part A	2026-Oct-2	42921994
222	Concurrent administration of BCMA and GPRC5D CAR T cells for advanced multiple myeloma.	Blood	2026-Oct-2	42413007
223	How I treat autoimmune neutropenia in adults.	Blood	2026-Oct-2	42561130
224	Elevated CERS6/C16:0 Ceramide in taPVAT Promotes Aortic Dissection by Driving Macrophage Inflammation via FPR2/NF- κ B Signaling.	Arteriosclerosis, thrombosis, and vascul	2026-Oct-2	42910421
225	Clonal expansion of CD8+ effector T cells in patients with calcific aortic valve disease.	Cardiovascular research	2026-Oct-2	42910603
226	Ajugol Improves Liver Fibrosis by Modulating Bile Acid and Arachidonic Acid Metabolism in Mice.	Phytotherapy research : PTR	2026-Oct-2	42910613
227	The lumpy skin disease virus protein LSDV003 regulates MHC-I trafficking and surface expression.	mBio	2026-Oct-2	42910938
228	EGFRvIII-Positive Glioblastoma: Structural Rewiring, Immune Microenvironmental Remodeling, and Therapeutic Resistance.	Neuro-oncology	2026-Oct-2	42911633
229	Development of Potent G Protein Pathway-Biased GPR183 Agonists.	Journal of medicinal chemistry	2026-Oct-2	42911739
230	Discovery of Novel STING Inhibitors for the Treatment of Severe Acute Pancreatitis.	Journal of medicinal chemistry	2026-Oct-2	42911754

#	标题	期刊	日期	PMID
231	Hexokinase-2 moonlights as a suppressor of STING-mediated innate immunity.	Cell reports	2026-Oct-2	42911814
232	Multi-omics analysis of high-grade serous ovarian cancers reveals heterogeneity and distinct immunological patterns based upon clinico-genomic status.	PLoS genetics	2026-Oct-2	42911976
233	PTX3 aggravates ischemia-reperfusion injury in steatotic liver by promoting M1 macrophage polarization via activation of the JAK1/STAT1 pathway.	International immunopharmacology	2026-Oct-2	42913198
234	Hydrogen sulfide in bone homeostasis: Mechanisms and therapeutic potential.	Biomedicine & pharmacotherapy = Biom	2026-Oct-2	42913246
235	Cancer cell CD73 loss promotes a dual inflammatory and immunosuppressive microenvironment in endometrial carcinoma.	Cancer research communications	2026-Oct-2	42913692
236	Platycodon Decoction alleviates chronic obstructive pulmonary disease associated inflammation with potential dual-layer regulation of PI3K/AKT/NLRP3 signaling and ADGRE5-mediated i	Journal of ethnopharmacology	2026-Oct-2	42913963
237	Mechanistic insights into TLR2-mediated acute pancreatitis exacerbation via macrophage-ferroptotic acinar cell crosstalk.	The Journal of biological chemistry	2026-Oct-2	42914017
238	Macrophage-derived secretory Clusterin amplifies fibroblast-like synoviocyte activation through PI3K/AKT and NF- κ B signaling in rheumatoid arthritis.	International immunopharmacology	2026-Oct-2	42914826
239	B7-H4 Promotes MFC Cell Proliferation and Tumor Formation by Activating the IL-6/STAT3 Pathway.	The Tohoku journal of experimental medic	2026-Oct-2	42161564
240	Protein lactylation in atherosclerosis - Mechanisms and therapeutic potential: A narrative review.	Biomolecules & biomedicine	2026-Oct-2	42908441
241	CCL2/CCR2 axis suggests a role in bridging obesity-related adipose inflammation to Sertoli cell injury in asthenozoospermia: Integrated multi-omics, machine learning and in vitro v	Biochemical and biophysical research com	2026-Oct-2	42731365
242	Targeting Peripheral T-Cell Lymphomas with Chimeric Antigen Receptor Therapy: Mechanistic Challenges, Clinical Landscape and Future Engineering Perspectives.	Cancers	2026-Oct-2	42938932
243	Adaptive Mitochondrial Specialization in Lung Adenocarcinoma: Redox Homeostasis, Hypoxia Adaptation, and Therapeutic Resistance.	Antioxidants (Basel, Switzerland)	2026-Oct-2	42939938
244	Tumor-Centric Immune Crosstalk in Colorectal and Gastric Cancer: Molecular Mechanisms Linking Tumor Cells to Macrophages and CD8+ T Lymphocytes.	International journal of molecular scien	2026-Oct-2	42942113
245	Immunomodulatory Effects of Vitamin D Receptors and Serum Vitamin D Levels in COVID-19 Patients After Immunization: A Narrative Review.	International journal of molecular scien	2026-Oct-2	42942120
246	M4-like Macrophages Drive Skeletal Muscle Fibrosis and Suppress Myogenesis via the MMP12/SPP1/NF- κ B Axis.	International journal of molecular scien	2026-Oct-2	42942136
247	Dysglycemia, Dyslipidemia, and Pulmonary Tuberculosis Outcomes: Clinical Associations and Proposed Mechanisms.	Microorganisms	2026-Oct-2	42943646
248	Tarloxotinib targets tumor hypoxia to improve therapeutic efficacy of immune checkpoint inhibition in a MyD88-dependent manner.	Journal for immunotherapy of cancer	2026-Oct-2	42906944

#	标题	期刊	日期	PMID
249	When, Where, and How Much: Toward Smarter Design and Delivery of CAR T - Cell Therapy.	ACS bio & med chem Au	2026-Oct-2	42921052
250	A small molecule utilizes both antivirulence and host-directed mechanisms to combat bacterial infection.	Phytomedicine : international journal of	2026-Oct-2	42925584
251	Vascular Cell Adhesion Molecule 1 Is Associated With Immune Remodeling, Glioma Progression, and Tumor Cell Survival in U87 and U251 Cells.	Journal of visualized experiments : JoVE	2026-Oct-2	42910855
252	Functional Characterization of a Novel FADD from Anodonta woodiana Reveals Its Regulatory Roles in Apoptotic Cascades and Antibacterial Immunity.	Marine biotechnology (New York, N.Y.)	2026-Oct-2	42905182
253	Therapeutic potential of zinc supplementation in rheumatoid arthritis: clinical evidence, molecular mechanisms, and formulation-specific effects.	Biometals : an international journal on	2026-Oct-2	42905343
254	Macrophage polarization and non-coding RNAs in colorectal cancer progression and metastasis.	Medical oncology (Northwood, London, Eng	2026-Oct-2	42905371
255	Neutrophil plasticity in inflammation resolution: mechanisms and therapeutic potential.	Human cell	2026-Oct-2	42905373
256	FABP4 Couples Lipid Metabolism to PD-L1 Stabilization in Immunosuppressive Myeloid Cells.	Cancer immunology research	2026-Oct-2	42906118
257	Strontium- and magnesium-doped hydroxyapatite scaffolds enhance bone regeneration by promoting macrophage polarization toward the M2 phenotype.	Biomedical materials (Bristol, England)	2026-Oct-2	42906602
258	Acetaldehyde Dehydrogenase 2 Remodels the Tumor Immune Microenvironment via CXCR4-CXCL12 Signaling in Head and Neck Squamous Cell Carcinoma.	The Journal of biological chemistry	2026-Oct-2	42906687
259	Bidirectional regulation of the PD-1 pathway: Tumor immune exhaustion versus lupus nephritis T cells activation.	Autoimmunity reviews	2026-Oct-2	42906786
260	10-Gingerol attenuates alcohol-induced colon injury by modulating IL-36R and downstream cGAS-STING signaling to suppress macrophage inflammation and ferroptosis.	Journal of ethnopharmacology	2026-Oct-2	42906798
261	Tao-He-Cheng-Qi decoction protects against sepsis-associated acute lung injury by modulating gut microbiota and succinate-associated pulmonary macrophage polarization.	Journal of ethnopharmacology	2026-Oct-2	42906799
262	Regulation of thymus and thymopoiesis by thyroid hormones and corticosteroids: Insights from vertebrate metamorphosis.	Developmental biology	2026-Oct-2	42906834
263	Subretinal fibrosis in neovascular age-related macular degeneration: From clinical features to fibrotic mechanisms and therapeutic opportunities.	Survey of ophthalmology	2026-Oct-2	42906861
264	Cucurbitacins as multitarget pharmacological modulators: chemistry, biosynthesis, molecular targets, regulated cell death, and translational challenges, with emphasis on cucurbitac	Biochemical pharmacology	2026-Oct-2	42906865
265	Molecular characterizing and expression analysis of MCSF and its receptor in largemouth bass (Micropterus salmoides) and spotted sea bass (Lateolabrax maculatus).	Developmental and comparative immunology	2026-Oct-2	42906871
266	A Photocurable Hydrogel Cardiac Patch Incorporating Formononetin-Loaded Lipid Nanoparticles for Myocardial Repair After Acute Ischemia.	Advanced healthcare materials	2026-Oct-2	42908214

#	标题	期刊	日期	PMID
267	Th17 Cells Impair Epithelial Defense Against Intracellular Bacteria in Part Through TGF- β .	Molecular oral microbiology	2026-Oct-2	42902863
268	Nanotherapeutic macrophage reprogramming through immunometabolic and microbial modulation for sepsis treatment.	Signal transduction and targeted therapy	2026-Oct-2	42901916
269	Plant cytokinin ortho-topolin riboside suppresses the proliferation of multiple myeloma cells by promoting β -catenin degradation.	BMB reports	2026-Oct-2	42902569
270	Exogenous lactate exacerbates adverse cardiac remodeling following myocardial infarction via impaired macrophage activation and myocardial ER stress.	American journal of physiology. Heart an	2026-Oct-2	42932960
271	A Water-Soluble Pro-Drug of Acetaminophen Has Increased Intracellular Delivery of Active Drug and Anti-Cancer Activity in Triple-Negative Breast Cancer and Pancreatic Ductal Adenoc	Cancers	2026-Oct-2	42938922
272	CAV1 as a Potential Regulator of Endothelial-Macrophage Communication Through the CD74/MIF Pathway in Breast Cancer.	International journal of molecular scien	2026-Oct-2	42942068
273	Variant-Specific Temporal Transcriptomic Responses of Ex Vivo Dog Lung Explants to SARS-CoV-2 Delta and Omicron Infection.	International journal of molecular scien	2026-Oct-2	42942086
274	Single-Cell Transcriptomic Analysis Reveals Distinct Pathogenic Subtypes in Hepatocyte- and Cholangiocyte-Directed Autoimmune Liver Injury.	International journal of molecular scien	2026-Oct-2	42942090
275	The Alleviative Effect of Oral Administration of Lactiplantibacillus plantarum 22A-3 on Allergic Contact Dermatitis in Mice.	Nutrients	2026-Oct-2	42943017
276	Tissue-Specific miRNA Responses to Tick-Borne Encephalitis Virus Strains in Mice.	Non-coding RNA	2026-Oct-2	42931116
277	A mechanically active microneedle platform integrated with engineered exosomes for enhanced tendon-bone regeneration.	Biomaterials	2026-Oct-2	42914654
278	Alphavirus Nsp3 protein hijacks receptor-mediated mitophagy via BNIP3L/NIX to dampen IFN response and promote viral replication.	Autophagy	2026-Oct-2	42852897
279	Ubiquitin-specific proteases and the immune microenvironment in cervical cancer: mechanistic evidence, immunotherapy resistance, and therapeutic perspectives.	Neoplasia (New York, N.Y.)	2026-Oct-2	42900981
280	Comprehensive insights into the toxicological disruption of cadmium to juvenile Tachypleus tridentatus: From physiological impairments to multi-omics alterations.	Marine pollution bulletin	2026-Oct-2	42901072
281	CD47 fuels intestinal fibrosis by inducing fibroblast phagocytic evasion and represents a therapeutic target.	Cell reports. Medicine	2026-Oct-2	42901146
282	Gut-derived glucagon-like peptides attenuate T cell-induced intestinal injury.	Cell reports. Medicine	2026-Oct-2	42901164
283	One protein, many faces: TRAF1 from signaling hub to disease diversity.	Life sciences	2026-Oct-2	42901267
284	Next-Generation CAR-Macrophage Therapies: Design Principles and Advances in Cancer Treatment.	Cancer letters	2026-Oct-2	42901433
285	Calreticulin and myeloproliferative neoplasms: linking biology to targeted therapies.	Expert review of clinical immunology	2026-Oct-2	42902584

#	标题	期刊	日期	PMID
286	Interpreting peripheral immune phenotypes in Parkinson's disease: an immune-context framework for biomarker qualification.	Reviews in the neurosciences	2026-Oct-2	42895345
287	Cytokine context shapes antigen-presenting and matrix-producing states of cancer-associated fibroblasts.	Signal transduction and targeted therapy	2026-Oct-2	42897126
288	An integrated human forebrain organoid reveals microglia-mediated CD8+ T cell recruitment and neuroimmune dysfunction in Alzheimer's disease pathology.	eLife	2026-Oct-2	42899469
289	A Bispecific Nanobridge Derived from Immunogenic Tumor Membranes Restores Dendritic Cell-T Cell Crosstalk for Enhanced Solid Tumor Immunotherapy.	ACS nano	2026-Oct-2	42899779
290	A Diabetic Wound Microenvironment-Responsive HAMA-PBA/PVA Hydrogel for Localized Delivery of Netrin-1-Enriched Adipose-Derived Stem Cell-Derived Exosomes Promotes Diabetic Wound He	ACS applied materials & interfaces	2026-Oct-2	42900220
291	Bidirectional Regulatory Mechanisms of T cell-microglia Interactions in Cerebral Ischemic Disease: Molecular Crosstalk, Experimental Techniques and Therapeutic Implications.	Neurochemical research	2026-Oct-2	42900246
292	Pentalinosterol at the Host-Parasite Interface: Antileishmanial Activity, Host Immunomodulation, and Unresolved Mechanisms.	Acta parasitologica	2026-Oct-2	42900320
293	RBM4 Stabilizes S100A10 mRNA to Remodel the Tumor Immune Microenvironment and Promote Immune Evasion in Hepatocellular Carcinoma.	Molecular carcinogenesis	2026-Oct-2	42900796
294	Omega-3 fatty acids reprogram tumor-associated macrophage cytokine signaling and suppress pancreatic cancer growth.	Proceedings of the National Academy of S	2026-Oct-2	42886691
295	Immune Evasion Strategies of Human Poxviruses: A Roadmap for Engineering Low-Immunogenic CAR-Based and iPSC-Derived Cell Products.	Cells	2026-Oct-1	42929874
296	Hybrid nanovesicle artificial antigen-presenting cells integrate endogenous tumor antigen display with senescence-mimetic erythrocyte membrane-directed splenic T-cell priming.	Biomaterials	2026-Oct-1	42914653
297	Deep mapping of structural perturbations to energetics enables precise TCR design.	Cell reports methods	2026-Oct-1	42624108
298	A Hierarchical Framework for Autonomous Macrophage Migration Based on Exploration and Exploitation.	Cancer biotherapy & radiopharmaceuti	2026-Oct-1	42895703
299	AAV-mediated SiglecF elimination on TAMs reverses TMZ therapy-induced T cell dysfunction in glioblastoma.	International immunopharmacology	2026-Oct-1	42896383
300	Isobavachalcone targets deubiquitinase OTUB1 to induce PD-L1 degradation and enhances antitumor immunity.	Cell reports. Medicine	2026-Oct-1	42896550
301	Hemolin modulates IMD-related immune responses and promotes cellular immunity in <i>Ostrinia furnacalis</i> .	Journal of invertebrate pathology	2026-Oct-1	42896701
302	Dual-functional hydrogel capable of scavenging reactive oxygen species and regulating macrophage polarization for repairing MRSA-infected wounds.	International journal of biological macr	2026-Oct-1	42896767
303	Dysregulated thymus-ovary axis promotes virtual memory T cell polarization to aggravate PMOS pathology.	Cellular & molecular immunology	2026-Oct-1	42897204
304	Metabolic processes and microenvironmental regulation in leukemia.	Chinese medical journal	2026-Oct-1	42897697

#	标题	期刊	日期	PMID
305	Mincle exacerbates neuroinflammation and dopaminergic neurodegeneration via synergistic crosstalk with TLR4.	International immunopharmacology	2026-Oct-1	42893665
306	Tumor endothelial cells as vascular immune gatekeepers: reprogramming the vascular-immune interface for cancer immunotherapy.	Cancer letters	2026-Oct-1	42893717
307	HECTD1 Directs HIF-1 α to Facilitate Intestinal Inflammation and Carcinogenesis via Promoting Th17 Differentiation and Glycolysis.	Advanced science (Weinheim, Baden-Wurtte	2026-Oct-1	42893454
308	Antigen persistence after antibody-drug conjugates in urothelial carcinoma: implications for CAR-cell target selection.	Neoplasia (New York, N.Y.)	2026-Oct-1	42913294
309	Ectromelia Virus Reprograms the Noncanonical NF- κ B Signaling Pathway in HeLa Epithelial Cells.	Archivum immunologiae et therapiae exper	2026-Oct-1	42891707
310	NECTIN-4 orchestrates macrophage-mediated tumor plasticity in oral squamous cell carcinoma.	Cellular signalling	2026-Oct-1	42892354
311	MLKL Orchestrates ER-Mitochondria Stress to Drive Dendritic Cell Pyroptosis and Immunoparalysis in Sepsis.	Free radical biology & medicine	2026-Oct-1	42892443
312	Nifedipine-modulated gut microbiota attenuates hypertensive vascular injury through Bifidobacterium-associated inosine-Adora2b signaling.	Pharmacological research	2026-Oct-1	42892458
313	Single-cell RNA sequencing identifies a proinflammatory S100a8/a9+ macrophage subset contributing to acute kidney injury.	Inflammation research : official journal	2026-Oct-1	42892624
314	TRIM36 catalyzes K63-linked ubiquitination of TAK1 to drive septic inflammation.	Inflammation research : official journal	2026-Oct-1	42892647
315	Immunotoxicological mechanism of a dual-targeted nanocomposite: Mitochondrial stress-driven cGAS-STING activation in lung cancer.	Colloids and surfaces. B, Biointerfaces	2026-Oct-1	42906237
316	Bimetallic biomimetic catalytic STING sensitizer for coordinating innate and adaptive immune responses against biofilm infections.	Biomaterials	2026-Oct-1	42906521
317	ApolipoproteinE+ Kupffer cells maintain immune homeostasis following liver transplantation by inducing CD8+ T cell exhaustion.	iScience	2026-Oct-1	42756608
318	Lactobacillus derived small RNAs protect against Klebsiella pneumoniae infection.	iMeta	2026-Oct-1	42891232
319	Angiotensin-(1-7) attenuates collagen-induced arthritis and suppresses ferroptosis in THP-1-derived macrophages: involvement of p53/SLC7A11 signaling.	Journal of molecular histology	2026-Oct-1	42886409
320	The COX2-PGE2-PKA axis suppresses antiviral immunity by inhibiting mtDNA-dependent STING activation.	Cell reports	2026-Oct-1	42886558
321	Latent effector capacity governs reversible T cell exhaustion: A theoretical mathematical model of PD-1 blockade response.	Science advances	2026-Oct-1	42886782
322	Single-cell transcriptomic and immune microenvironment analyses reveal a TIMP1-associated OLFM4 tumor epithelial program linked to colorectal cancer progression and immune evasion	Translational oncology	2026-Oct-1	42887063
323	Oxidative Stress as a Double-Edged Sword in Invertebrate Resistance to WSSV: Mechanisms, Challenges, and Therapeutic Strategies.	Developmental and comparative immunology	2026-Oct-1	42887577

#	标题	期刊	日期	PMID
324	Inflammation-Responsive Baicalin-Delivering Glycocalyx-Mimetic Hydrogel-Functionalized Bioprosthetic Valve for Antithrombosis and Immunomodulation.	Acta biomaterialia	2026-Oct-1	42887585
325	HSP70-Mediated Macrophage-Stromal Crosstalk is an Immunopathogenic Driver of Recurrent Implantation Failure.	American journal of obstetrics and gynec	2026-Oct-1	42887628
326	The molecular architecture of human labor at term during the execution phase: changes across cervical dilatation.	American journal of obstetrics and gynec	2026-Oct-1	42887629
327	Targeting myeloid cell plasticity and metabolic reprogramming to alleviate T cell dysfunction and exhaustion-associated states and enhance immune checkpoint blockade therapy.	Biomarker research	2026-Oct-1	42888442
328	Ubiquitin signaling in tumor-associated macrophage reprogramming: mechanisms and therapeutic opportunities in cancers.	Biomarker research	2026-Oct-1	42888457
329	Interplay between SFTSV and host innate immunity: Viral evasion mechanisms, pathogenesis, and therapeutic perspectives.	iScience	2026-Oct-1	42835117
330	VWA2 fuels colon cancer growth and immune evasion through Wnt/ β -catenin signaling.	iScience	2026-Oct-1	42835275
331	GPR82-mediated activation of TGF- β /SMAD signaling contributes to CD8+ T cell dysfunction in HBV-ACLF.	iScience	2026-Oct-1	42861410
332	A specialized CD107a+ macrophage subset drives hyperphagocytosis of mycobacteria.	iScience	2026-Oct-1	42877136
333	Mannose-grafted polyaspartic acid-functionalized dual-ion nanoadjuvants trigger cGAS-STING-mediated immune responses for antiviral vaccination.	Journal of materials chemistry. B	2026-Oct-1	42886058
334	Integrative multi-omics reveals CUL4B as a modulator of macrophage pyroptosis and innate defense against Staphylococcus aureus.	Science advances	2026-Oct-1	42873844
335	Macrophage- or neutrophil-expressed UPP1 drives tumor growth and immune suppression in the tumor microenvironment.	Science advances	2026-Oct-1	42873856
336	Discovery of pyrazole-based selective covalent ITK inhibitors with In vivo activity.	European journal of medicinal chemistry	2026-Oct-1	42224937
337	Cerebrospinal Fluid Transcriptional Immune Pathways Linked to Survival in HIV-Associated Tuberculous Meningitis.	The Journal of infectious diseases	2026-Oct-1	42313402
338	Proteomic and phosphoproteomic profiles of time-dependent dynamic changes in LPS-induced macrophage polarization.	Journal of proteomics	2026-Oct-1	42336198
339	Understanding protein ISGylation, a multifaceted posttranslational modification.	Cell chemical biology	2026-Oct-1	42442365
340	Immune response as a modifier linking phthalate exposure to lung function decline: Results from a longitudinal study.	Environmental pollution (Barking, Essex	2026-Oct-1	42462952
341	Cystine Restriction Alleviates T-cell Exhaustion and Enhances CAR T-cell Potency.	Cancer research	2026-Oct-1	42479884
342	IL-6 receptor inhibition promotes expansion of cytolytic CD4+ T cells after cellular immunotherapy.	Blood	2026-Oct-1	42485668
343	Exosome-mediated macrophage polarization: advances in immunotherapeutic paradigms and mechanisms in skeletal system diseases.	International immunopharmacology	2026-Oct-1	42486000

#	标题	期刊	日期	PMID
344	Parallel 4-1BB Signaling in Dual DLL3/CD56-Targeting CAR T Cells Triggers Adaptive Proliferation and Functional Persistence to Eradicate Small Cell Lung Cancer.	Cancer research	2026-Oct-1	42489524
345	Cross-talk between Schwann Cells and CD4+ T Cells Promotes Perineural Invasion in Colorectal Cancer.	Cancer research	2026-Oct-1	42489533
346	Mass-Spectrometry-Identified Quality Markers of Jingtong Granules Are Predicted to Engage Upregulated Neutrophil Granule Enzymes in Cervical Spondylotic Radiculopathy: An Integrati	Rapid communications in mass spectrometr	2026-Oct-1	42490267
347	PLIN3 knockdown enhances T cell-mediated cytotoxicity in non-small cell lung cancer via autophagy-dependent PD-L1 degradation.	International immunopharmacology	2026-Oct-1	42492236
348	The mechanism of macrophage glycolysis regulating Th17 cell differentiation and promoting the progression of EAN mice.	International immunopharmacology	2026-Oct-1	42497663
349	Carboxyamidotriazole treatment correlates with dynamic changes in macrophage metabolism and function in models of colitis and colitis-associated carcinogenesis.	International immunopharmacology	2026-Oct-1	42503262
350	Benzoylpaeoniflorin regulates macrophage polarization via the RNF31-DPEP2 axis to ameliorate intestinal mucosal barrier damage in ulcerative colitis.	International immunopharmacology	2026-Oct-1	42503263
351	Dual role of macrophage heterogeneity in allergic inflammation: from mechanism to targeted therapy.	International immunopharmacology	2026-Oct-1	42520678
352	Integrated single-cell and spatial transcriptomic atlas of multi-etiology acute lung injury reveals etiology-dependent neutrophil fate decisions and a prognostic neutrophil-monocyt	International immunopharmacology	2026-Oct-1	42520679
353	Screening of potential targets of (2S)-2'-methoxykurarinone against sepsis and in vivo verification in zebrafish model.	International immunopharmacology	2026-Oct-1	42520680
354	KRAS Mutations Reprogram RNA m6A Modifications to Drive CD73-Dependent Immune Evasion in Colorectal Cancer.	Cancer research	2026-Oct-1	42525957
355	Macrophage-associated TLR9 signaling contributes to chronic cardiac allograft fibrosis via macrophage-to-myofibroblast transition and paracrine fibroblast activation.	International immunopharmacology	2026-Oct-1	42526370
356	Curdlan alleviates non-alcoholic fatty liver disease by enriching butyrate-producing gut microbiota-liver axis.	International immunopharmacology	2026-Oct-1	42531785
357	Succinate/SUCNR1 signaling amplifies macrophage inflammatory priming in atherosclerosis through the ERK-MYD88 axis.	International immunopharmacology	2026-Oct-1	42537347
358	MXRA7: A potential link between macrophage M1 polarization and epithelial Pyroptosis in ulcerative colitis.	International immunopharmacology	2026-Oct-1	42537348
359	Cadmium reprograms type-I interferon signaling to promote Japanese encephalitis virus infection in neuronal cells.	Life sciences	2026-Oct-1	42537903
360	CHRNA5 orchestrates tumorigenesis and immune invasion through the CaMKII/AKT/NF- κ B-CCL20 axis in pancreatic ductal adenocarcinoma.	Life sciences	2026-Oct-1	42547009
361	Regression-Associated Macrophages Recruit Natural Killer Cells That Constrain Targeted Therapy Resistance.	Cancer research	2026-Oct-1	42554627
362	Topical treatment of Ginkgolide a ameliorates psoriasiform dermatitis by suppressing M1 macrophage polarization by the blockade of PI3K/AKT/c-JUN pathways.	International immunopharmacology	2026-Oct-1	42561666

#	标题	期刊	日期	PMID
363	A plasmid-loaded biomimetic nanoplatform targeting the PAD2-METs-OPN axis against recurrent herpes simplex keratitis.	International immunopharmacology	2026-Oct-1	42574805
364	A potent anti-CD47 antibody decoupling anti-tumor efficacy from hematotoxicity.	International immunopharmacology	2026-Oct-1	42580138
365	CXCL5-CXCR2 axis mediates myocardial ischemia/reperfusion injury by inducing infiltration of myeloid-derived macrophages and neutrophils.	International immunopharmacology	2026-Oct-1	42580139
366	Oral administration of melatonin modulates macrophage polarization via modulating the Vegf signaling pathway and ameliorates Alzheimer's disease in APP/PS1 mice.	Brain research bulletin	2026-Oct-1	42607896
367	TMEM97 links endoplasmic reticulum stress to hepatic stellate cell activation in experimental liver fibrosis: pharmacological attenuation by CT1812.	European journal of pharmacology	2026-Oct-1	42617904
368	Structural characterization and systemic hypoglycemic effects of a new high-molecular-weight α -glucan from <i>Grifola frondosa</i> .	Carbohydrate polymers	2026-Oct-1	42692575
369	Hepatocyte NAT10-mediated ac4C regulation contributes to TGF β 1-associated Kupffer cell -HSC communication in steatotic liver disease.	Biochemical and biophysical research com	2026-Oct-1	42696851
370	Activation-optimized anti-CD3 valency control enables combinatorial discovery of multi-specific nanoantibodies for solid tumor immunotherapy.	Science bulletin	2026-Oct-1	42722595
371	Decoding Pyroptosis in Pulmonary Fibrosis: Molecular Mechanisms and Therapeutic Horizons.	Current pharmaceutical design	2026-Oct-1	42897801
372	In vivo CRISPR Screening Reveals LBR as a Regulator of CD8+ T Cell Fate Decision.	FASEB journal : official publication of	2026-Oct-1	42806792
373	Endothelial Exostosis-1 Is Needed for Glycocalyx Integrity and Inflammatory Resolution in Acute Lung Injury.	FASEB journal : official publication of	2026-Oct-1	42820257
374	Heat-not-burn tobacco products induce pro-inflammatory cytokines and oxidative stress, and alter gene expression in human dendritic cells.	Nicotine & tobacco research : offici	2026-Oct-1	42878522
375	Anti-TNFR2 antibody BI-1808 induces tumor regression and antitumor T cell immunity through T reg and myeloid cell modulation in patients with solid tumors.	Clinical cancer research : an official j	2026-Oct-1	42878660
376	Disruption of the CRL5 ubiquitin ligase complex enhances engineered T-cell persistence under chronic tumor antigen exposure.	Cancer immunology research	2026-Oct-1	42878665
377	Reversal of T1D and Rapid Reduction of β -Cell Stress by IL-10-Dependent MDSCs Induced by TLR4-Ab.	Diabetes	2026-Oct-1	42878733
378	Immunomodulatory actions of catecholamines, cluster-specific signaling pathways, and metabolites in pheochromocytoma and paraganglioma.	Endocrine-related cancer	2026-Oct-1	42878740
379	Network pharmacology-based investigation on the mechanism of aloin in ameliorating atherosclerosis by regulating macrophage polarization.	Journal of molecular histology	2026-Oct-1	42878938
380	Molecular Mechanisms of Osteoarthritis: A Review and Opportunities for Novel Therapeutics.	The Journal of bone and joint surgery. A	2026-Oct-1	42879521

#	标题	期刊	日期	PMID
381	Temporin-GHa11R accelerates MRSA-infected wound healing via antibacterial efficacy and regulation of macrophage polarization.	International immunopharmacology	2026-Oct-1	42879895
382	Calcium-Sensing Receptor-NLRP3 Inflammasome Signaling in Cardiovascular Diseases: Preclinical Evidence and Translational Perspectives.	European journal of pharmacology	2026-Oct-1	42880537
383	Ubiquitin-Like protein UBL1 orchestrates monocyte recruitment and pro-inflammatory macrophage activation in critical limb ischemia: Involving SUMOylation and stabilization of PER1.	Biochemical pharmacology	2026-Oct-1	42880551
384	Qingre Chushi decoction ameliorates MC903-induced atopic dermatitis in association with reduced JAK-STAT6 activation and decreased CD206+IL-31+ macrophage abundance.	Fitoterapia	2026-Oct-1	42880609
385	Survival by Design: Cell Fate Dynamics in Classical Hodgkin Lymphoma.	Critical reviews in oncology/hematology	2026-Oct-1	42880615
386	PTEN-loss confers dependence on the guanylate synthesis enzyme IMPDH in T-cell acute lymphoblastic leukemia.	EMBO molecular medicine	2026-Oct-1	42881259
387	Atlas-Guided CD55-Enriched Neutrophil Extracellular Vesicles for Complement-Macrophage Modulation in Diabetic Wounds.	Advanced science (Weinheim, Baden-Wurtte	2026-Oct-1	42881510
388	FOXC2 regulates macrophage polarization and osteosarcoma progression via the CXCL12/CXCR4 signaling axis.	The Journal of pathology	2026-Oct-1	42885281
389	Macrophage-Associated MMP12 Disrupts Extracellular Matrix Homeostasis and Promotes Schwann-Cell Dysfunction in Diabetic Peripheral Neuropathy.	FASEB journal : official publication of	2026-Oct-1	42848003
390	Matrix Metalloproteinase-8 Deficiency Alters the Balance Between Viral Clearance and Immunopathology in H1N1 Infection.	FASEB journal : official publication of	2026-Oct-1	42861596
391	Bone Marrow Macrophage STING Signaling is a Direct Nexus Linking Marrow Adipose Expansion to NAD+ Depletion and Osteogenic Decline in Skeletal Aging.	Advanced science (Weinheim, Baden-Wurtte	2026-Oct-1	42876239
392	Edited HSPCs rescue frataxin deficiency and inflammation-driven multisystemic pathology in Friedreich's ataxia mice.	The Journal of clinical investigation	2026-Oct-1	42878077
393	Interferon-λ inhibits immunopathology and boosts T cell-mediated immunity in a mouse model of mucosal viral infection.	The Journal of clinical investigation	2026-Oct-1	42878084
394	A Nanodelivery Platform Harnessing Synthetic Lethality and Efferocytosis Inhibition for Synergistically Enhanced Immunotherapy of Triple-Negative Breast Cancer.	Small (Weinheim an der Bergstrasse, Germ	2026-Oct-1	42878202
395	PLGF modulates vascular smooth muscle cells phenotype to enhance atherosclerotic plaque stability.	Atherosclerosis	2026-Oct-1	42896380
396	REG family proteins and immune regulation: current evidence and perspectives.	Biochemical and biophysical research com	2026-Oct-1	42887391
397	MAERL accelerates atherosclerosis by inhibiting macrophage efferocytosis via transglutaminase 2.	Acta biochimica et biophysica Sinica	2026-Oct-1	42879249
398	Hypoxia-mediated glioblastoma cell-macrophage crosstalk via the TIMP1-LRP1 axis induces immunosuppression.	International immunopharmacology	2026-Oct-1	42874178

#	标题	期刊	日期	PMID
399	Lentianan-induced FUBP1 O-GlcNAcylation suppresses macrophage ferroptosis and atherosclerosis via the Tp53/SLC7A11 axis.	Pharmacological research	2026-Oct-1	42874826
400	Hepatic HSD17B6 promotes lipid accumulation and M1 macrophage polarization via the 9-cis-retinoic acid and RXR α axis.	Free radical biology & medicine	2026-Oct-1	42874884
401	SOCS1/Wnt/IL-1 β axis negatively regulates macrophage extracellular traps and M1 polarization through the TNF pathway in crystalline kidney injury.	Free radical biology & medicine	2026-Oct-1	42874887
402	MDK+ cancer-associated fibroblasts promote immunotherapy resistance through mitochondrial reprogramming in breast cancer.	Cancer letters	2026-Oct-1	42874987
403	Extracellular vesicle-associated LMP1 from EBV-positive nasopharyngeal carcinoma induces LIF-mediated immunosuppressive macrophage polarization and impairs anti-tumor immunity.	Cancer letters	2026-Oct-1	42874988
404	A self-amplifying IL-1 β -CCL2 circuit between macrophages and cancer-associated fibroblasts drives colorectal cancer progression.	Cancer letters	2026-Oct-1	42874989
405	Psyllid glycine-rich antimicrobial peptides oligomerize to directly cleave zinc transporter ZnuA on the membranes of citrus Huanglongbing pathogen.	Journal of advanced research	2026-Oct-1	42875000
406	Targeting Macrophage STING O-GlcNAcylation via Small-Molecule Allosteric Modulation for Psoriasis Therapy.	Advanced science (Weinheim, Baden-Wurtte)	2026-Oct-1	42875819
407	A Fish MDA5 Integrates Canonical RIG-I and MDA5 Ligand Recognition.	Advanced science (Weinheim, Baden-Wurtte)	2026-Oct-1	42875852
408	Mitochondrial Quality Control in Degenerative Musculoskeletal Diseases: Signaling Networks and Therapeutic Landscapes.	Advanced science (Weinheim, Baden-Wurtte)	2026-Oct-1	42875857
409	Targeting Cannabinoid 1 Receptor in Macrophages Alleviates Psoriatic Skin Inflammation Through the AUF1-NLRP3 Axis.	Advanced science (Weinheim, Baden-Wurtte)	2026-Oct-1	42875876
410	Enzyme-Linked Cycloaddition Assay (ELCA) for Rapid, Ultra-Sensitive Monitoring of Secreted Sialoglycoproteins.	Advanced science (Weinheim, Baden-Wurtte)	2026-Oct-1	42875900
411	Liraglutide ameliorates obese type 2 diabetes by regulating macrophage cholesterol metabolism and H3K27ac modification to promote M2 polarization and adipocyte thermogenic activati	Journal of molecular histology	2026-Oct-1	42870021
412	Topical Tacrolimus in Ocular Disease: A Narrative Review of Mechanism of Action and Therapeutic Applications.	Journal of ocular pharmacology and thera	2026-Oct-1	42870636
413	Inflammasome-Related Transcriptomic Profiles in Periodontitis and Peri-Implantitis Reveal a Shared Inflammatory Framework: A Cross-Sectional Study.	Clinical oral implants research	2026-Oct-1	42870689
414	A Bioinspired Nanomedicine for Thermo-Catalytic Reprogramming of Obese Fat.	Advanced healthcare materials	2026-Oct-1	42872410
415	A protective hybrid protein vaccine informed by mapping major histocompatibility class II epitopes in Cryptococcus neoformans chitin deacetylases that stimulate CD4+ T-cell respons	mBio	2026-Oct-1	42872872

#	标题	期刊	日期	PMID
416	Irisin is associated with survival in sepsis and attenuates macrophage pro-inflammatory responses with involvement of AMPK signaling.	Shock (Augusta, Ga.)	2026-Oct-1	42873095
417	ARID2 Loss Reprograms the Kynurenine-AhR Pathway to Restore Antitumor Immunity in CTNNB1-Mutant Hepatocellular Carcinoma.	Cancer research	2026-Oct-1	42873211
418	Bacillus-based probiotics ameliorate bleomycin-induced pulmonary fibrosis in rats: coupling intestinal barrier reinforcement to the modulation of M2 macrophage polarization/TGF- β /p	Naunyn-Schmiedeberg's archives of pharma	2026-Oct-1	42873256
419	Neutrophil extracellular traps activate lymphocytes in systemic lupus erythematosus.	Clinical and experimental rheumatology	2026-Oct-1	42873685
420	Repurposing of Milciclib as a Potential Inhibitor of Toxoplasma gondii in Human Trophoblasts and Placental Explants.	ACS omega	2026-Oct-1	42889618
421	Novel Synthetic Chalcones Display Potent Anti-Leishmania (Viannia) braziliensis Profile and Inhibit Proteolytic Activities.	ACS omega	2026-Oct-1	42889870
422	RBPJ regulates differentiation and effector programming of intestinal γ δ intraepithelial lymphocytes.	Biochemical and biophysical research com	2026-Oct-1	42892249
423	Dual immuno-mechanical programming of a biomimetic periosteum for load-bearing bone restoration.	Biomaterials	2026-Oct-1	42887233
424	Site-specific metabolic and hypoxia-associated profiles in metastatic melanoma.	Journal for immunotherapy of cancer	2026-Oct-1	42869576
425	Sensory innervation shapes cancer immunotherapy efficacy and adverse events.	Journal for immunotherapy of cancer	2026-Oct-1	42869578
426	FGFR pathway inhibition enhances PD-1 blockade and modulates antitumor immunity in colorectal cancer models.	BMC cancer	2026-Oct-1	42875754
427	Delayed Drug Hypersensitivity: Mechanistic Advances and Emerging Therapies.	Current allergy and asthma reports	2026-Oct-1	42867756
428	Locoregionally delivered PD-1 blockade augments B7-H3 targeting CAR T cell efficacy in models of glioblastoma.	JCI insight	2026-Oct-1	42867923
429	Macrophage-induced ferritin expression protects pancreatic cancer cells from ferroptosis.	Cell reports	2026-Oct-1	42867991
430	Natural killer cell receptor signaling and activation depend on cell cycle stages.	PLoS computational biology	2026-Oct-1	42868201
431	Targeting CCR1/CCR2 attenuates cytokine release syndrome while preserving CAR T-cell antitumor activity.	Cancer immunology research	2026-Oct-1	42868318
432	Effects of polysaccharides from the rhizome of Menispermum dauricum DC on alleviating chemotherapy-induced immune damage and the immunosuppressive tumor microenvironment associated	International immunopharmacology	2026-Oct-1	42868672
433	Salvianolic acid B increases the stability of atherosclerotic vulnerable plaques by inhibiting macrophage apoptosis via the Piezo1/JNK pathway.	International immunopharmacology	2026-Oct-1	42868673
434	Therapy-Associated Myeloid Niches as Spatial Drivers of Cancer Treatment Resistance and Targets for Mechanism-Matched Intervention.	Cancer letters	2026-Oct-1	42869125
435	An investigation into the RNA interference pathways in lobsters reveals key differences in immune factors across life stages.	Fish & shellfish immunology	2026-Oct-1	42869265

#	标题	期刊	日期	PMID
436	CRISPRa screen unveils noncanonical NF- κ B to boost the antitumor activity of TCR-based CAR-T cells.	Cellular & molecular immunology	2026-Oct-1	42869985
437	CUE domain-containing 2 promotes diffuse large B-cell lymphoma progression via PP2A-B55 β degradation and shapes macrophage-mediated immune responses.	Molecular biomedicine	2026-Oct-1	42864554
438	JAK-STAT pathway heterogeneity governs immunotherapy response in breast cancer.	eLife	2026-Oct-1	42865119
439	Molecular basis for developing tumor-targeted siRnas for future immunotherapy.	Expert opinion on therapeutic targets	2026-Oct-1	42867118
440	A Novel Plasma Biomarker hsa_circ_0080018 Drives DLBCL Progression via M2 Polarization of Tumor-Associated Macrophages.	Cancer science	2026-Oct-1	42867210
441	Caloric restriction alters early renal responses to reversible obstructive nephropathy in rats.	The FEBS journal	2026-Oct-1	42867270
442	The osteoimmune cell atlas of peri-implantitis: A narrative scoping review.	Periodontology 2000	2026-Oct-1	42867320
443	Transcriptional regulation and function of GPR18 in macrophage subtype specification.	Proceedings of the National Academy of S	2026-Oct-1	42848422
444	Myeloid cell reprogramming drives enhanced defense against Streptococcus pneumoniae lung infection following exposure to commensal Prevotella.	Proceedings of the National Academy of S	2026-Oct-1	42842405
445	pH-responsive biomimetic liposomes enhance targeted immunotherapy of bladder cancer.	Science China. Life sciences	2026-Oct-1	42886440
446	Catalytic MXene implant interfaces reprogram radiation-induced foreign body response to prevent capsular contracture.	Biomaterials	2026-Oct-1	42887231
447	BHLHE40 as a transcriptional rheostat: decoding microenvironmental signals in context-dependent tumor plasticity.	Science China. Life sciences	2026-Oct-1	42879103
448	Mechanisms underlying biomaterial-regulated macrophage polarization in bone tissue engineering: From interface sensing to immune microenvironment remodeling.	Biomaterials	2026-Oct-1	42880080
449	[Pathogenic mechanisms and targeted therapeutic advances of the FGF/FGFR signaling pathway in hematological malignancies].	Zhejiang da xue xue bao. Yi xue ban = Jo	2026-Oct-1	42870709
450	A Combined Network Toxicology and Docking Study to Identify Putative Molecular Targets Linking Styrene Exposure to Atherosclerosis.	Current medicinal chemistry	2026-Oct-1	42872670
451	B cells regulate T cell transfer colitis by partially reconstituting luminal IgA and modulating the colonic microbiota.	Inflammatory bowel diseases	2026-Oct-1	42863135
452	Skin-resident CXCR6+ memory CD4+ T cells and dendritic cells form dermal perivascular hubs that drive relapse in allergic dermatitis.	Immunity	2026-Oct-1	42863468
453	TFRC-associated ferroptosis in synovial macrophages promotes inflammatory and fibrotic remodeling in osteoarthritis.	Gene	2026-Oct-1	42863533
454	Macrophage TBK1 promotes tubular endoplasmic reticulum stress via proinflammatory cytokines in cisplatin-induced acute kidney injury.	Biochemical pharmacology	2026-Oct-1	42863583

#	标题	期刊	日期	PMID
455	Jingfang Baidu San Alleviates Feng-Han (Wind-Cold) Syndrome-Associated Lung Injury in Mice Through Macrophage Functional Regulation and Dectin-1-Associated Immune Remodeling.	Journal of ethnopharmacology	2026-Oct-1	42863726
456	Safflower yellow alleviates sciatic nerve crush injury in rats: associated with TRPV1-pERK signaling pathway.	Journal of ethnopharmacology	2026-Oct-1	42863727
457	Tumor-Associated Immunosenescence: Mechanisms, Biomarkers, and Age-Adaptive Immunotherapy.	Critical reviews in oncology/hematology	2026-Oct-1	42863771
458	[Acupuncture regulates the Th17/Treg axis for chronic spontaneous urticaria: a randomized controlled trial].	Zhongguo zhen jiu = Chinese acupuncture	2026-Oct-1	42864289
459	TNF α -driven epigenetic upregulation of TIGIT creates a targetable vulnerability in tumors.	Oncogene	2026-Oct-1	42864387
460	METTL3-mediated m6A methylation of lipopolysaccharide-binding protein exacerbates periodontitis by promoting M1 macrophage polarization.	Journal of periodontology	2026-Oct-1	42864806
461	Calprotectin Accelerates Pathogenic Calciprotein Particle Maturation to Promote Vascular Calcification in Chronic Kidney Disease.	Circulation research	2026-Oct-1	42861523
462	Targeting CLK1 by CRISPR tools and pharmacological inhibition modulates the innate immune response and dengue virus replication.	The Biochemical journal	2026-Oct-1	42861929
463	Host-secreted lactate during respiratory viral infection diminishes macrophage antibacterial activity through metabolic reprogramming.	Infection and immunity	2026-Oct-1	42861947
464	Marek's disease virus: mechanistic insights into host immune responses and multilayered immune evasion strategies.	Journal of virology	2026-Oct-1	42861981
465	UBE2C-TRIM21-driven NOS2 degradation stabilizes Tregs and suppresses pyroptotic signaling in thyrocytes in Hashimoto's thyroiditis.	Inflammation research : official journal	2026-Oct-1	42862325
466	A Curcumin-Based Turn-on Fluorescent Probe for Superoxide Anion in Living Cells.	Journal of fluorescence	2026-Oct-1	42862438
467	Androgen-mediated T cell suppression drives sex bias in head and neck squamous cell carcinoma.	Cancer research communications	2026-Oct-1	42862787
468	Neuropeptides in Immunometabolism and Neuroinflammation: Insights from Traditional Chinese Medicine.	Neuroendocrinology	2026-Oct-1	42862796
469	Advances in CAR-T and CAR-NK cell therapy in follicular lymphoma: a review.	Transplantation and cellular therapy	2026-Oct-1	42860153
470	Effect of galactose side-chain modification on immunomodulatory activity of tamarind xyloglucan oligosaccharides.	International journal of biological macr	2026-Oct-1	42860161
471	Usp3 negatively regulates Mda5-mediated antiviral response by attenuating its K63-linked ubiquitination in black carp.	Fish & shellfish immunology	2026-Oct-1	42860170
472	Low-Density Lipoprotein Receptor-Targeted Biomimetic Nanoplatfrom Suppresses Glioblastoma Stemness and Remodels Antitumor Immunity via Dual Metabolic Disruption.	Advanced science (Weinheim, Baden-Wurtte	2026-Oct-1	42860508
473	Dual-Dynamically Crosslinked Nanogels Enable Prolonged Ocular Retention for Multimodal Dry Eye Therapy.	Advanced science (Weinheim, Baden-Wurtte	2026-Oct-1	42860596

#	标题	期刊	日期	PMID
474	Lactoferrin as a Natural Modulator of Immunity and Iron Homeostasis: A Review of Current Knowledge.	Acta haematologica	2026-Oct-1	42858285
475	β 2-adrenergic receptor agonist regulates macrophage polarization via HMGB1 in immune thrombocytopenia.	Science China. Life sciences	2026-Oct-1	42867565
476	Gpr84 activation induces anti-mycobacterial defense in macrophages via MAPK signaling.	Immunobiology	2026-Oct-1	42863344
477	FSP1+ stromal cell-associated macrophage efferocytosis contributes to impaired decidualization in adenomyosis.	Human reproduction (Oxford, England)	2026-Oct-1	42858077
478	Sex-specific skeletal muscle fiber atrophy and reduced macrophage inflammation in a rodent transverse aortic constriction model.	Pflugers Archiv : European journal of ph	2026-Oct-1	42858191
479	Integrative bulk and single-cell transcriptomics identifies a HERC5-linked immune-attenuated risk program for pulmonary metastasis/relapse in osteosarcoma.	Translational oncology	2026-Oct-1	42858644
480	A mature tertiary lymphoid structure-associated spatial niche is inversely associated with ACC1-related lipid metabolism in neoadjuvant-treated hepatocellular carcinoma.	Translational oncology	2026-Oct-1	42858645
481	Research progress on the mechanism and clinical significance of immunoediting in the malignant transformation of oral leukoplakia.	International immunopharmacology	2026-Oct-1	42858733
482	Immunometabolism of tumor-associated macrophages in driving colorectal cancer.	Pharmacological research	2026-Oct-1	42858832
483	Genome-wide Characterization of Pm-Rel DNA-binding Landscape in Pearl Oyster Pinctada fucata martensii.	Fish & shellfish immunology	2026-Oct-1	42858883
484	Anti-inflammatory effects of JI-017 in cellular and an LPS-induced endotoxemia model.	Molecular biology reports	2026-Oct-1	42859244
485	Bone marrow adipose tissue in cardiometabolic disease: marrow niche remodeling, inflammatory hematopoiesis, and vascular pathology.	Endocrine	2026-Oct-1	42859353
486	Implications of Glucagon-Like Peptide-1 Signaling for Hemophilic Arthropathy, Joint Inflammation, and Cartilage Degeneration: A Narrative Review.	Haemophilia : the official journal of th	2026-Oct-1	42856009
487	G - Protein-Coupled Receptor 41 (GPR41) as a Therapeutic Target for Metabolic Endotoxemia: Mechanistic Insights into AR420626-Induced Autophagy and Nuclear Factor kappa B (NF- κ B) Sup	ACS pharmacology & translational sci	2026-Oct-0	42871971
488	Quantitative Systems Pharmacology Model Predicts Enhanced Antitumor Efficacy of Combined Cytotoxic T - Lymphocyte-Associated Protein 4 (CTLA-4) and Programmed Cell Death Protein 1 (P	ACS pharmacology & translational sci	2026-Oct-0	42872107
489	Notch Receptor 2 Drives Epithelial-Mesenchymal Transition and M2-Like Macrophage Polarization in Human Colorectal Cancer Tissues and HCT116 Cells.	Journal of visualized experiments : JoVE	2026-Oct-0	42858027
490	Evaluating Macrophage Polarization and Inflammation in Bitongqing-Treated Collagen-Induced Arthritis Rats.	Journal of visualized experiments : JoVE	2026-Oct-0	42858072
491	Golidocitinib ameliorates radio-immunotherapy-induced lung injury by alleviating oxidative stress and Pyroptosis.	International immunopharmacology	2026-Oct-0	42854381
492	CXCR4-enriched B cells foster immunosuppression and gastric cancer progression in male mice via the adenosine-IL-10 axis.	Cellular and molecular gastroenterology	2026-Oct-0	42854840

#	标题	期刊	日期	PMID
493	A teleost mannose receptor with dual carbohydrate recognition domains bridges innate immunity and gut microbiota homeostasis in largemouth bass.	International journal of biological macr	2026-Oct-0	42855090
494	PBK drives pulmonary fibrosis via activating p53/ACVR1C/Smad-mediated epithelial-mesenchymal transition.	International journal of biological macr	2026-Oct-0	42855092
495	Mitochondria transfer via tunneling nanotubes drives macrophage immunosuppression and metabolic reprogramming in pediatric AML.	Leukemia	2026-Oct-0	42855473
496	Human adult and pediatric multimodal transcriptomic atlas of progression from pressure-loaded to failing right ventricle.	Nature cardiovascular research	2026-Oct-0	42855501
497	LAG3 checkpoint function and its mechanism of action in therapeutic targeting.	Nature reviews. Immunology	2026-Oct-0	42855599
498	Lymph node contraction links sex-biased naive CD8+ T cell decline to compromised antigen recognition during middle age.	Nature aging	2026-Oct-0	42855600
499	Small-molecule NFAT signaling inhibitor with dual NFATc1/NFATc2 activity and limited calcineurin catalytic inhibition.	Archives of pharmacal research	2026-Oct-0	42850494
500	BmSNX20 restricts Bombyx mori nucleopolyhedrovirus infection and is associated with autophagy-mediated antiviral immunity.	Insect science	2026-Oct-0	42851068
501	INSR Armoring Protects CAR-NK and CAR-T Cells Against Tumor Stroma-Induced CAR Shedding by Maintaining Cholesterol Homeostasis.	Cancer research	2026-Oct-0	42853033
502	Curcumin in ovarian cancer: mechanistic insights and translational potential.	Medical oncology (Northwood, London, Eng	2026-Oct-0	42853302
503	SUMO2 deletion changes chromatin accessibility and enhances cytotoxic T cell activation and tumor infiltration.	Science advances	2026-Oct-0	42853933
504	Decoding the immune regulation of ovarian aging: mechanisms and therapeutic strategies.	Human reproduction update	2026-Oct-0	42854090
505	SLC39-driven zinc influx orchestrates pleiotropic tumor-immune system cross-talk to establish immune suppression in colorectal cancer.	Science advances	2026-Oct-0	42842645
506	HnRNPK suppresses macrophage-driven inflammation in autoimmune myocarditis by restraining NCF1-dependent oxidized phospholipid signaling and ferroptosis-related changes.	Redox biology	2026-Oct-0	42874131
507	A self-assembled hydrophobic polymer tagged nanoplatfrom for membrane protein degradation and immunomodulatory drug delivery.	Biomaterials	2026-Oct-0	42874514
508	Ectopic rabphilin-3A expression in lung adenocarcinoma associated with paraneoplastic arginine vasopressin deficiency during anti-PD-L1 therapy: a case report.	Journal for immunotherapy of cancer	2026-Oct-0	42849918
509	Integrated multi-omics reveals that Notoginsenoside R1 mitigates inflammation mediated by NLRP3 and metabolic disruption in muscle contusion.	International immunopharmacology	2026-Oct-0	42849121
510	Targeting macrophage-derived oncostatin M preserves cardiomyocyte mitochondrial bioenergetics and contractile function in fulminant myocarditis.	Pharmacological research	2026-Oct-0	42849554

#	标题	期刊	日期	PMID
511	Immunological mechanisms of Hsp70-Tlr4 and Hsp90-Akt signaling pathways in <i>Percocypris pingi</i> during chronic heat stress.	Fish & shellfish immunology	2026-Oct-0	42849589
512	PHD1/IKK β /NF- κ B signaling pathway regulates macrophage polarization and is involved in hypoxia-tolerant large yellow croaker (<i>Larimichthys crocea</i>) against <i>Aeromonas hydrophila</i> infe	Fish & shellfish immunology	2026-Oct-0	42849590
513	Recent advances in Tumor microenvironment-responsive pro-antibody to overcome on-target, off-Tumor toxicity.	Biochemical pharmacology	2026-Oct-0	42849625
514	Autoimmune CD4+T cells cause Meibomian gland dysfunction in an adoptive transfer model.	Mucosal immunology	2026-Oct-0	42849738
515	Stigmasterol suppresses macrophage-mediated inflammatory amplification in acute pancreatitis through PPAR- γ -dependent macrophage reprogramming.	Journal of ethnopharmacology	2026-Oct-0	42849825
516	Bufei Yishen formula ameliorates chronic obstructive pulmonary disease by restoring alveolar macrophage efferocytosis through Nrf2 activation.	Journal of ethnopharmacology	2026-Oct-0	42849827
517	Coronary Vasculitis and Myocarditis in Acute Systemic Lupus Erythematosus Flares With Macrophage Activating Syndrome.	JACC. Case reports	2026-Oct-0	42853173
518	Loss of Tars induces proteostasis stress and drives HSPC exhaustion through mTORC1 activation.	Acta pharmacologica Sinica	2026-Oct-0	42844293
519	Core-Shell Microneedle Patches Co-Loaded with Gymnema Sylvestre Extract and IL-4 Accelerate Diabetic Wound Repair via Inflammatory Microenvironment Remodeling.	ACS applied materials & interfaces	2026-Oct-0	42844998
520	Macrophage-specific LAMTOR2 deletion disrupts systemic iron homeostasis in mice.	Haematologica	2026-Oct-0	42845059
521	Targeting YAP/TEAD signaling disturbs RNA Pol II activity and enhances immunotherapy response via activated cytosolic DNA sensing pathway in gastroesophageal cancer.	Molecular cancer therapeutics	2026-Oct-0	42847283
522	Pineal melatonin modulates responsiveness to exogenous melatonin via the IFN- γ -CXCL9/10-CXCR3 axis in gastric cancer.	The Journal of endocrinology	2026-Oct-0	42847819
523	Surfactant protein A (SP-A) alleviates acute kidney injury by reducing macrophage recruitment and M1 polarization.	Journal of molecular histology	2026-Oct-0	42848088
524	Cancer-associated fibroblasts in therapeutic resistance of hepatocellular carcinoma: evidence, mechanisms, and translational implications.	Medical oncology (Northwood, London, Eng	2026-Oct-0	42848120
525	Maresin1 Improves Angiogenesis and Cognitive Function by Regulating Perivascular Macrophages in Rats with Chronic Cerebral Hypoperfusion.	Neurochemical research	2026-Oct-0	42848243
526	Ablation-immunotherapy synergy in cancer: mechanisms of the abscopal effect, emerging clinical applications, and translational roadmaps for next-generation onco-immunology.	Medical oncology (Northwood, London, Eng	2026-Oct-0	42848277
527	BRCA Mutation Carriers and Breast Implant-Associated Anaplastic Large-Cell Lymphoma: Accumulating Evidence, Proposed Mechanism, and Implications for Reconstructive Planning and Fol	Annals of surgical oncology	2026-Oct-0	42848302
528	Targeted Intracellular Hydrogen Sulfide Delivery to Inflammatory Macrophages Reprograms Polarization and Mitigates Oxidative Stress in Osteoarthritis.	Small (Weinheim an der Bergstrasse, Germ	2026-Oct-0	42848586

#	标题	期刊	日期	PMID
529	Early recruitment of membrane-bound DNaseX to phagocytic cups in macrophages.	eLife	2026-Oct-0	42848625
530	KPNA2-Mediated MYC Nuclear Import Enhances CAR-T Cell Memory and Potentiates Antitumor Efficacy.	Blood	2026-Oct-0	42848851
531	Paired Single-Cell Profiling Reveals Glutathione-Dependent Immune Evasion in Breast Cancer Liver Metastasis.	Cancer research	2026-Oct-0	42848958
532	TRIM29 may facilitate progression of pancreatic ductal adenocarcinoma through immune remodeling.	Pancreatology : official journal of the	2026-Oct-0	42869687
533	Targeting ZDHHC15-mediated S-acylation of CD155 reactivates anti-tumor immunity.	Cell chemical biology	2026-Oct-0	42843329
534	Histone lactylation scarring transmits metabolic and epigenetic memory across the gut-liver axis.	Cell metabolism	2026-Oct-0	42843338
535	The Rap subfamily in Mugil cephalus: genome-wide identification and a role for McRap1a in antibacterial immunity.	Fish & shellfish immunology	2026-Oct-0	42843440
536	The identification of SiTRAF suggests the presence of a functional MyD88-TRAF signaling axis in the sea urchin Strongylocentrotus intermedius.	Fish & shellfish immunology	2026-Oct-0	42843442
537	Glycosylation in colorectal cancer: From tumor-intrinsic signaling to the host-microbiome glyco-interface.	Biochimica et biophysica acta. Reviews o	2026-Oct-0	42843574
538	TCASIA: an integrative atlas linking alternative splicing landscapes for cancer immunotherapy.	Journal for immunotherapy of cancer	2026-Oct-0	42843924
539	IL7R mRNA therapy enhances antitumor T cell immunity and suppresses tumor growth in preclinical tumor models.	Journal for immunotherapy of cancer	2026-Oct-0	42843926
540	Safety of Autologous Infusion of CER T Cells in Nonhuman Primates.	AIDS research and human retroviruses	2026-Oct-0	42844260
541	Macrophage pyroptosis drives luminal senescence and club-cell reprogramming in 5 α -reductase inhibitor-treated prostatic hyperplasia.	Experimental & molecular medicine	2026-Oct-0	42844351
542	Coacervate Microreactors for Cholesterol-Coupled Nitric Oxide Biocatalysis in Atherosclerosis.	ACS applied materials & interfaces	2026-Oct-0	42837637
543	Tumor-derived DLK1 restrains tumor progression through remodeling of the tumor immune microenvironment.	BMB reports	2026-Oct-0	42839610
544	Non-coding RNA-mediated tug-of-war between emerging viruses and host antiviral defense: lessons from animal viruses.	Emerging microbes & infections	2026-Oct-0	42841343
545	GNTbm-38, a Novel Epigenetic Modulator, Performs Immune Activation and Reprogramming of the Tumor Microenvironment.	Molecular cancer therapeutics	2026-Oct-0	42841493
546	Single-Cell and Spatial Transcriptomics Reveal CHCHD3 as a Therapeutic Target to Activate cGAS-STING and Overcome Immunosuppression in Lung Adenocarcinoma.	Cancer research	2026-Oct-0	42841543
547	Plasma Proteome Signature of Immune Inhibition is Associated with Cytomegalovirus in People with HIV-1.	The Journal of infectious diseases	2026-Oct-0	42841799
548	Innate immune transcriptomic remodeling across clinical stages of bovine leukemia virus infection.	Virus genes	2026-Oct-0	42842054
549	Single-cell transcriptomics reveals the heterogeneous landscape of innate lymphoid cells in zebrafish.	Cell reports	2026-Oct-0	42842367
550	A developmentally restricted γ δ T cell-IL-17A axis supports mouse heart regeneration.	Cell reports	2026-Oct-0	42842371

#	标题	期刊	日期	PMID
551	The Tumor Neuroimmune Niche: A Unifying Framework for Cancer Progression and Its Neuropsychiatric Burden.	Neuroimmunomodulation	2026-Oct-0	42842526
552	A multiomic atlas reveals distinct immune landscapes in preterm and term chronic placental inflammation.	Science translational medicine	2026-Oct-0	42842718
553	Beyond monospecificity in systemic lupus erythematosus: Emerging roles of bispecific and trispecific antibodies.	Lupus	2026-Oct-0	42842810
554	Multiomics Insights Linking Personal Care Products Exposure to Serum Lipid Profiles in Older Adults: The China BAPE Study.	Environmental health perspectives	2026-Oct-0	42852005
555	Role of HIF1 α in FXR-mediated protection and anti-inflammatory macrophage polarization in parenteral nutrition-associated cholestasis.	Biochimica et biophysica acta. Molecular	2026-Oct-0	42837722
556	Emerging role of cGAS-STING in the pathogenesis of allergic diseases.	International immunopharmacology	2026-Oct-0	42837792
557	Celastrol attenuates osteoclast-driven bone invasion in pituitary adenomas and suppresses HSP90AA1/TRAF6/NF- κ B signaling.	International immunopharmacology	2026-Oct-0	42837793
558	DNASEIL3 maintains homeostatic levels of mitochondrial DNA on the mammalian cell surface.	Molecular cell	2026-Oct-0	42838054
559	Menispermum dauricum rhizome alkaloids ameliorate colitis by inhibiting mitochondrial DNA synthesis via the JAK2-STAT4-AK4 pathway.	Journal of ethnopharmacology	2026-Oct-0	42838300
560	A pH-Sensitive and ROS-Responsive Hydrogel Enhanced by Arginine-Derived Carbon Dots for the Diagnosis and Treatment of Infected Wounds.	Acta biomaterialia	2026-Oct-0	42838403
561	γ δ T Cells in Cancer Immunotherapy, 2000-2025: A Bibliometric Analysis and Clinical-Trial Evidence Map.	Critical reviews in oncology/hematology	2026-Oct-0	42838468
562	Dietary Cinnamaldehyde Alleviates Chlorpyrifos-Induced Immunotoxicity in Nile Tilapia and Modulates Apoptosis-, Autophagy-, and AKT/mTOR-Related Gene Expression.	Developmental and comparative immunology	2026-Oct-0	42838471
563	Blocking PD1 prevents T-cell-promoted fibrosis in myocardial infarction.	Cell discovery	2026-Oct-0	42838936
564	Inhibition of CDK12/CDK13-CYCLIN K rewires P-TEFb signaling to reverse HIV-1 latency and modulate cellular gene expression.	EMBO molecular medicine	2026-Oct-0	42839123
565	TMEM16F deficiency alleviates sepsis-induced acute lung injury through regulating macrophage polarization.	Inflammation research : official journal	2026-Oct-0	42839125
566	Dicer-independent miR-451a is upregulated in periodontitis and potentiates inflammation by impairing macrophage polarization and SOCS activity.	Inflammation research : official journal	2026-Oct-0	42839140
567	Chicken cathelicidin-3 protected mice from avian pathogenic Escherichia coli infection mediated by triggering chemokine CCL3 pathway.	Veterinary research	2026-Oct-0	42839251
568	Self-Adaptive Biomimetic Nanocomposite Hydrogel Orchestrates Dual-Targeting and On-Demand H2S Gasotransmission for Multifactorial Diabetic Wound Therapy.	Advanced science (Weinheim, Baden-Wurtte	2026-Oct-0	42839608
569	Intermittent Fasting Reduces Taurine Availability and Promotes Antitumor Immunity Through PERK Attenuation-Associated Paraptosis-Like Cell Death in Colorectal Cancer.	Advanced science (Weinheim, Baden-Wurtte	2026-Oct-0	42839693

#	标题	期刊	日期	PMID
570	Source-specific priming of lung NK cells by Pseudomonas LPS enhances resistance to bacterial pneumonia.	Signal transduction and targeted therapy	2026-Oct-0	42834046
571	GABABR activation alleviates Streptococcus equi subsp. zooepidemicus-induced acute lung injury by suppressing inflammation and oxidative stress in pulmonary macrophages via IRAK3.	Microbiology spectrum	2026-Oct-0	42836342
572	Macrophage Smad1 drives post-infarction dysfunction by reducing angiogenesis and by promoting matrix remodeling.	Cardiovascular research	2026-Oct-0	42836375
573	Inhibition of the MER tyrosine kinase ameliorates pulmonary fibrosis by suppressing macrophage M2 polarisation and osteopontin signalling.	British journal of pharmacology	2026-Oct-0	42836432
574	Deletion of ppe27 in Mycobacterium bovis BCG augments macrophage immune responses during infection.	Microbiology spectrum	2026-Oct-0	42836644
575	Epigenetic Priming Sensitizes Metastatic Breast Cancer to Checkpoint Blockade by Rewiring the Tumor-Immune Microenvironment.	Cancer research	2026-Oct-0	42836774
576	Modulation of Pancreatic Activity by Ghrelin and Its Potential Effects on Acute Pancreatitis.	Digestive diseases and sciences	2026-Oct-0	42836934
577	Keratinocyte VISTA attenuates UV light-induced skin injury by suppressing cutaneous type I interferon (IFN-I) response.	JCI insight	2026-Oct-0	42837173
578	Pharmacologic HIF-2 α inhibition preserves T cell effector function in clear cell renal cell carcinoma.	The Journal of clinical investigation	2026-Oct-0	42837196
579	Metabolic reprogramming of pathogenic CD4+ T helper cells attenuates inflammatory bowel disease in mice.	Science signaling	2026-Oct-0	42837442
580	PAK4 exacerbates melanoma immunosuppression by promoting exosome release.	Proceedings of the National Academy of S	2026-Oct-0	42826135
581	TCR-mTORC1 signaling promotes epigenetic stabilization of Foxp3 expression in regulatory T cells via TET protein translation.	Proceedings of the National Academy of S	2026-Oct-0	42809396
582	α -aminobutyric acid promotes tumor progression by polarizing macrophages through the ASNS-mTORC2 axis.	Proceedings of the National Academy of S	2026-Oct-0	42814553
583	LAT condensation gates PLC γ 1 activation via bimodal LAT phosphorylation.	Proceedings of the National Academy of S	2026-Oct-0	42814554
584	Altered toll-like receptor expression in autism spectrum disorder: Evidence from mRNA and serum protein analyses.	Journal of psychiatric research	2026-Oct-0	42849185
585	The chitinase-microbiota axis: connecting innate immunity, microbial ecology, and mucosal homeostasis.	Journal of leukocyte biology	2026-Oct-0	42852577
586	Bridging innate and adaptive immunity: A bispecific SIRP α D1- α PCSK9 fusion protein reprograms macrophages for durable tumor clearance.	Cell reports. Medicine	2026-Oct-0	42833217
587	Pathogenic mechanisms and novel experimental anti-inflammatory therapies in hemophilic arthropathy.	Journal of thrombosis and haemostasis :	2026-Oct-0	42833297
588	MINDY1 drives metabolic-immune crosstalk via OGT-UGP2-UDPG axis to promote immunosuppressive macrophage reprogramming.	Metabolism: clinical and experimental	2026-Oct-0	42833356
589	Nucleocytoplasmic trafficking of immune signals in plants.	Plant science : an international journal	2026-Oct-0	42833380

#	标题	期刊	日期	PMID
590	GNG7 attenuates inflammation and modulates macrophage function via the NF- κ B/NLRP3 inflammasome pathways in Poly I:C-induced acute lung injury.	Biochimica et biophysica acta. Molecular	2026-Oct-0	42833558
591	PRTN3 drives immunosuppression in KRAS-mutant lung adenocarcinoma through proteolytic inactivation of CXCL9.	Journal for immunotherapy of cancer	2026-Oct-0	42833861
592	A Dual-Enzyme Delivery System Targeting Lactate Depletion to Induce Disulfidptosis and Activate STING Pathway for Inhibiting Breast Cancer Metastasis.	Advanced healthcare materials	2026-Oct-0	42834743
593	Macrophage-associated epithelial-mesenchymal transition in human breast cancer: contextualizing innate immune sensing programs.	Anti-cancer drugs	2026-Oct-0	42837489
594	Senescence-independent SASP drives tumor-macrophage inflammatory cascade and therapeutic resistance in HNSCC.	Functional & integrative genomics	2026-Oct-0	42830352
595	Characterization of SPP1 + macrophages and their correlation with resistance to neoadjuvant chemotherapy in colorectal cancer liver metastasis.	Molecular biomedicine	2026-Oct-0	42830367
596	Liver X receptor (LXR) signaling in macrophage inflammation and cardiometabolic disease.	Cardiovascular research	2026-Oct-0	42831303
597	Single-Cell RNA Sequencing deciphers the imbalance of Microenvironment of the Maternal-Fetal Interface in Cesarean Scar Pregnancy.	Biology of reproduction	2026-Oct-0	42831676
598	The clinical and immunological paradox of antiretroviral therapy-induced autoimmunity: the intersecting roles of the Th17/Treg Axis, HLA susceptibility, and accelerated telomeric s	International reviews of immunology	2026-Oct-0	42831703
599	NOP2 Exacerbates Pulmonary Inflammation in a Murine Model of Chronic Obstructive Pulmonary Disease by Inducing Neutrophil Extracellular Traps Mediating M1 Macrophage Polarization.	Lung	2026-Oct-0	42831943
600	Vascular smooth muscle-specific NLRP3 hyperactivation exacerbates arterial intimal hyperplasia in mice.	Journal of molecular medicine (Berlin, G	2026-Oct-0	42832067
601	Differential formation of nitrate-responsive mycobacterial intracytoplasmic membranes during Mycobacterium tuberculosis infection.	Cell reports	2026-Oct-0	42832335
602	A reciprocally masked anti-CD47/IL-2 fusion protein promotes antitumor immunity and limits systemic toxicity.	Cancer immunology research	2026-Oct-0	42832640
603	PLA1A Inhibition Enhances Chemoimmunotherapy Efficacy by Blocking Immunosuppressive Macrophage Polarization in Colorectal Cancer.	Cancer research	2026-Oct-0	42832699
604	A Novel ACLY Inhibitor Induces Transcriptional and Metabolic Reprogramming to Overcome Tyrosine kinase inhibitor Resistance in Lymphoma.	bioRxiv : the preprint server for biolog	2026-Oct-0	42856439
605	Functional Exhaustion Limits CAR-NK Therapy in Glioblastoma but Can Be Mitigated by Early Repeated Dosing.	Research square	2026-Oct-0	42856446
606	Histone lactylation-upregulated CEBPB transcriptionally activates CXCL12 and p21 to modulate vascular smooth muscle cell senescence and macrophage polarization.	Cellular signalling	2026-Oct-0	42830164
607	CD112 Lactylation Drives Dual Immune Evasion From CD8+ T Cells and NK Cells.	Advanced science (Weinheim, Baden-Wurtte	2026-Oct-0	42829916

#	标题	期刊	日期	PMID
608	NR2C2 suppresses breast cancer progression and promotes T-Cell infiltration in the tumor microenvironment.	Journal of molecular histology	2026-Oct-0	42828550
609	IL-15 drives antigen-independent increase in granzyme K+B+ CD8 T cells enriched in rheumatoid arthritis joints.	Journal of autoimmunity	2026-Oct-0	42828803
610	Deficiency of purinergic receptor P2X7 attenuates neointima hyperplasia in mice after carotid artery wire injury.	International immunopharmacology	2026-Oct-0	42828876
611	Targeting the Metabolic-Immune Regulator SLC35F6 Enhances Temozolomide and Anti-PD-L1 Therapy in Glioma.	Cancer letters	2026-Oct-0	42829067
612	Multi-omics analysis reveals oxidative stress-associated alterations in glycerophospholipid metabolism and inflammatory response in 6PPDQ-exposed macrophages.	Environmental pollution (Barking, Essex	2026-Oct-0	42829098
613	Cebpb/JAK2/STAT3 signaling pathway mediated M1 macrophage polarization and metabolic rewiring drive COPD pathogenesis.	Biochemical pharmacology	2026-Oct-0	42829111
614	CIO-IAA is a dual ETA/ETB receptor antagonist that suppresses endothelin-1-induced macrophage activation and inflammatory signaling.	Biochemical pharmacology	2026-Oct-0	42829115
615	Ophiopogonin D Suppresses Non-Small Cell Lung Cancer Progression by Targeting Exosomal MALAT1 to Enhance Dendritic Cell Maturation.	Pharmacological research	2026-Oct-0	42829139
616	Carboxymethylated Laminarin-Decorated ZIF-8 Enables Macrophage-Targeted Quercetin Delivery with Superior Anti-Inflammatory Efficacy.	Analytical biochemistry	2026-Oct-0	42829162
617	Immunosenescence in tumor progression: from synergistic mechanisms to therapeutic strategies.	Critical reviews in oncology/hematology	2026-Oct-0	42829195
618	Spatially distinct molecular and immune responses to ozone exposure during mutant surfactant protein-C-induced lung injury.	Inhalation toxicology	2026-Oct-0	42829339
619	The therapeutic potential of transposable element activity modulation.	EMBO molecular medicine	2026-Oct-0	42829380
620	Peli1 promotes sepsis-induced inflammation and coagulopathy by maintaining lipg stability in macrophages.	Journal of thrombosis and thrombolysis	2026-Oct-0	42829412
621	Cur-EGCG-Fe coordination nanoparticle-functionalized gelatin hydrogel biointerfaces for antibacterial and inflammatory microenvironment-regulatory wound repair.	Colloids and surfaces. B, Biointerfaces	2026-Oct-0	42828924
622	Chemotherapy enhances cancer vaccine efficacy and expands stem-like TCF1+CD8+ T cells.	Cancer cell	2026-Oct-0	42826713
623	Multi-omics-driven personalized management of advanced HCC.	Cell reports. Medicine	2026-Oct-0	42826719
624	Targeting acute kidney injury via inflammation-directed homing using emodin/vitamin E-loaded macrophage membrane-biomimetic nanovesicles.	International journal of pharmaceutics	2026-Oct-0	42826846
625	Optimizing antibody-dependent cellular phagocytosis for cancer immunotherapy: mechanisms, constraints, and therapeutic strategies.	Journal of advanced research	2026-Oct-0	42826900
626	Hippo signaling and vestigial-like family member 3 at the stromal-immune interface in autoimmunity.	Trends in molecular medicine	2026-Oct-0	42827068
627	H3K18la in periodontal ligament fibroblasts regulates immune niches and alveolar bone remodeling under mechanical loads.	International journal of oral science	2026-Oct-0	42827120

#	标题	期刊	日期	PMID
628	Prostaglandin E2-mediated aging microenvironment fuels pathogenic fibrosis in cesarean section scar defect.	EMBO molecular medicine	2026-Oct-0	42827157
629	METTL14-mediated m6A modification of CXCL9 mRNA regulates macrophage CS polarization to suppress OSCC growth and stemness.	Functional & integrative genomics	2026-Oct-0	42825844
630	Migratory dermal γ δ T cells determine the balance between lung immunity and tissue damage during helminth infection.	Science immunology	2026-Oct-0	42826172
631	Macrophage-supported metabolic adaptation drives tumor survival under nutrient stress.	Science advances	2026-Oct-0	42826203
632	Chemo-metallo nanodriviers for spatiotemporally controlled in situ vaccination.	Science advances	2026-Oct-0	42814834
633	Molecular mechanisms and therapeutic prospects of short-chain fatty acid-mediated regulation of rheumatoid arthritis via the gut-joint axis.	Cytokine & growth factor reviews	2026-Oct-0	42837707
634	4-Octyl itaconate suppresses IFN- γ -induced MHC II expression in bone marrow-derived macrophages.	Journal of immunology (Baltimore, Md. :	2026-Oct-0	42838721
635	Advances in diagnosis and treatment of angioimmunoblastic T-cell lymphoma.	Leukemia research	2026-Oct-0	42832892
636	Systems-level bioinformatics analysis of hsa-miR-132-3p targets identifies a conserved neuroimmune regulatory module relevant to Alzheimer's disease.	Computational biology and chemistry	2026-Oct-0	42828976
637	Investigation of Wnt2's Role in Macrophage Polarization and Its Effects on Sepsis.	Immunological investigations	2026-Oct-0	42820465
638	NFAM1 organizes a lipid raft-restricted DAPPI-PLCG2 module to drive M2-like GAM polarization via Ca ²⁺ -NFAT1 signaling in glioma.	Neuro-oncology	2026-Oct-0	42820763
639	How extracellular vesicles contribute to pulmonary fibrosis: miRNA-mediated mechanisms, diagnostic potential, and emerging therapeutic strategies.	Molecular biology reports	2026-Oct-0	42821136
640	Neutrophils and CSF1 promote the expansion of monocyte-derived alveolar macrophages in progressive pulmonary fibrosis.	American journal of physiology. Lung cel	2026-Oct-0	42821460
641	Temporal Macrophage Activation Is Reduced by CCR2 Knockout in a Murine Subacromial Impingement Model.	The Journal of bone and joint surgery. A	2026-Oct-0	42821657
642	Leukemia-associated myeloid cells support distinct T-ALL subtypes via unique signals converging on metabolic alterations.	Blood	2026-Oct-0	42821740
643	Mogroside V attenuates inflammatory responses by modulating the miR-448-3p/ELL2/PDE4A axis in vitro.	International immunopharmacology	2026-Oct-0	42822276
644	Tumor-derived acetylcholine promotes immune evasion in hepatocellular carcinoma by protecting regulatory T cells from ferroptosis.	International immunopharmacology	2026-Oct-0	42822277
645	ZNFX1, an immunoregulatory RNA helicase and E3 ubiquitin ligase, assembles into pleiomorphic polymers.	Molecular cell	2026-Oct-0	42822417
646	Glucose-deprived tumor microenvironment activates AMP-activated protein kinase to drive adoptively transferred T helper 9 cell senescence.	Immunity	2026-Oct-0	42822442
647	Functional evaluation of TCR-pMHC pairs at scale allows in silico TCR reactivity prediction.	Immunity	2026-Oct-0	42822443

#	标题	期刊	日期	PMID
648	Antitumor efficacy of PD-1 blocking antibody is enhanced through liposomal delivery and myeloid immune modulation.	Journal of controlled release : official	2026-Oct-0	42822539
649	ATF6 contributes to cardiac macrophage polarization and metabolic reprogramming following myocardial ischemia/reperfusion injury.	Metabolism: clinical and experimental	2026-Oct-0	42822644
650	Belumosudil Improves Experimental Pulmonary Fibrosis via the ROCK2/Smad3/CTGF Pathway.	Pulmonary pharmacology & therapeutic	2026-Oct-0	42822718
651	p38 MAPK-associated autophagic response restrains TLR4/MyD88 signaling in RT-treated macrophages.	Toxicon : official journal of the Intern	2026-Oct-0	42822730
652	Litopenaeus vannamei heat shock protein 10 is a novel immune regulator that enhances shrimp defense against Ecytonucleospora hepatopenaei infection through LvSPL3-mediated propheno	Fish & shellfish immunology	2026-Oct-0	42822738
653	Multi-omics integration reveals the CTSK-cholesterol metabolic axis and the cholesterol-RORA/LDLR paracrine axis in SPP1+ macrophages as mediators of 6PPD-quinone-induced idiopathi	Environmental pollution (Barking, Essex	2026-Oct-0	42822817
654	HIF-1-mediated PPME1 expression promotes breast cancer progression via AKT activation and β -catenin recruitment.	The Journal of clinical investigation	2026-Oct-0	42820287
655	Repegaldesleukin and Regulatory T Cell Restoration in Immune-Mediated Skin Diseases.	Dermatology and therapy	2026-Oct-0	42823602
656	OX40 Ligand/OX40 Axis as the Inflammatory Prequel in Atopic Dermatitis: A Narrative Review.	Dermatology and therapy	2026-Oct-0	42823603
657	Subphenotype-specific serum proteomic signatures in patients with ARDS.	Journal of intensive care	2026-Oct-0	42823723
658	z-VAD-FMK triggers macrophage necroptosis during mycobacterial infection via a non-canonical off-target mechanism.	mLife	2026-Oct-0	42824841
659	The dynamic landscape of T helper cell plasticity and Th17-Treg instability in periodontitis.	Experimental & molecular medicine	2026-Oct-0	42816543
660	Decoding the lncRNA landscape in bovine mastitis: insights into immune regulation and gene networks underlying host response.	Journal of animal science and biotechnol	2026-Oct-0	42816861
661	Hybrid-Fused Extracellular Vesicles from M2 Macrophages and Keratinocytes Attenuate Ultraviolet B-Induced Skin Photoaging via the Interleukin-4 Receptor Alpha/Janus Kinase/Signal T	ACS applied materials & interfaces	2026-Oct-0	42817007
662	K17 hi Hair Follicle Cells Orchestrate Psoriatic Inflammation Through S100A1-Dependent Signaling.	The British journal of dermatology	2026-Oct-0	42817581
663	Immunologic Consequences of Genomic Instabilities.	Cancer discovery	2026-Oct-0	42817715
664	The host transcriptional response to real-world cryptococcosis in the setting of advanced HIV disease defines dysregulated immune responses that underlie increased vulnerability to	The Journal of infectious diseases	2026-Oct-0	42817830
665	Cumulative expression of the two Lyn isoforms creates a threshold for macrophage signaling in the absence of receptor engagement.	Journal of leukocyte biology	2026-Oct-0	42817861
666	Acetyltransferase MOF Regulates Macrophage Inflammation in Abdominal Aortic Aneurysms.	Circulation research	2026-Oct-0	42817883
667	C. elegans dauer morphogenesis requires inhibition of DBL-1/BMP signaling by ztf-30.	Development (Cambridge, England)	2026-Oct-0	42813702

#	标题	期刊	日期	PMID
668	MARK3 promotes host antiviral defense by driving GEF-H1-mediated TBK1 activation.	PLoS pathogens	2026-Oct	42945342
669	Macrophage peroxisomes at the crossroads of inflammation.	Immunometabolism (Cobham, Surrey)	2026-Oct	42903971
670	Panax notoginseng Saponins Accelerate Diabetic Wound Repair by Minimizing Mitochondrial Dysfunction and Inhibiting Pyroptosis of Macrophage via Regulating Ephx2/11,12-EET Axis.	Food science & nutrition	2026-Oct	42892831
671	Immune and cellular determinants of response to HMA-venetoclax regimens in acute myeloid leukemia.	HemaSphere	2026-Oct	42871763
672	Myelination and Remyelination in Peripheral Nerve Injury: Mechanisms, Regulation, and Therapeutic Perspectives.	MedComm	2026-Oct	42865824
673	Toxin-mediated tRNA ^{Trp} depletion drives Trp-codon-dependent reprogramming in Mycobacterium tuberculosis while selectively enriching the PDIM biosynthetic machinery.	PLoS pathogens	2026-Oct	42862836
674	Super-Resolution MRI-Derived Tumor-Stroma Ratio Phenotyping for Prognostic and Therapeutic Stratification in Pancreatic Ductal Adenocarcinoma.	MedComm	2026-Oct	42856962
675	Ginsenoside Rb1 From the Functional Food Panax ginseng Suppresses Pancreatic Cancer Progression via Macrophage Reprogramming Through the PI3K-AKT Pathway.	Food science & nutrition	2026-Oct	42857277
676	Parasite-Derived IL-33 Inhibitors Prevent Bleomycin-Induced Lung Fibrosis.	European journal of immunology	2026-Oct	42847444
677	Endothelial TLR4 at the Crossroads of Vascular Senescence and Targeted Senotherapeutics.	Aging cell	2026-Oct	42834845
678	METTL3 Alleviates Liver Abscess by Enhancing Macrophage Efferocytosis via m6A Methylation of Nrf2 mRNA.	Immunity, inflammation and disease	2026-Oct	42836565
679	TGF- β /Smad-Associated Epithelial-Fibroblast Remodeling Underlies Collagen Deposition in Chronic Rhinosinusitis With Nasal Polyps.	Immunity, inflammation and disease	2026-Oct	42836585
680	Maturation-Dependent Constraints in the Ability of Human Monocytes to Initiate Trained Immunity.	MedComm	2026-Oct	42830864
681	Fatty acid-dependent cidality in Mycobacterium avium and Mycobacterium abscessus: intracellular acidification by itaconic acid.	Microbiology (Reading, England)	2026-Oct	42832263
682	Bruton's Tyrosine Kinase Inhibitors: Mechanisms, Efficacy, Toxicities and Applications for the Treatment of Human Diseases.	MedComm	2026-Oct	42827714
683	FXR1 Promotes Esophageal Squamous Cell Carcinoma via JAK2/STAT3/B7-H3 Pathway.	Anticancer research	2026-Oct	42823155
684	When Cold Gets Under the Skin: An Immunometabolic Circuit in Psoriasis.	Experimental dermatology	2026-Oct	42802516
685	Dual Antiviral and Immunomodulatory Effects of Phytochemicals in Influenza A Virus Infection: Targeting Key Host Signaling Pathways.	MicrobiologyOpen	2026-Oct	42806450
686	α -Synuclein Promotes Atherosclerosis by Impairing Macrophage Autophagic Flux.	Aging cell	2026-Oct	42806619

#	标题	期刊	日期	PMID
687	Mechanobiology of Osteoarthritis: Interactions Between Mechanical Stress, Inflammation, and Joint Remodeling.	Cell biology international	2026-Oct	42808736
688	Fisetin Attenuates Human Macrophage Polarization and Pro-Inflammatory Responses via NLRP3 and NF- κ B/MAPK Suppression.	Cell biology international	2026-Oct	42808783
689	Catecholamine Chemistry Dictated the Divergence of Melanization and Signaling Processes During Animal Evolution.	BioEssays : news and reviews in molecula	2026-Oct	42809618
690	Integrative Single-Cell Transcriptomics, Multi-Omics Analyses, and Computational Pharmacology Reveal Macrophage Heterogeneity and the Putative THBS1-CD36 Axis in Coronary Atheroscl	Chemical biology & drug design	2026-Oct	42811239
691	Dual-Targeted M1 Macrophage Extracellular Vesicles Reprogram the Tumor Microenvironment and Enhance Natural Killer Cell Immunotherapy in Breast Cancer.	Journal of extracellular vesicles	2026-Oct	42814771
692	Single-cell analysis reveals synergistic therapeutic mechanisms of Shenqi Fuzheng formula against acute myocardial infarction.	Chinese journal of natural medicines	2026-Oct	42816033
693	circEPSTI1 regulates miR-942-5p-SERPINE1-AKT1 signaling axis to enhance dengue infection and is suppressed by Tiplaxtinin.	Proceedings of the National Academy of S	2026-Nov-0	42932652
694	Turning cold tumors hot: Strategies to enhance antitumor immunity.	The Journal of experimental medicine	2026-Nov-0	42878724
695	Itaconate as the endogenous brake of proinflammatory macrophage activation alleviates inflammation in liver fibrogenesis.	Hepatology communications	2026-Nov-0	42900160
696	The Efferocytosis-Driven Macrophage Polarization: A Concerto in the Tumor Immunosuppressive Microenvironment.	MedComm	2026-Nov	42899246
697	The PIEZO1/CISD1/IP3R Mechanotransduction Axis Drives Macrophage Mitochondrial Dysfunction and Inflammatory Activation in Pulmonary Fibrosis.	MedComm	2026-Nov	42889684
698	cGAS - STING pathway in digestive tract cancer: From molecular mechanisms to therapeutic applications (Review).	International journal of oncology	2026-Nov	42852635
699	Spatial multi - omics identifies an SPP1+ macrophage - driven anti - apoptotic niche in osteoarthritis synovium via the SPP1 - CD44 axis.	International journal of molecular medic	2026-Nov	42825366
700	Mitochondrial mechanisms underlying spatial immune phenotypes in non - small cell lung cancer: Implications for ICI response and cold - to - hot tumor conversion (Review).	Oncology reports	2026-Nov	42825382
701	Placental small-RNA sequencing reveals a distinct microRNA signature and its functional relevance in a preeclampsia rat model.	Hypertension in pregnancy	2026-Dec-3	42954400
702	S100 proteins in kidney disease: Inflammatory biomarkers, pathogenic mechanisms and therapeutic prospects (Review).	International journal of molecular medic	2026-Dec	42960445
703	Mechanisms and therapeutic perspectives of mucosal glycosylation-innate immunity crosstalk in inflammatory bowel disease (Review).	International journal of molecular medic	2026-Dec	42960458
704	Integrated single-cell transcriptomics reveals miR-941 targets CLDN4 to inhibit malignant progression of thyroid cancer through the PI3K/AKT signaling pathway.	Journal of cell communication and signal	2026-Dec	42953376

#	标题	期刊	日期	PMID
705	SEC31A promotes gastric cancer progression by inducing the PI3K/AKT/mTOR pathway and enhancing the CCL5 - mediated M2 polarization and recruitment of tumor - associated macrophages.	Oncology reports	2026-Dec	42885291
706	Research progress of SPPI in cancer regulation: Tumorigenesis, metastasis, tumor microenvironment, immunity and therapeutic targets (Review).	International journal of oncology	2026-Dec	42885314
707	Aqueous extract of erigeron annuus ameliorates OVA-induced atopic dermatitis-like skin lesions through modulation of Th2-mediated immune responses and MAPK signaling.	Pharmaceutical biology	2026-Dec	42885539
708	Virus-like particle vaccines: from antigen architecture to antigen presentation and adaptive immune responses.	Expert review of vaccines	2026-Dec	42872591
709	Protective effects of icariin in atherosclerotic cardiovascular disease: mechanistic basis, post-ischemic protection and translational limitations.	Pharmaceutical biology	2026-Dec	42855993
710	Expression of V - domain Ig suppressor of T cell activation in ovarian cancer and its regulation of follicular regulatory T - cell function via the AKT/MAPK pathway.	Oncology reports	2026-Dec	42852629
711	Mechanisms of neuroimmune crosstalk in vestibular disorders: Linking inflammation with neural circuit dysfunction (Review).	International journal of molecular medic	2026-Dec	42852636
712	Mechanical - immune feedback regulation in distraction osteogenesis: From mechanotransduction to immune microenvironment remodeling (Review).	Molecular medicine reports	2026-Dec	42852638
713	Dysferlin promotes inflammatory macrophage responses and modulates Ca2+-dependent STAT1 signaling.	Life science alliance	2026-Dec	42843976
714	GABA ameliorates diabetic kidney disease-induced podocyte injury via JAML-FPR2 axis-mediated suppression of macrophage infiltration.	Renal failure	2026-Dec	42820494
715	Short telomeres, but not accelerated epigenetic or proteomic age, increase fibrotic lung disease risk: Mendelian randomisation with pleiotropy dissection and independent replicatio	medrxiv preprint	2026-10-15	10.64898/2026.10.14.26364960
716	methyITFR: Computational quantification of transcription factor activity from DNA methylation	biorxiv preprint	2026-10-05	10.64898/2026.09.29.755279
717	Designed nanofiber immunogens prime antibody responsesto diverse conformations of the HIV-1 fusion peptide	biorxiv preprint	2026-10-05	10.64898/2026.10.02.756244
718	Selective suppression and biasing of chemokine receptors CCR9 and ACKR4 through targeting CCL25 with de novo miniproteins	biorxiv preprint	2026-10-05	10.64898/2026.01.23.701245
719	Mechanochemically-reprogrammed stem cell exosomes reconcile the biogenesis internalization trade-off for pulmonary fibrosis therapy	biorxiv preprint	2026-10-03	10.64898/2026.03.20.713315
720	Disrupted O-GlcNAc homeostasis links microglial dysfunction to cerebellar hypoplasia	medrxiv preprint	2026-10-02	10.64898/2026.09.26.26363519
721	Epithelial to mesenchymal transition and M2 macrophages drive aggressiveness in murine and human sarcomatoid urothelial carcinoma.	biorxiv preprint	2026-10-02	10.64898/2026.09.30.755727
722	Avidity-controlled biotherapeutic delivery systems for the treatment of ischemia-reperfusion acute kidney injury	biorxiv preprint	2026-10-02	10.64898/2026.09.30.755753

#	标题	期刊	日期	PMID
723	RasGRP1 promotes efficient intestinal tuft cell differentiation	biorxiv preprint	2026-10-02	10.64898/2026.09.30.755407
724	Mapping the Intellectual Architecture of Inflammation-Centered Macrophage Research in Hepatocellular Carcinoma: A Dual-Database Bibliometric and Scientometric Analysis, 2005-2025.	Journal of inflammation research	2026	42959746
725	Macrophage-Associated Delivery of Tectorigenin by MOF818 Nanozyme for the Treatment of LPS-Induced Acute Lung Injury.	International journal of nanomedicine	2026	42959962
726	Amelogenin-derived peptide-5 suppresses the receptor activator of nuclear factor- κ B ligand-induced osteoclast differentiation via adenosine monophosphate-activated protein kinase a	Journal of applied oral science : revist	2026	42961281
727	Concentration-Optimized Astragalus Polysaccharide-Loaded PLCL Electrospun Dressings for the Treatment of Diabetic Wounds.	Clinical, cosmetic and investigational d	2026	42953562
728	Triptolide and Celastrol for Rheumatoid Arthritis: Mechanism-Guided Nanoarchitectonics for Delivery Strategies to Enhance Efficacy and Reduce Toxicity.	International journal of nanomedicine	2026	42953758
729	The Tango of cGAS-STING and Phagocytosis in Disease: From Molecular Mechanisms to Pharmacological Targeting.	Drug design, development and therapy	2026	42953815
730	Identification of prognostic biomarkers for nasopharyngeal carcinoma through microRNA - mRNA network analysis combined with screening of immune - related genes.	PloS one	2026	42955997
731	Bone Marrow Mesenchymal Stem Cell-Derived Exosomal miR-451a Inhibits Macrophage M1 Polarization Through the TLR4/PI3K/AKT Signaling Pathway to Alleviate Acute Lung Injury.	Stem cells international	2026	42947947
732	Development and External Validation of an M2 Macrophage-Related Prognostic Signature in Breast Cancer Using Multi-Omics Data and Machine Learning.	Breast cancer (Dove Medical Press)	2026	42928788
733	Single-cell analysis of COPD: Microenvironmental interactions driven by immune-fibrotic imbalance.	PloS one	2026	42932341
734	Microbiota-Associated Metabolites as Immunometabolic Regulators of Glomerular Inflammation: Disease-Specific Mechanisms and Therapeutic Opportunities.	Journal of inflammation research	2026	42921202
735	Crystal Sensing and Neurogenic Inflammation in Gout: A Proposed Sensory Neuroimmune Framework for Flare Pain.	Journal of pain research	2026	42921526
736	Dietary Butyrate as a Functional Feed Additive in Aquaculture: A Systematic Review and Meta-Analysis of Immunological and Antioxidant Responses With Dose-Response Insights.	Aquaculture nutrition	2026	42910076
737	TOX-Related T-Cell Exhaustion as a Link Between Chronic Inflammation, Tumor Immunity, and Immunotherapy A Bibliometric and Mechanism-Oriented Review.	Journal of inflammation research	2026	42894622
738	Nano-/Nanobiotechnology-Augmented Pyroptosis in the Treatment of Triple-Negative Breast Cancer: An Updated Review.	International journal of nanomedicine	2026	42898955
739	Mitochondrial Metabolic Reprogramming in Macrophages: A Key Driver of Rheumatoid Arthritis.	Journal of inflammation research	2026	42899200

#	标题	期刊	日期	PMID
740	Metabolic Competition-Driven Antitumor Immunity of glpX-Deficient Engineered Salmonella via Glucose Deprivation and STING Activation in Bladder Cancer.	Cancer communications (London, England)	2026	42889276
741	Transformation to Plasmablastic Lymphoma Following CD19-Directed CAR T Cell Therapy for Refractory Diffuse Large B Cell Lymphoma: A Case Report.	Case reports in pathology	2026	42889281
742	Nanozyme-Mediated Anesthetic Drug Delivery and Macrophage Immunomodulation: Emerging Concepts and Translational Challenges.	Drug design, development and therapy	2026	42889841
743	A Multifunctional Metal-Based Nanomedicine for Copper Sequestration, in situ Toxicification, and Immune Activation Against Metastatic Cancer.	International journal of nanomedicine	2026	42890757
744	Mitochondria-Macrophage Interactions in Sepsis at Different Immune Stages: Integrating Immunometabolic Reprogramming, Organ Damage, and Therapeutic Strategies.	Journal of inflammation research	2026	42891375
745	Integrated Transcriptomic and Single-Cell Analyses Identify a T Cell-Mediated Tumor Killing Gene Signature for Prognostic Stratification and Immune Characterization in Breast Cance	International journal of women's health	2026	42893099
746	A Pilot Study on Early-Phase Efficacy and Biomarker Analysis of Cervical Intralymphatic Immunotherapy for Seasonal Rhinconjunctivitis.	Journal of asthma and allergy	2026	42877753
747	Reactive Oxygen Species-Regulating Nanoengineered Hydrogels for Bone Regeneration: A Mechanism-Based Framework of Responsive Delivery, Intrinsic Scavenging, Nanozyme Catalysis, and	International journal of nanomedicine	2026	42866024
748	KLF4 Protects Against Sepsis-Induced Coagulopathy via Inhibition of the AKT/mTOR/STAT3 Signaling Pathway.	Journal of inflammation research	2026	42861314
749	TRPML3 and TRPML1/3 differentially regulate unconventional MIF secretion through TMED10 and secretory autophagy.	Autophagy reports	2026	42857712
750	The Concentration of Macrophage-Derived IL-1 α and IL-12 in the Peritoneal Fluid of Patients With Endometriosis: A Pilot Case-Control Study.	International journal of inflammation	2026	42859589
751	Traditional Chinese Medicine Modulation of Macrophage Polarization in Inflammation Associated with Coronary Heart Disease: Mechanisms and Challenges.	Journal of inflammation research	2026	42859659
752	940-nm Photobiomodulation Enhances ADSC-Mediated Tracheal Cartilage Repair through TRPV1-Associated Calcium Signaling and Mitochondrial Redox Remodeling.	Research (Washington, D.C.)	2026	42840426
753	TUDCA-3S is Associated with Acute Pancreatitis Severity and Pro-Inflammatory Macrophage Activation Involving S100A8/IL-17 Signaling.	Journal of inflammation research	2026	42835811
754	Integrated Single-Cell and Bulk RNA Sequencing Reveals Inflammatory Microenvironment and Glycolysis-Driven Epithelial Proliferation in Benign Prostatic Hyperplasia.	Journal of inflammation research	2026	42830901
755	Levofloxacin-Catalase-PLGA Nanoparticles Potentiate Sonodynamic Therapy to Alleviate BCG-Induced Tuberculous Granulomas via PI3K/Akt/VEGF Pathway Suppression in Rats.	International journal of nanomedicine	2026	42830909
756	Spatial Fibroblast-Macrophage Niches in Gastric Cancer: Mechanisms of Immune Exclusion, Therapeutic Resistance, and Targeted Intervention.	OncoTargets and therapy	2026	42829718

#	标题	期刊	日期	PMID
757	Total Glucosides of Paeony Alleviates Acute Kidney Injury by Inhibiting Dendritic Cells and T-Cell Communication.	Advances in pharmacological and pharmace	2026	42824435
758	JAK Inhibitors for Alopecia Areata: Approved Therapies, Efficacy, and Unanswered Questions.	Drug design, development and therapy	2026	42824469
759	CD73-Overexpressing ADSCs Promote Neurogenic Bladder Repair via A2A-JAK1/STAT3-Mediated Modulation of Inflammation and Macrophage Polarization.	Stem cells international	2026	42818984

本报告由自动化流水线生成：文献来自 PubMed / bioRxiv
官方接口，正文中的每一处数字与结论都经程序比对原文摘要，比对不通过的内容不会出现在这里。本报告不构成医疗建议。