

免疫 | 2026-09 月度文献报告

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本月概览

本月免疫学文献以巨噬细胞生物学为最高频主题，覆盖肿瘤微环境、感染、创伤与代谢损伤等多个场景，但研究普遍停留在机制描述层面，缺少真正改变临床逻辑的突破性发现。真正的新东西主要集中在两处：寡糖佐剂通过顺序激活同一细胞上的两种受体，主动拆开树突细胞激活与抗原摄取的时间节点，让"时序"成为疫苗设计中可工程化的参数；CrPV通过破坏剪接机器而非编码拮抗蛋白，间接重编程STING的转录起始位点，打破了"病毒直接封锁信号通路"的传统认知。神经免疫方向在本月集中产出了数篇高水准原创研究，是少数几个有人在推动范式而非只是填充数据的方向。值得警惕的是，本月可辨认的综述类文章数量不少，覆盖CAR-T毒性管理、LILRB3生物学、自身免疫疾病分类学和败血症心肌病等主题（PMID: 42805064、42805065、42805155、42805443、42806401），综述密集往往意味着该领域处于"证据积累、等待整合"的状态，并非即将出现转折点。

值得细看的研究

寡糖佐剂通过时序分离DC激活与抗原摄取提升交叉呈递效率

这项研究（PMID: 42751513）触及了一个疫苗设计中长期被忽视的时序问题。现有佐剂的逻辑是"越快激活越好"，但它没有处理一个基础矛盾：DC在激活后若立即摄取抗原，内体的抗原加工效率恰恰不高，交叉呈递的条件尚未就绪。

研究者合成了一系列乙酰化程度不同的葡甘露聚糖六糖（acOG6），筛选出低乙酰化候选物acOG6-L。它通过一个两步机制分时控制DC的行为：先经TLR2信号将DC快速推入促炎状态，6小时后再通过CD14介导抗原内化。分子动力学模拟从结构层面解释了乙酰化程度如何影响acOG6-L与TLR2口袋的结合方式。卵清蛋白与acOG6-L偶联后，被导向内体区室，NOX2被招募至此，参与抗原加工微环境的碱化，从而支持交叉呈递。

这项工作的价值在于将"时序"变成了可设计的参数，而不只是一个被动的生物学现象。结构-功能关系通过MD模拟与体外实验双重验证，证据链较完整。不足是体内实验仅使用了OVA这一模型抗原，距离真实病原体抗原的复杂性还有差距；此外，6小时的时间窗在体内能否精确实现，目前没有给出回答。

CrPV劫持剪接体改变STING转录起始位点以逃逸免疫

这是本月机制层面最出人意料的发现（PMID: 42776761）。研究者在昆虫picorna样病毒CrPV中发现了一种非经典的免疫逃逸策略：病毒感染下调多个剪接体基因，扰乱前体mRNA剪接；剪接障碍导致RNA聚合酶II滞留于转录起始凝聚体，全局转录效率下降，并重编程STING的转录起始位点，将功能性抗病毒同工型的表达转向一个无抗病毒活性的变体，从而瘫痪cGMP-STING介导的免疫应答。

这个机制的特殊性在于病毒没有直接编码一个拮抗蛋白去封锁STING，而是通过破坏通用的剪接机器来间接重塑免疫分子的转录输出。作者指出，鉴于剪接机制与STING样通路的进化保守性，这种策略可能在其他物种中同样存在。

局限性是明显的：这是基于昆虫系统（果蝇/CrPV）的发现，哺乳动物STING的转录起始位点是否存在类似的可操作性，目前没有直接证据。但作为机制发现本身，论文的证据链相当完整。若这种"经由剪接体劫持TSS"的逻辑在脊椎动物RNA病毒感染中被证实，其对免疫逃逸研究的影响将远超单个病毒的范畴。

CXCR3阻断减少T细胞脑实质浸润并在tau病变模型中改善认知

这篇Neuron论文（PMID: 42805185）打通了从外周T细胞趋化到tau介导神经退行的信号链。研究显示，海马注射IFN- γ 可急性上调CXCL10并驱动T细胞向脑实质浸润；遗传敲除或抗体阻断CXCR3均可阻止这一过程。在tau病变-神经退行小鼠模型中，慢性全身性抗CXCR3治疗显著减少实质内CD4⁺和CD8⁺ T细胞积累，减轻神经退行，并改善认知相关指标。单细胞RNA测序与流式细胞术进一步揭示，CXCR3阻断降低了脑内活化CD4⁺ T细胞亚群的比例，并提高了CD8⁺ T细胞的终末耗竭比例。

这项工作提供了外周给药即可影响中枢T细胞分布的体内证据，对神经退行领域有直接参考意义。需要指出的是，摘要中对认知改善的描述仅为"aspects of cognition"，未给出具体数值，实际效果的幅度需要阅读原文确认。另一个值得审慎的问题是CXCR3在外周免疫应答中作用广泛，慢性全身阻断的长期免疫副效应在本研究中未作评估。

Follistatin驱动去AR依赖前列腺癌并重塑免疫微环境，FST-Trap概念获验证

这篇PNAS论文（PMID: 42784510）识别了一个在抗雄激素受体（AR）治疗过程中逐步形成的耐药驱动因子：follistatin（FST）。研究发现，在抗AR治疗期间，癌细胞逐渐失去AR与BMP信号之间的正反馈环路，导致FST上调；FST进一步拮抗BMP11依赖的AR维持，上调谱系可塑性调节因子SOX9，赋予细胞对恩扎鲁胺的耐药性，同时促进干细胞样特征与转移能力。FST还通过驱动破骨细胞生成与损害T细胞效应功能来重塑肿瘤微环境。临床数据显示，FST与PSA水平负相关，并在恩扎鲁胺治疗患者中与较差预后相关。研究者开发了FST-Trap，可以中和FST，使耐药肿瘤对AR靶向治疗重新敏感，并增强免疫治疗效果。

FST同时作为生物标志物和治疗靶点的双重角色，是这项研究的最大亮点。临床关联数据的存在使其超越了纯粹的机制研究。FST-Trap的概念验证来自动物模型，进入临床前还需要系统的安全性及药代动力学评估。

新生儿肠道感染通过IEC NOD1信号重塑成年期微生物群-肠道-大脑轴

这篇PNAS论文（PMID: 42776746）建立了从新生儿肠道感染到成年认知损害的完整因果链。在出生后第7天（P7）感染肠致病性大肠杆菌（EPEC）的小鼠中，回肠出现炎症，促炎细胞因子升高，肠肌神经元丢失；而肠上皮细胞特异性NOD1条件性敲除小鼠（Nod1 Δ IEC）中上述变化均不出现。缺陷持续到成年期（P56），表现为肠道通透性增加、持续炎症信号、神经炎症、神经发生改变和识别记忆损害，Nod1 Δ IEC小鼠同样不受影响，确立了IEC NOD1在长期肠脑轴重塑中的核心地位。更有潜在转化价值的是，从益生菌乳酸杆菌菌株中分离的胞壁肽可减轻新生儿EPEC诱导的黏膜炎症和肠神经元丢失，且不改变细菌负荷，提示作用机制可能涉及IEC NOD2。

益生菌衍生胞壁肽通过靶向宿主信号（而非细菌本身）发挥保护作用的思路，是这项工作最值得延伸的部分。主要限制在于：小鼠与人类的神经发育时间轴存在结构性差异，P7小鼠对应人类哪个发育窗口需要谨慎外推；此外，人类婴儿中NOD1依赖的肠神经损伤是否真实发生，尚缺乏直接临床证据。

皮脂通过FABP5依赖的巨噬细胞IL-1 β 驱动面部特应性皮炎的17型炎症程序

这项EBioMedicine研究（PMID: 42805120）为一个长期观察到的临床现象提供了细胞层面的机制解释：面部特应性皮炎（AD）对靶向2型炎症的生物制剂应答不佳。研究者对成年男性AD患者的面部和腭窝损害分别进行单细胞RNA测序（各n=3），发现面部损害相对腭窝损害富集17型相关免疫特征，尽管2型炎症特征仍然保留。在小鼠模型中，局部皮脂通过FABP5依赖的巨噬细胞IL-1 β 生成选择性放大Th17应答，同时降低对Th2阻断的治疗应答。

这项工作对临床诊疗有直接参考意义，"解剖部位决定炎症类型"的框架比此前的分类更接近临床实际。但证据强度受限明显：scRNA-seq仅有3对配对样本，能够支持的只是探索性结论；研究对象仅限成年男性，皮脂分泌存在年龄和性别异质性，结论的普适性有待更大队列验证。

IL-23工程化溶瘤痘苗病毒通过炎症小体驱动的Th17应答对抗胰腺癌

这项JITC研究（PMID: 42805762）使用CRISPR-Cas9在VV Δ TK Δ B2R骨架上分别表达IL-23的p40和p19亚基（VV-DDIL23），以模拟天然异二聚体组装，而非采用单链融合构建体（VV-DDIL23F）。结果显示VV-DDIL23在免疫抑制性胰腺导管腺癌模型中的抗肿瘤效果显著优于VV-DDIL23F。单细胞RNA测序揭示，VV-DDIL23增强了巨噬细胞的抗原加工与呈递，表现为MHC-II表达升高、共刺激分子上调，以及包括I型干扰素和IL-1 β 在内的细胞因子产生增加，这与炎症小体驱动的Th17偏向性CD4⁺T细胞应答相关。

这里值得关注的设计决策是：选择分别表达p40和p19亚基，而非直接融合，结果证明这一步骤对功能至关重要。溶瘤病毒作为局部免疫激活器而非单纯的溶瘤工具，这一思路在本月多项研究中重复出现（另见PMID: 42805764）。主要限制是全部证据来自小鼠胰腺癌模型，高度免疫抑制的人类胰腺癌TME是否具有可操作性，需要临床前-临床衔接数据。

趋势判断

- 巨噬细胞研究进入亚型精细化阶段，但治疗转化落后于机制描述。** 本月多项研究使用scRNA-seq区分了功能不同的巨噬细胞亚群——引流淋巴结中的Folr2⁺与Apoe⁺免疫抑制亚群（PMID: 42806500），以及MHC-II^{int}与MHC-II^{high}肿瘤相关巨噬细胞对CD8⁺T细胞功能的差异影响（PMID: 42806659）。亚型定义的精细程度在持续推进，但现有的治疗干预证据几乎全来自小鼠模型。这个方向存在被高估的风险：精细的亚型定义与可行的靶向干预之间，存在一段还没有被认真填补的转化距离。

- 情境依赖性正在取代单通路模型成为免疫研究的主导框架。** CCL2-CCR2轴在脊髓损伤中表现为瞬时性先天免疫细胞招募，在实验性自身免疫性脑脊髓炎中则是持续性CD4⁺T细胞和单核细胞积累（PMID: 42805351）；LILRB3在急性髓系白血病中经由非经典TRAF2-cFLIP-NF- κ B轴支持白血病发展，在阿尔茨海默病中可能充当APOE4的细胞表面受体，在移植排斥中又是遗传风险因子（PMID: 42805065）；CXCR3阻断的保护效果也高度依赖于具体的神经炎症背景。这种情境依赖性是真的生物学，对转化研究来说意味着从动物模型到特定患者群体的外推需要更严格的背景验证，而非简单的通路移植。

- 溶瘤病毒正在向"免疫激活平台"方向演化，而非依赖裂解活性本身。** 本月两篇JITC论文（PMID: 42805762、PMID: 42805764）强调的核心价值均不是病毒的直接杀伤，而是其将免疫抑制性冷肿瘤重编程为免疫应答热肿瘤的能力。APMV-4在结直肠癌中诱导了从间质型CMS4向免疫高反应型CMS1的转录组转变，据此设计了与低剂量抗CTLA-4的联合方案。这个设计逻辑是成立的，但两篇都是临床前研究

，溶瘤病毒在实体瘤中的递送路径、免疫原性管理等工程化问题仍悬而未决。

这批研究的共同弱点

最普遍的局限是对小鼠模型的高度依赖。多数机制研究的体内证据来自特定近交系小鼠和人工构建的移植瘤，在某些问题上（如肠脑轴、tau病变）这还相对合理，但在高度依赖TME组成的肿瘤免疫研究中，近交系小鼠皮下移植瘤的免疫背景与人类肿瘤在细胞构成和进化压力上相差悬殊，跨物种外推的可靠性是系统性限制。

scRNA-seq驱动的发现存在系统性小样本问题。血脂相关AD的单细胞分析（PMID: 42805120）仅有3对配对样本，发现的亚群能否在更大队列中稳定复现，没有保证。单细胞技术的分辨率和统计功效之间的不匹配，在使用scRNA-seq作为主要探索工具的研究中普遍存在，读者需要将这类研究的结论视为假说生成，而非定论。

相当一部分研究在功能验证上缺少"充分性与必要性"的完整检验。以MOV10研究（PMID: 42808732）为例，描述的机制涉及TRIM24核质转位、三元复合体形成和K63连接的TRAF3泛素化促进IFN信号，每一步骤单独有数据支撑，但这些步骤是否均为必要的（而非可替代的平行路径），摘要层面没有完整回答。这类"能发生"与"必须发生"之间的gap，在机制研究中十分常见，但在评估靶向治疗潜力时是关键问题。

此外，基于非哺乳动物模型的研究（斑马鱼PFD α 免疫毒性、昆虫DDC敲除、牡蛎Mpeg1a）的外推性边界需要明确。以斑马鱼研究（PMID: 42805428、PMID: 42806737）为例，其免疫系统结构与哺乳动物存在显著差异，在机制探索和毒性筛查方面有参考价值，但不应被直接外推到哺乳动物免疫功能的结论。

下个月值得关注

- CXCR3阻断与tau病理的剂量-效应和时窗关系**（PMID: 42805185所在研究组）：当前论文提供了慢性全身阻断的概念验证，但治疗窗口是否与tau积累阶段严格相关、外周给药是否足以维持有效的脑内浓度，这两个问题决定了这条路的实际可行性，值得追踪后续数据。

- FST-Trap在前列腺癌中的安全性数据**：PMID: 42784510的FST-Trap概念验证目前停在动物模型，如果有I期临床前毒理学数据出现，将是判断这条路线能否推进的关键节点。FST在骨骼肌和能量代谢中也有生理功能，全身给药的靶外效应是不得不回答的问题。

- CrPV剪接体劫持机制在哺乳动物RNA病毒中的平行验证**：PMID: 42776761提出的机制（通过扰乱剪接机器重编程STING转录起始位点）理论上可以在人类常见RNA病毒感染系统中做平行验证。若这种机制在哺乳动物中同样存在，意义将被大幅放大；若不存在，则需要解释进化保守性在哪里断裂。

- 面部AD中Th17应答的大队列验证**：PMID: 42805120的3对样本scRNA-seq数据需要独立队列的验证，尤其是需要纳入不同年龄、性别和血脂分泌水平的患者，才能确认面部AD的17型免疫程序是否具有临床普适性，以及FABP5抑制是否能成为一个值得开发的治疗靶点。

附录：2026-09 全部收录文献（710 篇）

#	标题	期刊	日期	PMID
1	Oligosaccharide adjuvant-deferred antigen endocytosis promotes cross-presentation.	Bioactive materials	2027-Feb	42751513
2	Transcriptional intermediary factor 1 gamma-based multitarget gene therapeutic strategy for triple-negative breast cancer.	Signal transduction and targeted therapy	2026-Sep-2	42805968
3	The role of acupuncture in the dendritic cell vaccine against Alzheimer's disease.	Journal of Alzheimer's disease : JAD	2026-Sep-2	42808515
4	MOV10 inhibits SARS-CoV replication by enhancing TRIM24-mediated K63-linked TRAF3 ubiquitination, and this inhibition is antagonized by viral N protein.	Journal of virology	2026-Sep-2	42808732
5	Chicken DDX60 potentiates dsRNA analog-induced IFN- β signaling through synergistic interaction with MDA5.	mBio	2026-Sep-2	42808747
6	Follistatin drives AR-independent prostate cancer through BMP signaling inactivation and microenvironmental remodeling.	Proceedings of the National Academy of S	2026-Sep-2	42784510
7	Neonatal enteric infection disrupts the microbiota-gut-brain axis through pattern recognition receptors and altered neuroimmune signaling.	Proceedings of the National Academy of S	2026-Sep-2	42776746
8	Splicing suppression alters the STING transcription start site to attenuate antiviral innate immunity.	Proceedings of the National Academy of S	2026-Sep-2	42776761
9	Clinical management strategies for cytokine release syndrome and their impact on CAR T-cell efficacy in lymphoma.	International immunopharmacology	2026-Sep-2	42805064
10	From orphan receptor to versatile regulator: Redefining LILRB3 as a context-dependent immune checkpoint and therapeutic target.	International immunopharmacology	2026-Sep-2	42805065
11	Sebum-associated type 17 inflammation in atopic dermatitis: a single-cell and in vivo study of body-site immune heterogeneity.	EBioMedicine	2026-Sep-2	42805120
12	Autoimmune diseases: distinct disorders or diverse manifestations of a common pathogenic process?	Current opinion in immunology	2026-Sep-2	42805155
13	Peripheral CXCR3 blockade mitigates T cell infiltration and neurodegeneration in a mouse model of tauopathy.	Neuron	2026-Sep-2	42805185
14	miRNA profiling identifies biomarkers and regulatory networks involving TGF- β /T-cell pathways in FPIES.	The Journal of allergy and clinical immu	2026-Sep-2	42805314
15	Context-dependent CCL2-CCR2 signaling drives distinct immune infiltration programs in traumatic and autoimmune CNS disorders.	Neurobiology of disease	2026-Sep-2	42805351
16	Biophysical and molecular mechanisms of lysosomal mechanoresilience: Membrane tension, TMEM63A, and cellular injury.	Progress in biophysics and molecular bio	2026-Sep-2	42805407
17	PFD α induces developmental and immune toxicity in zebrafish through ROS-mediated inflammation-apoptosis signaling.	Fish & shellfish immunology	2026-Sep-2	42805428
18	CgMpeg1a from oyster Crassostrea gigas destroys and eliminates Vibrio splendidus.	Fish & shellfish immunology	2026-Sep-2	42805429
19	Macrophage-mesenchymal crosstalk in recurrent glioblastoma: a perspective for therapeutic strategies.	Biochimica et biophysica acta. Reviews o	2026-Sep-2	42805443
20	Evolution of Macrophage Function in Sepsis-Induced Cardiomyopathy: Cellular Networks from Immune Imbalance to Myocardial Injury.	Pharmacological research	2026-Sep-2	42805519

#	标题	期刊	日期	PMID
21	Ginsenoside Rd-functionalized hydrogel for immune modulation and enhanced diabetic wound healing.	Journal of controlled release : official	2026-Sep-2	42805566
22	METTL1-Mediated m7G Modification of GINS2 mRNA Activates STAT3 to Drive Esophageal Squamous Cell Carcinoma Progression.	Journal of gastroenterology and hepatolo	2026-Sep-2	42805596
23	IL-23-engineered oncolytic vaccinia virus enhances pancreatic cancer control through inflammasome-driven Th17-skewed CD4+ T-cell responses.	Journal for immunotherapy of cancer	2026-Sep-2	42805762
24	In situ APMV-4 vaccination primes systemic response to subtherapeutic dosing of aCTLA-4 in colorectal carcinoma.	Journal for immunotherapy of cancer	2026-Sep-2	42805764
25	Next-generation CAR-T therapy for malignant brain tumors: latest updates from the 2026 AACR Annual Meeting.	Experimental hematology & oncology	2026-Sep-2	42806401
26	Targeting Macrophage-Mediated Lymphatic Immunosuppression to Prevent Tumor Recurrence After Microwave Ablation.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-2	42806500
27	SLAMF6 Enhances the Efficacy of Anti-PD-L1 Immunotherapy in CRC Through the STAT1/CXCL10 Signaling Axis.	Cancer science	2026-Sep-2	42806645
28	Low-dose antiangiogenic multikinase inhibitor AL3810 synergizes with PD-1 blockade by reducing CSF1-driven MHC-IIint tumour-associated macrophages to optimize TIM-3+ CD8+ T-cell ef	British journal of pharmacology	2026-Sep-2	42806659
29	Targeting DOPA decarboxylase disrupts immune-metabolic coordination and renders Spodoptera frugiperda susceptible to bacterial infection.	Insect science	2026-Sep-2	42806737
30	Parameterization of the CHARMM force field for divalent cations (Ca2+/Be2+) binding to anionic lipids with isothermal titration calorimetry.	The Journal of chemical physics	2026-Sep-2	42775765
31	INHBB Promotes Colorectal Cancer Progression by Inducing CD8+ T Cell Exhaustion via the ACVR2B-SMAD Signaling Axis.	Cancer science	2026-Sep-2	42803598
32	A Magnesium-Phenolic Coordinated Hydrogel Orchestrates Antiapoptotic, Immunomodulatory, and Angiogenic Niches for Aging Wound Regeneration.	ACS applied materials & interfaces	2026-Sep-2	42803697
33	ULK1-dependent autophagy initiation promotes MHC-I degradation and immune evasion in HPV-positive head and neck cancer.	Cancer immunology research	2026-Sep-2	42803943
34	Subclinical inflammation and early pathogenesis of rheumatic diseases: mechanistic insights relevant to primary care.	Irish journal of medical science	2026-Sep-2	42804139
35	Targeting ClpP Rewires the Metabolic-Immune Axis in Acute Myeloid Leukemia.	Cancer research	2026-Sep-2	42804164
36	Extracellular vesicle signaling in regulatory T cell biology: From immune suppression to microenvironmental crosstalk.	International reviews of immunology	2026-Sep-2	42804251
37	The Polycystic Kidney Disease Cyst Transcriptome Defined by Integrating Spatial, Single Nuclear, and Bulk Transcriptomics.	Kidney360	2026-Sep-2	42804341
38	DEFB1 + Cancer Cell-IFI30+ Macrophage Crosstalk Drives Immunosuppressive Niche in Intrahepatic Cholangiocarcinoma.	Genomics, proteomics & bioinformatic	2026-Sep-2	42804717
39	YAP and long non-coding RNAs in immune cells: context-dependent regulation and a hypothesis-generating synthesis of their potential crosstalk.	International immunopharmacology	2026-Sep-2	42801841

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40	The cGAS-STING signaling in hepatocellular carcinoma: A spatiotemporally gated immune switch linking pro-tumorigenic immune evasion and anti-tumor therapeutic response.	Biochimica et biophysica acta. Reviews o	2026-Sep-2	42801953
41	LXN exerts antiviral effects by inhibiting the binding of HMGB1 to the viral genome.	Antiviral research	2026-Sep-2	42801960
42	Advances in Cytosolic dsRNA Sensing of Viral Infections.	Immunology and cell biology	2026-Sep-2	42802076
43	Clinical and Therapeutic Relevance of B7-H3 in Sarcomas: Molecular Insights from a Systematic Review.	Journal of drug targeting	2026-Sep-2	42801277
44	Empowering cancer therapy: the promise of natural adjuvants.	Molecular biology reports	2026-Sep-2	42801348
45	T-Cell Remodeling in Renal Fibrosis: From Acute Injury to Chronic Kidney Disease.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-2	42801536
46	Sarbecoviruses Suppress Innate Immunity by Recruiting PPM1A to Modulate STAT2 and ORF9b Phosphorylation.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-2	42801537
47	Engineered Peptide Self-Assembled Nanofibers for Enhanced STING Activation: A Promising Nanodelivery Platform for Immunotherapy of Pediatric Solid Tumors.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-2	42801624
48	A Multi-Targeting Chimeric Antigen Receptor-T Cell Platform to Overcome Antigen Heterogeneity in the Treatment of Non-Small Cell Lung Cancer.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-2	42801642
49	GNAS-AS1 Promotes M2-Like Macrophage Polarization, Contributing to Cervical Cancer Growth, Angiogenesis, and Metastasis Through the miR-518c-5p/FBXO38 Axis and MAPK Signaling.	Molecular carcinogenesis	2026-Sep-2	42801694
50	Assembled Hyaluronic Acid Therapeutics for Targeting M1 Macrophages and Regulating Immune Homeostasis for Ulcerative Colitis Treatment.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-2	42801707
51	Magnetically Guided Macrophage Immunobots Coordinate Iron-Metabolic Cascades and Immunogenic Ferroptosis for Tumor Immunotherapy.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-2	42801711
52	Androgen Receptor-Immune Crosstalk in Metastatic Castration-Resistant Prostate Cancer: From Context-Dependent Remodeling to Biomarker-Guided Translation.	The Prostate	2026-Sep-2	42801730
53	Integrated bioinformatics analysis of m6A/m7G/m5C/m1A RNA methylation-related genes in ulcerative colitis.	Biochemical and biophysical research com	2026-Sep-2	42805014
54	Immune inflammatory targets and anti-inflammatory therapy in dry eye disease.	International ophthalmology	2026-Sep-2	42799933
55	Nucleotide metabolic reprogramming: a "double-edged sword" in obesity-related inflammation-from metabolic adaptation to pathological imbalance.	Journal of physiology and biochemistry	2026-Sep-2	42799975
56	Epidermal HLA-DQB1 exerts negative regulation of mast cell activation through the TSLP-driven SPP1-expressing macrophage axis.	The Journal of allergy and clinical immu	2026-Sep-2	42800483
57	Complement-mediated synaptic loss in inflammatory depression: mechanisms and therapeutic prospects.	Brain, behavior, and immunity	2026-Sep-2	42800570
58	ATF3: Friend or foe in cellular stress and repair? A context-dependent stress rheostat framework.	European journal of cell biology	2026-Sep-2	42805141

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59	Targeting biglycan-TLR2/TLR4 interaction with synthetic peptides mitigates inflammation and ameliorates renal function in ischemia-reperfusion injury.	Cellular & molecular biology letters	2026-Sep-2	42806299
60	Ainsliaea fragrans Champ. alleviates endometritis by modulating the STING-TBK1-IRF3 and NLRP3 inflammasome signaling pathway.	Journal of ethnopharmacology	2026-Sep-2	42790556
61	Down-regulation of RhoA inhibits YAP by activating Hippo signaling to promote macrophage M1 polarization and enhance its phagocytosis, thereby inhibiting AML progression in preclin	Molecular and cellular probes	2026-Sep-2	42790655
62	Dihydroartemisinin ameliorates radiation lung injury by inhibiting SRC/STAT3 activation and promoting CD204 expression to impede macrophage oxidative stress and M1 polarization.	Biochimica et biophysica acta. Molecular	2026-Sep-2	42790710
63	Radiation-Induced Cell-Death States in Cancer: Toward Biomarker-Guided Radioimmunotherapy.	Cancer letters	2026-Sep-2	42790863
64	Magnesium Enhances Immune Clearance of P. gingivalis in Macrophages by Suppressing MCU-Mediated Mitochondrial Calcium Overload.	Cell proliferation	2026-Sep-2	42790879
65	The cGAS-STING pathway: mechanistic basis, dual biological functions and translational therapeutic advances.	Apoptosis : an international journal on	2026-Sep-2	42791400
66	[Mechanism of electroacupuncture inhibiting psoriasis recurrence by regulating CD8+ memory T cells based on the TRAF2/NF- κ B signaling pathway].	Zhen ci yan jiu = Acupuncture research	2026-Sep-2	42779397
67	Proteomic Cysteine Profiling Links DMI and DMF to Antiviral Activity.	Proteomics	2026-Sep-2	42786939
68	PTPN22 mediates delayed negative feedback of T cell activation by forming an inhibitory signaling complex.	International immunology	2026-Sep-2	42786963
69	Reducing Nuclear Rupture Rescues Gene Expression and Survival in LMNA-DCM.	Circulation research	2026-Sep-2	42788248
70	Synthetic FLS2 receptor oligomer boosts plant innate immunity.	Science advances	2026-Sep-2	42789702
71	Mechanism of GPR84 allosteric modulation at a helix 8-proximate site.	Science advances	2026-Sep-2	42777063
72	PD-L1: Friend or Foe? The Dark Side of Photoprotection.	Cancer research	2026-Sep-2	42781952
73	Candida auris MNN1 contributes to human neutrophil evasion via mechanisms independent of β -glucan unmasking.	mBio	2026-Sep-2	42782101
74	The role of interferon-stimulated long non-coding RNA PKR-IT1 in the regulation of Zika virus and dengue virus replication and antiviral response.	Microbiology spectrum	2026-Sep-2	42782124
75	Phase 1, open-label, multicenter study of soveplenib (HMPL-523) in patients with relapsed or refractory lymphoma.	Blood advances	2026-Sep-2	42782312
76	B-cell targeting strategies for the treatment of multiple sclerosis: from non-cellular therapies to CAR-engineered cell therapies.	Neurological sciences : official journal	2026-Sep-2	42782403
77	Antimicrobial Peptides Targeting Salmonella enterica serovar Typhi: Mechanism of Action, Structural Insights, and Translational Challenges - A Review.	Probiotics and antimicrobial proteins	2026-Sep-2	42782478
78	Long-term reprogramming of classical monocytes with altered ontogeny mediates enhanced lung injury in sepsis survivors.	JCI insight	2026-Sep-2	42784276

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79	Matrix viscoelasticity amplifies pro-fibrotic crosstalk between cardiac fibroblasts and macrophages.	Cell reports	2026-Sep-2	42784458
80	Δ 9-Tetrahydrocannabinol exposure shifts eosinophil and macrophage transcriptional programs towards an anti-inflammatory phenotype in helminth infection.	Journal of leukocyte biology	2026-Sep-2	42784722
81	IFN γ -dependent tumor-cell MHC-II is restrained by MAPK signaling and associated with immunotherapy responsiveness in pancreatic ductal adenocarcinoma.	Cancer immunology research	2026-Sep-2	42784801
82	Circulating Proteomic Signatures Associated with Cardiac Allograft Vasculopathy in Adult and Pediatric Heart Transplant Recipients: An Exploratory Study.	The Journal of heart and lung transplant	2026-Sep-2	42785488
83	Geraniin alleviates pathological visceral adipose tissue expansion through modulation of β -adrenergic receptor-associated cAMP-LKB1- AMPK signaling in high-fat diet-fed mice.	Journal of ethnopharmacology	2026-Sep-2	42785535
84	Mammary gland-specific deletion of MTA1 causes abrupt involution through activation of STAT3 signaling in lactating mice.	Life sciences	2026-Sep-2	42785547
85	5-HT7 receptor as a potential therapeutic target in irritable bowel syndrome: Current insights and future perspectives.	Drug discovery today	2026-Sep-2	42785664
86	CD43 is a checkpoint against KLRG-1+CD49dhi effector CD8+ T cell formation.	Transplant immunology	2026-Sep-2	42785691
87	Identification of Active Compounds of Centipeda minima for Potentiating Tumor Immunotherapy in Non-Small Cell Lung Cancer via FANCD2-cGAS/STING/IFN-I Signaling Axis.	Phytotherapy research : PTR	2026-Sep-2	42785749
88	Single-cell multi-omics show disruption of blood and airway T cells in pulmonary long COVID.	The European respiratory journal	2026-Sep-2	42785801
89	Increased extracellular fluid viscosity drives M2-like macrophage polarization to promote breast cancer progression and immunotherapy resistance.	Cell reports	2026-Sep-2	42789388
90	Pathogenic B-T Cell Axis Driven by BAFF Induces Endothelial Apoptosis in SLE-PAH.	Circulation research	2026-Sep-2	42779507
91	Neural Mechanisms of Heart-Lung Crosstalk in Chronic Heart Failure.	Circulation research	2026-Sep-2	42779536
92	A triple-immunomodulatory quercetin nanoplatform to reinforce T-cell function and remodel tumor microenvironment.	Biomaterials advances	2026-Sep-2	42800168
93	When folding CARs wins the game: molecular snapshots of lipopolysaccharide sensing by the non-canonical inflammasome.	Biochemical Society transactions	2026-Sep-2	42719947
94	Tangeretin ameliorates hypertriglyceridemic acute pancreatitis by restoring Th17/Treg balance via ROS-mediated STAT3 signaling.	Immunobiology	2026-Sep-2	42784992
95	Chloroxylenol induces hematopoietic bias and immune dysregulation in zebrafish associated with MAPK signaling disruption.	Chemico-biological interactions	2026-Sep-2	42777797
96	Selenomethionine regulates macrophage polarization through mitochondrial dynamics via NF- κ B signaling to attenuate sepsis-induced cardiomyopathy.	European journal of pharmacology	2026-Sep-2	42777799
97	EBV-reactive KIR+ CX3CR1+ CD8+ T cells mediate liver transplantation tolerance.	Journal of hepatology	2026-Sep-2	42777954

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98	Ganoderma lucidum polysaccharides and their immunomodulatory effects via the Dectin-1/NF- κ B signaling axis.	International journal of biological macr	2026-Sep-2	42777993
99	The novel role of MEG3 in Glaesserella parasuis-infected porcine alveolar macrophages: Modulating apoptosis via MDM2-mediated ubiquitination and degradation of ILF3 to suppress CFL	International journal of biological macr	2026-Sep-2	42777995
100	Recent Advances and Future Challenges of Bispecific Antibodies in Lung Cancer.	Critical reviews in oncology/hematology	2026-Sep-2	42778079
101	Deletion of protein FSTL3 unravels the role of activin signaling in regulating macrophage L-arginine metabolism and kidney injury.	Kidney international	2026-Sep-2	42778149
102	SPP1+ macrophage-induced CD74+ tumor cells promote adrenocortical carcinoma tumor thrombus via the SPP1/CD44/JAK/STAT signaling.	Journal for immunotherapy of cancer	2026-Sep-2	42778291
103	Canonical Notch2 signaling regulates development and maintenance of iron-recycling macrophages and iron homeostasis.	Nature communications	2026-Sep-2	42778571
104	CircBRWD1 Drives Atherosclerotic Plaque Progression by Modulating Macrophage Inflammatory Responses Through miR-141-5p/HMGB1/NF- κ B Signaling.	Molecular neurobiology	2026-Sep-2	42778691
105	Persistence of mucosal CAR-T cells and inflammatory remodeling in enterocolitis associated with BCMA CAR-T cell therapy.	Nature medicine	2026-Sep-2	42778764
106	Immune-instructive baicalin-loaded nanofibrous membranes regulate macrophage polarization via PI3K/AKT/GSK3 β signaling for enhanced cutaneous wound healing.	Journal of materials chemistry. B	2026-Sep-2	42773972
107	Bionic 'Trojan Horse' nanoparticles based on Fe-Cu bimetallic MOFs enhance anti-tumor immunotherapy through multimodal synergistic effects.	Journal of materials chemistry. B	2026-Sep-2	42775401
108	The dual immune landscape of homologous recombination-deficient tumors: mechanisms and therapeutic implications.	Cancer metastasis reviews	2026-Sep-2	42776262
109	Targeting LAMP2 synergizes with gemcitabine to inhibit bladder cancer progression via modulating STING degradation and regulating macrophage phenotypes.	Apoptosis : an international journal on	2026-Sep-2	42776282
110	Crosstalk between neurotransmitters and NLRP3 inflammasome pathway: A narrative review.	Molecular biology reports	2026-Sep-2	42776397
111	Extracellular Vesicles from Lactic Acid Bacteria: Emerging Postbiotic Effectors in Host-Microbe Crosstalk.	Probiotics and antimicrobial proteins	2026-Sep-2	42776412
112	Truncating RELA variants drive autoinflammation and autoimmunity by impairing the negative feedback control of NF- κ B.	JCI insight	2026-Sep-2	42579371
113	Tracheal tuft cell-released leukotrienes promote antibacterial immune responses.	Cell reports	2026-Sep-2	42632019
114	Machine learning identification of biomarkers for vascular endothelial damage in obstructive sleep apnea.	Clinics (Sao Paulo, Brazil)	2026-Sep-2	42784876
115	Integrated multi-omics identifies lineage-dependent myeloid cells recruitment and the APP-CD74 axis as an immunoregulatory target in pediatric high-grade glioma.	Acta neuropathologica	2026-Sep-2	42771061

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116	The role of the adipose-derived Stromal Vascular Fraction (SVF) secretome as an immunomodulator in the treatment of chronic inflammatory diseases through NF- κ B and macrophage repro	Molecular biology reports	2026-Sep-2	42771093
117	Identification and gene expression profiling of toll genes in the potato psyllid (<i>Bactericera cockerelli</i>) in response to 'Candidatus liberibacter solanacearum'.	Molecular biology reports	2026-Sep-2	42771278
118	BRD proteins in human retroviral infection: emerging evidence from HIV-1 and future perspectives for HTLV-1.	Molecular biology reports	2026-Sep-2	42771288
119	Compound Kushen Injection Alleviates Experimental Colitis in Mice by Regulating Macrophage Polarization through TLR4/NF- κ B Signaling.	Chinese journal of integrative medicine	2026-Sep-2	42771292
120	Transposon-insertion sequencing reveals NlpD as a vulnerability in intracellular survival and pathogenesis of Salmonella 4,[5],12:i:	PLoS pathogens	2026-Sep-2	42771690
121	How some brain macrophages go with the flow.	Science signaling	2026-Sep-2	42771711
122	PAG supports T cell immune synapse function by binding to actin.	Science signaling	2026-Sep-2	42771712
123	ACOX1 downregulation contributes to macrophage M1 polarization and neutrophilic airway inflammation in asthma.	International immunopharmacology	2026-Sep-2	42772039
124	Nicotinamide N-methyltransferase in tumor stroma-immune crosstalk: Metabolic-epigenetic mechanisms and translational opportunities.	International immunopharmacology	2026-Sep-2	42772041
125	Sensory neuronal mTORC1 kinase signaling establishes neuroimmune memory that initiates allergic immunity.	Immunity	2026-Sep-2	42772277
126	Switching of transcriptional control from interferon regulatory factor 2 to interferon regulatory factor 1 drives innate immune cell activation.	Cell	2026-Sep-2	42772280
127	Herb-Induced Liver Injury: An Immunological Perspective.	Toxicology	2026-Sep-2	42772543
128	Single Tire-Derived Pollutant (6-PPD) Exposure Triggers Lung Injury and Mitochondrial Disruption in Mice.	Toxicology	2026-Sep-2	42772544
129	Immunosenescence in Uveitis: From Mechanistic Insights to Therapeutic Implications.	Ageing research reviews	2026-Sep-2	42772576
130	Loquat leaves alleviate OVA-induced allergic airway inflammation by suppressing TNF- α -associated M1 macrophage polarization and MMP12 expression.	Journal of ethnopharmacology	2026-Sep-2	42772612
131	Diosgenin suppresses ALOX5 expression through Histone acetyltransferase KAT2A-mediated H3K27ac modification to attenuate macrophage ferroptosis and foam cell formation in atheroscl	The international journal of biochemistr	2026-Sep-2	42772625
132	Vascular Dysfunction-Driven Lipid Mislocalization and FFA-Linked Injury in Solid Tumors: A Mechanistic Review.	Critical reviews in oncology/hematology	2026-Sep-2	42772654
133	Differential peripheral immune dynamics underlie therapeutic response to chemotherapy and chemoimmunotherapy in triple-negative breast cancer.	ImmunoHorizons	2026-Sep-2	42772938
134	Farrerol alleviates hepatic ischemia-reperfusion injury by regulating the CD14/MyD88/NF- κ B signaling pathway.	International immunopharmacology	2026-Sep-2	42772969
135	VMP1 restricts STING trafficking and activation through controlling CDIPT recruitment to ER membrane curvature.	Cell death and differentiation	2026-Sep-2	42773156

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136	POLE2 of tumor cells promotes OPN secretion based on PCLAF to drive M2 macrophage polarization in clear cell renal cell carcinoma.	Cancer gene therapy	2026-Sep-2	42773249
137	Metastasis enables immunogenicity through migrasome-mediated antigen release.	Nature immunology	2026-Sep-2	42773266
138	Dissociated response to immune checkpoint inhibition in head and neck squamous cell carcinoma is common and exhibits distinct clinical outcomes.	Cancer research communications	2026-Sep-2	42773539
139	Betulinic acid alleviates ankylosing spondylitis and remodels Th17/Treg-associated immune landscapes revealed by single-cell transcriptomics.	Naunyn-Schmiedeberg's archives of pharma	2026-Sep-2	42768199
140	Unmasking the Influence of Viral Micro-RNAs on Host Immunity.	Immunology and cell biology	2026-Sep-2	42770266
141	Blockade of the PD-1 / PD-L1 Axis Exacerbates Chronic Nocardia Brasiliensis Infection by Disrupting Bacterial Immune Containment in BALB/c Mice.	Immunological investigations	2026-Sep-2	42770687
142	Inducible IL-12 or IL-18 secreting CAR T cells targeting the glyco-antigen CD176 exhibit potent activity against non-small cell lung cancer in preclinical models.	Cancer immunology research	2026-Sep-2	42770707
143	NAD ⁺ depletion by catalytic TIR domains triggers a distinct form of regulated necrosis in mammalian cells.	Proceedings of the National Academy of S	2026-Sep-2	42752230
144	ACTA2-directed actin filaments license STING trafficking and activation for antiviral immunity and autoimmune pathogenesis.	Proceedings of the National Academy of S	2026-Sep-2	42743285
145	Modulation of Antitumor Immunity and the Tumor Microenvironment by Scutellaria barbata D. Don: A Scoping Review and Network Pharmacology Analysis.	International journal of molecular scien	2026-Sep-2	42794845
146	Infrapatellar fat pad exosomes promote osteoarthritis by reprogramming macrophage polarization.	Biomaterials	2026-Sep-2	42785223
147	Monocyte inflammation and adaptive immune dysfunction in severe Klebsiella pneumoniae pneumonia.	iMeta	2026-Sep-2	42774554
148	Targeting immune-hemodynamic coupling in early diabetic kidney disease: Mechanisms, biomarkers, and therapeutic opportunities.	Biomedicine & pharmacotherapy = Biom	2026-Sep-2	42766925
149	Molecular and Functional characterization of a novel C-type lectin during WSSV infection in Eriocheir sinensis.	Journal of invertebrate pathology	2026-Sep-2	42767331
150	Dendrimer-mediated co-delivery of curcumin and miR-146a attenuates dry eye disease.	Journal of controlled release : official	2026-Sep-2	42767380
151	Z526 alleviates cancer cachexia-induced muscle and adipose inflammatory injury in vitro via suppression of macrophage ROS-associated MAPK/NF- κ B activation.	Biochimica et biophysica acta. Molecular	2026-Sep-2	42767430
152	Lipid Signaling and Foam Cell Formation in Atherosclerosis and Spinal Cord Injury.	Journal of lipid research	2026-Sep-2	42767505
153	Metabolic reprogramming of decidual macrophages impairs maternal-fetal interface homeostasis and contributes to recurrent spontaneous abortion.	Biochemical pharmacology	2026-Sep-2	42767572
154	Macrophage-directed therapeutic strategies in cancer.	Trends in cancer	2026-Sep-2	42767905
155	Treatment approaches to macrophage activation syndrome in real life and priorities for future research: results from the international METAPHOR project.	Arthritis & rheumatology (Hoboken, N	2026-Sep-2	42765464

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156	Modulating innate immune responses to curli fibers through protein engineering.	Infection and immunity	2026-Sep-2	42765877
157	Personalized neoantigen mRNA vaccines for pancreatic cancer: the role of lipid nanoparticle delivery systems.	Daru : journal of Faculty of Pharmacy, T	2026-Sep-2	42766065
158	Short-chain fatty acids promote post-myocardial infarction cardiac repair via FFAR2-dependent suppression of osteoclast-like macrophage differentiation.	Basic research in cardiology	2026-Sep-2	42766108
159	Vagus nerve stimulation in rheumatic diseases: linking autonomic nervous system regulation, inflammation, and clinical outcomes.	Rheumatology international	2026-Sep-2	42766176
160	Subtype-Agnostic Biomarkers of Immunotherapy Response in Lung Cancer.	Cancer immunology research	2026-Sep-2	42766734
161	Integrative Transcriptomics Reveals a Mitochondria-Related Gene Signature in Periodontitis.	Biomolecules	2026-Sep-2	42793201
162	RMF-Activated Superparamagnetic Iron Oxide Nanoparticles Trigger Macrophage-Dependent Protection Against Babesia microti Infection.	International journal of molecular scien	2026-Sep-2	42794809
163	Single-cell transcriptomics and multi-omics integration identify necroptosis-driven core targets and tubular-immune crosstalk in chronic kidney disease.	Computational biology and chemistry	2026-Sep-2	42777444
164	Functional mechanism of SptP from Salmonella Typhimurium in modulating environmental adaptability, intracellular proliferation and intestinal inflammation in Wenchang chickens.	Veterinary microbiology	2026-Sep-2	42777575
165	Tissue-Resident and Effector-Memory Lymphocyte Recruitment to the Ocular Mucosa Requires CCL28/CCR10 Signaling During Recurrent HSV-1 Infection.	bioRxiv : the preprint server for biolog	2026-Sep-2	42779628
166	Impaired regulatory T cell mediated immune tolerance promotes neurodegeneration in glaucoma.	medRxiv : the preprint server for health	2026-Sep-2	42780315
167	Lung-Predominant Hyperinflammatory Syndrome in Therapy-Related Myelodysplastic Syndrome Responsive to Interleukin-1 Blockade.	Hematology reports	2026-Sep-2	42776834
168	Leukemic Stem Cell-Targeted Liposomal Nanoimmunotherapy Reverses Immune Evasion and Inhibits Fusion Oncoprotein-Driven Acute Myeloid Leukemia by Silencing B-Cell Lymphoma 2.	Acta biomaterialia	2026-Sep-2	42764087
169	Microplastics and Nanoplastics: Potential Implications for Testicular Inflammation in Male Mammals.	Reproductive toxicology (Elmsford, N.Y.)	2026-Sep-2	42764121
170	Neutrophil-Hitchhiking and Microenvironment-Responsive Cascade Nanoparticles for STING Inhibition and Spinal Cord Injury Repair.	Advanced healthcare materials	2026-Sep-2	42764408
171	Immune-pressure redistribution in resistance to PD-1/PD-L1 blockade: mechanisms, biomarkers, and therapeutic design.	Molecular cancer	2026-Sep-2	42763389
172	Curcumin Attenuates Escherichia coli-Induced Enteritis and Macrophage Inflammation in Broilers.	Animals : an open access journal from MD	2026-Sep-1	42791798
173	CAR-T Cell Therapy and Gut Microbiota Modulation in Multiple Sclerosis: Emerging Therapeutic Strategies and Current Limitations.	Current issues in molecular biology	2026-Sep-1	42793314
174	Adipocyte Ferroptosis in Obesity: Molecular Mechanisms and Nutraceutical Perspectives.	International journal of molecular scien	2026-Sep-1	42794784

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175	DAMPs and PAMPs in the Perioperative Period: Danger Signaling, Immune Dysfunction, and Oncologic Implications.	Medicina (Kaunas, Lithuania)	2026-Sep-1	42796413
176	Statin-Ezetimibe Attenuates Hepatic Inflammation and Fibrosis in a Diet- and Toxin-Induced Steatohepatitis Model, Associated with Macrophage NF- κ B Inhibition.	Cells	2026-Sep-1	42782800
177	HIGH DOSE GAMMAHERPESVIRUS INFECTION IN MACROPHAGES RESULTS IN INFLAMMATORY MULTIMODAL CELL DEATH.	bioRxiv : the preprint server for biolog	2026-Sep-1	42779793
178	Virtual screening of Kv1.3 inhibitors and investigation of their molecular mechanisms in alleviating alcoholic liver injury in mice.	European journal of medicinal chemistry	2026-Sep-1	42763961
179	Mitochondrial Phosphatase PGAM5 Negatively Regulates the Induction of Anti-inflammatory Macrophages.	Journal of leukocyte biology	2026-Sep-1	42762130
180	Identification of immune cell mitochondrial dysfunction characteristics and clinical predictive biomarkers in sepsis via multi-cohort machine learning and single-cell RNA sequencin	Inflammation research : official journal	2026-Sep-1	42762293
181	Targeting USP47 reprograms macrophage polarization to ameliorate septic peritonitis and promote cutaneous wound healing.	Inflammation research : official journal	2026-Sep-1	42762317
182	The IL-4/IL-4R/STAT6 signaling axis regulates macrophage efferocytosis in osteoarthritis.	Inflammation research : official journal	2026-Sep-1	42762332
183	Gastrodin enhances the spleen immune function in erythroleukemia by regulating T-cell receptor signaling pathway.	Medical oncology (Northwood, London, Eng	2026-Sep-1	42762378
184	Integrative multi-omics analysis identifies LIPA as a prognostic hub and ferroptosis regulator in lung adenocarcinoma.	Molecular and cellular biochemistry	2026-Sep-1	42762413
185	A systemic neuroendocrine immune axis in breast cancer revealed by MMD regularized cross tissue latent alignment across four independent cohorts.	Computers in biology and medicine	2026-Sep-1	42762681
186	PD-L1 antibody-induced cardiac dysfunction is regulated by CCR5-positive macrophages.	European journal of pharmacology	2026-Sep-1	42762914
187	Trillin alleviates rheumatoid arthritis by inhibiting TXNIP-mediated mitochondrial damage and NLRP3-dependent pyroptosis.	Biochemical pharmacology	2026-Sep-1	42762930
188	Metabolic Dysfunction-Associated Steatohepatitis: Is there evidence for fractured CD4+ T cell tolerance in the immunopathogenesis of MASH?	Cellular and molecular gastroenterology	2026-Sep-1	42762950
189	T-Cell Exhaustion and Senescence in Cancer: Regulatory Circuits and Therapeutic State Engineering.	Cancer letters	2026-Sep-1	42762964
190	Tangeretin alleviates psoriasis through inhibition of the IL-23/IL-23R signaling pathway.	International immunopharmacology	2026-Sep-1	42763245
191	Elevated ISG15 reinforces RIG-I/MDA5-linked macrophage-microglia crosstalk during blood-brain barrier disruption in neuromyelitis optica spectrum disorder.	International immunopharmacology	2026-Sep-1	42763248
192	TSPAN32 enhances CAR-T cell potency by assembling IL-2 receptor complex and amplifying its intracellular signal transduction.	British journal of cancer	2026-Sep-1	42763309
193	An mPFC-DMV cortical-autonomic-immune axis governs stress-induced immune dysregulation in sepsis.	Molecular psychiatry	2026-Sep-1	42763340

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194	From signals to phenotype: multifactorial drivers of tumor-associated macrophage polarization in oral cavity squamous cell carcinoma: a narrative review.	European archives of oto-rhino-laryngology	2026-Sep-1	42760366
195	Injectable ECM-mimetic dynamic Schiff-base hydrogels deliver 5-aminosalicylic acid for immunomodulatory and alleviation of ferroptosis-associated injury of intervertebral disc degeneration.	Biomaterials advances	2026-Sep-1	42777683
196	Spatiotemporal control of STING activation and saRNA delivery decouples humoral and cellular immunity.	bioRxiv : the preprint server for biology	2026-Sep-1	42779658
197	Monocyte-Mimetic Nanoparticle Delivery of Verteporfin Promotes Plaque-Stabilizing Remodeling in Atherosclerosis.	bioRxiv : the preprint server for biology	2026-Sep-1	42779731
198	Topical sulforaphane exacerbates disease and promotes the accumulation of inflammatory CD8+ T cells in a dermatitis model.	bioRxiv : the preprint server for biology	2026-Sep-1	42779809
199	Multi-organ photoacoustic imaging of Cathepsin B dysregulation reveals hepatic-to-aortic progression in atherosclerosis.	Spectrochimica acta. Part A, Molecular spectroscopy	2026-Sep-1	42772090
200	Type I IFN dynamics orchestrate protective ICAM1+ neutrophil heterogeneity as an early checkpoint for survival in lethal viral infection.	iScience	2026-Sep-1	42774653
201	BPM Exposure Induces Pulmonary Dysfunction in Adult Mice and Adverse Intergenerational Pulmonary Effects in Offspring.	Environment & health (Washington, D.C.)	2026-Sep-1	42775160
202	Role of Cellular-Ferroptosis-Mediated HMGB1 Nuclear Translocation in Indium-Tin-Oxide-Nanoparticle-Induced Inflammatory Lung Injury.	Environment & health (Washington, D.C.)	2026-Sep-1	42775173
203	Sult2b1 Modulates NLRP3/BCL-2 Signaling and Pro-Inflammatory Microglial/Macrophage Polarization After Traumatic Brain Injury.	Current medicinal chemistry	2026-Sep-1	42770449
204	Pirfenidone exerts anti-inflammatory effects by inhibiting CXCL6 to alleviate idiopathic pulmonary fibrosis.	International immunopharmacology	2026-Sep-1	42759355
205	Mucoadhesive recombinant human catalase for dry eye disease: From protein engineering to first-in-human study.	Med (New York, N.Y.)	2026-Sep-1	42759503
206	Genetic variants and the risk of renal impairment in decompensated cirrhosis: a multi-ancestry genome-wide association study.	The lancet. Gastroenterology & hepatology	2026-Sep-1	42759531
207	A 3D-printed spider silk-based functional mesh for ventral hernia repair via endogenous regeneration-promoting strategies.	Biofabrication	2026-Sep-1	42759540
208	Histone Modifications and Chromatin Landscapes in Microglial Function: Developmental Imprinting and Disease-Associated Reprogramming.	Ageing research reviews	2026-Sep-1	42759574
209	Immunometabolic Regulation of Macrophage Function in Cardio-Hepatic-Renal Comorbidities: Mechanisms and Therapeutic Opportunities.	Molecular and cellular endocrinology	2026-Sep-1	42759644
210	Scutellaria barbata D.Don suppresses SPP1+ polarization in tumor-associated macrophages via the HIF-1 α /STAT3 signaling to attenuate hepatocellular carcinoma progression.	Journal of ethnopharmacology	2026-Sep-1	42759676
211	A Bioactive Constituent from Bazhen Decoction Alleviates Sepsis-Associated Liver Injury by Restoring SLC6A6-Mediated Taurine Transport to Reprogram Macrophage Immunometabolism.	Journal of ethnopharmacology	2026-Sep-1	42759677

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212	Adjuvant activity of chitosan-modified <i>Cynanchum auriculatum</i> Royle ex Wight polysaccharide liposomal nanospheres.	Nanomedicine : nanotechnology, biology,	2026-Sep-1	42759862
213	Pathogen-specific immune responses in <i>Cornu aspersum maxima</i> reveal hematopoietic activity of the hepatopancreas and innate lymphoid-like functions of hyalinocytes.	Developmental and comparative immunology	2026-Sep-1	42759905
214	CD28-ICOS costimulation enhances the therapeutic efficacy of LICAM-targeted CAR-T cells against ovarian and gastric cancers.	Journal for immunotherapy of cancer	2026-Sep-1	42759981
215	Gene regulatory elements determine efficacy of BCMA-targeted CAR-T cell products.	Journal for immunotherapy of cancer	2026-Sep-1	42759984
216	Non-canonical Wnt11/PCP/YAP signaling mediates epithelial-mesenchymal transition and immunosuppressive tumor microenvironment in colorectal cancer.	International immunopharmacology	2026-Sep-1	42760160
217	USP38 promotes breast cancer immune evasion and malignant progression by deubiquitinating and stabilizing PD-L1.	Mammalian genome : official journal of t	2026-Sep-1	42760422
218	Coenzyme A activates TLR4 and enhances alternative macrophage activation in line with MyD88 agonism.	EMBO reports	2026-Sep-1	42760443
219	Quantitative Characterization of Innate and Adaptive Pharmacology of Allogeneic anti-CD20 Chimeric Antigen Receptor (CAR) V δ 1 γ δ T cells using Multiscale Mechanistic Modeling.	The AAPS journal	2026-Sep-1	42760488
220	Valproic acid remodels phosphatidylglycerol homeostasis and epithelial-macrophage crosstalk in inflammatory signaling.	iScience	2026-Sep-1	42740801
221	Resolving Cancer: Specialized Pro-resolving Mediators as Host-Directed Regulators of Tumor Progression and Therapy Response.	Current topics in microbiology and immun	2026-Sep-1	42754664
222	Novel ex vivo models reveal segment-specific infection of the human efferent ducts and epididymis: implications for Zika virus persistence and shedding in semen.	Human reproduction (Oxford, England)	2026-Sep-1	42757824
223	Optimizing the Hinge Length of Chimeric Antigen Receptor with a DdFP-Based Immunological Synapse Biosensor.	ACS sensors	2026-Sep-1	42758196
224	IGF2-associated tumor cells and APOE-positive macrophages define an imatinib resistance-associated niche in gastrointestinal stromal tumors.	Gastric cancer : official journal of the	2026-Sep-1	42758452
225	DGK α and ζ deficiency causes regulatory T-cell dysregulation, destabilization, and conversion to pathogenic T-follicular helper cells to trigger IgG1-predominant autoimmunity.	eLife	2026-Sep-1	42758535
226	Ubiquitylation by the GID/CTLH complex regulates the metabolic and innate immune response of macrophages to infection by <i>Mycobacterium tuberculosis</i> .	PLoS pathogens	2026-Sep-1	42758808
227	Cobalt-mediated suppression of IFN- γ -JAK-STAT1 signaling reprograms IDO1-driven immunosuppression for metalloimmunotherapy.	Science advances	2026-Sep-1	42758828
228	Functional diversity of natural human IFNB1 variants in innate immunity.	Science advances	2026-Sep-1	42758835
229	Epigenetic training licenses naïve CD8+ T cell metabolic fitness and function.	Science advances	2026-Sep-1	42758848

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230	A Latent Inflammatory Tissue-State Variable Mechanistically Links Radiotherapy-Induced Immune Remodeling to Recurrent Tumor Permissiveness.	bioRxiv : the preprint server for biolog	2026-Sep-1	42779695
231	3D Spatial Interactomics Maps the Dynamics of NF- κ B Multiprotein Signalosomes in Single Cells.	bioRxiv : the preprint server for biolog	2026-Sep-1	42779902
232	High-resolution CRISPR/Cas9 screens identify PAK2 as a suppressor of macrophage proliferation.	bioRxiv : the preprint server for biolog	2026-Sep-1	42779908
233	miRNA-mediated regulation of lineage plasticity in YY1 knockout pro-B cells.	bioRxiv : the preprint server for biolog	2026-Sep-1	42779969
234	The multiple roles of TMEDs in viral infection and immune response.	Cytokine & growth factor reviews	2026-Sep-1	42772208
235	IRF5 promotes the progression of ulcerative colitis by regulating macrophage polarization and Toll-like receptor signaling pathway.	Biochemical and biophysical research com	2026-Sep-1	42759276
236	sFgl2 - enriched MSC-EVs attenuate colitis by enhancing immunoregulatory capacity.	Colloids and surfaces. B, Biointerfaces	2026-Sep-1	42759329
237	Albumin uptake through FcRn promotes tumor-associated macrophage maturation and albumin-bound immunotherapy response.	Cell reports	2026-Sep-1	42752090
238	Bacterial Outer Membrane Vesicles in Colorectal Cancer: Interdomain Communication Hubs in Pathogenesis and Immunotherapy.	Journal of drug targeting	2026-Sep-1	42752335
239	Plant immune co-receptors: bridging gaps toward next-generation crop defense.	Stress biology	2026-Sep-1	42752726
240	The role of mTORC2/RICTOR in immune cells and inflammatory diseases.	Inflammation research : official journal	2026-Sep-1	42752901
241	Huaiqihuang Alleviates Imiquimod-Induced Psoriasis-Like Skin Lesions and Depressive-Like Behaviors in Mice.	Current medical science	2026-Sep-1	42753093
242	Structural Foundation of CTLA-4 antibodies: Emerging Platforms for Next-generation Cancer Immunotherapy.	International immunopharmacology	2026-Sep-1	42753325
243	Agrimol B induces apoptosis and ferroptosis in acute monocytic leukemia by targeting EGFR/ERK1/2 signaling and activating SIRT1.	Cancer treatment and research communicat	2026-Sep-1	42753579
244	Myeloid reprogramming generates myeloid-derived activating cells to potentiate radiotherapy and suppress metastasis.	Cancer cell	2026-Sep-1	42753736
245	Thymine-functionalized bPEI nanocomplexes for synergistic STING activation and PD-L1 silencing to potentiate cancer immunotherapy.	Journal of controlled release : official	2026-Sep-1	42753819
246	A dual-targeted oligonucleotide delivery hydrogel for diabetic wound healing: Regulating macrophage-endothelial crosstalk and ferroptosis.	Journal of controlled release : official	2026-Sep-1	42753825
247	KEAP1 loss-of-function suppresses immunogenic ferroptosis and limits PD-1 blockade efficacy through an NRF2-FSP1 pathway.	Cancer letters	2026-Sep-1	42753906
248	Metabolic reprogramming in T-cell acute lymphoblastic leukemia: Mechanisms of therapy resistance and clinical applications.	Biochimica et biophysica acta. Reviews o	2026-Sep-1	42754056

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249	QZLX gel alleviates psoriasiform inflammation through immunomodulatory effects involving PD-1/PD-L1/SHP2 signaling axis.	Journal of ethnopharmacology	2026-Sep-1	42754125
250	KMT2D, a key factor in driving cellular transformation and influencing therapeutic response across cancer lineages.	Critical reviews in oncology/hematology	2026-Sep-1	42754127
251	Physiological and molecular responses of the Pacific oyster (<i>Magallana gigas</i>) to low-frequency noise from offshore wind farms.	Ecotoxicology and environmental safety	2026-Sep-1	42754431
252	E2F7 promotes lung adenocarcinoma progression by affecting phosphorylation and stabilization of β -catenin.	Chinese medical journal	2026-Sep-1	42754577
253	Neutrophil extracellular traps in liver diseases: from molecular mechanisms to therapeutic interventions.	Acta pharmacologica Sinica	2026-Sep-1	42754702
254	Small-molecule-induced neuron-specific hypoxia: recapitulating developmental angiogenesis for ischemic stroke therapy.	Acta pharmacologica Sinica	2026-Sep-1	42754703
255	Spatial transcriptomics reveals immune remodeling in lymph nodes of gastric adenocarcinoma.	Clinical & experimental metastasis	2026-Sep-1	42754734
256	Protocol for targeted analysis of oxylipins in rat plasma and mouse macrophage samples by high-resolution UHPLC-MS/MS.	STAR protocols	2026-Sep-1	42758585
257	A bioinspired adhesive hydrogel promotes bone regeneration through osteoimmunomodulation and angiogenic-osteogenic coupling.	Journal of materials chemistry. B	2026-Sep-1	42750460
258	Pulmonary Alveolar Proteinosis: Rethinking Surfactant Homeostasis Through Alveolar Macrophage Lipid-Handling Dysfunction.	Arteriosclerosis, thrombosis, and vascul	2026-Sep-1	42751788
259	H3K9ac promoter profiling and their association with gene expression in immune cells of T2-high asthma patients.	Molecular immunology	2026-Sep-1	42748633
260	Imbalance of the CaSR-SIRT3 axis exacerbates ventricular remodeling by promoting macrophage M1 polarization via the AMPK signaling pathway post-myocardial infarction.	International immunopharmacology	2026-Sep-1	42748783
261	Single-cell and spatial multi-omics reveal a recurrent multicellular niche at the tumor-stroma interface in multidrug resistance.	Cell reports. Medicine	2026-Sep-1	42748914
262	Silica-induced CDK/CDKI dysregulation in alveolar macrophages and its implications in pulmonary fibrosis via altering macrophage fate: A review.	Toxicology and industrial health	2026-Sep-1	42748974
263	Farnesol mitigates post-infarction ventricular remodeling via pharmacological modulation of the SPHK2/S1P/SMAD3 axis.	European journal of pharmacology	2026-Sep-1	42749007
264	Targeting IGF2BP3-driven CSF1/CSF1R signaling disrupts the positive feedback loop between tumor cells and macrophages and inhibits HCC progression.	Life sciences	2026-Sep-1	42749045
265	Genomic and transcriptomic features of relapsed small cell lung cancer.	Journal of thoracic oncology : official	2026-Sep-1	42749049
266	Erythropoietin impacts immune adaptation through myeloid-cell programming.	Trends in immunology	2026-Sep-1	42749579
267	A refined MASH-HCC model identifies macrophage Gadd45b as a key orchestrator of inflammation-driven neoplastic progression.	Experimental & molecular medicine	2026-Sep-1	42749878

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268	GOLPH3-mediated sialylation of CXCR4 drives malignant progression and M2 macrophage polarization in colorectal cancer.	Apoptosis : an international journal on	2026-Sep-1	42749929
269	FOXP1 Knockdown Reprograms Th9 CAR-T Cells to Overcome Antigen Escape.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-1	42750117
270	Pathological Th2 cell activation via STAT6 pathway for pulmonary fibrosis.	American journal of respiratory cell and	2026-Sep-1	42750119
271	Sonogenetics Nanomedicine Activates the cGAS-STING Pathway for Immunotherapy of Triple-Negative Breast Cancer.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-1	42750211
272	Lactiplantibacillus Plantarum GUANKE Alleviates Allergic Asthma by Restricting Monocyte-to-DC Differentiation Via Microbiota-Associated IAA.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-1	42750356
273	Adipocyte-derived exosomal miR-27a-3p promotes macrophage M1 polarization via HACE1/RAC1/STAT3 axis to exacerbate the progression of childhood asthma.	Naunyn-Schmiedeberg's archives of pharma	2026-Sep-1	42744919
274	The bidirectional immunoregulatory effects of Traditional Chinese Medicine on the cGAS-STING signaling pathway and their translational prospects.	Chinese medicine	2026-Sep-1	42745275
275	α -Tocopherol rescues lipid-induced impairment of autophagy via mTOR/ULK1 signaling in macrophages.	The Korean journal of physiology & p	2026-Sep-1	42745574
276	Kaempferia galanga L.-derived nanovesicles for protection against acute inflammation via the NF- κ B signaling pathway.	Journal of materials chemistry. B	2026-Sep-1	42747096
277	Breaking the Lipid Bottleneck: A Mitophagy-Driven Nanoregulator Amplifies Ferroptosis for Colorectal Cancer Immunotherapy.	Small (Weinheim an der Bergstrasse, Germ	2026-Sep-1	42747198
278	Dupilumab Alleviates Pulmonary Fibrosis by Interrupting Profibrotic Macrophage-Fibroblast Crosstalk and IL4R/JAK/STAT Signaling.	Lung	2026-Sep-1	42747578
279	Somatostatin and its type 2 receptor expression in the pregnant and labouring myometrium.	American journal of physiology. Cell phy	2026-Sep-1	42747790
280	Temporal CRAC channel blockade modulates the MYC-MXD axis to attenuate autoimmune inflammation.	Cell reports	2026-Sep-1	42747969
281	Fungal lipase LipA disarms macrophages by remodeling their lipidome, enabling full virulence in immunocompetent hosts.	Cell reports	2026-Sep-1	42747970
282	STK11 deficiency drives NSCLC immune resistance via ETNK2-mediated phosphoethanolamine accumulation.	International immunology	2026-Sep-1	42747979
283	Daphnetin Alleviates Sepsis-Associated Acute Kidney Injury by Promoting Autophagy and Suppressing Non-canonical NF- κ B Signaling.	Current medicinal chemistry	2026-Sep-1	42764734
284	Mechanisms and Therapeutic Advances of M2 Macrophages and Mesenchymal Stem Cell-derived Exosomes in Diabetic Wound Healing.	Current stem cell research & therapy	2026-Sep-1	42764745
285	Pathophysiology and Emerging Therapies in Chronic Inflammation Demyelinating Polyneuropathy.	Internal medicine (Tokyo, Japan)	2026-Sep-1	42749655
286	TREM2 tumor-associated macrophages in cancer: context-dependent biology, biomarkers and precision immunotherapy.	Critical reviews in oncology/hematology	2026-Sep-1	42744132

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287	Inhibiting calreticulin palmitoylation enhances the efficacy of elesclomol-CuCl ₂ on oxaliplatin-triggered immunogenic cell death in pancreatic cancer.	Pharmacological research	2026-Sep-1	42744192
288	Cepharanthine improves rheumatoid arthritis by regulating functions of fibroblast-like synoviocytes and macrophage polarization.	European journal of pharmacology	2026-Sep-1	42744258
289	Charge-patterned glycosaminoglycan-mimetic polysaccharides for infection-resistant tissue repair: Growth-factor binding, antibiofilm interfaces, and immunoregenerative signaling.	International journal of biological macr	2026-Sep-1	42744265
290	circ_0043837 attenuates macrophage mitochondrial damage through XPO1-associated HuR transport in atherosclerosis.	Biochemical pharmacology	2026-Sep-1	42744276
291	Pde1b controls cyclic nucleotide signaling in cDC1 and macrophages to regulate immune responses.	EMBO reports	2026-Sep-1	42744925
292	Investigation of oxidized low-density lipoprotein (oxLDL)-induced inflammation in atherosclerosis using a paper-based immune-vascular model.	Analytical and bioanalytical chemistry	2026-Sep-1	42745027
293	An H2A.Z-dependent epigenetic checkpoint in macrophages couples genetic risk to microbial metabolite signaling.	Protein & cell	2026-Sep-1	42745483
294	Precision immunomodulation for pediatric hemophagocytic lymphohistiocytosis in intensive care.	Pediatric investigation	2026-Sep-1	42746142
295	The light side of mast cell degranulation: delivering macrophage repair through molecular condensates.	Journal of leukocyte biology	2026-Sep-1	42740557
296	O-GlcNAcylation: A Metabolic-Immune Hub Regulating Macrophage Fate and Osteoclast Differentiation.	Oral diseases	2026-Sep-1	42740582
297	Immune-Cell Profiling Identifies a Defective Macrophage-Maresin 1 Resolution Axis as a Pathogenic Driver and Therapeutic Target in Vitiligo and Canities.	Journal of cutaneous medicine and surger	2026-Sep-1	42741921
298	Reverse genetics in humanized mice reveals CARD8-mediated pyroptosis causing pancytopenia in human DPP9 deficiency.	The Journal of clinical investigation	2026-Sep-1	42741941
299	Immune dysregulation and stem-like CD8 ⁺ T cell enrichment in type 1 diabetes pancreatic lymph nodes.	The Journal of clinical investigation	2026-Sep-1	42741944
300	Photocatalytic Construction of Multivalent Peptide-Human Serum Albumin (HSA) Conjugates Capable of Effectively Attenuating Phagocytosis.	ACS applied materials & interfaces	2026-Sep-1	42742063
301	Protein Corona Engineering of Lipid Nanoparticles Enables Efficient Functional Gene Silencing in the Liver.	Small (Weinheim an der Bergstrasse, Germ	2026-Sep-1	42742066
302	CD36-Pocket Targeting Induces Metabolic Collapse and Disulfidoptosis for Sonodynamic Immunometabolic Therapy of Liver Cancer.	Small (Weinheim an der Bergstrasse, Germ	2026-Sep-1	42742088
303	Interferon- λ Receptor Positive Monocytes/Macrophages Orchestrate a Pro-fibrotic Immune Environment in Hepatitis B Virus-Related Liver Fibrosis.	Clinical science (London, England : 1979	2026-Sep-1	42742113
304	From receptor biology to therapy: importance of different EGFR mutations in the development of targeted cancer therapies.	Immunotherapy	2026-Sep-1	42742207
305	Targeting BLVRB Overcomes Immunosuppression and Potentiates Immunotherapy in Monocytic Acute Myeloid Leukemia.	Cancer discovery	2026-Sep-1	42742315
306	Antioxidant defenses of Francisella tularensis perturb Aim2 inflammasome activation.	Infection and immunity	2026-Sep-1	42742343

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307	Mechanical ventilation-induced neutrophil extracellular vesicles as mediators of postoperative pulmonary complications.	American journal of respiratory and crit	2026-Sep-1	42742361
308	Combined immune modulation reveals carbamazepine-associated CD8+ T cell-dependent skin inflammation in HLA-A*31:01 knock-in mice.	Archives of toxicology	2026-Sep-1	42742701
309	Transcriptomic profiling of immune cells in malignant pleural effusions identifies macrophage reprogramming associated with survival.	JCI insight	2026-Sep-1	42742984
310	Acute activation of Gq-signaling in pancreatic islet macrophages inhibits insulin secretion through AMPK-sphingolipid axis.	The Journal of clinical investigation	2026-Sep-1	42742991
311	Engineered bacterial outer membrane vesicle vaccine prevents T cell exhaustion for antibacterial immunotherapy.	Cell reports	2026-Sep-1	42743056
312	FasL-mediated death of activated intratumoral T cells drives secondary resistance to cancer immunotherapy.	Cancer immunology research	2026-Sep-1	42743199
313	PTPN1/2 Inhibition Remodels the Pulmonary Myeloid Landscape to Induce Alveolar Macrophage-Mediated Control of Lung Metastasis.	Cancer research	2026-Sep-1	42743229
314	Viral hijacking of the host ubiquitin-proteasome system for immune escape.	Science signaling	2026-Sep-1	42743266
315	One mechanism, two diseases: Involvement of enzyme-substrate complexes in the pathogenesis of celiac disease and rheumatoid arthritis.	Proceedings of the National Academy of S	2026-Sep-1	42696555
316	Multiscale interactions in cardiovascular homeostasis and remodeling: from molecular coupling to organelle and multicellular networks.	The journal of physiological sciences :	2026-Sep-1	42759186
317	IL1B-high macrophages promote ferroptosis-like lipid peroxidation injury in Crohn's disease intestinal epithelium.	Redox biology	2026-Sep-1	42748656
318	Integrated single-cell transcriptomics, Mendelian randomization, and machine learning identify CEBPZ as an immune-related biomarker in oral lichen planus.	Advances in clinical and experimental me	2026-Sep-1	42735428
319	Sinomenine modulates an MGAT3-associated B-cell IgG N-glycosylation pathway linked to macrophage Fc γ RIII/CD16-related signaling in rheumatoid arthritis.	Pharmacological research	2026-Sep-1	42735731
320	Metabolic reprogramming of myeloid antigen-presenting cells in the tumor microenvironment: mechanisms of antigen presentation failure and therapeutic opportunities.	Biochimica et biophysica acta. Reviews o	2026-Sep-1	42735837
321	Therapeutic cancer vaccines: development, challenges, and future perspectives.	Acta pharmacologica Sinica	2026-Sep-1	42736453
322	Mechanistic study of IL-17 inhibitors in alleviating inflammation in ankylosing spondylitis by regulating Treg cell function through modulation of the Ahr signaling pathway.	Human cell	2026-Sep-1	42734728
323	Admission whole-blood transcriptomic characterization of a neutrophil-predominant systemic immune response in patients with acute traumatic brain injury.	Shock (Augusta, Ga.)	2026-Sep-1	42735045
324	Molecular subgroups of human malignant peripheral nerve sheath tumors are conserved in canines.	Neoplasia (New York, N.Y.)	2026-Sep-1	42732649
325	Batf2 knockdown ameliorates early-stage hyperoxia-induced BPD-like lung injury and is associated with suppression of GBP5/NF- κ B signaling.	International immunopharmacology	2026-Sep-1	42732671

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326	Multi-omics and spatial transcriptomics reveal that S100A10 drives CD8+ T-cell exhaustion and immune evasion in hepatocellular carcinoma through cPLA2-5-LOX-mediated arachidonic ac	International immunopharmacology	2026-Sep-1	42732672
327	Givinostat attenuates sepsis-induced myocardial dysfunction by suppressing macrophage inflammation and restoring phagocytic activity.	International immunopharmacology	2026-Sep-1	42732674
328	Saquinavir inhibits pyroptosis by regulating NLRP3 degradation to alleviate acute lung injury.	International immunopharmacology	2026-Sep-1	42732675
329	Inflammation biomarkers in cancer: mechanistic drivers, diagnostic innovations, and future clinical horizons.	International immunopharmacology	2026-Sep-1	42732678
330	SRSF3 confers cuproptosis resistance in oral cancer by suppressing FDX1 expression.	Cellular signalling	2026-Sep-1	42732810
331	Micron-scale lactoferrin proteinosomes potentiate immune activation and chemo-immunotherapy in breast cancer.	International journal of biological macr	2026-Sep-1	42732862
332	Phase-Transition-Induced Deformable OMV-Camouflaged Nanoparticles Enabling Deep Biofilm Penetration for Photothermal-Photodynamic Eradication of Bacterial Pneumonia.	Advanced healthcare materials	2026-Sep-1	42733188
333	Glucocorticoid Receptor Signaling in Myeloid Cells Orchestrates Inflammation Resolution and Muscle Repair.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-1	42733273
334	Mechanism and clinical relevance of metabolic-immune cross-talk in pancreatic tumor microenvironment.	Cytokine & growth factor reviews	2026-Sep-1	42753284
335	[Research progress on the regulatory mechanisms of inflammatory signaling pathways in acupuncture treatment for ischemic stroke].	Zhongguo zhen jiu = Chinese acupuncture	2026-Sep-1	42744648
336	Host C3 complement restricts bovine coronavirus infection in vitro via virus-induced IL-1 β signaling.	Veterinary immunology and immunopatholog	2026-Sep-1	42735537
337	Fatty acid synthase in cardiovascular disease: from molecular mechanisms to therapeutic targeting.	Cardiovascular research	2026-Sep-1	42728673
338	Single-Cell Transcriptomics Uncovers β -Elemene-Induced Macrophage Reprogramming as a Mechanism to Suppress Osteosarcoma Stemness via the CCL2-Akt Axis.	Immunological investigations	2026-Sep-1	42730681
339	Axolotl-Derived Skin Technologies for Cranial Wounds: Translational Potentials and Alternative Biomaterials.	Cells, tissues, organs	2026-Sep-1	42731061
340	Role of CircRNA_0005075 in gastric cancer immune evasion through regulation of lactate metabolic reprogramming and histone lactylation.	Translational oncology	2026-Sep-1	42731419
341	Non-canonical modulation of mitochondrial ROS and dynamics by Netrin-3 drives inflammasome activation in cardiomyocytes.	International immunopharmacology	2026-Sep-1	42731462
342	HSPA1A promotes immune-evasive colorectal liver metastasis through post-transcriptional stabilization of APP mRNA.	International immunopharmacology	2026-Sep-1	42731467
343	Neuroregulation as a modulatory force in immune checkpoint inhibitor resistance: mechanistic neuro-immune crosstalk informing biomarker-led diagnosis and targetable therapeutic sen	Pharmacology & therapeutics	2026-Sep-1	42731583

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344	Pyroptosis in Triple-Negative Breast Cancer: From Inflammasome Signaling to Tumor Immune Remodeling and Translational Therapeutic Strategies.	Progress in biophysics and molecular bio	2026-Sep-1	42731601
345	A pro-inflammatory metastasis-associated macrophage subset induces tumor-promoting mesothelial cell conversion in ovarian cancer via IL-1 α secretion.	Cell death & disease	2026-Sep-1	42731998
346	Toll-like receptor 2 modulates age-associated insulinitis and fibrotic remodeling of Langerhans islets.	Immunity & ageing : I & A	2026-Sep-1	42732051
347	Genetic and biochemical screens identify MGAT1 as a druggable glycosyltransferase target in STK11-mutant lung cancer.	The Journal of biological chemistry	2026-Sep-1	42727848
348	Protocol to establish endogenous knockins in Jurkat T-ALL cells using CRISPR-Cas9-mediated homology-directed repair.	STAR protocols	2026-Sep-1	42758584
349	Identification of novel diimide and hydrazone scaffolds for synergistic HIV-1 shock and kill strategies.	Biochemical and biophysical research com	2026-Sep-1	42735590
350	TNFAIP3 Modulates Macrophage Polarization Post-Myocardial Infarction through Its Restraint on the JAK2-STAT1 Signaling Axis.	International heart journal	2026-Sep-1	42732930
351	The Role of Myeloid Immune Cells in Lung Epithelial Repair.	American journal of physiology. Lung cel	2026-Sep-1	42727084
352	Curcumin attenuates DEHP-induced splenic immunotoxicity in chicks: involvement of Mfn2-mtROS-associated mitochondrial homeostasis.	Environmental pollution (Barking, Essex	2026-Sep-1	42727807
353	Engineered cryo-shocked tumor cells recruit T cells for lung cancer immunotherapy.	Journal of controlled release : official	2026-Sep-1	42727817
354	Impact of Fostemsavir in Individuals with Multidrug-Resistant HIV-1, Stratified by Baseline Viral Load.	Infectious diseases and therapy	2026-Sep-1	42728469
355	Sono-Tribocatalytic Whole Tumor Cell Vaccine Enables Ultrasound-Controlled Immune Boosting for Enhanced Anti-Tumor Immunity.	Angewandte Chemie (International ed. in	2026-Sep-1	42728564
356	Macrophage-Targeted Nanozyme Interrupts Inflammation-Oxidative Stress Storm in Diabetic Wound Healing.	Small (Weinheim an der Bergstrasse, Germ	2026-Sep-1	42730553
357	KDM6B inhibition modulates monocyte activation and alleviates IMQ-induced psoriasis-like skin inflammation.	Cell communication and signaling : CCS	2026-Sep-1	42732058
358	Resveratrol attenuates LPS/CSE-induced macrophage ferroptosis through activation of the Nrf2-ferroportin axis.	International immunopharmacology	2026-Sep-1	42727368
359	Mitochondrial ATP promotes T cell differentiation through chromatin accessibility.	Cell	2026-Sep-1	42727574
360	Contact hypersensitivity promotes hair regeneration through SPP1-secreting macrophages.	The Journal of investigative dermatology	2026-Sep-1	42727722
361	RNAi-mediated HBV antigen shutdown enhances the antiviral immune effects of PEGIFN α via T and B cell crosstalk remodeling.	Clinical and molecular hepatology	2026-Sep-1	42723512
362	SIK3-mKO Enhances Myelin Debris Phagocytosis via CD11c Complement Pathway for White Matter Protection Poststroke.	Stroke	2026-Sep-1	42723606
363	A novel rosiglitazone-phosphatidylserine composite nanoparticle mediated targeted drug delivery to macrophages for treatment of ulcerative colitis.	Nanomedicine (London, England)	2026-Sep-1	42725683

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364	Spatial Transcriptomics Identifies Characteristic Immunological Niches in Atopic Dermatitis.	Allergy	2026-Sep-1	42725707
365	MDV-like endogenous viral elements act as immune rheostats in Aedes cells by modulating defensin A-mediated responses to arboviruses.	mSphere	2026-Sep-1	42725737
366	Biochanin A Activates Mitochondrial UPR to Protect the Host against Pathogenic Bacterial Infection through the Conserved Transcription Factor ATFS-1/ATF5.	ACS infectious diseases	2026-Sep-1	42725965
367	Exosomal miR-484 impairs CD8 + T cell homeostasis in sepsis through the YPEL1/Cyclin E axis.	Acta biochimica et biophysica Sinica	2026-Sep-1	42726604
368	Combined photobiomodulation and pulsed electromagnetic field exposure attenuates nitric oxide production in high-glucose/LPS-stimulated RAW264.7 macrophages.	International journal of radiation biolo	2026-Sep-1	42726645
369	T-Cell Leukemia Cell Line Harboring Previously Undescribed CBFB::MYL11 Fusion Exhibits a Genome Profile Implicating Cytoskeletal Abnormality.	Acta haematologica	2026-Sep-1	42726671
370	Targeting LOXL4-driven matrix stiffening with acetyldigoxin restores CD8+ T cell function in lung cancer.	Science advances	2026-Sep-1	42726857
371	Targeted reprogramming of macrophages by inhalable dual-ligand-engineered liposomes via mechano-biochemical signaling coupling to improve acute lung injury.	Biomaterials advances	2026-Sep-1	42748886
372	Intratracheal Man-Rg3-Lipo Attenuates OLV-Induced Lung Injury in Juvenile Rats and Is Associated with Macrophage-Related NF- κ B Suppression.	Current drug delivery	2026-Sep-1	42736689
373	Subcellular sirtuin signaling networks: pivotal regulators of cardiovascular homeostasis and remodeling.	Journal of molecular histology	2026-Sep-1	42717076
374	WDR23 prevents bone loss by promoting autophagic degradation of TRAF6 in osteoclastogenesis.	Bone research	2026-Sep-1	42717193
375	Study on the Antirejection Effects of the Dual ICOS and CD28 Antagonist Acazicolcept (ALPN-101) in Mouse Skin and Heart Transplantation Models.	Transplantation	2026-Sep-1	42717303
376	The C3-C3aR axis modulates trained immunity in alveolar macrophages.	eLife	2026-Sep-1	42720115
377	Cathepsin D as a central regulator of extracellular matrix remodeling in wound healing and chronic tissue pathologies.	Tissue barriers	2026-Sep-1	42720228
378	Design and Synthesis of Anemoside B4 Derivatives as Pyruvate Carboxylase-Targeting Therapeutic Agents for Atopic Dermatitis.	Journal of medicinal chemistry	2026-Sep-1	42720484
379	scMustree: a multi-scale functional hierarchy for single-cell transcriptomic analysis.	Bioinformatics (Oxford, England)	2026-Sep-1	42720591
380	Dynamic phosphorylation of cGAS by DNA-PKcs and PPP1CC balances DNA repair and innate immunity.	Medical oncology (Northwood, London, Eng	2026-Sep-1	42720700
381	Molecular mechanisms of herbal medicines and bioactive compounds in rheumatoid arthritis: a comprehensive network pharmacology perspective.	Molecular biology reports	2026-Sep-1	42720835
382	OLR1 drives gastric cancer progression through NF- κ B activation and immunosuppressive macrophage polarization.	Medical oncology (Northwood, London, Eng	2026-Sep-1	42720856

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383	Oral Fungal Infection Impacts Epithelial Innate Immunity to Promote Local and Distal Squamous Cell Carcinoma Progression.	Cancer research	2026-Sep-1	42721161
384	Unphosphorylated tyrosines mediate PD-1 inhibition of T cell signaling condensate formation.	Science (New York, N.Y.)	2026-Sep-1	42721241
385	Targeting the AKT2-NAMPT phosphorylation axis prevents macrophage senescence to enhance bactericidal activity in septic immunosuppression.	International immunopharmacology	2026-Sep-1	42721505
386	Ginsenoside alleviates sepsis related acute lung injury by inhibiting the destruction of alveolar epithelial barrier mediated by EVs secreted by alveolar macrophages.	International immunopharmacology	2026-Sep-1	42721507
387	Context-dependent roles of cGAS-STING signaling in glioblastoma: Therapeutic resistance, drug delivery, and heterogeneity-informed translation.	Biomedicine & pharmacotherapy = Biom	2026-Sep-1	42721675
388	Investigation of the molecular mechanism by which triclosan aggravates rheumatoid arthritis using network toxicology.	Ecotoxicology and environmental safety	2026-Sep-1	42721924
389	Cycloastragenol extends lifespan and enhances stress resistance in <i>Caenorhabditis elegans</i> by inhibiting IIS pathway and activating p38 MAPK-mediated innate immunity.	European journal of pharmacology	2026-Sep-1	42722052
390	Metformin Protects Against Myocardial Ischemia/Reperfusion Injury and Suppresses the Nur77-SPARCL1 Inflammatory Axis.	Translational research : the journal of	2026-Sep-1	42722063
391	Alterations of Telomere-Associated Genes and Underlying Mechanisms in Hypoxic-Ischemic Encephalopathy.	Neuropharmacology	2026-Sep-1	42722102
392	<i>Eriocheir sinensis</i> 14-3-3 ζ regulates hemocyte phagocytosis, apoptosis and antimicrobial peptide expression during <i>Spiroplasma eriocheiris</i> infection.	Fish & shellfish immunology	2026-Sep-1	42722175
393	Chicoric acid in autoimmunity: A review of its immunomodulatory mechanisms and therapeutic potential.	Fitoterapia	2026-Sep-1	42722209
394	Dioscin activates myeloid AMPK to restore Lgr5 stem cell homeostasis and promote mucosal repair in ulcerative colitis.	Pharmacological research	2026-Sep-1	42722241
395	TRANQUIL attenuates autoimmune demyelination and suppresses neuroinflammatory signaling in experimental autoimmune encephalomyelitis.	Brain research	2026-Sep-1	42722281
396	Schisandrin C Targets PPAR γ to Induce Ferroptosis in Colorectal Cancer Cells and Promote M1 Macrophage Polarization.	Phytotherapy research : PTR	2026-Sep-1	42723181
397	Macrophage Dab1 Links Early Hypoxia to Adaptive Angiogenesis to Drive Peripheral Nerve Repair.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-1	42723198
398	Interleukin-39 is a Prognostic Biomarker and Therapy Target for Sepsis.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-1	42723207
399	Combination Of Bispecific Antibodies Enable Targeted TNFRSF Agonism and Effective Antitumor Activity.	Molecular therapy : the journal of the A	2026-Sep-1	42723279
400	Therapeutic attenuation of orbital adipogenesis via M2 macrophage exosomes: A dual inhibition of oxidative stress and autophagy.	Cellular immunology	2026-Sep-0	42743711
401	Boosting T cell antioxidant capacity: A strategic approach to overcome immunosuppression in solid tumors.	Redox biology	2026-Sep-0	42743757

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402	Protein Phosphatase 2A Modulates AKT-Mediated Macrophage Polarization in Adipocyte-Induced Inflammation.	Current pharmaceutical biotechnology	2026-Sep-0	42736652
403	Pyrimidine- and furo[2,3-d]pyrimidine-isoxazole hybrids and their Re(i) tricarbonyl complexes with antiproliferative activity against hematological malignancies.	RSC medicinal chemistry	2026-Sep-0	42741423
404	Macrophage SELENOP controls neutrophil homeostasis through redox stress regulation in Crohn's disease.	Redox biology	2026-Sep-0	42731288
405	Cancer-associated fibroblast-derived POSTN as a metabolic "switch" shapes lipid-stressed macrophage polarization in gastric cancer.	Redox biology	2026-Sep-0	42731290
406	B3GNT5-associated glycosylation remodeling in tumor-associated macrophages supports TGF- β -related glioma progression.	Biochimica et biophysica acta. General s	2026-Sep-0	42715804
407	Exosomal METTL16 from mesenchymal stem cells promotes malignant progression and M2 macrophage polarization in acute myeloid leukemia via IGF2BP2-dependent GPX1 m6A modification.	Biochimica et biophysica acta. Molecular	2026-Sep-0	42716141
408	Deciphering T-cell receptor-antigen recognition through interpretable residue-level interaction modeling.	International journal of biological macr	2026-Sep-0	42716164
409	Apolipoprotein E in spinal cord injury: mechanisms of lipid dysregulation, neuroinflammation, and opportunities for repair.	Pharmacology & therapeutics	2026-Sep-0	42716189
410	Druggable tumor-nerve-immune circuits in cancer pain: model systems, human translatability and therapeutic paradoxes.	Pharmacological research	2026-Sep-0	42716238
411	Integrated experimental and computational evaluation of atractylenolide III from Tubipora musica for anticancer lead identification.	Scientific reports	2026-Sep-0	42716976
412	The Role and Mechanism of Endothelial Progenitor Cell-Derived Extracellular Vesicles in Vascular Repair of Ischemic Heart Disease.	Journal of cardiovascular translational	2026-Sep-0	42717123
413	Epigenetic markers of response to psychotherapy in obsessive-compulsive disorder.	Neuropsychopharmacology : official publi	2026-Sep-0	42717234
414	Water-Activated Phospholipid Phase-Separation Gel as an Immunomodulatory Anti-Adhesion Barrier for Postoperative Adhesion Prevention.	Advanced healthcare materials	2026-Sep-0	42717399
415	Novel therapies for refractory idiopathic inflammatory myopathy-associated interstitial lung disease.	Current opinion in rheumatology	2026-Sep-0	42712119
416	Inducing CD8+ Tregs Limits Atherosclerosis via Notch-Mediated VSMC Quiescence.	Circulation research	2026-Sep-0	42713647
417	An Apoptotic Body-Mimetic Nanoagonist for Synergistic Diabetic Wound Immunotherapy.	Advanced healthcare materials	2026-Sep-0	42713721
418	Manganese-doped ceria nanoparticles modulate macrophage polarization to enhance osteogenic and angiogenic responses through redox regulation.	Journal of materials chemistry. B	2026-Sep-0	42713862
419	Carbon Dots Enhance Efferocytosis via MSC-Macrophage Crosstalk: A New Strategy for Diabetic Bone Regeneration.	Small (Weinheim an der Bergstrasse, Germ	2026-Sep-0	42714292
420	Integrative pooled transcriptomic analysis reveals shared and distinct molecular signatures in adult T-cell leukemia/lymphoma and peripheral T-cell lymphoma.	Functional & integrative genomics	2026-Sep-0	42714615

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421	Gegen Flavonoids and Huangqi Saponins Combination Ameliorates Diabetic Nephropathy By Modulating the Gut-Kidney Axis and Regulating Macrophage Polarization.	Applied biochemistry and biotechnology	2026-Sep-0	42714709
422	Hot spot-driven discovery of β -catenin/Tcf4 interaction inhibitors via virtual drug repurposing study and experimental validation in colorectal cancer cells.	Molecular diversity	2026-Sep-0	42714809
423	PET, Proteomics, and Immunophenotyping of Arterial Inflammation and Checkpoint Inhibition.	JAMA cardiology	2026-Sep-0	42714919
424	Biomimetic Virus-Like Mesoporous Silica Nanoparticles Activate NK Cells Indirectly via Monocyte Crosstalk.	Nano letters	2026-Sep-0	42715057
425	Mitochondrial Fis1 tunes Rab7A activity via TBC1D15 modulating STING degradation.	Cell reports	2026-Sep-0	42715104
426	Leukocyte immunoglobulin-like receptor A3 inhibits the activity of immunosuppressive myeloid cells.	Cancer immunology research	2026-Sep-0	42715109
427	Reprogramming engineered autologous T cells to overcome resistance in patients with Merkel cell carcinoma.	Science translational medicine	2026-Sep-0	42715345
428	Silicon Nitride Nanofilm Functionalized Titanium Mesh for Boosting Osseointegration by Macrophage-Related Immunomodulation.	ACS biomaterials science & engineeri	2026-Sep-0	42715428
429	Activated platelets in multiple sclerosis: Immunoinflammatory mechanisms and the therapeutic controversy of acetylsalicylic acid.	Multiple sclerosis and related disorders	2026-Sep-0	42735596
430	Injury polarized CD4+ T cells orchestrate redox and unfolded protein responses to promote cardiac repair after myocardial infarction.	Redox biology	2026-Sep-0	42731291
431	FABPs-mediated lipid signaling pathways in tumor reprogramming: bidirectional crosstalk with the immune microenvironment.	Bioorganic chemistry	2026-Sep-0	42715622
432	Phthalate exposure and osteoporosis: NHANES associations and integrative in silico prioritization of candidate molecular targets.	Chemosphere	2026-Sep-0	42715894
433	Discovery of oxazole-capped 4-phenoxy piperidine CSF1R type II inhibitors with potent in vivo anti-rheumatoid arthritis activity.	Bioorganic chemistry	2026-Sep-0	42721528
434	The effect of macrophage secretome on equine endometrial fibroblast transcriptomic and functional characteristics.	Theriogenology	2026-Sep-0	42721531
435	Elevated mitochondrial superoxide promotes longevity through a mitochondria-to-nucleus kinase signaling pathway.	Redox biology	2026-Sep-0	42721646
436	Isoforskolin targets ADCY7 to restore mitochondrial function in COPD-associated macrophages.	International immunopharmacology	2026-Sep-0	42710396
437	Gilvetmab advances immune checkpoint inhibitor immunotherapy for canine cancer.	Journal of the American Veterinary Medic	2026-Sep-0	42710546
438	Regulatory CD4 T cells minimally migrate to inflamed allografts in the absence of effector T cell responses.	American journal of transplantation : of	2026-Sep-0	42710595
439	NLRP3 Mediated Kupffer Cell Pyroptosis Aggravated Ischemia-reperfusion Injury After Aging Donor Liver Transplantation Through CD38-NAD ⁺ -Sirt1 Dependent Acetylation of ERR α .	American journal of transplantation : of	2026-Sep-0	42710596
440	Sinusoidal endothelial cells orchestrate liver inflammation and lipid metabolism via USP12/CD36 axis being the target of celastrol therapy.	Biochimica et biophysica acta. Molecular	2026-Sep-0	42710599

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441	CAFs-mediated histone lactylation reprograms cholesterol metabolism in colorectal cancer to drive CD8+ T cell immunosuppression.	The Journal of pathology	2026-Sep-0	42711289
442	Intratumoral T cell activation kills tumors regardless of T cell specificity.	Nature immunology	2026-Sep-0	42711529
443	Galaxamide Ameliorates Cisplatin-induced Uterine Injury via Anti - inflammatory and Antiapoptotic Mechanisms in Mice.	Reproductive sciences (Thousand Oaks, Ca	2026-Sep-0	42711534
444	Tumor Mechanical Remodeling via Bidirectional Calcium Redistribution Enables Deep Photothermal-Immunotherapy.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-0	42711863
445	ROS-Responsive Nanoparticle Delivery of Dexmedetomidine Protects the Gut Vascular Barrier After Intestinal Ischemia/Reperfusion via the HDAC-H3K27ac-TCF4 Axis.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-0	42711890
446	Single-Cell Profiling Reveals Clonally Expanded CX3CR1+ T Cells in Anti-NMDA Receptor Encephalitis.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-0	42711907
447	The lifelong transcriptomic landscape of human blood cells.	Protein & cell	2026-Sep-0	42712142
448	Epigenetic Regulation of Host Immunity During Parasitic Infections: Mechanisms, Immune Evasion, and Therapeutic Opportunities.	Immunological investigations	2026-Sep-0	42708225
449	Glutamine-dependent biosynthetic pathways fuel autoreactive T and B cells in Foxp3 deficiency-mediated disease.	JCI insight	2026-Sep-0	42708364
450	Multomic analysis identifies T cell subsets and mechanisms of epithelial interaction in idiopathic pulmonary fibrosis.	JCI insight	2026-Sep-0	42708365
451	Impaired regulation by purinergic signaling axis contributes to CD8+ T cell dysregulation in STAT3 gain of function.	JCI insight	2026-Sep-0	42708369
452	Follicular lymphoma and the microenvironment: potential targets and biomarkers.	Expert review of clinical immunology	2026-Sep-0	42708889
453	"The CX3CL1- CX3CR1 axis in HIV-associated inflammation and cardiometabolic disease".	American journal of physiology. Regulato	2026-Sep-0	42709058
454	Identifying the therapeutic effects of talniflumate in metastatic papillary thyroid microcarcinoma through integrating multiple omics analysis.	Naunyn-Schmiedeberg's archives of pharma	2026-Sep-0	42709185
455	Exercise in Patients with Subclinical Atherosclerosis: Mechanisms, Clinical Evidence, and Practical Recommendations.	Current atherosclerosis reports	2026-Sep-0	42709261
456	Engineered Mitochondria-Targeted Biomimetic Hybrid Nanovesicles Ameliorate Rheumatoid Arthritis via Regulating Macrophage Autophagy and cGAS-STING Signaling.	ACS applied materials & interfaces	2026-Sep-0	42709510
457	SMURF2 inhibits autophagic control of Mycobacterium tuberculosis in macrophages.	JCI insight	2026-Sep-0	42709675
458	Transcriptomic Characterization of TCR-NK Cells Reveals Challenges Associated with CD3 ζ Overexpression.	Turkish journal of haematology : officia	2026-Sep-0	42706722
459	Tissue-resident memory T cells in autoimmune chronicity and relapse: mechanisms and therapeutic implications.	International immunopharmacology	2026-Sep-0	42705066
460	Mutated p53 results in altered type I interferon pathway expression and signaling in endometrial cancer.	Gynecologic oncology	2026-Sep-0	42705125

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461	Dendritic cell centric nanoengineering couples antigen acquisition and STING activation for cancer immunotherapy.	Cell reports. Medicine	2026-Sep-0	42705236
462	Programmed Cell Death Networks in Tuberculosis: From Molecular Crosstalk to Lesion Immunopathology and Host-Directed Therapy.	International journal of infectious dise	2026-Sep-0	42705407
463	Reconfiguring the macrophage-centric intercellular network in pulmonary fibrosis: Emerging perspectives and therapeutic opportunities.	Pharmacological research	2026-Sep-0	42705427
464	SMPDM3B-loaded extracellular vesicles from tumor-associated macrophages drive ovarian cancer chemoresistance by inhibiting the cGAS/STING pathway.	Archives of biochemistry and biophysics	2026-Sep-0	42705430
465	The Interplay between Innate Immune Memory and Adaptive Immunity: Emerging Mechanisms in Alloimmunity.	American journal of transplantation : of	2026-Sep-0	42705464
466	A programmable NIR-II-activated phase-change nanoplatform for antibacterial therapy and microenvironment remodeling in diabetic chronic wounds.	Journal of controlled release : official	2026-Sep-0	42705469
467	Immunotherapy for invasive Candida infections: Translating host-directed strategies into clinical practice.	Clinical microbiology and infection : th	2026-Sep-0	42705534
468	An Inducible Zebrafish Model of Thrombocytopenia Enables In Vivo Drug Screening and Reveals FGF Signaling as a Key Regulator of Platelet Regeneration.	Journal of thrombosis and haemostasis :	2026-Sep-0	42705548
469	p97-mediated proteostasis is a checkpoint for late-stage thymocyte positive selection.	Cellular & molecular immunology	2026-Sep-0	42706435
470	Dynamic Compression Reveals Donor-Age-Associated Inflammaging in Human Mesenchymal Stromal Cell Spheroids.	ACS applied materials & interfaces	2026-Sep-0	42696704
471	Ectopic Endometrium-Targeted M1 Macrophage-Derived Nanovesicles for Treatment of Endometriosis.	ACS applied bio materials	2026-Sep-0	42702982
472	[Role of myeloid cell abnormalities in the pathogenesis of aplastic anemia:a review of research advances].	Zhejiang da xue xue bao. Yi xue ban = Jo	2026-Sep-0	42703756
473	Identification of human leukocyte antigen class I risk alleles and enriched T cell receptor groups in activated T cell pediatric acute liver failure.	Journal of pediatric gastroenterology an	2026-Sep-0	42703783
474	Key barriers in utilizing advanced T-cell engager strategies on solid tumors.	Expert review of anticancer therapy	2026-Sep-0	42703918
475	A Cosmetic Product Containing PEG Derivatives Induces Anti-PEG IgM Mainly through Stimulation of the Spleen Cells in Mice.	Molecular pharmaceutics	2026-Sep-0	42704128
476	ATG13 Promotes K63-Linked Polyubiquitination of MAVS via ASB1 to Restrict Influenza A Virus Replication.	Emerging microbes & infections	2026-Sep-0	42704283
477	Activating a novel cell death pathway to target PI-resistant multiple myeloma and enhance immunogenic cell death.	Apoptosis : an international journal on	2026-Sep-0	42704369
478	A PRK-armed oncolytic adenovirus drives calreticulin exposure for dendritic cell licensing to prime antitumor CD8 T cells and synergizes with anti-PD-1 or CAR-T therapy in colorec	Journal of gastroenterology	2026-Sep-0	42704427
479	uPAR Amplifies Macrophage Inflammation via NF- κ B Pathway to Promote Fibrotic Transition Following Acute Kidney Injury.	Antioxidants & redox signaling	2026-Sep-0	42704671
480	Cytokine release syndrome: Inflammatory signaling, panoptosis, and therapeutic perspectives.	Cytokine & growth factor reviews	2026-Sep-0	42727385

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481	A ROS-responsive platelet extracellular vesicle biomimetic nanosystem regulates CD36/Fyn-CXCL-NETosis pathway-mediated immune-inflammatory amplification in the treatment of transfusion	Redox biology	2026-Sep-0	42715911
482	Matching genomic evidence to claims about Mycobacterium avium subsp. paratuberculosis: Host association, host adaptation, mechanism, and virulence.	Comparative immunology, microbiology and	2026-Sep-0	42721863
483	Lactate-associated H3K18la upregulates RNF166 to promote immune evasion in hepatocellular carcinoma by remodeling c-Jun ubiquitination.	Apoptosis : an international journal on	2026-Sep-0	42701943
484	Acute leukemia therapy at a crossroads: from conventional chemotherapy to the era of precision medicine.	Biochemical pharmacology	2026-Sep-0	42702241
485	Fecal microbiota transplantation alleviates sepsis-associated encephalopathy by reshaping gut microbiota and metabolism.	Microbial pathogenesis	2026-Sep-0	42702263
486	The nociceptor-CGRP-lactate axis in cancer immune escape: linking neural signaling, immunometabolism, and immunotherapy resistance.	Pharmacological research	2026-Sep-0	42702340
487	A CD14-Targeting In Situ Hydrogel Directs Macrophage Reprogramming to Minimize Scar Formation.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-0	42702771
488	D4F-Functionalized Ceria Nanozyme-CasRx Platform Suppresses STING and Reprograms the Renal Immune Niche in Acute Kidney Injury.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-0	42702884
489	AHR-Responsive Carbon Dots Orchestrate Skin Wound Healing and Colonic Mucosal Repair via Treg-Mediated Macrophage Efferocytosis.	Advanced science (Weinheim, Baden-Wurtte	2026-Sep-0	42702920
490	CCL5 mRNA-enriched small extracellular vesicles from renal tubular epithelial cells enhance macrophage inflammatory responses in diabetic nephropathy.	Inflammation research : official journal	2026-Sep-0	42700225
491	Itaconate alleviates LPS-induced septic liver injury by regulating ROS-PAD4-mediated macrophages extracellular traps through Nrf2.	Inflammation research : official journal	2026-Sep-0	42700231
492	Depleting luminal cysteine with engineered bacteroides vulgatus alleviates experimental colitis by suppressing Th17 differentiation through an ATF6-dependent mechanism.	Inflammation research : official journal	2026-Sep-0	42700252
493	Selenomethionine attenuates heat stress-associated inflammatory responses and apoptosis in porcine alveolar macrophages.	Veterinary research communications	2026-Sep-0	42700324
494	Local Administration of Exendin-4 Ameliorates Wear-Particle-Induced Periprosthetic Osteolysis by Rebalancing Bone Remodeling.	Acta biomaterialia	2026-Sep-0	42700783
495	Artificial Intelligence-Driven Multi-Omics Analysis Reveals Hydroxytyrosol Targeting of the TXNIP-NLRP3 Inflammasome Axis in Traumatic Brain Injury.	European journal of pharmaceutical scien	2026-Sep-0	42700807
496	Remodeling the Host Immune Microenvironment in Carbapenem-Resistant Klebsiella pneumoniae: An Evidence-Graded Framework for Host-Directed Intervention.	International journal of antimicrobial a	2026-Sep-0	42700871
497	Metabolic convergence of diabetes and prostate cancer: from dysglycemia to tumor microenvironment reprogramming.	Mammalian genome : official journal of t	2026-Sep-0	42701157
498	The kallikrein-kinin system modulates CD4+ T cell function and contributes to T cell migration into the brain after stroke.	Journal of neuroinflammation	2026-Sep-0	42701194

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499	Alginate-encapsulated enzymes mitigate deoxynivalenol-induced hepatic mitochondrial dysfunction and glycolithocholic acid accumulation in piglets.	Journal of animal science and biotechnol	2026-Sep-0	42698087
500	Ribes fasciculatum Leaf Water Extract Enhances Macrophage Immune Responses via TLR4-Mediated JNK and NF- κ B Activation in RAW264.7 Cells.	Journal of microbiology and biotechnolog	2026-Sep-0	42717697
501	Targeting the myeloid immune checkpoint ILT3 (LILRB4) with small molecules enables reprogramming of suppressive tumor immunity.	European journal of medicinal chemistry	2026-Sep-0	42702174
502	Synovial short-lived plasma cells mediate adalimumab resistance in rheumatoid arthritis via MIF-CD74 axis-driven, partially TNF- α -independent inflammation.	Journal of autoimmunity	2026-Sep-0	42696910
503	Extracorporeal photopheresis: A comprehensive review from a transfusion medicine perspective.	Hematology, transfusion and cell therapy	2026-Sep-0	42696985
504	Vaping reorganizes the pulmonary macrophage landscape into multiple sex-dimorphic microenvironments.	Molecular immunology	2026-Sep-0	42697123
505	Antiviral responses of Aedes mosquitoes to Old World alphaviruses.	Acta tropica	2026-Sep-0	42697351
506	CD36 Influences Leukemia Progression in MLL-AF9-Driven AML by Modulating the Leukemia Immune Microenvironment.	Pharmacological research	2026-Sep-0	42697417
507	Therapy induced senescence promotes immunogenicity in acute myeloid Leukemia through reduced EZH2 activity.	Nature communications	2026-Sep-0	42697881
508	Innate immune sensors of inflammasomes and PANoptosomes: structural-mechanistic insights and therapeutic implications.	Cell research	2026-Sep-0	42693250
509	PLA2G7-Mediated Pro-Inflammatory Activation of Lipid-Associated Macrophages Drives Pulpitis.	International endodontic journal	2026-Sep-0	42693816
510	Inflammaging reshapes the immune ecosystem in IgG4-related dacryoadenitis and sialadenitis.	Rheumatology (Oxford, England)	2026-Sep-0	42693941
511	Cigarette Smoke and E-Cigarette Aerosol Extracts Induce Myelopoiesis and Suppress Inflammatory Cytokine Production.	Toxicological sciences : an official jou	2026-Sep-0	42693957
512	Immune Signatures Associated with Human Adrenocortical Hypertension.	European journal of endocrinology	2026-Sep-0	42695495
513	Unfolded protein response signaling promotes myeloid cell production and cooperates with oncogenic mutation.	Blood advances	2026-Sep-0	42696007
514	Mechanism of Kushen Tongguan Pill on benign prostatic hyperplasia: roles of TLR4/NF- κ B pathway and macrophage M1 polarization.	Journal of molecular histology	2026-Sep-0	42696233
515	Tissue mitochondrial activity dictates the macrophage pool size.	Science immunology	2026-Sep-0	42696609
516	Bioactive Microsurgery and CCL2: A Narrative Review of Immune Modulation Strategies for Peripheral Nerve Repair.	Annals of plastic surgery	2026-Sep-0	42696662
517	Fluorescent protein ticker tape (FPTT): Multiplexed recording of transcriptional dynamics in living cells and in vivo.	Science advances	2026-Sep-0	42685187
518	Targeting KRAS reprograms a Treg-dominant immunosuppressive microenvironment and sensitizes KRAS-mutant gastric adenocarcinoma to CTLA-4 immunotherapy.	Science China. Life sciences	2026-Sep-0	42714795

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519	T cell-derived CCL5 drives macrophage immunometabolic remodeling in chronic prostatitis via the CCR5-ERK-PKM2/HIF-1 α axis.	Redox biology	2026-Sep-0	42702152
520	In Vitro Wound Healing Evaluation of Zinc Particle-Embedded Nanofibrous Scaffolds through Protein Expression Profiling.	ACS applied bio materials	2026-Sep-0	42691495
521	Clinicopathologic and molecular features of primary effusion lymphoma and fluid overload-associated large B-cell lymphoma: A retrospective study.	Translational oncology	2026-Sep-0	42691510
522	Targeting interrelated NLRP3 and NF- κ β signaling pathways to develop enhanced tolerogenic dendritic cells: Promising prospect for autoimmune disorders.	International immunopharmacology	2026-Sep-0	42691528
523	Agent-based modeling of tumor microenvironment suppression reveals the dominant barriers to anti-tumor immunity.	Computers in biology and medicine	2026-Sep-0	42691757
524	Enteric glial serotonin signaling drives anti-tumor immunity in colorectal cancer.	Cell	2026-Sep-0	42691993
525	Aging microenvironment induces CD8+ T cell exhaustion by suppressing hepatic β -hydroxybutyrylate synthesis.	Cell metabolism	2026-Sep-0	42692017
526	Cyclo(Val-Pro) and cyclo(Phe-Phe) alleviate MASLD via distinct CCR2- and ADCY7-associated pathways.	Life sciences	2026-Sep-0	42692106
527	Interleukin-4-Loaded Lipid Nanoparticles Reprogram Adipose Tissue Immunity and Promote Adipocyte Browning for the Treatment of Obesity.	Acta biomaterialia	2026-Sep-0	42692230
528	The IL-9R/Arg1 pathway promotes polyamine metabolism in human airway macrophages.	The Journal of allergy and clinical immu	2026-Sep-0	42692272
529	Cadherin-26 Contributes to Intraepithelial Eosinophil and Neutrophil Infiltration in Chronic Rhinosinusitis with Nasal Polyps.	The Journal of allergy and clinical immu	2026-Sep-0	42692273
530	Spatial habitat radiomics predicts tertiary lymphoid structure status and identifies an IDO1+ migratory dendritic cell axis in breast cancer.	Journal for immunotherapy of cancer	2026-Sep-0	42692536
531	Antiviral innate immunity in myocarditis: mechanisms and emerging therapeutics.	Experimental & molecular medicine	2026-Sep-0	42693237
532	FFAR2 activation induces IL-22-dependent intestinal immune responses to suppress CNS autoimmunity.	EMBO molecular medicine	2026-Sep-0	42693313
533	Paeoniflorin attenuates experimental autoimmune encephalomyelitis in mice in association with enhanced Treg differentiation and activation of Raf/MEK1/2/ERK1/2/Egr-1 signaling.	Naunyn-Schmiedeberg's archives of pharma	2026-Sep-0	42687021
534	Redefining systemic sclerosis-associated pulmonary hypertension as an immune-mediated vasculopathy across the cardiopulmonary circulation.	Current opinion in rheumatology	2026-Sep-0	42687395
535	Strategic driving of the cancer-immunity cycle in HCC: roles of immune, molecular-targeted, and locoregional therapies.	Journal of liver cancer	2026-Sep-0	42687480
536	Role of DLL4 in Neutrophil Aging and Impaired Clearance in Sepsis.	Inflammation research : official journal	2026-Sep-0	42690422
537	Chimeric HLA Antibody Receptor (CHAR) T Cells to Specifically Eliminate HLA-DQ-Specific B Cells.	Journal of the American Society of Nephr	2026-Sep-0	42690918
538	Medial Prefrontal Cortex Modulation of the Peripheral Immune Response in Sepsis Via the Autonomic Nervous System.	Anesthesia and analgesia	2026-Sep-0	42690920

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539	Tumor-derived antioxidants suppress immunity by depriving T cells of reactive oxygen species.	Science (New York, N.Y.)	2026-Sep-0	42691162
540	Triple gene-knockout xenogeneic bone repair material achieves synergistic optimization of bone repair immunomicroenvironment and bone regeneration via antigen-immunity-inflammation	Biomaterials	2026-Sep-0	42702121
541	Copper complexes Cu1 triggers synergistic immunogenic cell death and pyroptosis for chemoimmunotherapy of triple-negative breast cancer.	Journal of inorganic biochemistry	2026-Sep-0	42697131
542	STAT3-mediated suppression of the pre-induction silencer Ets-2 in activated T helper cells.	Molecular biology reports	2026-Sep-0	42684610
543	Beyond Remission: Risk-Adapted Maintenance and Mechanism-Guided Salvage After CAR T-Cell Therapy for Multiple Myeloma.	Stem cell reviews and reports	2026-Sep-0	42684629
544	Porcine epidemic diarrhea virus infection promotes Peyer's patch immune induction and epithelial defense via single-cell transcriptional reprogramming.	Microbiology spectrum	2026-Sep-0	42684955
545	Rational Engineering of Notch1 Signaling to Boost the Proliferation of CD19-BB ζ CAR-T.	Blood	2026-Sep-0	42684989
546	Multimodal analysis of CD38 in T-cell Acute Lymphoblastic Leukemia Identifies Combinatorial Therapeutic Strategies.	Blood	2026-Sep-0	42685004
547	Tissue origins and immune correlates of viral rebound in SIV-infected rhesus macaques after ART discontinuation.	Science translational medicine	2026-Sep-0	42685152
548	Jagunal homolog 1 safeguards neutrophil immune function by preserving protein sialylation during differentiation.	Blood advances	2026-Sep-0	42685351
549	PTPN2 Deletion Enhances CAR-T Effector Function and CNS Trafficking in a Non-Human Primate Model.	Blood advances	2026-Sep-0	42685352
550	Spatial transcriptomics of primary and metastatic ALK-rearranged NSCLC reveals site-specific adaptations.	Current problems in cancer	2026-Sep-0	42685503
551	Dupilumab-Associated Mycosis Fungoides: Unmasked, Direct Effect, or a Lymphoid Reaction?	The American Journal of dermatopathology	2026-Sep-0	42685682
552	Adoptive MAIT cell therapy for liver cancer enhanced by multimodal modulation of immune receptors and checkpoints.	Med (New York, N.Y.)	2026-Sep-0	42685688
553	Spinal Cord Stimulation Attenuates Itch-Like Behavior and Dermatitis: Contribution of a Spinal Inhibitory Neuronal Ensemble and Associated Reductions in GRPR and Sympathetic Signal	Brain stimulation	2026-Sep-0	42685898
554	Methacrylated hyaluronic acid hydrogel enables CD44-mediated local berberine delivery to reprogram macrophage immunometabolism and promote alveolar bone repair in periodontitis.	International journal of biological macr	2026-Sep-0	42685946
555	Aerobic Exercise Reduces Macrophage Inflammation and Lipid Accumulation in Atherosclerosis via Extracellular Vesicle-miR-203a-3p and miR-133b-3p.	The American journal of pathology	2026-Sep-0	42685973
556	Targeting the PD-L1-induced PDK4/GLS metabolic axis overcomes anti-PD-1 resistance in non-small cell lung cancer.	Journal for immunotherapy of cancer	2026-Sep-0	42686373
557	GTPase RAB31 supports ANXA1-driven macrophage education through clathrin-mediated endocytosis to suppress antitumor immunity.	Journal for immunotherapy of cancer	2026-Sep-0	42686375

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558	Irradiation-Induced CD62L Shedding in Human Plasmacytoid Dendritic Cells Depends on ADAM17 and p38 MAPK.	Immunology	2026-Sep-0	42686427
559	Radiomics-Inferred Immune Programs Map Therapeutic Contexts in Glioblastoma.	Academic radiology	2026-Sep-0	42686490
560	The Ferroptosis-Immunity Axis in Diabetic Kidney Disease: Emerging Therapeutic Targets.	Antioxidants & redox signaling	2026-Sep-0	42686659
561	The long non-coding RNA-encoded microprotein MKKS3 drives colorectal cancer chemoresistance.	Experimental & molecular medicine	2026-Sep-0	42686984
562	The NLRP3 inflammasome at the crossroads of innate immune signaling and cell death.	Cellular & molecular immunology	2026-Sep-0	42687020
563	The cGAS-STING Pathway: A Double-Edged Regulator of Neuroinflammation and Myelin Regeneration.	Molecular neurobiology	2026-Sep-0	42687060
564	The Brucella effector protein BtpB facilitates STAT3 activation to regulate polarization in macrophages during infection.	Veterinary research	2026-Sep-0	42687195
565	Transcriptome Dynamics From Primary Gastric Cancer to Peritoneal Metastases: Translational Insights for Surgical Oncology.	Annals of surgery	2026-Sep-0	42681577
566	Luciferase-induced immune activation prevents orthotopic K7M2luc osteosarcoma establishment in BALB/c mice.	Radiology and oncology	2026-Sep-0	42704041
567	Vitamin C supplementation attenuates IBV-induced histopathological lesions and modulates innate immune-related gene expression in SPF chickens.	Comparative immunology, microbiology and	2026-Sep-0	42691980
568	Triple-costimulatory GD2-CAR T cells incorporating CD28, 4-1BB and CD27 mediate potent cytotoxicity and reduce exhaustion in solid tumour models.	Biomedicine & pharmacotherapy = Biom	2026-Sep-0	42679446
569	Intranasal probiotic administration attenuates allergic airway inflammation and is associated with immune-stromal changes in mice.	International immunopharmacology	2026-Sep-0	42679528
570	Targeting SGK1 mitigates synovial fibrosis via suppressing M1 polarization to alleviate osteoarthritis.	International immunopharmacology	2026-Sep-0	42679529
571	Reprogramming Autoimmune Immunity via Mitochondrial Quality Control: Mechanisms, Biomarkers, and Windows for Intervention.	International immunopharmacology	2026-Sep-0	42679531
572	Stearoyl-CoA desaturase 1 regulates antiviral innate immunity in zebrafish via PPAR α -IRF3 axis.	Fish & shellfish immunology	2026-Sep-0	42679914
573	TIL Therapy in Relapsed/Refractory Neuroblastoma: A Translational Roadmap from Immunobiology to Early-Phase Trials.	Critical reviews in oncology/hematology	2026-Sep-0	42679915
574	A ROS-Responsive Coordination Nanoplatfom Integrates Antibacterial Activity with STING-Activating Immunomodulation to Attenuate Periodontitis.	Acta biomaterialia	2026-Sep-0	42679979
575	High-definition spatial transcriptomics visualizes the cellular and molecular architecture underlying perineural invasion in localized prostate cancer.	Journal of hematology & oncology	2026-Sep-0	42681671
576	Multimodal Repair of Osteoporotic Fractures With an Exosome-ECM Integrated Hydrogel.	Advanced healthcare materials	2026-Sep-0	42681876
577	Neuromedin U 'innervation' reprograms myeloid immunosuppression in neuroendocrine prostate cancer.	Oncogene	2026-Sep-0	42675222

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578	Single-cell RNA sequencing uncovers m6A regulator-defined T-cell subpopulations and YTHDF1-HSP90AB1-MYC therapeutic axis in T-cell acute lymphoblastic leukemia.	Chinese medical journal	2026-Sep-0	42675534
579	Polystyrene Nanoplastics Disrupt Immune Cell Development and Suppress T Cell Activation via mTOR and ERK Signaling.	Biomolecules & therapeutics	2026-Sep-0	42676042
580	Maslinic Acid Alleviates Obesity-Associated Skeletal Muscle Atrophy and Adipose Tissue Dysfunction in Obese Mice.	Biomolecules & therapeutics	2026-Sep-0	42676043
581	Self-Feeding Living Materials Enabled by Cell Responsive Glycogen Nanoparticles as Metabolic Batteries.	Advanced materials (Deerfield Beach, Fla	2026-Sep-0	42676188
582	Inhibition of Programmed Cell Death-1 in Cytotoxic CD8+ T Cells Exacerbates Pressure Overload-Induced Cardiac Injury.	Circulation	2026-Sep-0	42677471
583	Type I IFN signaling shapes subset-specific monocyte fates in the injured myocardium.	The Journal of clinical investigation	2026-Sep-0	42677841
584	MSCs overexpressing FGF21 alleviate acetaminophen-induced acute liver injury by eliciting macrophage-mediated phagocytosis.	Hepatology communications	2026-Sep-0	42678243
585	Epigenetic Repression of Type I Interferon Signaling by RUNX2 Drives Immune Checkpoint Blockade Resistance in Osteosarcoma.	Cancer research	2026-Sep-0	42678247
586	Beyond the ceiling: A critical analysis of microRNA research in cutaneous T-cell lymphoma and a roadmap forward.	The Journal of investigative dermatology	2026-Sep-0	42678334
587	Species-specific iNOS expression distinguishes epithelial and myeloid IFN γ responses in tuberculosis.	American journal of respiratory cell and	2026-Sep-0	42678381
588	Solute Carrier Family 1 Member 5 (SLC1A5)-dependent glutamine transport regulates macrophage senescence and efferocytosis during liver regeneration.	Molecular biomedicine	2026-Sep-0	42678502
589	Substance P-NK1R signaling of keratinocytes initiates the skin inflammatory environment required for allergic contact dermatitis.	JCI insight	2026-Sep-0	42678742
590	Plasmodium falciparum subverts neutrophil function via host miR-451a loaded extracellular vesicles driving bacterial and fungal superinfection susceptibility.	PLoS pathogens	2026-Sep-0	42678991
591	Activation of cGAS-STING axis by CO@OMVs promote macrophage mitophagy for CIRI treatment.	APL bioengineering	2026-Sep	42808125
592	Serine protease inhibitor from Trichinella spiralis ameliorates diet-induced obesity and adipose tissue inflammation through TIM-3-dependent macrophage reprogramming.	PLoS pathogens	2026-Sep	42789571
593	Grass carp reovirus activates fish Ppp1r3g to suppress innate immunity and exacerbate hemorrhage via the 14-3-3 ζ /Itgb3 signaling axis.	PLoS pathogens	2026-Sep	42758706
594	Immunopathogenesis of Immune Checkpoint Inhibitor-Induced Myositis, Myocarditis and Myasthenia Gravis Overlap Syndrome: A Mechanistic Synthesis of a Mitochondrial Autoantigen Hypot	Cureus	2026-Sep	42707790
595	TRIM21 blocks DDX3X-driven stress granule formation during Mycobacterium tuberculosis infection via a non-canonical E3 ligase mechanism.	PLoS pathogens	2026-Sep	42709850

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596	Conservative Numerical Framework for Fractional Stochastic Delay Modeling of CSF-1/EGF Tumor-Macrophage Aggregation.	International journal for numerical meth	2026-Sep	42705872
597	Qingwen Baidu Decoction attenuates acute lung injury via macrophage exosomal miR-146a suppression of alveolar epithelial cell pyroptosis.	Journal of traditional and complementary	2026-Sep	42698462
598	Temporal impact of metritis and systemic antibiotics on immune cell function inferred from the blood leukocyte transcriptome.	JDS communications	2026-Sep	42698949
599	Dysregulated IL-2 signaling and T-cell subset shifts are associated with eosinophilic esophagitis activity.	Biochemistry and biophysics reports	2026-Sep	42701418
600	Single-Cell Transcriptome of Anaplastic Thyroid Cancer Reveals Immunosuppressive Tumor Microenvironment Remodeling.	Cancer medicine	2026-Sep	42702761
601	Activation of Anergic B Cells During Development of Autoimmunity.	Immunological reviews	2026-Sep	42702918
602	Resveratrol Inhibits Macrophage Glucose Metabolism Reprogramming and Inflammatory Activation to Delay COPD Progression Through the TLR4/HK2 Pathway.	Journal of cellular physiology	2026-Sep	42702958
603	Functional and Proteomic Profiles of CD3(+) Plasma-Derived Small Extracellular Vesicles Differentiate Cancer Patients From Healthy Donors.	European journal of immunology	2026-Sep	42703967
604	Chlorpyrifos exposure induces inflammatory and immune dysregulation: An integrative in silico and in vitro analysis.	Pesticide biochemistry and physiology	2026-Sep	42697644
605	Autoimmunity: Molecular Mechanisms, Biomarkers, and Therapeutic Opportunities.	MedComm	2026-Sep	42694375
606	Coordinated inflammatory macrophage and vascular smooth muscle cell remodeling signatures in human atherosclerosis: An integrative single-cell and bulk transcriptomic analysis.	Journal of cell communication and signal	2026-Sep	42695089
607	Fatty Acid-Binding Protein 5 Potentially Regulates the Proliferation and Metastasis of Uveal Melanoma Cells Through the PI3K/AKT/mTOR Signaling Pathway.	CNS neuroscience & therapeutics	2026-Sep	42695184
608	ROS-Dependent GSDMD Activation Drives Intestinal Pyroptosis in Neonatal Necrotizing Enterocolitis (NEC).	Cell biology international	2026-Sep	42689863
609	Autocrine Control of CD276 by SPARC in Liver Cancer and Its Contribution to Immune Escape and Resistance to Immunotherapy: Elucidating How SPARC Shapes the Tumor Microenvironment a	Journal of biochemical and molecular tox	2026-Sep	42647088
610	UTMD Suppresses CSF-1 to Drive Macrophage-Mediated Ferroptosis in Papillary Thyroid Carcinoma.	Cancer medicine	2026-Sep	42656085
611	Venetoclax for elderly patients with acute myeloid leukaemia unfit for intensive chemotherapy: Prospects, resistance mechanisms and management strategies.	Clinical and translational medicine	2026-Sep	42661469
612	Safety Evaluation of Tarlatamab in SCLC: A Systematic Review and Meta-Analysis.	JTO clinical and research reports	2026-Sep	42668666
613	The Significance of cGAS-STING Signaling in Response to Oncogenic Viruses.	Cell biochemistry and function	2026-Sep	42671026
614	Nanoplastic Particle Exposure Induces Toxicity and Amplifies Cellular Stress in THP-1 Macrophages: Insights on Molecular Pathways and Circulating Proteome Interaction.	Journal of biochemical and molecular tox	2026-Sep	42676063

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615	MicroRNA-driven regulation of immunosuppressive microenvironment in hepatocellular carcinoma.	Proceedings of the National Academy of S	2026-Oct-0	42804630
616	Nuclear cGAS inhibits stimulation-induced inflammatory gene transcription via HDAC1.	Proceedings of the National Academy of S	2026-Oct-0	42804645
617	Functional heterogeneity and plasticity in naïve CD8 T cells drive superior effector and memory responses.	The Journal of experimental medicine	2026-Oct-0	42671388
618	Angelica sinensis polysaccharide reduces macrophage FPR2 to regulate the hepatic inflammatory microenvironment and activate the PI3K/AKT signaling pathway to improve insulin resist	Cytotechnology	2026-Oct	42780410
619	Host immune dysregulation associated with high plasma EBV-DNA load in children and its potential association with secondary infection.	3 Biotech	2026-Oct	42694159
620	Eomesodermin in renal cell carcinoma: Epigenetic and immune crosstalk driving tumor progression (Review).	International journal of oncology	2026-Nov	42757465
621	KIF4A drives esophageal squamous cell carcinoma via Wnt/ β - catenin signaling and predicts poor prognosis.	Molecular medicine reports	2026-Nov	42725385
622	Interferon regulatory factors orchestrate CD8+ T cell function (Review).	International journal of molecular medic	2026-Nov	42725401
623	Immune regulatory networks and gut microbiota-associated targets in endometriosis: an integrative multi-omics and network analysis.	Open life sciences	2026-Jan	42713565
624	Chemerin - CMKLR1 signaling contributes to immune metabolic dysfunction in salt-sensitive hypertension.	Clinical and experimental hypertension (	2026-Dec-3	42802577
625	IL-15 trans-presentation at the innate-adaptive interface: mechanisms and translation in cancer immunotherapy.	Oncoimmunology	2026-Dec-3	42771543
626	Stage-specific ROMO1 in rheumatoid arthritis: predictive immune insights into the MIF pathway and HLA-DR/IL2RA axis via integrated GWAS, transcriptomic, single-cell, and spatial pr	Autoimmunity	2026-Dec-3	42700177
627	Unveiling the immune microenvironment in sinonasal intestinal type adenocarcinoma: new arguments for immunotherapy.	Oncoimmunology	2026-Dec-3	42689729
628	A phase II multi-institutional single arm trial evaluating TG4010 vaccine plus nivolumab in non-small cell lung cancer.	Oncoimmunology	2026-Dec-3	42684015
629	Fucosylated hemocyanin regulates ER stress to enhance shrimp antibacterial immunity.	Virulence	2026-Dec	42721271
630	Regulatory roles of pyroptosis-associated lncRnas in breast cancer progression and immune microenvironment.	Cell cycle (Georgetown, Tex.)	2026-Dec	42701903
631	Early inflammatory macrophage reprogramming by <i>Scedosporium apiospermum</i> determines fungal survival.	Virulence	2026-Dec	42683833
632	Artificial intelligence-assisted design of MAGE-A4 $\times$ CD16 T-cell receptor-like natural killer cell engagers.	mAbs	2026-Dec	42675026
633	Single-cell RNA sequencing uncovers an immunosuppressive program in PDAC mast cells: tumour-driven activation, proliferation, and association with Treg recruitment.	Annals of medicine	2026-Dec	42675914
634	Outer membrane vesicles from <i>Fusobacterium necrophorum</i> elicit protective immunity in mice and robust immune responses in sheep.	Virulence	2026-Dec	42678056

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635	[Aberrant activation mechanisms of the NOTCH signaling pathway in T lymphoblastic lymphoma: mechanisms and targeted therapeutic implications].	Zhejiang da xue xue bao. Yi xue ban = Jo	2026-Aug-3	42695206
636	Nilotinib attenuates NLRP3 inflammasome activation and GSDMD/NINJ1-mediated pyroptosis via modulation of NF- κ B signaling and enhancement of BAG3-dependent aggrephagy and ESCRT-III-	Journal of neuroimmunology	2026-Aug-3	42685373
637	IL20RB drives non-small cell lung cancer progression and immune evasion via K267 - dependent activation of JAK2 phosphorylation and STAT3 signaling.	Lung cancer (Amsterdam, Netherlands)	2026-Aug-3	42685527
638	The serine protease homolog Skanda modulates Toll-Phenoloxidase-mediated immunity in Drosophila.	Genetics	2026-Aug-3	42670589
639	CTLA-4 as a Double-Edged Sword in Colorectal Cancer: Molecular Insights into Immune Checkpoint Suppression and Therapeutic Targeting.	Gut and liver	2026-Aug-3	42670692
640	Engineered Cyanobacteria-Hydrogel Microecological System for Oxygen Reprogramming Synergizes Immunomodulation With Anabolism in Osteoarthritis Therapy.	Advanced science (Weinheim, Baden-Wurtte	2026-Aug-3	42671032
641	Long-Term Oncologic Outcomes of Neoadjuvant Tumor-Directed Immunotherapy (PROSTVAC) Before Radical Prostatectomy for Localized Prostate Cancer: A Secondary Analysis of a Neoadjuvan	The Prostate	2026-Aug-3	42671172
642	Pediatric and adult primary human airway epithelia exhibit similar rhinovirus C replication, innate responses, and expression of protein receptor.	Microbiology spectrum	2026-Aug-3	42671201
643	H2-O deficiency in B cells or dendritic cells drives retrovirus-neutralizing antibody responses.	Journal of virology	2026-Aug-3	42671555
644	Silencing SLC52A2 promotes tertiary lymphoid structure formation and inhibits IL-17 pathway to ameliorate melanoma progression.	Apoptosis : an international journal on	2026-Aug-3	42671664
645	A novel FLNA p.Pro2469Ser variant is associated with impaired T and NK cell function and immune dysregulation.	Immunologic research	2026-Aug-3	42671724
646	CD266+ myofibroblasts mediate resistance to immunochemotherapy through ECM stiffness in head and neck squamous cell carcinoma.	Cancer immunology research	2026-Aug-3	42671928
647	Nipah virus: an exceptionally virulent emerging zoonotic pathogen.	International journal of antimicrobial a	2026-Aug-3	42674244
648	Methylsulfonylmethane protects against lethal MRSA infection via binding to PIK3CB to increase macrophage phagocytic function and nitric oxide production.	Life sciences	2026-Aug-3	42674255
649	Combined Disruption of Multiple Cytokine Signaling Pathways Enables One-Step Anterograde Tracing with Vesicular Stomatitis Virus.	The Journal of neuroscience : the offici	2026-Aug-3	42674971
650	Transcriptomic analysis reveals members and expression characteristics of innate immunity genes in Chinese scorpion Mesobuthus martensii.	Scientific reports	2026-Aug-3	42675071
651	A CAR-T Tonic Signaling Code Predicts Anti-Tumor Efficacy in Diffuse Midline Glioma.	Neuro-oncology	2026-Aug-3	42675603

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652	Single-cell Atlas Reveals Myelopoietic Bias and Immunosuppressive Reprogramming in Metastatic Bone Marrow Across Cancers.	Genomics, proteomics & bioinformatic	2026-Aug-3	42675604
653	Complement receptor C3aR marks heterogeneous tumor-associated macrophage states associated with improved survival in IDH-wildtype glioblastoma.	Brain pathology (Zurich, Switzerland)	2026-Aug-3	42669809
654	Targeting CD300a Signaling With a Phosphatidylserine-Presenting Hydrogel Rescues Macrophage Dysfunction and Accelerates Diabetic Wound Healing.	Advanced healthcare materials	2026-Aug-3	42669840
655	Network Pharmacology and Experimental Validation of a Securidaca inappendiculata Xanthone Fraction Targeting Rheumatoid Arthritis via the PI3K/AKT/mTOR/HIF-1 α /GSK-3 β Axis.	Current computer-aided drug design	2026-Aug-2	42695296
656	Transcriptomic profiling of lineage transformation and actionable therapy opportunities in EGFR-mutant non-small cell lung cancer evolving to small cell lung cancer.	Journal of translational medicine	2026-Aug-2	42681635
657	Integrated InPETM drug analysis and transcriptomics to explore potential mechanisms and key active components of multiple traditional Chinese medicine prescriptions for psoriasis.	Computational biology and chemistry	2026-Aug-2	42673676
658	A Core-Shell Nanotherapeutic Platform Reprograms the Infected Wound Microenvironment through Dual Bactericidal and Immunomodulatory Actions for Accelerated Healing.	ACS applied materials & interfaces	2026-Aug-2	42675907
659	Stereospecific Peptide-Polysaccharide Conjugates Enable Noninvasive Therapy of Neovascular Age-Related Macular Degeneration.	Journal of the American Chemical Society	2026-Aug-2	42677513
660	Multiscale Synaptic Dynamics of T-Cell Antigen Recognition.	ACS nano	2026-Aug-2	42674441
661	Covariance Nonstationarity is Evident in Spatial Transcriptomics and Provides a New Categorization of Spatially Varying Genes	biorxiv preprint	2026-09-05	10.64898/2026.08.10.743911
662	The petal identity gene PhDEF has a major binding and regulatory action in the epidermis	biorxiv preprint	2026-09-05	10.64898/2025.12.10.691030
663	GLABRA2 regulates gene expression via its own EAR-motif mediated recruitment of the TPL/TPR corepressors	biorxiv preprint	2026-08-27	10.64898/2026.08.26.747311
664	The role of Fusobacterium nucleatum outer membrane vesicles in disease and related mechanisms: a scoping review of pathogenesis and potential therapeutic applications.	Journal of oral microbiology	2026	42807451
665	T-cell senescence and immunosenescence in chronic oral mucosal inflammatory diseases: mechanisms and therapeutic implications.	Journal of oral microbiology	2026	42807479
666	Macrophage Immunometabolism in Epicardial Adipose Tissue and Obesity-Related Atrial Fibrillation.	Journal of inflammation research	2026	42807583
667	Porphyromonas gingivalis promotes T-cell homing via the NF- κ B/CXCR3 signaling pathway in experimental autoimmune encephalomyelitis.	Journal of oral microbiology	2026	42807870
668	Human Umbilical Cord Mesenchymal Stem Cell-Derived Exosomes Attenuate IMQ-Induced Psoriasiform Dermatitis: A Preclinical Experimental Study of Exosomal miR-125b-5p/STAT3 Signaling.	Stem cells international	2026	42799387
669	Promising Roles of Selenium Nanoparticles in Anti-Tuberculosis Therapy: Opportunities and Challenges.	International journal of nanomedicine	2026	42801166

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670	Resmetirom attenuates atherosclerosis-associated dyslipidemia and vascular inflammation in high-fat diet-fed ApoE ^{-/-} mice.	PloS one	2026	42784584
671	Transcriptomic associations and biomarkers in ANCA - associated Glomerulonephritis and IgG4 - related Disease: A bioinformatics and machine learning study.	PloS one	2026	42784621
672	Beyond Structure: The Dynamic Role of the Extracellular Matrix Components in Immune Evasion.	Cancer communications (London, England)	2026	42787254
673	Research Trends in Neutrophil Extracellular Traps and Ischemia-Reperfusion Injury: A Dual-Database Bibliometric Analysis from 2013 to 2025.	Journal of inflammation research	2026	42781207
674	Stress Biology in Cancer: Neuroendocrine-Immune Mechanisms Linking Tumor Progression to Translational Interventions.	Cancer communications (London, England)	2026	42774376
675	Cxcl9 as a Marker of Adipose Tissue Changes Caused by Bariatric Surgery and Psoriasis.	Clinical, cosmetic and investigational d	2026	42774394
676	Identification of rs28362336 as a risk SNP for generalized myasthenia gravis and its impact on HCG27 regulation.	PloS one	2026	42776983
677	CD200-CD200R as a myeloid immune checkpoint in solid tumors: mechanisms, context-dependent functions, and therapeutic opportunities.	Frontiers in immunology	2026	42761652
678	Adipose-Derived Stem Cell Exosomes in Diabetic Wound Repair: Molecular Crosstalk, Bioengineering Strategies, and Translational Challenges.	Stem cells international	2026	42761902
679	The 5-Lipoxygenase Pathway in Ovarian Cancer: Mechanisms of Metastasis, Chemoresistance, and Translational Targeting.	International journal of women's health	2026	42763661
680	Dimethyl Sulfoxide Modulates T Cell-Mediated Immunity to Attenuate Influenza A Virus Infection.	Journal of inflammation research	2026	42763701
681	Acupoint Catgut Embedding Ameliorates Ulcerative Colitis in Association with Modulation of cGAS-STING Signaling and M1-Like/M2-Like Macrophage Markers.	Journal of inflammation research	2026	42763713
682	Anion-Dependent Layered Double Hydroxide-Reinforced Gelatin Methacryloyl Hydrogels for Osteoimmunomodulation and Bone Regeneration.	International journal of nanomedicine	2026	42756973
683	Identification of Galectin-9 (Gal-9) as a B7-H4 binding partner and characterization of their glycosylation-dependent interaction that modulates T cell signaling within a multi-lig	PloS one	2026	42758782
684	Persistent Airway Uric Acid is Associated with Epithelial Stress Signaling and Macrophage Inflammatory Activation in COPD.	Journal of inflammation research	2026	42751184
685	Lipid-Associated Macrophages in Obesity: Immunometabolic Programs and Emerging Therapeutic Implications-A Narrative Review.	Diabetes, metabolic syndrome and obesity	2026	42751295
686	L-Arginine supplementation improves the survival of virus-specific CD8 ⁺ T cells during in vitro expansion.	Immunotherapy advances	2026	42751545
687	Therapeutic Targeting of Viral Myocarditis with Natural Products and Herbal Medicines: From Immune-Inflammatory Mechanisms to Clinical Translation.	Journal of inflammation research	2026	42751609
688	Multilayered interplay between the cGAS-STING pathway and autophagy.	Autophagy reports	2026	42746608

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689	Acupuncture-Mediated Neuro-Immune Regulation in Musculoskeletal Pain: Mechanisms and Therapeutic Perspectives.	Journal of pain research	2026	42741723
690	ITGBL1 and RPN1 Mark a Fibrotic NP Subpopulation with Coupled Integrin Signaling and N-Glycosylation Programs in IVDD.	Journal of inflammation research	2026	42733874
691	Neutrophil Senescence Induced by Tumor-Derived HMGB1 Promotes Hepatocellular Carcinoma Progression through Neutrophil Extracellular Trap-Mediated Suppression of CD8+ T Cell Immunit	Cancer communications (London, England)	2026	42729464
692	Identification of COPZ1 as a Shared Candidate Ferroptosis-Related Hub Gene in Periodontitis and Inflammatory Bowel Disease.	Human mutation	2026	42732255
693	Photodynamically Sensitized Mitochondrial-Damage Amplification Strategy Promotes Pyroptosis-Induced Immunotherapy of Osteosarcoma.	Biomaterials research	2026	42719493
694	Matrine Alleviates Sepsis-Induced Acute Lung Injury by Reinforcing NQO1/SLC7A11/GPX4-Associated Anti-Ferroptotic Defenses and Attenuating NF- κ B-Driven Inflammation.	Drug design, development and therapy	2026	42719677
695	Sulfated Polysaccharides in Wound Healing: From Bioactive Materials Design to Regenerative Therapeutics.	International journal of nanomedicine	2026	42712889
696	Self-Assembled Cationic Phthalocyanine Nanophotosensitizer Drives Hypoxia-Tolerant Photodynamic Immunotherapy for HCC.	International journal of nanomedicine	2026	42712919
697	Regulation of macrophage polarization in chronic airway inflammatory diseases: immune interactions, metabolic reprogramming, and beyond.	Frontiers in immunology	2026	42712951
698	NEKfla: A Genetically Encoded F Ö rster Resonance Energy Transfer Biosensor for Live-Cell Monitoring of Early NIMA-Related Kinase 7-NLR Family Pyrin Domain Containing 3 Inflammasome	Biomaterials research	2026	42707313
699	Dual Graphene Oxide-Based Multigene Delivery for Cancer Elimination via Stromal and Immune Reprogramming.	International journal of biomaterials	2026	42707720
700	Macrophages Drive Ferroptosis Resistance after Radiotherapy.	Cancer communications (London, England)	2026	42698964
701	pH- and ROS-Responsive Polyurethane/Polylysine Nanomicelles Delivering Leonurine Attenuate Inflammation and Cartilage Damage in Experimental Rheumatoid Arthritis.	International journal of nanomedicine	2026	42699353
702	ZIF-8-Based Nanomedicine for Bone Regeneration: A Critical Appraisal of Preclinical Osteoimmunomodulatory Evidence and Translational Readiness.	International journal of nanomedicine	2026	42699780
703	Bioinformatics Screening and Preliminary Experimental Verification of Integrated Stress Response-Associated MYC and BAG3 in Chronic Obstructive Pulmonary Disease.	International journal of chronic obstruc	2026	42701775
704	Nanomedicine-Empowered CAR-T Therapy for Multiple Myeloma: Toward Programmable, Durable, and Precision Immunotherapy.	International journal of nanomedicine	2026	42703556

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705	Integrated Single-Cell and Spatial Transcriptomics Reveal SERPINE1 as a Key Link Between Macro_SPP1 Macrophages and Stromal Remodeling in Gastric Cancer.	BioFactors (Oxford, England)	2026	42698055
706	Recruited Monocyte-Derived Macrophages Drive T Cell Inflammation in Immune Checkpoint Inhibitor-Mediated Pneumonitis.	Cancer communications (London, England)	2026	42688372
707	Remodeling the Tumor Microenvironment: Mechanistic Insights and Translational Frontiers of TCM-Derived Bioactive Monomers.	Cancer management and research	2026	42688884
708	Surface Calcium Enrichment of Biogenic Hydroxyapatite Regulates Macrophage Inflammation via Toll-Like Receptor 4 Signaling.	Biomaterials research	2026	42682838
709	Transcriptomic Profiling Reveals NF- κ B-Associated Immune Regulatory Signatures Underlying the Regenerative Effects of Hypoxia-Preconditioned Tendon Stem Cell-Derived Extracellular	BioFactors (Oxford, England)	2026	42675601
710	Mechanism of SLC15A3 Regulating Macrophage Oxidative Stress in the Pathogenesis of Traumatic Tracheal Stenosis.	Journal of inflammation research	2026	42677262

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