科学论文结果呈现



汇报提纲

- 为什么作图
- 作怎样的图
- 如何作好图
- 四 怎么注释图

为什么作图

殿試舉人臣劉泰霖年三十歲直隸河間府府軍縣人由拔 貢生應光绪二十八年順天鄉試中式由舉人應光绪三

殿試謹將三代腳色開具於後 曾祖永生妹仕 祖昆妹仕 父魁書妹仕 十年會試中式茶應

皇上慎乃儉德而尤必廣關利源此不得不因時制宜者三也 政閥失其於官治兵任之要裕財正俗之方類能指陳利 皆扼要之論然臣調理財於今日節流不如開源之尤要 蓋自通商以來利源外盗雖百計節省而無收於貧開源 制舉諸科除越職言事之禁而後蘇軾蘇鞍對策極言時 賢良而後賈仲舒嚴安徐樂之徒孝集於關下宋仁宗復 義取匡時故负士有盡忠竭愚之志昔漢文帝除誹謗之 温帶之下百物皆宜則當講求農事人民四百兆善耐勞 之道在振與實業中國神皋沃壤幅員縱橫家原且地處 其所以浮之自而杜之約者公本其所以約之由而從之 法而後買山賈誼爭其致忠識之談武帝崇尚儒術部舉 臣對臣聞王者不各改過故盛世有直言極缺之科學者 苦而且心思聰敏中外交通以後関身须海之人類能之 權中國商業不與漏后日鉅抵制之道則宜擴充商欲國 造洋貨果其加意提倡不難日出新製則宜振與工藝飲 務如此則野無職土市無游民精華日呈然後利權可挽 西以商業之勝衰為國力之强弱輪帆交錯以爭海外利

ARTICLES

Mesenchymal and haematopoietic stem cells form a unique bone marrow niche

Simón Méndez-Ferrer^{1,2}†, Tatyana V. Michurina³, Francesca Ferraro⁴, Amin R. Mazloom⁵, Ben D. MacArthur⁵†, Sergio A. Lira¹, David T. Scadden⁴, Avi Ma'ayan⁵, Grigori N. Enikolopoy³ & Paul S. Frenette^{1,2,6}

The cellular constituents forming the haematopoietic stem cell (HSC) niche in the bone marrow are unclear, with studies implicating osteoblasts, endothelial and perivascular cells. Here we demonstrate that mesenchymal stem cells (MSCs), identified using nestin expression, constitute an essential HSC niche component. Nestin "MSCs contain all the bone-marrow colony-forming-unit fibroblastic activity and can be propagated as non-adherent 'mesenspheres' that can self-renew and expand in serial transplantations. Nestin "MSCs are spatially associated with HSCs and adrenergic nerve fibres, and highly express HSC maintenance genes. These genes, and others triggering osteoblastic differentiation, are selectively downregulated during enforced HSC mobilization or $\beta 3$ adrenoreceptor activation. Whereas parathormone administration doubles the number of bone marrow nestin 'cells and favours their osteoblastic differentiation, *in vivo* nestin 'cell depletion rapidly reduces HSC content in the bone marrow. Purified HSCs home near nestin "MSCs in the bone marrow of lethally irradiated mice, whereas *in vivo* nestin 'cell depletion significantly reduces bone marrow homing of haematopoietic progenitors. These results uncover an unprecedented partnership between two distinct somatic stem-cell types and are indicative of a unique niche in the bone marrow made of heterotypic stem-cell pairs.

The identity of the cells forming the HSC niche remains unclear. Previous studies have shown that osteolineage cells control the niche size¹⁻³ and HSCs have been found preferentially localized in the endosteal region^{3,6-9}. However, haematopoicsis can be sustained in extramedullary sites and selective osteoblast depletion^{10,2} or expansion¹³ does not acutely affect HSC numbers. HSCs have also been located preferentially in perivascular regions¹⁴, near reticular cells that express high levels of the chemokine CXCLI2 (also called SDF-1)¹³. However, the identity and function of these cells have not been clearly defined

The movement of HSCs may provide an insight into their niche because it is directly regulated by the microenvironment. HSC mobilization requires signals from the sympathetic nervous system (SNS) $^{\rm NeV}$, which under homeostasis lead to clock-controlled rhythmic oscillations of Cactl2 expression through the $\beta_{\rm h}$ -adrenegic receptor ($\beta_{\rm h}$ -AR, encoded by $Adrb3)^{\rm in}$. Sympathetic fibres in the bone marrow are associated with blood vessels and adventitial reticular cells connected by app junctions, thereby forming a structural network called the neuro-reticular complexe". Here we have studied the stromal elements involved in this complex is the stromal elements involved in this complex.

Nestin identifies rare SNS-innervated perivascular stromal cells

Through unrelated investigations, we have noted that bone marrow cells expressing the green fluorescent protein (GFP) under the regulatory elements of the nestin promoter** (hereafter referred to as Nes-6FF* cells) were relatively rare non-haematopoietic cells (4.0° 2.08* of the stromal CD45* population), representing a small subset of nucleated cells (0.08 ± 0.01% by fluorescence-activated cell sorting (FACS); 0.044 ± 0.001% by histology, Fig. 1a and Supplementary

Fig. 1). Nes-GFP+ cells also expressed the intermediate filament protein nestin (Fig. 1b and Supplementary Fig. 2) and were distinct from vascular endothelial cells because they did not express CD31 (also called PECAM) (Fig. 1c, d), CD34 or VE-cadherin (data not shown). However, they showed exclusively a perivascular distribution (Fig. 1d and Supplementary Fig. 3) in regions adjacent to the bone (Fig. 1e) or within the bone marrow parenchyma (Fig. 1f). Catecholaminergic nerve fibres were closely associated with Nes-GFP cells (Fig. 1e, f, red staining; Supplementary Fig. 4). Furthermore, Adrb3 expression was highly enriched in CD45 Nes-GFP cells (Fig. 1g). Cxcl12 expression was >50-fold higher in Nes-GFP+ than in CD45-Nes-GFP cells, tenfold higher than in primary osteoblasts and undetectable in osteoclasts (Fig. 1h). Expression of angiopoietin-1 was also several-fold higher in Nes-GFP+ cells than in CD45- Nes-GFPcells or mature osteoblasts (Supplementary Fig. 5). Therefore, these results indicated that Nes-GFP+ cells met the requirements (for example, innervated cell expressing Cxcl12)18 for a candidate stromal cell regulating steady-state HSC traffic.

Nestin+ cells co-localize with HSCs in the bone marrow

To evaluate the spatial relationships between Nes-GFP+ cells and HSCs, we immunostained femoral sections of Nes-GFp transgenic mice for haematopoietic lineage markers (anti-Ter119, Gr-1, CD3e, B220 and Mac-1), CD48 and CD150. In agreement with previous studies¹⁴. CD150*CD48*Lin*HSCs represented a very rare subset (~0.005%) of bone marrow nucleated cells. Despite the rarity of both HSCs and Nes-GFP* cells, the vast majority (88%; 37 out of 42) of CD150*CD48*Lin* cells were located within five cell diameters from Nes-GFP* cells, and most (60%; 25 out of 42) were directly adiacrent to

Department of Medicine, Mount Sinal School of Medicine, New York, 10029, U.S.A. "Department of Sone and Call Medicine, Mount Sinal School of Medicine, New York, New York 10029, U.S.A. "201d Spring Harbor Loberolary, Coll of Spring Harbor, New York 10129, U.S.A. "derelter for Repeatedly Medicine, Moust-School Robert Despite Harvard Medicine, Moust-School Robert Medicine, Mount-Sinal School Robert Medicine, New York 10029, U.S.A. "Buth Land David's Gottlewann Institute for School Robert Medicine, Mount-Sinal Robert Medicine, Mount

previously associated with parathormone administration^{1,3} could be due to expansion of nestin ⁵ MSCs rather than mature osteoblasts.

Expression and regulation of HSC maintenance genes

To gain more insight into the regulation of the HSC niche by G-CSF and the SNS, we analysed the expression of genes that regulate HSC maintenance and attraction in the bone marrows "(CxcH2, c-kit lipand, angiopoietin-1, interleukin-7, vascular cell adhesion molecule-1 and osteopontin) in mice treated with G-CSF or β-AR agonists. The expression of these genes was extremely high (close to or higher than Gapdh) in Nes-GFP' cells, and—with the exception of Angptl—50–700-fold higher than in the other bone marrow strond cells.

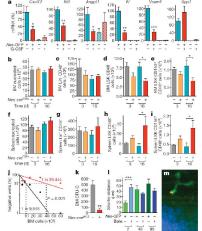


Figure 4 | Regulation of HSC maintenance by nestin+ MSCs. a. Expression and regulation of core HSC maintenance genes by CD45 Nes-GFP+ cells. Q-PCR for Cxcl12, stem cell factor/kit ligand (Kitl), angiopoietin-1 (Angpt1), interleukin-7 (II7), vascular cell adhesion molecule-1 (Vcam1) and osteopontin (Spp1) in CD45 Nes-GFP and CD45 Nes-GFP cells sorted from the bone marrow of mice injected with G-CSF or vehicle (n = 6). b-k, Bone marrow (BM) and spleen nucleated (b, f), Lin CD48 (c, g), CD48 LSK (d, h) and CD150 CD48 LSK (e, i) cells 3-16 days after tamoxifen and diphtheria toxin administration in Nes-cre ERT2/iDTR double and control iDTR single-transgenic mice (n = 6-12). j, Long-term cultureinitiating cell assay using limiting dilutions of bone marrow cells from NescreERT2/iDTR (red) or control iDTR mice (black) 1 month after tamoxifen and diphtheria toxin treatment; the percentage of culture dishes in each experimental group that failed to generate colony-forming units is plotted against the number of test bone marrow cells; bone marrow HSC frequencies are indicated; Pearson chi-squared test (n = 4-6). k-m, Nestin⁺ cells are required for the homing of haematopoietic stem and progenitor cells. k, Bone marrow homing of haematopoietic progenitors (CFU-C) in tamoxifen- and diphtheria-toxin-treated Nes-cre^{ERT2}/iDTR and control iDTR mice (n = 4-8). I, m, HSCs rapidly home near GFP cells in the bone marrow of Nes-Gfp transgenic mice. I, Average shorter distances between bone marrow HSCs, Nes-GFP⁺ cells and the bone surface 2 h (n = 16), 48 h (n = 30) and 96 h (n = 14) after HSC transplantation into lethally irradiated mice. m, Representative DyD-stained (red) HSC, Nes-GFP+ (green) cell and bone matrix (blue). $^{\circ}P < 0.05$, $^{**}P < 0.01$, $^{***}P < 0.001$; unpaired two-tailed t-test. All error bars indicate s.e.m.

Moreover, these genes, except osteopontin, were significantly and selectively downregulated in Nes-GFP cells by G-C8F (Fig. 4a) or β₂-AR agonists (Supplementary Fig. 14a). Very similar results were obtained when β-actin was used as a housekeeping gene instead of Gapdh (Supplementary Fig. 15). The expression of comexin-45 and connexin-43 was also 200–500-fold higher in Nes-GFP cells than in CD45⁻ Nes-GFP cells (Supplementary Fig. 14b), indicating the existence of electromechanical coupling involving nestin cells innervated by noradrenergic nerve terminals (MALS).

Nestin+ cells maintain HSCs in the bone marrow

To determine whether nestin + cells are required for HSC maintenance in the bone marrow, we performed selective depletion experiments by intercrossing a Cre-recombinase-inducible diphtheria toxin receptor line³⁹ (iDTR) with Nes-cre^{ERT2} mice. In adult Nes-cre^{ERT2}/iDTR mice. tamoxifen and diphtheria toxin treatment severely reduced bone marrow nestin ' cells, as estimated by mesensphere-forming efficiency $(92.9 \pm 1.8\% \text{ reduction}; n = 6)$. Whereas bone marrow cellularity and Lin CD48 cell numbers were not affected in Nes-cre ERT2/iDTR mice up to 2 weeks after treatment with diphtheria toxin (Fig. 4b, c), the more immature CD48 Lin Sca-1 c-kit (LSK) cells (Fig. 4d) and CD150+ CD48- LSK cells (Fig. 4e) were reduced by ~50%. This was associated with a proportional and selective increase in the number of LSK and CD150 CD48 LSK cells in the spleen (Fig. 4f-i), without detectable difference in cell cycle profile or apoptotic rates (Supplementary Fig. 16). Moreover, long-term culture-initiating cell (LT-CIC) assay using limiting dilutions of bone marrow cells obtained from Nes-cre fRT2/iDTR double transgenic or control iDTR mice 1 month after tamoxifen and diphtheria toxin treatment showed a ~4-fold reduction in bone marrow HSC activity after depletion of nestin+ cells (Fig. 4i). Thus, these studies indicate that HSCs/progenitors are reduced in the bone marrow after the depletion of nestin+ cells, owing at least in part to mobilization towards extramedullary

Nestin⁺ cells are required for HSC/progenitor homing

To evaluate further the impact of nestin* cells in progenitor traflicking to bone marrow, we assayed haematopoietic progenitor homing to the bone marrow, and found it to be markedly reduced (by 90%) in diphtheria-treated, lethally irradiated Nes-cré^{LR-1}JDTR mice (Fig. 4R.). To assess more specifically the homing of HSCs, we tracked by intravital microscopy highly purified, fluorescently labelled HSCs after transplantation into lethally irradiated Nes-Crift transpenie mice, as described. Calvarial Nes-GFP* cells were also perivascular (Supplementary Fig. 17), contained all colony-forming units-fibroblast (CFU-F) and sphere-forming cells (data not shown). Analyses of average shorter distances of homed HSCs rapidly home near Nes-GFP* cells in the bone surface revealed that HSCs rapidly home near Nes-GFP* cells in the bone marrow (Fig. 4l. m), indicating that bone marrow mestin* cells participate in directed HSC migration.

Discussion

These studies indicate that nestin 'cells represent bona fide niche cells in that they show a close physical association with HSCs, very high expression levels of core HSC maintenance genes, selective down-regulation of these genes by G-CSF or JB-AR stimulation, and significant reductions in bone marrow HSCs upon their deletion. In addition, they behave functionally as MSCs based on their exclusive CFU-F content, multilineage differentiation towards mesenchymal lineages, robust self-renewal in serial transplantation and in vivo contribution to osalechondral lineages under homeostasis. Furthermore, we provide evidence for a balanced regulation of haematopoietic and mesenchymal lineages at the stem-cell level where homeostatic neural (for example, SNS) and hormonal (for example, parathormone) mechanisms tightly regulate in tandem HSC maintenance and MSC proliferation and differentiation.



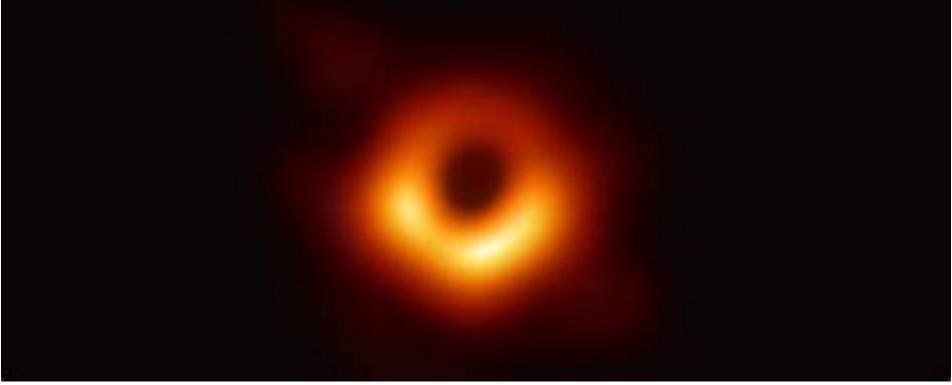


FIGURE QUALITY IS A PAPER'S "SUIT AND TIE."

ARTICLES NATURE NEUROSCIENCE

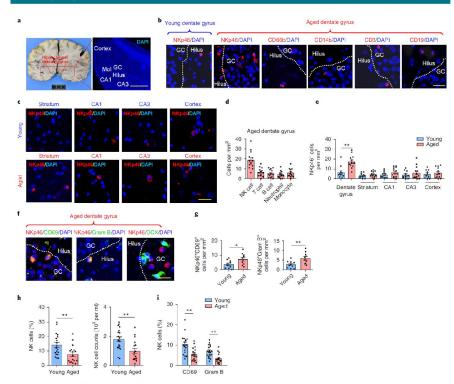


Fig. 1] Accumulation of NK cells in the dentate gyrus of normal aged human brains. a, Postmortem human brain itsue containing the hippocampal dentate gyrus region. Mol, molecular layer; GC, granule cells. b, Left: NK cells (NKp46*) in the dentate gyrus of a young (37 years old) human brain. Right: NK cells (NKp46*), neutrophils (CD66*), monocytes (CD14*), T cells (CD3*) and B cells (CD19*) in the dentate gyrus of an aged (74 years old) human brain. Dashed lines mark the boundaries between granule cell layer and hilus. c, NKp46* cells in the striatum of a young (37 years old) and an aged (74 years old) human brain. d, NK cells outnumber T cells, B cells, neutrophils and monocytes in the aged human dentate gyrus collaborate. The collaborate gyrus and striatum areas from young and aged human brain tissues. f, NK cells expressing CD69 or granzyme B (Gram B) in an aged human dentate gyrus (74 years old). NKp46* cells are in close proximity to DCX* cells. Dashed lines mark the boundaries between granule cell layer and hilus. g. Quantification of NK cells expressing CD69 or Gram B in the aged human dentate gyrus. In d, e and g, n=10 individuals (male: 5) in the young group (30.5±2.6 years); n=13 individuals (male: 7; female: 6) in the aged group (71.6±1.5 years). hi, Flow cytometry quantification of blood NK cells (0).8±1.7 years); n=17 individuals (male: 9; female: 8) in the aged group (73.5±1.6 years). In e, g has high in P<0.005; P<0.010 by two-tailed unparied Student's r-test, e, P=0.0005, t=4.11, d,t=21 g, left: P=0.001, t=2.38, d,t=18; right: P=0.0068, t=3.058, d,t=18. h, left: P=0.0089, t=2.777, d,t=3.058, d,t=18. h, left: P=0.0089, t=2.777, d,t=3.058, d,

gyrus. In contrast to the intensified NK cell responses in the aged brain, NK cell numbers and their expression of CD69 and granzyme B were reduced in the circulation of aged human individuals relative to young individuals (Fig. 1h.i and Supplementary Fig. 1a). These findings suggest that aging expands NK cells in the brain, which is converse to the contraction observed for NK cells in the periphery.

To further examine how aging affects NK cells in the brain versus the periphery, we enumerated NK cells within various organs from

young (3 months old) and aged (18 months old) mice. We found that NK cells accumulate in the aged mouse brain but not in peripheral organs (Fig. 2a,b). Consistent with our findings in the aged human brain, NK cells mainly accumulated in the murine dentate gyrus neurogenic niche during aging (Fig. 2c–f) and were in close proximity to DCX' dentate gyrus cells (Fig. 2f). In contrast, NK cells were sparse in dentate-gyrus-adjacent areas such as the striatum (Fig. 2d,e). Notably, aging predominantly expanded NK cells

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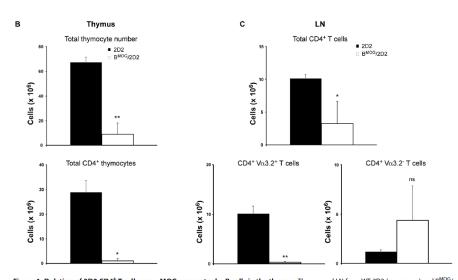


Figure 1. Deletion of 2D2 CD4* T cells upon MOG encounter by B cells in the thymus. Thymus and LN from WT 2D2 (upper row) and B^{MOG}/2D2 (lower row) mice were analyzed by FACS analysis for presence of CD8* and CD4* Va3.2* T cells, respectively (A). Genotypes and antibodies used are as indicated. Cell surface markers are shown as coordinates. Cells were gated on live lymphocytes. Numbers besides gates or in quadrants indicate percent positive cells in each. Total and CD4 single positive thymocyte numbers (B) and LN total CD4* as well as CD4* Va3.2* and CD4* Va3.2* T cell numbers (C) of 2D2 and B^{MOG}/2D2 mice were calculated. Values represent mean ± SEM. ns, not significant. doi:10.1371/journal.pone.0015372.g001

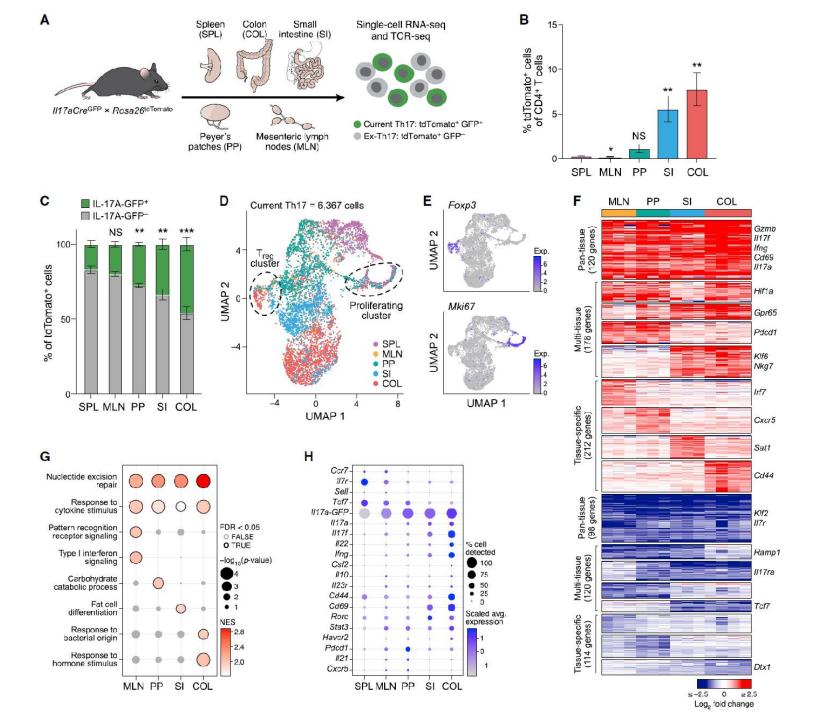
做怎样的图

作图原则

• 清晰, 准确, 简介, 美观

目标:

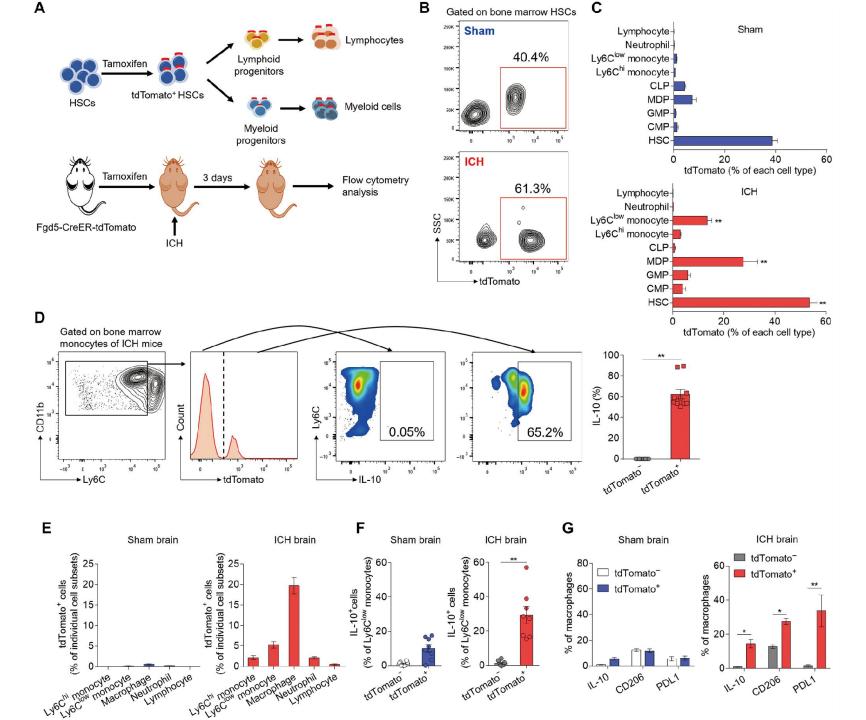
- ➤一看图就能知道文章基本内容,甚至不需要读 figure legends;
- >一看图就能知道研究数据质量。



如何做好图

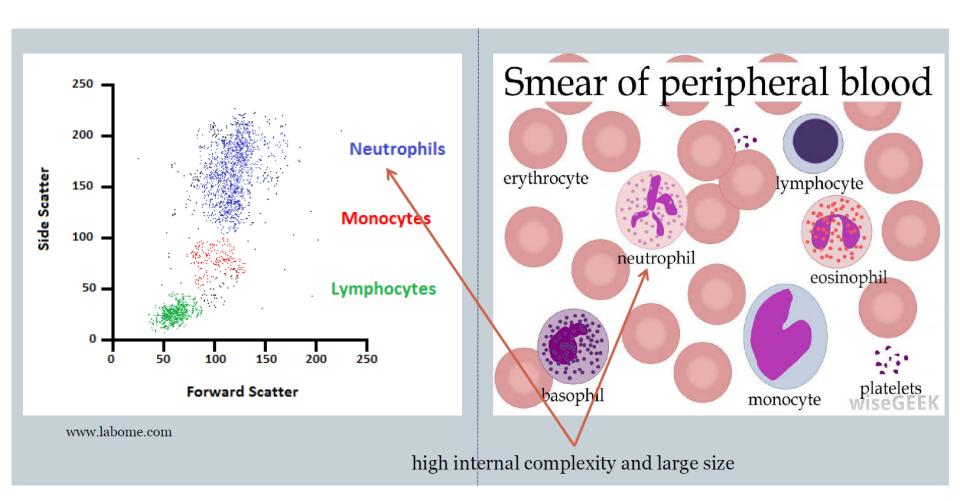
技巧篇

- 适当的文字标记,清楚,易理解;
- 合理的布局,排序——体现科学逻辑;
- 避免数据堆砌,展示关键信息;
- 合理使用颜色——防止单调,避免浮夸;
- 适当使用实验设计流程图。

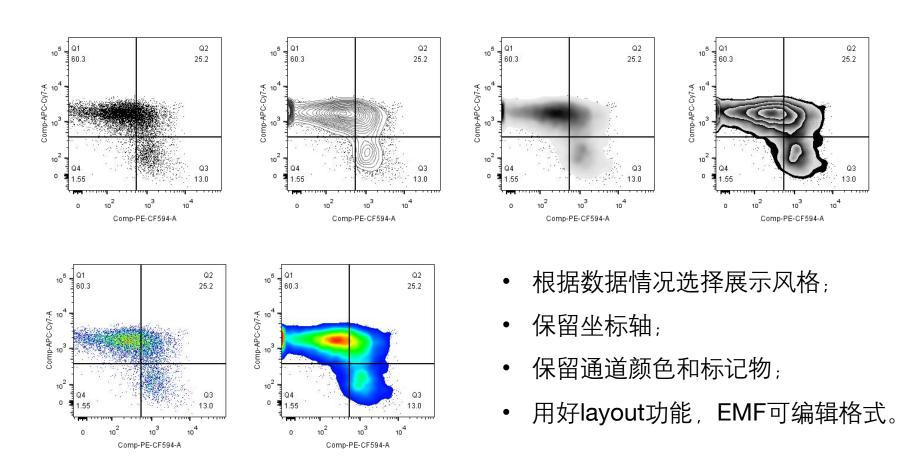


分类数据处理经验

流式细胞术



流式结果呈现

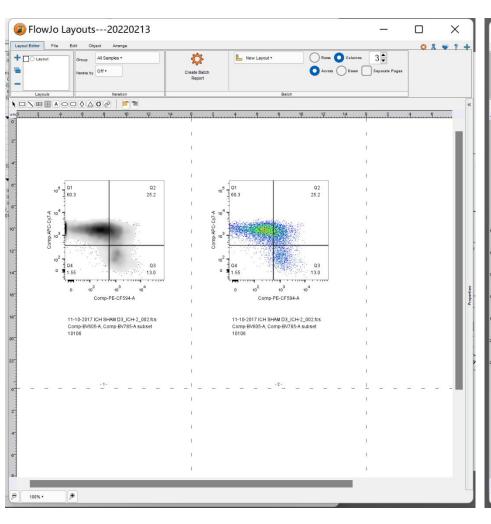


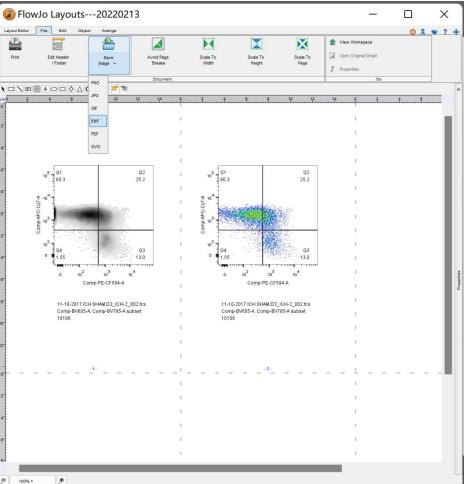
Q2

25.2

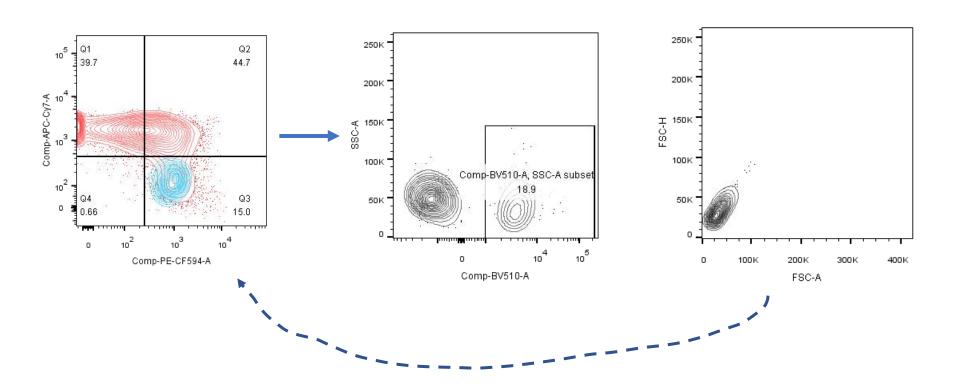
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FlowJo 数据传出

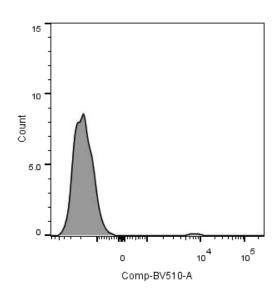


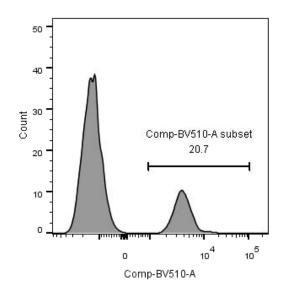


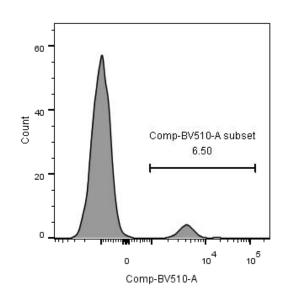
Back gating



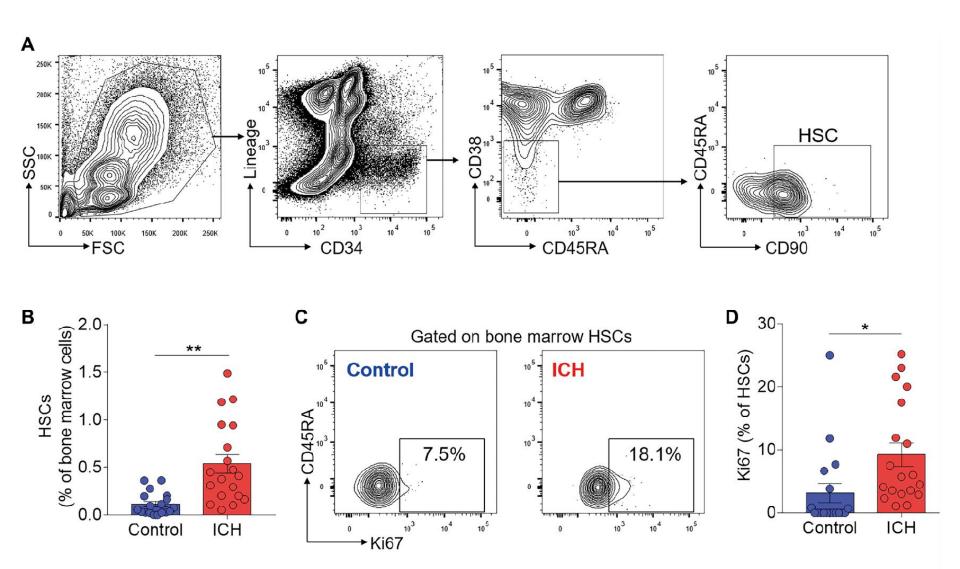
Flow Histogram



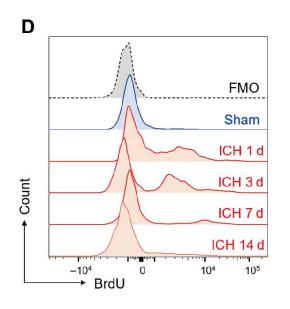


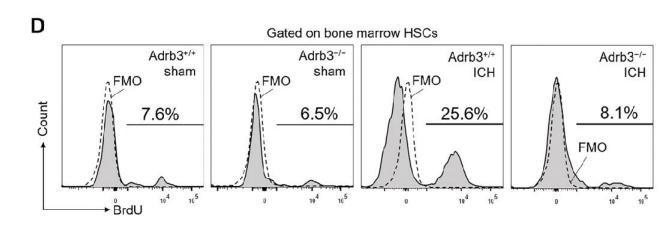


FMO or isotype control; 坐标轴,刻度;

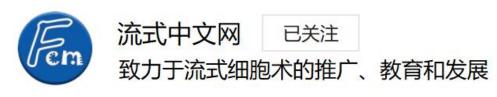


Figure重点: 展示gating strategy; 标记清楚

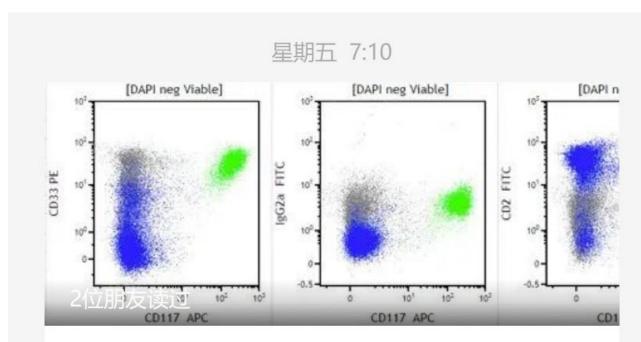




- 同时展示不同组数据;
- 注重阴性对照: FMO/isotype control



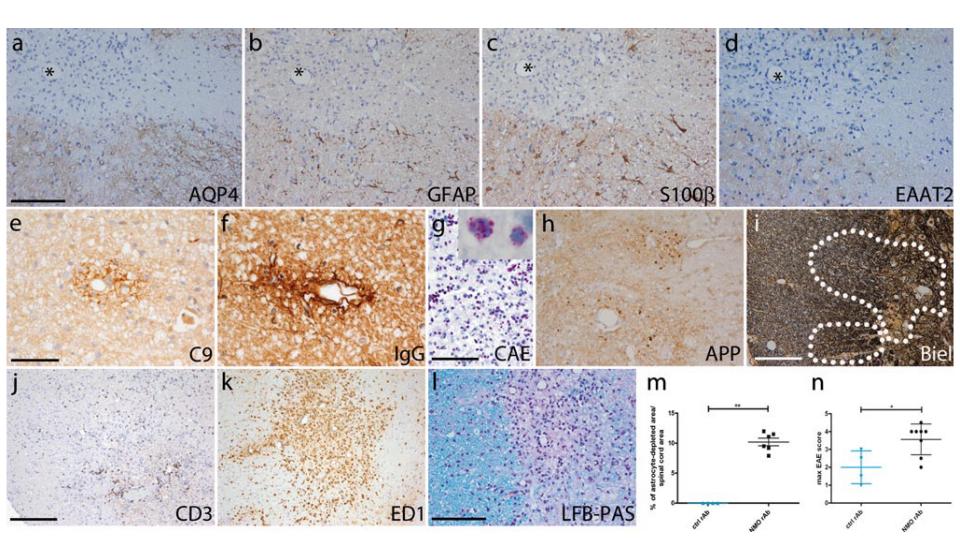
941篇原创内容 55位朋友关注



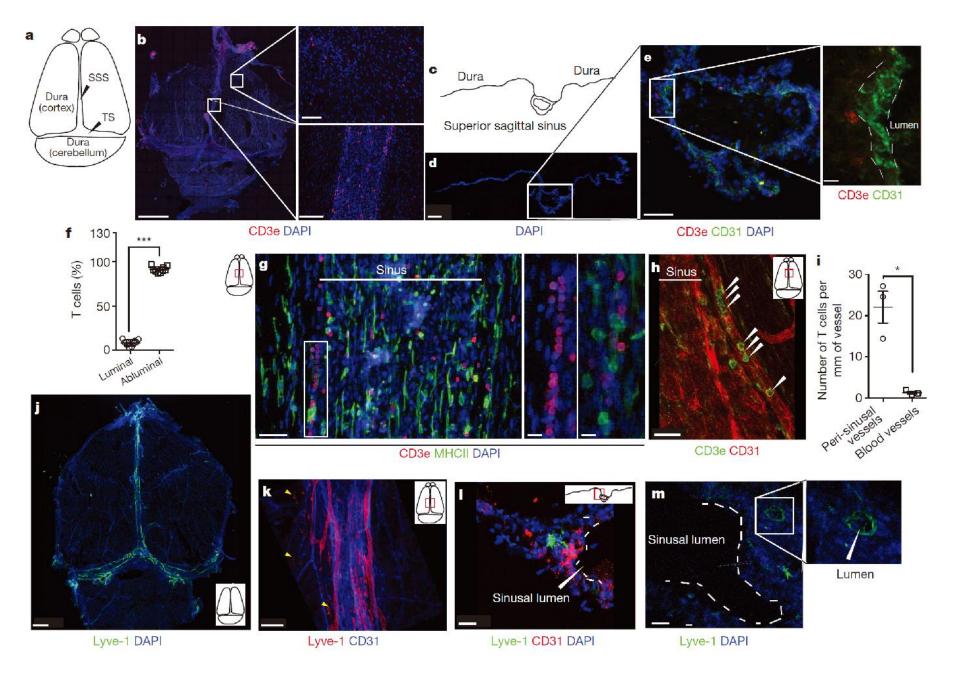
肥大细胞免疫表型,以及骨髓实例图

通常,肥大细胞在骨髓中很少见(<1%),在自身免疫和过敏反应时可增高。

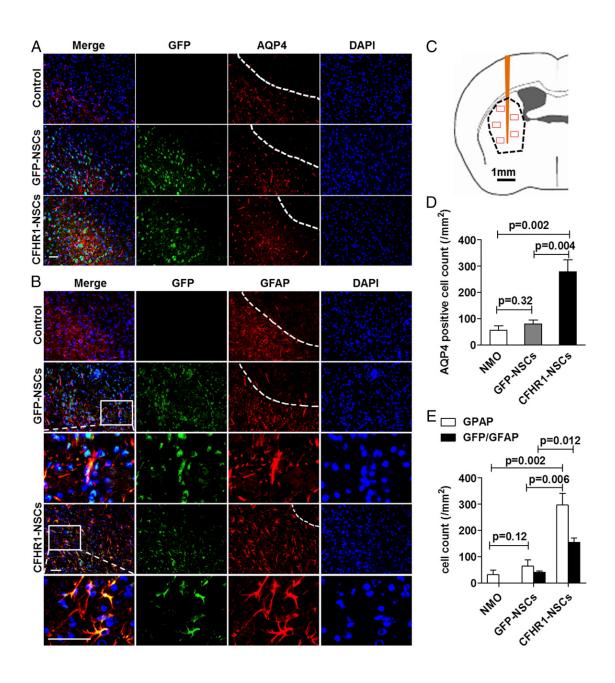
病理染色结果



逐一排列,描述病灶病理特征。



全景呈现+细节刻画

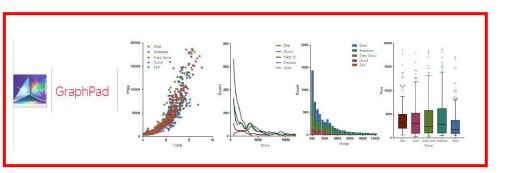


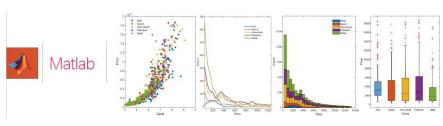
基于病理染色的统计

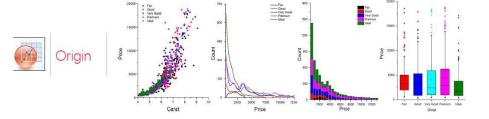
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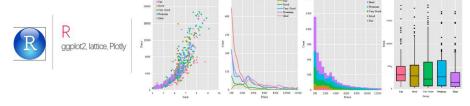
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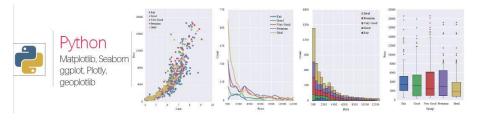
统计图

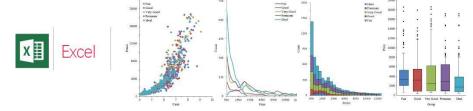


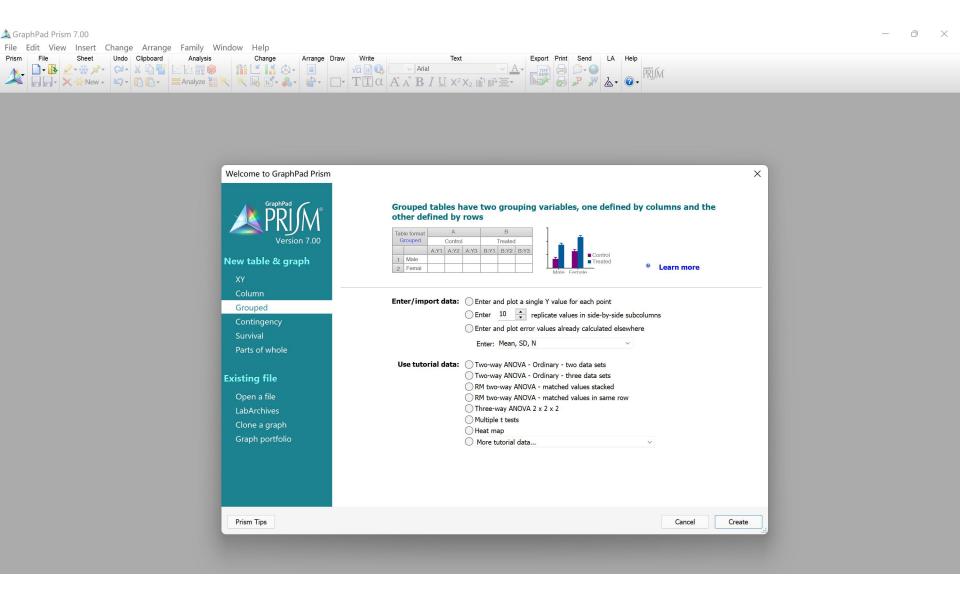




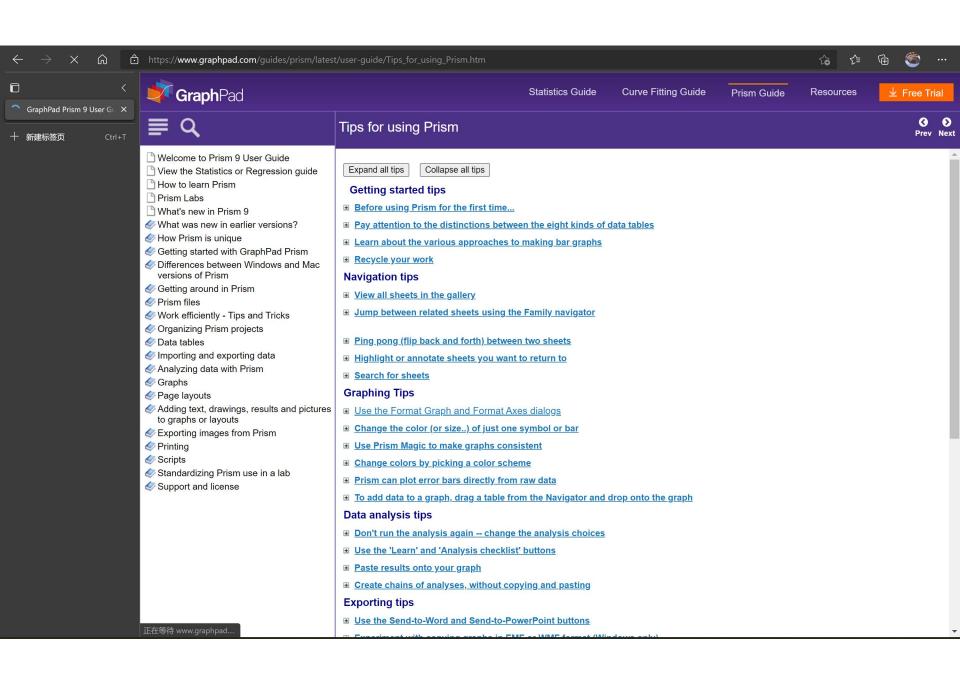


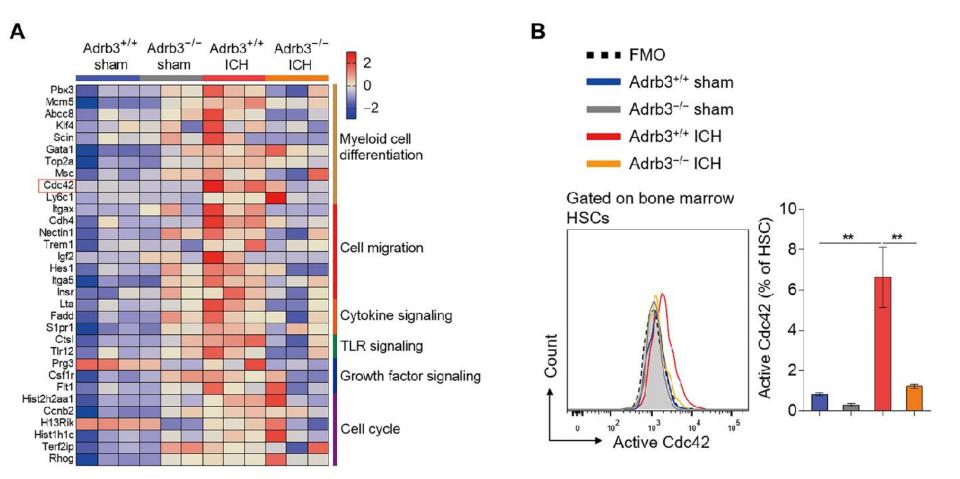






- 集生物统计,曲线拟合和科学绘图于一体,与PPT完美交互;
- 满足几乎所有小样本量统计和绘图。





Tips:

所有关于图本身的调整,在graphpad界面完成,不要在ppt里调整图表大小;

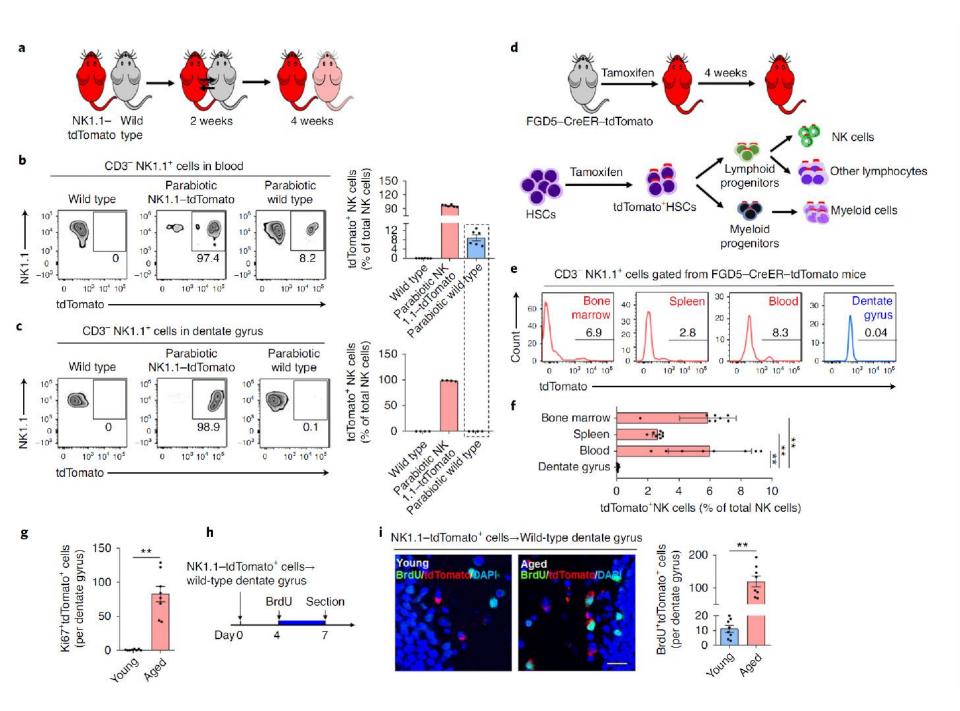
一般推荐: arial 14号, 为所有文字格式;

不要相信default格式,一般都很丑;

线条粗细, column, dot大小要适宜, 过粗显得臃肿。

图表整合

- 工具选择: PPT, AI;
- 一个主题一个图, 把不同的图按一条清晰的逻辑 线整合到一张图中;
- 作图的同时,要思考结果如何书写。



四 怎么注释图

Figure legend需要提供哪些信息

- · 标题: 整个figure 的结论: 简明扼要一句话;
- 主要研究对象,实验设计;
- •尽量只解释图反映的是什么实验的什么结果,避免直接描述结果和结论,防止先入为主;
- 结果在图里, 结论在读者心里;
- 如果有统计,提供统计学方法,样本量,显著性水平;
- 所有缩写的全称;
- •图,图注,结果,三者相辅相成,浑然一体,避免重复。

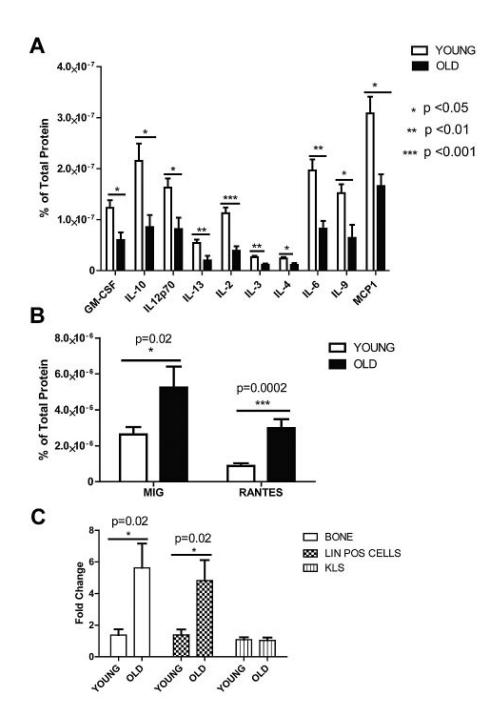


Figure 2. Cytometric bead array on aged and young BM and real-time PCR analysis for Rantes expression in old and young BM populations.

Cytokine levels in the BM were detected with a mouse cytokine bead array and FacsArray plate reader (both from BD Biosciences). We purchased each cytokine's cytometric bead array kit from BD Biosciences which can detect picogram levels of protein in serum or cell-culture supernatant (Flex set; BD Biosciences) and used in a multiplex manner.

- (A) Graph represents protein levels of cytokines either in the old or young BM supernatant normalized to total protein levels.
- (B) Graph represents Mig and Rantes protein levels either in the old or young BM supernatant (n 10 young, n 6 old).
- (C) Quantitave real-time PCR analysis of Rantes on mRNApurified from old or young bone cells, lineage-positive and hematopoietic stem-progenitor (KLS) cells (n 3 young, n 3 old). Error bars represent SEM.

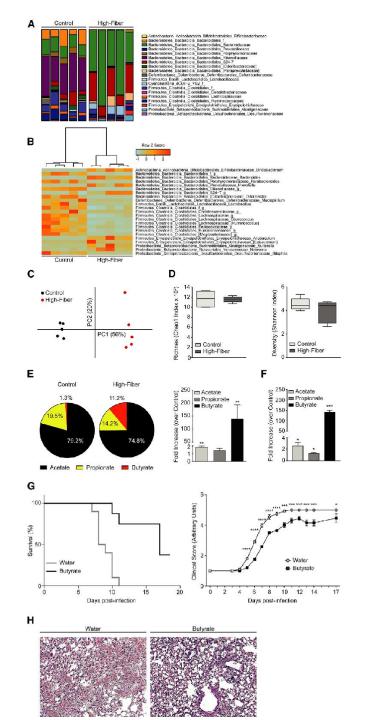


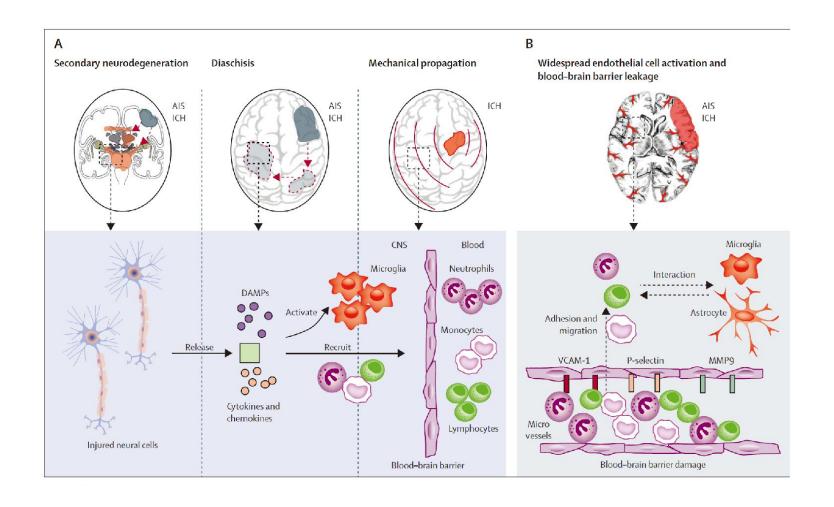
Figure 2. Dietary Fiber Protects against Influenza-Induced Pathology by Altering Gut Microbial Composition and Short-Chain Fatty Acid (SCFA) Levels

- (A) Stacked bar plots showing the relative abundance of bacterial operational taxonomic units (OTUs) at family level for each individual of naive control or HFD-fed mice.
- (B) Heatmap displaying main OTUs with significant differences in relative abundance among experimental groups with color-code representing row-scaled z-scores.
- (C) Principal coordinates analysis (PCoA) based on Bray-Curtis dissimilarity matrix among all samples (ANOSIM $R^2 = 0.27$, p = 0.00794).
- (D) Taxa richness (Chao1 index) and diversity (Shannon index) boxplots showing the median with min to max values.
- (E) Composition of the three main SCFAs (acetate, propionate, and butyrate) in the feces of control and HFD-fed mice and their fold-increase over the control group in dry weight.
- (F) Fold-increase of the three main SCFAs (acetate, propionate, and butyrate) in the serum of HFD-fed mice in comparison to the control group.
- (G) Survival (p = 0.0002) and clinical score of mice treated with butyrate during the course of high-dose infection.
- (H) Representative H&E-stained lung tissue from control mice or mice receiving butyrate in drinking water on day 7 after high-dose infection. Scale bars, 100 μm.

Results are representative of data generated in three independent experiments and are expressed as mean \pm SEM; n = 3–6 per group in (A)–(F); n = 8–10 per group in (G) and (H). Statistical significance was determined with Mantel-Cox test for the survival in (G) and with Student's t test (unpaired, two-tailed) in (E)–(G). *p = 0.05, **p = 0.01, ***p = 0.001, ****p = 0.0001.

Graphical Abstract

- 直观表现研究主题和结果;
- 宣传需要;
- 研究工作过程中多留意:
- 国自然标书申请的加分项(不要低估"颜控"reviewer比例)。



图不是重点:"箭头"是关键:平时多留意,用时有准备

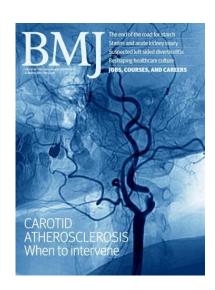
当你没有想法时,多读文章

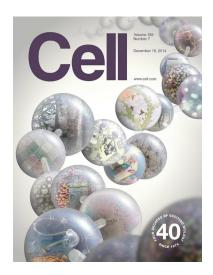
THE LANCET

"This study provides much-needed empirical evidence of the effectiveness of a universal schoolbased public health intervention by showing that the Youth Aware of Mental Health Programme can prevent suicide attempts and severe suicidal ideation, including the planning of suicide, in adolescents."









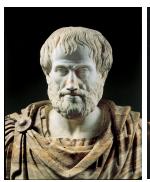


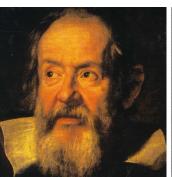


Mimic Surpass Create



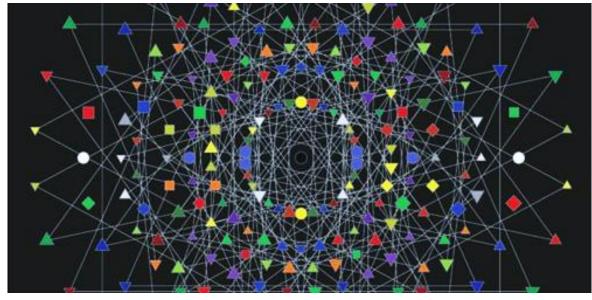
Classic vs Contemporary











Research needs training

仔细观察世界, 小心谨慎地描述