

中文核心期刊——临床医学/特种医学类核心期刊
中国科技核心期刊(中国科技论文统计源期刊)
RCCSE中国核心学术期刊
中国科学引文数据库收录源期刊
美国MEDLINE/Index Medicus(PubMed),EBSCO和《CA》收录源期刊
WHO西太平洋区医学索引(WPRIM)收录源期刊
第二届中国精品科技期刊

ISSN 1009-2137
CN 11-4423/R

中国实验血液学杂志

ZHONGGUO SHIYAN XUEYEXUE ZAZHI

2014年2月 第22卷 第1期

JOURNAL OF EXPERIMENTAL HEMATOLOGY

Volume 22
Number 1
February 2014

中国病理生理学会
CHINESE
ASSOCIATION OF
PATHOPHYSIOLOGY



目次

论著

白血病基础与临床

- 1 急性髓系白血病免疫分型特点及与疗效相关性分析
杨璐璐, 刘欣, 李庆, 朱小玉, 王兴兵, 朱薇波
- 6 高表达 CD123 的 CD34⁺ CD19⁺ 细胞为 Ph 染色体阳性急性淋巴细胞白血病复发预测的新标记
孔圆, 黄晓军, 郝乐, 秦亚溱, 江倩, 江浩, 刘艳荣
- 11 初诊急性髓系白血病 NPM1 突变患者临床特征的研究
魏辉, 张轶群, 林冬, 王迎, 周春林, 刘兵城, 李巍, 饶青, 王敏, 秘营昌, 王建祥
- 16 正常核型急性髓系白血病 CEBPA 基因突变患者临床特征及疗效研究
杜雅哲, 苏龙, 李薇, 喻萍, 谭业辉, 林海, 高素君
- 20 MicroRNA-17-92 簇对 K562 细胞生物学特性的影响及机制初探
杨爽, 孙慧燕, 肖凤君, 李庆芳, 许俊, 郭子宽, 王恒湘, 王立生
- 25 HL-60 细胞 Nucleostemin 表达下调对 PI3K/AKT/mTOR 通路相关分子的影响
贾宇, 魏园玉, 张帆, 李翌博, 刘帅, 岳保红
- 30 急性白血病死亡相关蛋白激酶基因表达及启动子区甲基化状态研究
牛一蒙, 王萍萍, 王玥, 王亚柱, 蔡大利, 李艳
- 35 MIP-1 α 诱导 Jurkat 细胞穿过人脑微血管内皮细胞单层能力分析
马怡然, 张爽, 孙莹, 刘邑阳, 宋倩, 郝一文
- 40 急性髓系白血病缓解期骨髓中“ALIP”样结构与纤维增生的相关性分析
章菁, 俞夜花, 吴振添, 翟元梅, 王慧, 刘四红, 陶英, 石军
- 44 微芯片电泳及毛细管电泳在筛查急性髓系白血病 FLT3-ITD 基因突变中的应用研究
冷馨, 李玲娣, 李金兰, 黄晓军, 阮国瑞
- 50 两种方法动态监测急性早幼粒细胞白血病微小残留病变的前瞻性比较研究
张岩, 田莉萍, 张莹, 段明辉, 秦晓明
- 54 采用 DCDF-FISH 早期监测 BCR/ABL(+) ALL 患者耐药
徐芬, 张长林, 栗树清, 闻芳, 孔蕴源, 万腊根
- 58 自体 CIK 细胞联合化疗治疗老年急性髓细胞白血病的临床研究
杨洋, 杨波, 蔡力力, 冉海红, 于睿莉, 迟小华, 朱宏丽, 李素霞, 刘洋, 王瑶, 韩为东, 姚善谦, 卢学春
- 64 PHA 诱导的 CIK 细胞的生物学特性及其对 K562 细胞杀伤活性影响的研究
黄谋珍, 白俊, 李峰松, 刘雅莉, 李敏敏, 李燕鸿, 张连生
- 69 化疗相关性高血糖对儿童急性淋巴细胞白血病预后的影响
王健, 张碧红, 薛红漫, 陈纯

- 73 人源化 Ph 染色体阳性急性淋巴细胞白血病小鼠模型的建立
孔圆,王亚哲,胡玥,黄晓军

淋巴瘤基础与临床

- 78 EBV 感染后 LMP-1 阳性霍奇金淋巴瘤患者临床特点及预后分析
平凌燕,丁宁,时云飞,孙莉,郑文,谢彦,王小沛,涂梅峰,
林宁晶,应志涛,刘卫平,邓丽娟,张晨,田乐,
冯丽霞,宋玉琴,朱军
- 85 236 例原发性结外淋巴瘤临床和病理分析
姜丽丽,岑溪南,欧晋平,董玉君,梁贻隐,邱志祥,王文生,许蔚林,李渊,
王茫桔,王莉红,尹玥,孙玉华,刘微,
王倩,王颖,任汉云
- 93 和厚朴酚联合吉西他滨协同抑制 Burkitt 淋巴瘤细胞增殖和促凋亡作用
张明宛,许晓军,范佳鑫,黄宇贤,叶永斌,王静,郭坤元
- 99 miR-16 在 T 淋巴瘤母细胞淋巴瘤/急性淋巴瘤母细胞白血病中表达
童来根,吴文忠,张云平,周志刚,陈亚峰,黄文娟,许欢,苏倩倩
- 104 原发扁桃体弥漫性大 B 细胞淋巴瘤 7 例临床分析
韩婷婷,王莉,范磊,许戟,李建勇,徐卫

多发性骨髓瘤

- 108 多发性骨髓瘤患者血清中 VEGF 水平的临床意义
李欣,魏秀珍,刘晋玮,耿传营,陈文明

骨髓增殖性疾病

- 112 高分辨熔解曲线法检测骨髓增殖性肿瘤患者 *JAK2V617F* 基因突变
陈海华,杨继龙,卢会芳,周炜均,姚飞,邓兰

造血干细胞移植

- 117 多指标危险积分在异基因造血干细胞移植预后预测中的意义
刘竞,许兰平,刘代红,刘开彦,王昱,陈育红,韩伟,陈欢,王峰蓉,张晓辉,赵翔宇,赵晓甦,
吕萌,常英军,黄晓军
- 125 HLA 高分辨分型在非亲缘双份脐血移植中的应用价值
杨硕,何军,李杨,徐超,鲍晓晶,袁晓妮,仇惠英,金正明,唐晓文,付琤琤,韩悦,
马骁,吴德沛,孙爱宁
- 131 阻断共刺激信号途径对造血干细胞移植后致敏受者免疫耐受排斥的影响
叶启翔,翁文俊,许吕宏,方建培

造血干/祖细胞

- 136 体外诱导人类诱导性多能干细胞分化为造血干/祖细胞的研究
张坤,黄可,李栋,潘光锦,汪运山
- 142 抗氧化剂在保护造血干细胞生物学功能方面的作用
郝一文,徐焕明,程大也,马怡然,金丽
- 148 不同的胞外基质对人胚胎干细胞分化为造血祖细胞的影响
朱明霞,王晶,克晓燕
- 154 外源性 VEGF 促小鼠造血干细胞动员
朱晓健,李翊,游泳,李青,曾辰,仲照东,邹萍

间充质干细胞

- 160 细胞间黏附分子 1 通过活化 MAPK 通路调节小鼠间充质干细胞向脂肪细胞分化
陈继德,徐芬芬,朱恒,李喜梅,唐博,刘元林,张毅
- 166 UC-MSc 移植对 CIA 大鼠免疫细胞亚群免疫功能的调节作用
顾健,林传明,顾蔚,蔡心珍,李邹,任敏敏,孙幸,倪军,沈连军,吴蔚,
何斌,孙梅,张育
- 171 骨实质间充质干细胞在小鼠肺与骨髓中的分布
王瑞平,乌仁娜,郭玉琴,张斌,陈虎
- 177 失血性贫血小鼠骨髓间充质干细胞向成骨成脂分化的变化
吴梦青,朱榕嘉,刘开彦
- 183 TLR2 和 TLR4 激动剂对人骨髓来源的间充质干细胞迁移能力的影响
颜宗海,王兴兵,汪健,李来玲,朱云霞
- 187 HLA-G 参与羊膜间充质干细胞抑制淋巴细胞增殖的机制研究
王佳萍,欧阳桂芳

输血医学

- 192 新等位基因 HLA-B*40:162 测序分析及确认
杜占慧,胡彬,冯智慧,焦淑贤,吴振军
- 195 *FUT1* 基因杂合或纯合突变致类孟买血型形成研究
张进萍,郑妍,孙冬妮
- 199 血小板抗原基因分型与配型在血小板输注中的应用
刘丙现,刘雨佳,高广平,王丹,周锐华,马婧,张彦,于秀清,郑华
- 204 体外循环冠脉搭桥患者围术期输红细胞量的评估及其对术后肺部并发症的影响分析
魏超,庄远,陈麟凤,李卉,于洋,朱立国,
席朝运,潘纪春,汪德清

综述

- 209 可视性观测造血干细胞归巢的研究进展
吴梦瑶,陈彤
- 213 多能性干细胞向红细胞定向诱导分化的研究进展
刘森泉,张丽飞,王晔博,黄河
- 219 循环 microRNA 在恶性血液病中的研究进展
曲莹,何海燕,侯健
- 223 胺类神经递质对巨核细胞造血调控及血小板功能的作用
舒慧英,李晓静,于洁,叶洁瑜,杨默
- 229 白血病相关骨髓纤维异常的研究进展
翟元梅,石军
- 232 泛素蛋白酶体途径在急性早幼粒细胞白血病中作用的研究进展
刘婷婷,吴迪炯,叶宝东,邵科钉,孙洁,周郁鸿
- 237 β 地中海贫血的珠蛋白基因诱导疗法
卢焯明

IV

- 241 MyD88 L265P 突变与 B 细胞肿瘤
陈海敏, 侯健
- 245 Ibrutinib 治疗慢性淋巴细胞白血病及其他 B 细胞恶性肿瘤
王曼, 徐卫, 李建勇
- 250 滤泡性淋巴瘤的治疗进展
刘祥祥, 王丽娜, 杨伟林, 席亚明
- 255 MicroRNA 在慢性淋巴细胞白血病中的研究进展
耿凌云, 王欣
- 259 淀粉样变性分型的研究进展
孙维绎, 李剑

读者 · 作者 · 编者

- 39 2014《中国实验血液学杂志》征订启事
- 扉 1 《中国实验血液学杂志》第七届编辑委员会
- 扉 2 《中国实验血液学杂志》荣获多家权威机构公布的“核心期刊”称号和文献数据库收录
- 扉 2 《中国实验血液学杂志》投稿简则
- 封三 在 PubMed, MEDLINE 中搜索时, 可用国际刊号 1009 - 2137 作为《中国实验血液学杂志》刊名输入

JOURNAL OF EXPERIMENTAL HEMATOLOGY

(Established in April, 1993)

Bimonthly Volume 22 Number 1

February, 2014

Contents

ORIGINAL ARTICLES

Leukemia Basis and Clinic

- 1 **Immunophenotyping Characteristics of AML and Their Correlation with the Curative Effects**
YANG Lu-Lu, LIU Xin, LI Qing, ZHU Xiao-Yu, WANG Xing-Bing, ZHU Wei-Bo
- 6 **CD34⁺ CD19⁺ Cells with CD123 Overexpression Are A Novel Prognostic Marker in Ph Chromosome-positive Acute Lymphoblastic Leukemia**
KONG Yuan, HUANG Xiao-Jun, HAO Le, QIN Ya-Zhen, JIANG Qian, JIANG Hao, LIU Yan-Rong
- 11 **Clinical Characteristics of Newly Diagnosed Acute Myeloid Leukemia Patients with NPM1 Mutation**
WEI Hui, ZHANG Yi-Qun, LIN Dong, WANG-Ying, ZHOU Chun-Lin, LIU Bing-Cheng, LI Wei, RAO Qing, WANG-Min, MI Ying-Chang, WANG Jian-Xiang
- 16 **Clinical Characteristics and Therapeutic Efficacy of Normal Karyotype AML Patients with CEBPA Mutation**
DU Ya-Zhe, SU Long, LI Wei, YU Ping, TAN Ye-Hui, LIN Hai, GAO Su-Jun
- 20 **Effect of MicroRNA-17-92 Cluster on the Biological Characteristics of K562 Cells and Its Mechanisms**
YANG Shuang, SUN Hui-Yan, XIAO Feng-Jun, LI Qing-Fang, XU Jun, GUO Zi-Kuan, WANG Heng-Xiang, WANG Li-Sheng
- 25 **Down-Regulatory Effect of Nucleostemin Expression on Signal Molecule of PI3K/AKT/mTOR Pathway in HL-60 Cells**
JIA Yu, WEI Yuan-Yu, ZHANG Fan, LI Zhao-Bo, LIU Shuai, YUE Bao-Hong
- 30 **Expression of Death-associated Protein Kinase Gene and Methylation Status of Promoter Region in Acute Leukimia**
NIU Yi-Meng, WANG Ping-Ping, WANG Yue, WANG Ya-Zhu, CAI Da-li, LI Yan
- 35 **MIP-1 α Promotes the Migration Ability of Jurkat Cell through Human Brain Microvascular Endothelial Cell Monolayer**
MA Yi-Ran, ZHANG Shuang, SUN Ying, LIU Yi-Yang, SONG Qian, HAO Yi-Wen
- 40 **Correlation between ALIP-like Cluster and Fibrous Proliferation in Bone Marrow of Patients with Acute Myeloid Leukemia in CR phase**
ZHANG Jing, YU Ye-Hua, WU Zhen-Tian, ZHAI Yuan-Mei, WANG Hui, LIU Si-Hong, TAO Ying, SHI Jun
- 44 **Applications of Microchip Electrophoresis and Capillary Electrophoresis for Screening FLT3-ITD Gene Mutation in Acute Myeloid Leukemia**
LENG Xin, LI Ling-Di, LI Jin-Lan, HUANG Xiao-Jun, RUAN Guo-Rui
- 50 **Prospective Study on Comparing Two Methods for Dynamic Monitoring of Minimal Residual Disease in Acute Promyelocytic Leukemia**
ZHANG Yan, TIAN Li-Ping, ZHANG Ying, DUAN Ming-Huan, QIN Xiao-Ming
- 54 **Early Monitoring Drug-Resistance of Patients with BCR/ABL(+) ALL by DCDF-FISH**
XU Fen, ZHANG Zhang-Lin, LUAN Shu-Qing, WEN Fang, KONG Yun-Yuan, WAN La-Gen
- 58 **Clinical Study of Autologous Cytokine Induced Killer Cells Combined with Chemotherapy for Elderly Patients with Acute Myeloid Leukemia**
YANG Yang, YANG Bo, CAI Li-Li, RAN Hai-Hong, YU Rui-Li, CHI Xiao-Hua, ZHU Hong-Li, LI Su-Xia, LIU Yang, WANG Yao, HAN Wei-Dong, YAO Shan-Qian, LU Xue-Chun

- 64 **Biological Characteristics of PHA-induced CIK Cells and Its Killing Activity to K562 Cells**
 HUANG Mou-Zhen, BAI Jun, LI Feng-Song, LIU Ya-Li, LI Min-Min,
 LI Yan-Hong, ZHANG Lian-Sheng
- 69 **Hyperglycemia During Chemotherapy Influences the Prognosis of Children with Acute Lymphocytic Leukemia**
 WANG Jian, ZHANG Bi-Hong, XUE Hong-Man, CHEN Chun
- 73 **Establishment of Mouse Model with Humanized Philadelphia Chromosome-positive Acute Lymphoblastic Leukemia**
 KONG Yuan, WANG Ya-Zhe, HU Yue, HUANG Xiao-Jun

Lymphoma Basis and Clinic

- 78 **Clinical Characteristics and Prognosis Analysis of Patients with LMP-1 Positive Hodgkin's Lymphoma after EBV Infection**
 PING Ling-Yan, DING Ning, SHI Yun-Fei, SUN Lin, ZHENG Wen, XIE Yan, WANG Xiao-Pei, TU Mei-Feng,
 LIN Ning-Jing, YING Zhi-Tao, LIU Wei-Ping, DENG Li-Juan, ZHAN Chen, TIAN Le,
 FENG Li-Xia, SONG Yu-Qing, ZHU Jun
- 85 **Clinical and Pathological Analysis of 236 Patients with Primary Extranodal Lymphoma**
 LOU Li-Li, CEN Xi-Nan, OU Jin-Ping, DONG Yu-Jun, LIANG Ze-Yin, QIU Zhi-Xiang, WANG Wen-Sheng,
 XU Wei-Lin, LI Yuan, WANG Mang-Ju, WANG Li-Hong, YIN Yue, SUN Yu-Hua,
 LIU Wei, WANG Qian, WANG Ying, REN Han-Yun
- 93 **Honokiol combined with Gemcitabine Synergistically Inhibits the Proliferation of Human Burkitt Lymphoma Cells and Induces their Apoptosis**
 ZHANG Ming-Wan, XU Xiao-Jun, FAN Jia-Xin, HUNG Yu-Xian, YE Yong-Bin, WANG Jing, GUO Kun-Yuan
- 99 **Expression of miR-16 in Patients with T Lymphoblastic lymphoma/Acute Lymphoblastic Leukemia**
 TONG Lai-Gen, WU Wen-Zhong, ZHANG Yun-Ping, ZHOU Zhi-Gang, CHEN Ya-Feng,
 HUANG Wen-Juan, XU Huan, SU Qian-Qian
- 104 **Clinical Pathological Analysis of 7 cases of Primary Tonsil Diffuse Large B Cell Lymphoma**
 HAN Ting-Ting, WANG Li, FAN Lei, XU Ji, LI Jian-Yong, XU Wei

Multiple Myeloma

- 108 **Clinical Significance of Serum Vascular Endothelial Growth Factor in Patients with Multiple Myeloma**
 LI Xin, WEI Xiu-Zhen, LIU Jin-Wei, GENG Chuan-Ying, CHEN Wen-Ming

Myeloproliferative Diseases

- 112 **High Resolution Melting Analysis for Detecting of JAK2V617F Mutation in Patients with Myeloproliferative Neoplasms**
 CHEN Hai-Hua, YANG Ji-Long, LU Hui-Fang, ZHOU Wei-Jun, YAO Fei, DENG Lan

Hematopoietic Stem Cell Transplantation

- 117 **A New Multi-factor Risk Score System for Predicting the Outcome after Allogenic Hematopoietic Stem Cell Transplantation**
 LIU Jing, XU Lan-Ping, LIU Dai-Hong, LIU Kai-Yan, WANG Yu, CHEN Yu-Hong, HAN Wei, CHEN Huan,
 WANG Feng-Rong, ZHANG Xiao-Hui, ZHAO Xiang-Yu, ZHAO Xiao-Su, LYU Meng,
 CHANG Ying-Jun, HUANG Xiao-Jun
- 125 **Application of High Resolution HLA Typing in Unrelated Umbilical Cord Blood Transplantation**
 YANG Shuo, HE Jun, LI YANG, XU Chao, BAO Xiao-Jing, YUAN Xiao-Ni, QIU Hui-Ying,
 JIN Zheng-Ming, TANG Xiao-Wen, FU Cheng-Cheng, HAN Yue,
 MA Xiao, WU De-Pei, SUN Ai-Ning
- 131 **Effects of Blocking Co-stimulatory Signals on Immunotolerance Rejection of Sensitized Recipient after Hematopoietic Stem Cell Transplantation**
 YE Qi-Xiang, WENG Wen-Jun, XU LYu-Hong, FANG Jian-Pei

Hematopoietic Stem/Progenitor Cells

- 136 **Differentiation of *In Vitro* Induced Human Pluripotent Stem Cells into Hematopoietic Stem/Progenitor Cells**
ZHANG Kun, HUANG Ke, LI Dong, PAN Guang-Jun, WANG Yun-Shan
- 142 **Role of Antioxidant in Protecting the Biological Function of Hematopoietic Stem Cells**
HAO Yi-Wen, XU Huan-Ming, CHENG Da-Ye, MA Yi-Ran, JING Li
- 148 **Effects of Different Extracellular Matrix on Differentiation of Human Embryonic Stem Cells into Hematopoietic Progenitor Cells**
ZHU Ming-Xia, WANG Jing, KE Xiao-Yan
- 154 **Exogenous VEGF Promotes Hematopoietic Stem Cell Mobilization**
ZHU Xiao-Jian, LI Yi, YOU Yong, LI Qing, ZENG Chen, ZHONG Zhao-Dong, ZOU Ping

Mesenchymal Stem Cells

- 160 **ICAM-1 Regulates Differentiation of MSC to Adipocytes via Activating MAPK Pathway**
CHEN Ji-De, XU Fen-Fen, ZHU Heng, LI Xi-Mei, TANG Bo, LIU Yuan-Lin, ZHANG Yi
- 166 **Immunomodulatory Effect of UC-MSC on Function of Immunocytes of Rats with Collagen Type II Induced Arthritis**
GU Jian, LIN Chuan-Ming, GU Wei, CAI Xin-Zhen, LI Zou, REN Min-Min, SUN Xing, NI Jun, SHEN Lian-Jun, WU Wei, HE Bin, SUN Mei, ZHANG Yu
- 171 **Distribution of Compact Bone Mesenchymal Stem Cells in Lung tissue and Bone Marrow of Mouse**
WANG Rui-Ping, WU Ren-Na, GUO Yu-Qing, ZHANG Bin, CHEN Hu
- 177 **Osteogenic and Adipogenic Differentiation of Bone Marrow Multipotent Mesenchymal Stem Cells in the Mice with Hemorrhagic Anemia**
WU Meng-Qing, ZHU Rong-Jia, LIU Kai-Yan
- 183 **Influence of TLR2 and TLR4 Agonists on Migration of Human Bone Marrow Mesenchymal Stem Cells**
YANG Zong-Hai, WANG Xing-Bing, WANG Jian, LI Lai-Ling, ZHU Yun-Xia
- 187 **Mechanism of HLA-G Participation in Inhibiting Lymphocyte Proliferation by Amniotic Mesenchymal Stem Cells**
WANG Jia-Ping, OU-YANG Gui-Fang

Transfusion Medicine

- 192 **Sequencing Analysis and Identification of A Novel HLA-B*40:162 Allele**
DU Zhan-Hui, HU Bin, FENG Zhi-Hui, JIAO Shu-Xian, WU Zhen-Jun
- 195 **Formation of Para-Bombay Phenotype Caused by Homozygous or Heterozygous Mutation of *FUT1* Gene**
ZHANG Jin-Ping, ZHENG Yan, SUN Dong-Ni
- 199 **Applications of Platelet Antigen Gene Typing and Matching in the Platelet Transfusion**
LIU Bing-Xian, LIU Yu-Jia, GAO Guang-Ping, WANG Dan, ZHOU Rui-Hua, MA Qiang, ZHANG Yan, YU Xiu-Qing, ZHENG Hua
- 204 **Assessment of RBC Transfusion Volume and Its Effect on Postoperative Pulmonary Complications in On-pump CABG Patients**
WEI Chao, ZHUANG Yuan, CHEN Lin-Feng, LI Hui, YU Yang, ZHU Li-Guo, XI Chao-Yun, PAN Ji-Chun, WANG De-Qing

REVIEWS

- 209 **Research Progress on Visual Observations of Hematopoietic Stem Cell Homing ——Review**
WU Meng-Yao, CHEN Tong
- 213 **Research Advances on Directional Induction and Differentiation *in vitro* from Human Pluripotent Stem Cells into Erythrocytes ——Review**
LIU Sen-Quan, ZHANG Li-Fei, WANG Ye-Bo, HUANG He

- 219 **Progress of Study on Circulating microRNAs in Hematologic Malignancies**——*Review*
QU Ying, HE Hai-Yan, HOU Jian
- 223 **Effect of Monoamine Neurotransmitter on Megakaryocytopoiesis and Platelet Functions**——*Review*
SHU Hui-Ying, LI Xiao-Jing, YU Jie, YE Jie-Yu, YANG Mo
- 229 **Research Advances on Abnormal Marrow Fibre in Leukemia** ——*Review*
ZHAI Yuan-Mei, SHI Jun
- 232 **Research Advance on the Role of Ubiquitin Proteasome Pathway In Acute Promyelocytic Leukemia**——*Review*
LIU Ting-Ting, WU Di-Jiong, YE Bao-Dong, SHAO Ke-Ding, SUN Jie, ZHOU Yu-Hong
- 237 **Globin Gene Induction Therapy for β -Thalassemia**——*Review*
LU Zhou-Ming
- 241 **MyD88 L265P Mutation and B Cell Tumor**——*Review*
CHEN Hai-Min, HOU Jian
- 245 **Ibrutinib in the Treatment of Chronic Lymphocytic Leukemia and Other B-cell Malignancies** ——*Review*
WANG Man, XU Wei, LI Jian-Yong
- 250 **Recent Advances in Therapy of Follicular Lymphoma**——*Review*
LIU Xiang-Xiang, WANG Li-Na, YANG Wei-Lin, XI Ya-Ming
- 255 **Research Progress of MicroRNA in Chronic Lymphocytic Leukemia**——*Review*
GENG Ling-Yun, WANG Xin
- 259 **New Advances in the Subtyping of Systemic Amyloidosis**——*Review*
SUN Wei-Yi, LI Jian

国药准字S20030014

国药准字S20030015



注射用重组人白介素-11

治疗化疗后血小板减少症

减少血小板输注需要

产品特点

- 促进主动生成血小板，针对根本
- 持久提升血小板
- 治疗肿瘤化疗后血小板减少

适用于

- 化疗后血小板减少症

禁忌： 对白介素-11及本品中其它成分过敏者禁用，对血液制品及大肠杆菌表达的其它生物制剂有过敏史者慎用。

本广告仅供医学药学专业人士阅读！



北京双鹭药业股份有限公司
BEIJING SL PHARMACEUTICAL CO.,LTD.

京药广审(文)第 2012030204

股票代码：002038

厂址：北京八大处高科技园区中园路9号

邮编：100041 传真：010-88799270

电话：010-88791677

营销总部：北京海淀区阜石路69号院碧桐园1号楼

邮编：100049 传真：010-68428099

电话：010-88512259 88514105 68727137 68727067

网址：<http://www.slpharm.com.cn>