

中文核心期刊(Core Journal of China) (北京大学出版社)
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
中国知网CNKI, 中国科学引文数据库等收录源期刊
美国MEDLINE/Index Medicus(PubMed),EBSCO,《CA》和荷兰ELSEVIER文献库收录源期刊
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, 2015年和2016年中国国际影响力优秀学术期刊



中国实验血液学杂志

ZHONGGUO SHIYAN XUEYEXUE ZAZHI

2022 年 2 月 第 30 卷 第 1 期

JOURNAL OF
EXPERIMENTAL
HEMATOLOGY

Volume 30
Number 1
February 2022

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 富马酸二甲酯对急性 T 淋巴细胞白血病影响的研究
徐金格,程巧,张桂华,孔丽萍,李莉,刘凯歌,吴进燕,张秋荣
- 6 地西他滨联合全反式维甲酸治疗髓系肿瘤患者免疫细胞水平变化的研究
韦玮,刘月,商丽梅,曹阳,王飞,郭嫣婷,林榕榕,林艳,董伟民,顾伟英
- 12 无预后标志性基因的急性 B 淋巴细胞白血病患者随访 10 年复发因素的分析
蒋梦影,高伟,高静,凌婧,潘健,肖佩芳,卢俊,何海龙,王易,李捷,李建琴,柴忆欢,孙伊娜,胡绍燕
- 18 AML-MRC 患者遗传特征及预后特点分析
陈哲,牧启田,吴安,欧阳桂芳
- 22 甘草酸单铵盐调节急性早幼粒细胞白血病细胞 NB4 肿瘤干细胞样特性、氧化应激及线粒体的功能
陈艳,温贤秀,周晨燕,张榕,吴炳菊,喻未
- 30 尼洛替尼二线与达沙替尼三线对一二线治疗失败的慢性髓性白血病的疗效及影响因素分析
刘倩,徐静,吴杰,张兴利,邱宏春
- 36 地西他滨对骨髓增生异常综合征/急性髓系白血病患者外周血及骨髓中调节性 T 细胞相对含量的影响研究
胡芮,高媛,闻艳,武坤,段群,曾云,史明霞
- 43 年龄对初治急性髓系白血病患者初次诱导治疗后中性粒细胞缺乏时间的影响
贾晓艳,陈琳,魏旭东
- 49 急性髓系白血病患者 NK 细胞表达及功能变化研究
刘露,陈肖,金慧敏,赵四书,朱毅,钱思轩,吴雨洁
- 56 伴 *NPM1* 突变急性髓系白血病二代测序突变基因谱与 MICM 分型特征关联性分析
王彪,凌云,戴莉,顾伟英,张修文,邢珊珊,李海乾
- 65 含克拉屈滨的强化预处理方案在异基因造血干细胞移植治疗高危急性髓系白血病患者中的疗效和安全性分析
盘婉盈,李可昕,吴惠阳,何颖芝,杜静文,郑雅龄,涂三芳,宋朝阳,李玉华,黄宇贤
- 72 砷剂治疗急性早幼粒细胞白血病诱发带状疱疹再激活的研究
赵晨阳,张欣欣,龚莎,陈抒,张晓娟,韦素华,王怀宇
- 77 CD68 因子在急性髓系白血病患者中的表达情况及其临床相关性研究
刘正华,王萍萍,颜晓菁
- 84 PPP2R5C 与儿童急性 T 淋巴细胞白血病 Molt-4 细胞活性及 Hsp90-GR 信号关系的研究
刘蕾,李海涛,郑华月,党惠兵
- 92 急性髓系白血病合并噬血细胞综合征患者的临床分析
王亚萍,吴诗馨,张学亚

- 99 热带地区急性白血病患者侵袭性真菌感染的临床特点和危险因素
郑文帅,管立勋,王绅宇,狐亚磊,彭博,薄剑,王全顺,高晓宁
- 107 伊马替尼耐药 K562/G 的 microRNA 表达谱分析及与 FOXO3/Bcl-6 信号通路关系的研究
沈晶,王欢,王晶石,魏娜,王昭
- 113 脑脊液 β 2-微球蛋白用于急性淋巴细胞白血病中枢浸润患者的预后评估
姚梦俐,陈婷梅,李朴
- 119 八珍汤加减方结合化疗方案序贯治疗气阴两虚型急性淋巴细胞白血病患者的临床疗效分析
牛占恩,井大新,许崇艳

淋巴瘤基础与临床

- 126 初治原发性骨淋巴瘤患者的临床特征和长期预后分析
仲凯励,曹宝平,郭晓川,黄乐富,王伟霞,王斌,张伟京
- 131 淋巴瘤化疗患者发生血栓栓塞症的危险因素分析
李道,侯淑玲,李喜,李丽,连科,崔菊亚,王刚刚,杨涛
- 136 SUVmax 和 Ki-67 在非霍奇金淋巴瘤中的相关性及其影响因素研究
李娟,赵铭,原凌,刘洋,马宁

多发性骨髓瘤基础与临床

- 141 多发性骨髓瘤合并骨髓纤维化患者的临床特征及预后研究
程璐,宋丽敏,薛茹,马艳萍
- 146 CD33 和 CD13 表达与多发性骨髓瘤患者预后的关系
李丹丹,夏海龙,孙小梅,刘志强,张舒颖,刘倩
- 152 淋巴细胞 / 单核细胞比率与校正血钙作为新诊断多发性骨髓瘤预后标志物的意义
彭千涯,马瑞娟,郭睿娜,张峰,李钰,胡灯明,姚锦
- 158 自体造血干细胞移植与新药化疗治疗新诊断多发性骨髓瘤的倾向性评分匹配研究
杨菲燕,王华芳,夏凌辉,王晴晴,千晨静,何静
- 166 初治多发性骨髓瘤患者的基因突变及表达异常
范熠,王树娟,刘廷方,王冲,李亚飞,王伟琼,郝倩倩,张丹凤,李英梅,孙慧,郭荣,陈绍倩,谢新生,李涛,万鼎铭,姜中兴
- 170 不同衰弱评分下老年多发性骨髓瘤患者化疗疗效及安全性的评估
薛茹,程璐,宋丽敏,马艳萍
- 175 基于 IRAK4/ERK/p38 信号通路雷公藤红素对多发性骨髓瘤细胞增殖和凋亡的影响
徐小梦,康迪,朱新宇,孔祥图,于慧,陈晓丽,姜鹏君,倪海雯
- 183 磁共振成像水脂分离技术在多发性骨髓瘤患者中的应用研究
古雅雯,吴颖,颜瑞馨,姜晓娜,鞠小妍,史雪,冯献启,王伟
- 189 ^{18}F -FDG PET/CT 显像在多发性骨髓瘤继发骨髓外浸润中的应用价值
潘博,汪世存,展凤麟,倪明,刘昕,张依凡,谢强,谢吉奎

骨髓增生异常综合征

- 195 儿童骨髓增生异常综合征临床特点和预后分析
郑夏,徐基昕,蒋卫芹,孔令军,赵文理
- 201 初诊骨髓增生异常综合征患者感染的临床特征及其与疗效的关系
翟佳红,张睿娟,杨苏霞,王耀梓,杨林花

贫血与血小板疾病

- 206 湘西土家族苗族自治州 22 940 例孕妇地中海贫血筛查结果分析
余晖,杨清香,刘春,彭腊英,周晓波,邵露,黄楠
- 211 重庆地区育龄人群地中海贫血不同基因型血液学特征的分析
李思闯,李秋红,易四维,李春莉
- 217 中国福建泉州地区育龄夫妇地中海贫血基因分析及产前诊断
庄建龙,张娜,王元白,江裔颖
- 222 环磷酸胺联合环孢霉素介导的获得性再生障碍性贫血小鼠模型的建立
石健菲,焦丹丽,赵琛,戚莉,李蔚江
- 227 单倍型异基因造血干细胞移植联合后置环磷酸胺 (PT/Cy) 治疗重型再生障碍性贫血患者的临床研究
李俊南,李平,刘林,肖青,唐晓琼,张红宾,王欣,罗小华,王利
- 232 海南省三亚市汉族人群地中海贫血的研究
徐媛媛,李猛,管立勋,项松鹤,程龙灿,杨育卉,高晓宁,宁红梅
- 237 原发免疫性血小板减少症 *miRNA181a-5p* 表达与 Treg/Th17 失衡关系的研究
赵萌,金立方,李小丰,赵岩,朱耿军,沈卫章

G6PD 缺乏症

- 244 武汉地区葡萄糖-6-磷酸脱氢酶缺乏症患者基因突变分析
李卉,江雨霏,高唐鑫子,易美琪,王小艳,徐闰红,
宋婕萍,刘丽君

输血医学

- 250 流式细胞术应用于 Kidd 血型 Jka 抗原检测的建立
章昊,梁爽,李乐兵,苏宇清
- 256 血小板 miRNA 的表达谱分析
王玉青,庄云龙,譙铭铭
- 264 江苏省 HBV 反应性献血者归队评估模式及其可行性探讨
胡文佳,蒋昵真,朱绍汶,林红
- 270 新疆新型冠状病毒肺炎患者血型分布特点的分析
李菲,宋金萍,文军,陈伟

造血干细胞移植与移植物抗宿主病

- 276 芦可替尼联合激素一线治疗急性移植物抗宿主病后外周血 MDSC 动力学研究
杨晶晶,彭博,方姝,魏岩,王昊,赵英欣,钱坤,温亚男,刘代红,窦立萍
- 286 G-CSF 联合普乐沙福动员异基因造血干细胞移植亲缘健康供者外周血造血干细胞的单中心分析
陈娟,袁丽莉,张弦,乔佳丽,尹晴雪,张月梅,杨雪莲,曹星玉
- 292 造血干细胞移植后血流感染的临床分析
吴莹莹,刘倍材,刘练金,袁诗思,韦杰敏,王丽淋,王佩锡,
刘继聪,赖永榕,李桥川

造血干细胞生物学

- 298 *Rheb1* 在小鼠巨核-红系多能性干细胞发育中的作用
高娟,杨爽,王玉霞,高亚男,初雅婧,袁卫平,汪晓敏

临床血液学

- 305 血清 Hey、*MTHFR* 基因多态性与血液病患者并发冠心病的相关性
张灵,袁小飞,李琦,范凌,陈哲,张斌,高炳华

综述

- 310 细胞间线粒体转移在血液恶性肿瘤发展中的研究进展
张柳芸,向云会,张娟
- 314 血栓性血小板减少性紫癜治疗的研究进展
王文,何杨
- 319 骨髓基质细胞在急性淋巴细胞白血病中作用的研究进展
亢俊楠,陈泽慧,田晨
- 323 微管蛋白在巨核细胞发育和血小板数量调控中的作用机制研究进展
牛思颖,夏利军,江森

读者 · 作者 · 编者

- 扉1 《中国实验血液学杂志》第八届编辑委员会
- 扉1 《中国实验血液学杂志》全文和摘要电子版查阅和下载方法
- 扉2 在 PubMed, MEDLINE 中搜索时,可用本刊国际刊号 1009 - 2137 作为《中国实验血液学杂志》刊名输入
- 扉2 《中国实验血液学杂志》关于基因和蛋白名称拼写暂行规定
- 封二 《中国实验血液学杂志》投稿简则
- 封三 《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
- 182 作者增加“基金项目”声明

JOURNAL OF EXPERIMENTAL HEMATOLOGY

(Established in April, 1993)

Bimonthly Volume 30 Number 1

February, 2022

Contents

ORIGINAL ARTICLES

Leukemia Basis and Clinic

1	Effect of Dimethyl Fumarate (DMF) on T-cell Acute Lymphoblastic Leukemia <i>XU Jin-Ge, CHENG Qiao, ZHANG Gui-Hua, KONG Li-Ping, LI Li, LIU Kai-Ge, WU Jin-Yan, ZHANG Qiu-Rong</i>
6	The Effects of Decitabine Combined with All-Trans Retinoic Acid on the Number of Immune Cells in Myeloid Neoplasms <i>WEI Wei, LIU Yue, SHANG Li-Mei, CAO Yang, WANG Fei, GUO Yan-Ting, LIN Rong-Rong, LIN Yan, DONG Wei-Min, GU Wei-Ying</i>
12	The Factors Affecting Relapse in Pediatric B-cell Acute Lymphoblastic Leukemia Patients without Prognostic Fusion Genes Following Up for 10 years <i>JIANG Meng-Ying, GAO Wei, GAO Jing, LING Jing, PAN Jian, XIAO Pei-Fang, LU Jun, HE Hai-Long, WANG Yi, LI Jie, LI JIAN-Qin, CHAI Yi-Huan, SUN Yi-Na, HU Shao-Yan</i>
18	The Genetic and Prognostic Characteristics of AML-MRC Patients <i>CHEN Zhe, MU Qi-Tian, WU An, OUYANG Gui-Fang</i>
22	Effects of Monoammonium Glycyrhizinate on Stem Cell-like Characteristics, Oxidative Stress and Mitochondrial Function of Acute Promyelocytic Leukemia NB4 Cells <i>CHEN Yan, WEN Xian-Xiu, ZHOU Chen-Yan, ZHANG Rong, WU Bing-Ju, YU Wei</i>
30	Analysis of the Curative Effect and Influencing Factors of Nilotinib Second-line and Dasatinib Third-line on Chronic Myelogenous Leukemia Failed First-line and Second-line Treatment <i>LIU Qian, XU Jing, WU Jie, ZHANG Xing-Li, QIU Hong-Chun</i>
36	Effect of Decitabine on Regulatory T Cells Relative Content in Peripheral Blood and Bone Marrow of Patients with Myelodysplastic Syndrome/Acute Myeloid Leukemia <i>HU Rui, GAO Yuan, WEN Yan, WU Kun, DUAN Ci, ZENG Yun, SHI Ming-Xia</i>
43	Effect of Age on the Time of Neutropenia after Initial Induction Therapy for Patients with Newly Diagnosed Acute Myeloid Leukemia <i>JIA Xiao-Yan, CHEN Lin, WEI Xu-Dong</i>
49	The Expression and Function of NK Cells in Patients with Acute Myeloid Leukemia <i>LIU Lu, CHEN Xiao, JIN Hui-Min, ZHAO Si-Shu, ZHU Yi, QIAN Si-Xuan, WU Yu-Jie</i>
56	Association of Next Generation Sequencing Based Genotypic Profiling with MICM Characteristics in <i>NPM1</i> Mutated Acute Myeloid Leukemia <i>WANG Biao, LING Yun, DAI Li, GU Wei-Ying, ZHANG Xiu-Wen, XING Shan-Shan, LI Hai-Qian</i>
65	Efficacy and Safety of Cladribine-based Intensified Conditioning Regimen in Hematopoietic Stem Cell Transplantation in Patients with High-Risk Acute Myeloid Leukemia <i>PAN Wan-Ying, LI Ke-Xin, WU Hui-Yang, HE Ying-Zhi, DU Jing-Wen, ZHENG Ya-Ling, TU San-Fang, SONG Chao-Yang, LI Yu-Hua, HUANG Yu-Xian</i>
72	Study on Herpes Zoster Reactivation Induced by Arsenic in Patients with Acute Promyelocytic Leukemia <i>ZHAO Chen-Yang, ZHANG Xin-Xin, GONG Sha, CHEN Shu, ZHANG Xiao-Juan, WEI Su-Hua, WANG Huai-Yu</i>
77	The Expression and Clinical Correlation of the CD68 Factor in Acute Myeloid Leukemia Patients <i>LIU Zheng-Hua, WANG Ping-Ping, YAN Xiao-Jing</i>

84 **The Relationship between PPP2R5C and Molt-4 Cell Viability , HSP90-GR Signal in Childhood Acute T Lymphocytic Leukemia**
LIU Lei , LI Hai-Tao , ZHENG Hua-Yue , DANG Hui-Bing

92 **Clinical Analysis of Acute Myeloid Leukemia Patients with Hemophagocytic Syndrome**
WANG Ya-Ping , WU Shi-Xin , ZHANG Xue-Ya

99 **Clinical Characteristics and Risk Factors of Invasive Fungal Infections in Acute Leukemia Patients in Tropical Regions**
ZHENG Wen-Shuai , GUAN Li-Xun , WANG Shen-Yu , HU Ya-Lei , PENG Bo , BO Jian , WANG Quan-Shun , GAO Xiao-Ning

107 **The Relationship between MicroRNA Expression Profiling in Imatinib-Resistant Cell Line K562/G and Potential Mechanism through FOXO3/Bcl-6 Signaling Pathway**
SHEN Jing , WANG Huan , WANG Jing-Shi , WEI Na , WANG Zhao

113 **Cerebrospinal Fluid β 2-Microglobulin for Prognostic Evaluation of Patients with Central Nervous System Infiltration in Acute Lymphoblastic Leukemia**
YAO Meng-Li , CHEN Ting-Mei , LI Pu

119 **Clinical Effect of Bazhen Decoction Combined with Sequential Treatment of Chemotherapy on Acute Lymphoblastic Leukemia Patients with Deficiency of Qi and Yin**
NIU Zhan-En , JING Da-Xin , XU Chong-Yan

Lymphoma Basis and Clinic

126 **Clinical Characteristics and Long-term Prognosis Analysis of Patients with Primary Bone Lymphoma**
ZHONG Kai-Li , CAO Bao-Ping , GUO Xiao-Chuan , HUANG Le-Fu , WANG Wei-Xia , WANG Bin , ZHANG Wei-Jing

131 **Risk Factors Analysis of Thromboembolism in Patients with Lymphoma Chemotherapy**
LI Xiao , HOU Shu-Ling , LI Xi , LI Li , LIAN Ke , CUI Ju-Ya , WANG Gang-Gang , YANG Tao

136 **Correlation and Influencing Factors of SUVmax and Ki-67 in Non-Hodgkin Lymphoma**
LI Juan , ZHAO Ming , YUAN Ling , LIU Yang , MA Ning

Multiple Myeloma Basis and Clinic

141 **Clinical Characteristics and Prognosis of Multiple Myeloma Patients with Myelofibrosis**
CHENG Lu , SONG Li-Min , XUE Ru , MA Yan-Ping

146 **The Relationship between the Expressions of CD33 and CD13 and the Prognosis of Patients with Multiple Myeloma**
LI Dan-Dan , XIA Hai-Long , SUN Xiao-Mei , LIU Zhi-Qiang , ZHANG Shu-Ying , LIU Qian

152 **Significance of Lymphocyte-to-Monocyte Ratio and Corrected Levels of Serum Calcium as Prognostic Markers in Patients with Newly Diagnosed Multiple Myeloma**
PENG Qian-Ya , MA Rui-Juan , GUO Rui-Na , ZHANG Feng , LI Yu , HU Deng-Ming , YAO Jin

158 **A Propensity Score Matching Study of Autologous Hematopoietic Stem Cell Transplantation and New Drug Chemotherapy for Newly Diagnosed Multiple Myeloma**
YANG Fei-Yan , WANG Hua-Fang , XIA Ling-Hui , WANG Qing-Qing , QIAN Chen-Jing , HE Jing

166 **Gene Mutation and Overexpression of Newly Diagnosed Multiple Myeloma Patients**
FAN Yi , WANG Shu-Juan , LIU Yan-Fang , WANG Chong , LI Ya-Fei , WANG Wei-Qiong , HAO Qian-Qian , ZHANG Dan-Feng , LI Ying-Mei , SUN Hui , GUO Rong , CHEN Shao-Qian , XIE Xin-Sheng , LI Tao , WAN Ding-Ming , JIANG Zhong-Xing

170 **Evaluation of the Efficacy and Safety of Chemotherapy in Elderly Patients with Multiple Myeloma under Different Frailty Scores**
XUE Ru , CHENG Lu , SONG Li-Min , MA Yan-Ping

175 **Effect of Celastrol Based on IRAK4/ERK/p38 Signaling Pathway on Proliferation and Apoptosis of Multiple Myeloma Cells**
XU Xiao-Meng , KANG Di , ZHU Xin-Yu , KONG Xiang-Tu , YU Hui , CHEN Xiao-Li , JIANG Peng-Jun , NI Hai-Wen

183 **Application of MRI Water-Fat Separation Technology in Patients with Multiple Myeloma**
GU Ya-Wen , WU Ying , YAN Rui-Xin , JIANG Xiao-Na , JU Xiao-Yan , SHI Xue , FENG Xian-Qi , WANG Wei

189 **Value of ¹⁸F-FDG PET/CT Imaging in Secondary Extramedullary Infiltration of Multiple Myeloma**
PAN Bo, WANG Shi-Cun, ZHAN Feng-Lin, NI Ming, LIU Xin, ZHANG Yi-Fan, XIE Qiang, XIE Ji-Kui

Myelodysplastic Syndrome

195 **Clinical Characteristics and Prognosis of Children with Myelodysplastic Syndrome**
ZHENG Xia, XU Ji-Xin, JIANG Wei-Qin, KONG Ling-Jun, ZHAO Wen-Li

201 **Clinical Features of Infection in Newly Diagnosed Patients with Myelodysplastic Syndrome and Its Correlation with Curative Effect**
ZHAI Jia-Hong, ZHANG Rui-Juan, YANG Su-Xia, WANG Yao-Zi, YANG Lin-Hua

Anemia and Platelet Disease

206 **Genetic Analysis of Thalassemia in 22 940 Pregnant Women in Xiangxi Tujia and Miao Autonomous Prefecture**
YU Hui, YANG Qing-Xiang, LIU Chun, PENG La-Ying, ZHOU Xiao-Bo, SHAO Lu, HUANG Nan

211 **Hematological Characteristics of Different Genotypes of Thalassemia among Reproductive Population in Chongqing**
LI Si-Yue, LI Qiu-Hong, YI Si-Wei, LI Chun-Li

217 **Genetic Analysis and Prenatal Diagnosis of Thalassemia in Couples of Childbearing Age in Quanzhou Region Fujian Province, China**
ZHUANG Jian-Long, ZHANG Na, WANG Yuan-Bai, JIANG Yu-Ying

222 **Establishment of A Mouse Model of Acquired Aplastic Anemia Mediated by Cyclophosphamide Combined with Cyclosporine**
SHI Jian-Fei, JIAO Dan-Li, ZHAO Chen, QI Li, LI Wei-Jiang

227 **Clinical Study of Haploid Allogeneic Hematopoietic Stem Cell Transplantation Combined with Post-transplant Cyclophosphamide in Severe Aplastic Anemia Patients**
LI Jun-Nan, LI Ping, LIU Lin, XIAO Qing, TANG Xiao-Qiong, ZHANG Hong-Bin, WANG Xin, LUO Xiao-Hua, WANG Li

232 **Study on Thalassemia in Han Population in Sanya of Hainan Province**
XU Yuan-Yuan, LI Meng, GUAN Lin-Xun, XIANG Song-He, CHENG Long-Can, YANG Yu-Hui, GAO Xiao-Ning, NING Hong-Mei

237 **Relationship between the Expression of *miRNA181a-5p* and the Imbalance of Treg/Th17 in Primary Immune Thrombocytopenia**
ZHAO Meng, JIN Li-Fang, LI Xiao-Feng, ZHAO Yan, ZHU Geng-Jun, SHEN Wei-Zhang

G6PD Deficiency

244 **Genetic Mutation Characteristics of Glucose-6-Phosphate Dehydrogenase Deficiency Patients in Wuhan**
LI Hui, JIANG Yu-Fei, GAO Tang-Xin-Zi, YI Me-Qi, WANG Xiao-Yan, XU Run-Hong, SONG Jie-Ping, LIU Li-Jun

Transfusion Medicine

250 **The Establishment and Application of Flow Cytometry on the Detection of Jka Antigen in Kidd Blood Group**
ZHANG Hao, LIANG Shuang, LI Le-Bing, SU Yu-Qing

256 **Expression Analysis of miRNA Profiles in Apheresis Platelets during Storage**
WANG Yu-Qing, ZHUANG Yun-Long, QIAO Ming-Ming

264 **Study on Reentry Evaluation Mode for Blood Donors Used to be HBV Reactive in Jiangsu Province**
HU Wen-Jia, JIANG Ni-Zhen, ZHU Shao-Wen, LIN Hong

270 **Blood Group Distribution Characteristics of COVID-19 Patients in Xinjiang**
LI Fei, SONG Jin-Ping, WEN Jun, CHEN Wei

Hematopoietic Stem Cell Transplantation and Graft-Versus-Host Disease

276 **Kinetics of MDSC in Patients Treated Steroids-Ruxolitinib as the First Line Therapy for aGVHD**
YANG Jing-Jing, PENG Bo, FANG Shu, WEI Yan, WANG Hao, ZHAO Ying-Xin, QIAN Kun, WEN Ya-Nan,
LIU Dai-Hong, DOU Li-Ping

286 **A Single-Center Analysis of the Use of G-CSF Combined with Plerixafor to Mobilize Peripheral Blood Hemato-
poietic Stem Cell from Healthy Related Donors in Allogeneic Hematopoietic Stem Cell Transplantation**
CHEN Juan, YUAN Li-Li, ZHANG Xian, QIAO Jia-Li, YIN Qing-Xue, ZHANG Yue-Mei, YANG Xue-Lian, CAO Xing-Yu

292 **Clinical Analysis of Bloodstream Infection after Hematopoietic Stem Cell Transplantation**
WU Ying-Ying, LIU Bei-Cai, LIU Lian-Jin, YUAN Shi-Si, WEI Jie-Min, WANG LI-LIN, WANG Pei-Xi, LIU Ji-Cong,
LAI Yong-Rong, LI Qiao-Chuan

Biology of Hematopoietic Stem Cells

298 **Effect of *Rheb1* in the Development of Mouse Megakaryocyte-Erythroid Progenitor Cells**
GAO Juan, YANG Shuang, WANG Yu-Xia, GAO Ya-Nan, CHU Ya-Jing, YUAN Wei-Ping, WANG Xiao-Min

Clinical Hematology

305 **Correlation between Serum Homocysteine Level, *MTHFR* Gene Polymorphism and Patients with Hematological
Diseases Complicated with Coronary Heart Disease**
ZHANG Ling, YUAN Xiao-Fei, LI Qi, FAN Ling, CHEN Zhe, ZHANG Bin, GAO Bing-Hua

REVIEWS

310 **Research Progress of Intercellular Mitochondrial Transfer in the Development of Hematological Malignant
Tumors ——Review**
ZHANG Liu-Yun, XIANG Yun-Hui, ZHANG Juan

314 **Research Advance in Treatment of Thrombotic Thrombocytopenic Purpura ——Review**
WANG Wen, HE Yang

319 **Research Advances on the Role of Bone Marrow Stromal Cell in Acute Lymphoblastic Leukemia ——Review**
KANG Jun-Nan, CHEN Ze-Hui, TIAN Chen

323 **Research Progress on the Mechanism of Tubulin in Megakaryopoiesis and Regulation of Platelet Count
——Review**
NIU Si-Ying, XIA Li-Jun, JIANG Miao

本广告仅供医学药学专业人士阅读!



立生®

Lenalidomide Capsules

来那度胺胶囊

5mg 10mg 25mg

来那度胺胶囊

★ 25mg已通过仿制药一致性评价

发明专利

【发明名称：3-（取代二氢异吲哚酮-2-基）-2,6-哌啶二酮的合成方法及中间体】

【专利号：ZL 2011 1 0005625.3】

【适应症】：本品与地塞米松合用，治疗曾接受过至少一种疗法的多发性骨髓瘤的成年患者。
25mg新增适应症：本品与地塞米松合用，治疗此前未经治疗且不适合接受移植的多发性骨髓瘤成年患者。

【禁忌】：1. 孕妇 2. 未达到所有避孕要求的可能怀孕的女性（见【注意事项】和【孕妇和哺乳期妇女用药】）。3. 对本品活性成分或其中任何辅料过敏者。

【不良反应】：1. MM-009和MM-010研究中复发/难治性多发性骨髓瘤患者的安全性数据总结（规格：5mg、10mg、25mg）

■最严重的不良反应包括：静脉血栓（深静脉血栓、肺栓塞）（见【注意事项】）。4级中性粒细胞减少（见【注意事项】）。

■最常见的不良反应为：疲乏（43.9%），中性粒细胞减少（42.2%），便秘（40.5%），腹泻（38.5%），肌肉痉挛（33.4%），贫血（31.4%），血小板减少（21.5%），和皮疹（21.2%）。测试数据详见说明书。

2. MM-021研究中复发/难治性多发性骨髓瘤中国患者的安全性数据总结（规格：5mg、10mg、25mg）

■最常见不良事件为贫血（121/199受试者，60.8%）、中性粒细胞计数减少（82/199受试者，41.2%）、中性粒细胞减少（71/199受试者，35.7%）和白细胞计数减少（66/199受试者，33.2%）。

3. 其他不良反应（规格5mg、10mg、25mg）：静脉血栓栓塞、深静脉血栓和肺栓塞（见【注意事项】）、血液和淋巴系统疾病、心脏疾病、内分泌疾病、眼科疾病、胃肠道疾病、全身性疾病和给药部位反应、检查、神经系统疾病、精神疾病、生殖系统和乳腺疾病、呼吸系统、胸廓和纵膈疾病、皮肤和皮下组织疾病详见说明书。

4. 此前未经治疗且不适合接受移植的多发性骨髓瘤患者的安全性数据总结（MM-020）（规格25mg）

■腹痛、肺炎、败血症、皮疹和深静脉血栓，测试数据详见说明书。

【注意事项】：详见说明书。



北京双鹭药业股份有限公司

BEIJING SL PHARMACEUTICAL CO.,LTD.

股票代码：002038

京药广审（文）第221120-00715号

厂址：北京市昌平区科技园区利祥路2号

邮编：102200 传真：010-60730863

电话：010-60730801

营销总部：北京市海淀区阜石路69号碧桐园1号楼

邮编：100143 传真：010-88795883

电话：010-88627765 010-88799370