

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

ISSN 1009-2137

CN 11-4423/R



中国实验血液学杂志

ZHONGGUO SHIYAN XUEYEXUE ZAZHI

2019年8月 第27卷 第4期

JOURNAL OF EXPERIMENTAL HEMATOLOGY

Volume 27

Number 4

August 2019



中国病理生理学会
CHINESE
ASSOCIATION OF
PATHOPHYSIOLOGY

目次

论著

白血病基础与临床

- 995 慢性髓系白血病急髓变临床回顾性分析
余锋,姚子龙,李猛,李艳芬,李艳,李文君,李红华,靖或
- 1001 *CHD5* 基因启动子甲基化调控 $p19^{Arf}/p53/p21^{Cip1}$ 信号通路促进急性髓系白血病发病的研究
吴明彩,蒋明,董婷,吕俊,方基勇,徐蕾,韦中玲,章尧
- 1008 下调 *NPM* 基因表达对慢性髓系白血病细胞株 K562 增殖的抑制作用研究
林敏辉,郑志宏,江佩芳,吴正军,甘东辉,张娜,胡建达
- 1013 LNK 基因沉默对 THP-1 细胞 *EPO*、*EPOR* 表达影响的研究
田润梅,罗茜,谭梅,史良,黄成双,苏琼,陈艳
- 1020 *SARI* 过表达对 CBFL 细胞凋亡的影响及其机制
薛龔,傅晓萌,郑金源,陈梅环,林东红,徐建萍
- 1026 急性白血病患者 *EPO*、*EPOR* 的表达及其临床意义
田润梅,黄成双,苏琼,史良,罗茜,陈艳

抗白血病基础与临床

- 1033 不同剂量蒽环类药物诱导治疗初诊急性早幼粒细胞白血病的疗效与安全性评价
吴雅雪,胡晓慧,陈苏宁,仇惠英,傅璋璋,韩悦,李彩霞,马骁,孙爱宁,唐晓文,吴德冲
- 1040 CD19 嵌合抗原受体 T 细胞治疗急性淋巴细胞白血病患者接受移植后复发的疗效
陈惠仁,张媛,陈鹏,刘晓东,黄晴,张娟,李慧敏,刘兵
- 1046 急性髓系白血病细胞中溶酶体膜蛋白 *LAMP1*、*TPC1*、*TPC2* 的表达及其临床意义
王祥,林冰倩,代美方,王兴兵
- 1053 *PTEN*/*PI3K*/*AKT* 信号通路儿童急性淋巴细胞白血病原代细胞凋亡耐药的相关性
杨李,李娇娇,程衍杨,卢文婕,王卓,陶芳,李建新,徐之良,熊昊
- 1058 急性淋巴细胞白血病儿童骨髓单个核细胞 *CRLF2* 高表达的临床意义
旷文勇,李婉丽,郑敏翠,杨海霞,张本山,吴攀,何珊,宋娜,李睿娟
- 1064 抑制 *NCL* 表达对慢性髓系白血病细胞 K562 及其耐药细胞的影响
林敏辉,陈艳欣,张雲,吴正军,刘惟娟,胡建达
- 1071 伊马替尼治疗的慢性髓系白血病患者 *JARID1B*、*Hes1* 和 *MMP-9* 基因表达水平差异的研究
何志凯,薛桑,张勇洪,李琳,夏云金,汪香,石鑫,刘瑜,许争,李琛,张璟璇
- 1077 *IDH2* 基因突变对急性髓系白血病患者的临床特征及预后影响
罗丽卿,彭振翼,刘晓,于文征
- 1083 腺花素通过靶向 *Prx III* 诱导急性早幼粒白血病细胞分化的研究
莫运喜,刘丹莉,高顺利,殷小成
- 1088 低剂量雷公藤内酯醇和索拉非尼单药及其联用对 AML 细胞株 MV411 及其 *STAT5* 信号通路的作用
王雪,马梁明,王涛,田卫伟,鹿育晋

1094 槲皮素增敏阿霉素治疗难治耐药急性白血病疗效的研究
师迎旭,杜华,苏晓甜,韩艳秋

1104 枸杞多糖单独或联合 TRAIL 对 MLL 基因重排急性淋巴细胞白血病细胞凋亡的影响
陈诚,马钰,李义德,张晓春

1111 人参皂苷 Rh2 对人急性 T 淋巴细胞白血病 Jurkat 细胞诱导凋亡的作用及其机制
聂柳,彭罕鸣

淋巴瘤基础与临床

1118 外周血淋巴细胞与单核细胞比值在 PGI-DLBCL 疾病进展中的意义
孙克盟,桑威,徐林艳,闫冬梅,宋旭光,孙财,孙晓坤,徐开林

1123 儿童伯基特淋巴瘤 / 白血病 35 例临床特征及预后分析
郑湧智,乐少华,郑浩,华雪玲,陈再生,郑灵,陈彩,李梅,蔡春霞,杨景辉,陈以乔,高琴丽,陈莹莹,李健,胡建达

1131 儿童系统性 EB 病毒阳性的 T 细胞淋巴瘤临床病理分析
朱莹莹,段勇涛,宋丽丽,陶菁,管玉杰,刘炜,李彦格,史利欢

1138 R-EDOCH 方案用于初诊双表达淋巴瘤治疗效果探讨
张旭艳,黄灿,王典文,邹玲丽,涂传清

1143 R-CDOP 方案治疗初治 DLBCL 伴预后不良因素患者的疗效及安全性
杨福利,施明亮,吴希锋,元久得

多发性骨髓瘤基础与临床

1149 地西他滨诱导多发性骨髓瘤 KMS-18 细胞凋亡及其机制研究
王晓宁,张梅,贺鹏程

1154 IL-17 在多发性骨髓瘤患者骨髓中的表达及在其发病机制中的作用
江明明,夏海龙

1159 66 例 IgG 型多发性骨髓瘤患者初诊时 IgG 水平与疗效及预后的相关性分析
年飞鸽,李锋,邵靓婧,翟勇平

1166 临床特征、实验室指标和治疗方案对多发性骨髓瘤患者预后影响的研究
徐璐,陈峙霖,胡敏,陶石,陈瑜,苏群豪

1173 血清游离轻链及其 κ/λ 比率在多发性骨髓瘤患者中的临床意义研究
赵丹,姜佳岐,林琳

1179 骨髓微血管密度及血管相关生成因子在多发性骨髓瘤中的意义
解友邦,方来福,蒋白丽,韩国雄,沈括,李文倩,陈绍斌

1185 中性白细胞/淋巴细胞比例和血小板/淋巴细胞比例变化在多发性骨髓瘤患者中的意义
孙巨勇,牟娜,牟佳,张长庚,王冬梅

骨髓增生异常综合征

1190 236 例骨髓增生异常综合征患者细胞遗传学特征与临床预后分析
夏静雅,王莹,李德鹏,李振宇,邱婷婷,徐开林

1196 骨髓增生异常综合征患者外周血循环 Tfh 细胞变化及与 B 细胞功能异常的关系
刘卉,曹慧琴,赵建强

贫血病与血小板、血栓疾病

1201 原发免疫性血小板减少症 (ITP) 患者外周 IL-37 的水平变化及其与 T 亚群、NK 细胞的相关性研究
陈珍,瞿文,王化泉,邢莉民,吴玉红,刘召云,张洋,刘惠,董喜凤,陶景莲,邵宗鸿

1208 当归多糖对抗 LY294002 引发的血小板凋亡的研究
魏会灵,刘持翔,陈世超,杨默

1215 低剂量联合化疗治疗复发难治的再生障碍性贫血-阵发性睡眠性血红蛋白尿综合征的疗效
林莺,张荣东,陈仁利

- 1220 高通量测序技术筛检地中海贫血的临床意义
王珂,党瑜慧,李芝兰,蒲育栋,何淑贞
- 1227 海南省陵水黎族自治县育龄夫妇地中海贫血基因检测结果分析
涂志华,周知,吴维学,王小鹏,周洋智,黄慈丹,马宁,阮海玲,赵立强,王洁
- 1232 小儿 $\alpha\beta$ 复合型地中海贫血基因型和表型分析
任振敏,肖伟伟,刘四喜,刘永秋,黎兵,陈运生
- 1236 ITP 患者二磷酸腺苷激活前后血小板活化指标表达对患者出血风险的预测作用研究
邱宏春,刘倩,孔荣,吴鹏飞,张兴利,吴得红,王勇
- 1241 GPIIb/IIIa 在免疫性血小板减少症中的诊疗意义
狄正霞,耿岩,孙晓琳,苏艾云,郭坤,李庆

造血干细胞移植

- 1246 非血缘脐血移植治疗高危难治 AML1 -ETO 阳性急性髓细胞白血病的疗效分析
任佳荣,朱小玉,汤宝林,皖湘,童娟,张磊,张旭涵,宋闯迪,姚雯,孙光宇,刘会兰,孙自敏

细胞生物学

- 1253 诱导多能干细胞来源的间充质干细胞的生物学特性
吕云,王立生
- 1259 初诊急性髓系白血病患者来源的骨髓间充质干细胞调节 HL-60 细胞的增殖、细胞周期和免疫表型
宁红梅,王军,苏永锋,徐晨,扈江伟,楼晓,李秀森,毛宁,陈虎
- 1265 化疗抑制下骨髓 BMP4 对造血干 / 祖细胞周期、凋亡的调控及其机制
徐正阳,柴烁,张小晴,曹蕴,连超群,武文娟,李玉云
- 1272 小鼠肺组织内造血干细胞分离、纯化与诱导分化为树突细胞的实验研究
李怡,王晓旭,冯玫
- 1277 初诊急性髓系白血病患者来源的骨髓间充质干细胞成骨分化能力增强
宁红梅,王军,苏永锋,徐晨,扈江伟,楼晓,李秀森,毛宁,陈虎

输血医学

- 1287 血站实验室 HIV 检测性能验证的研究
刘亚军,周君

临床血液学

- 1291 恶性血液病患者外周血中性粒细胞 CD64 指数检测方法初探
尚禹汐,崔建英,任潇潇,王立茹
- 1297 噬血细胞综合征患者肝功能损害的临床特点分析
唐伟萍,钟楠,陈志未,孔繁聪,魏艳淋,李菲

特发性多中心型 Castleman 病

- 1305 特发性多中心型 Castleman 病患者细胞因子谱特征的初步分析
马宁,刘绘绘,刘微,尹玥,王莉红,梁贲隐,许蔚林,王倩,李渊,王茫桔,欧晋平,王文生,岑溪南,任汉云,董玉君

综述

- 1311 双打击淋巴瘤诊断和治疗最新研究进展
魏鑫鑫,赵青,李德鹏,黄一虹
- 1316 嵌合抗原受体 T 细胞治疗复发难治性多发性骨髓瘤的最新研究进展
张芳荣,李昕,刘竞
- 1321 原发免疫性血小板减少症的免疫机制研究进展
黄炜祺,周咏明

1325	Ph 染色体阳性急性淋巴细胞白血病的治疗进展 田明杰,徐小康,赵松颖
1330	基因突变对造血干细胞移植后 MDS 患者预后评估作用的研究进展 胡玉梅,崔森,冀林华
1334	慢性髓系白血病异基因造血干细胞移植的研究进展 陈晓鹏,曹真睿,胡晶
1339	去甲基化药物在老年急性髓系白血病中的联合治疗进展 孙文宣,江滨
1344	PI3K/AKT 信号通路及 miRNA 在急性 T 淋巴细胞白血病中作用的研究进展 李永军,李晓菲,杨二换,史敏
1348	白血病异种移植模型的应用研究进展 杨翔,袁永平,陈懿建

读者·作者·编者

1093	刊误声明
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

JOURNAL OF EXPERIMENTAL HEMATOLOGY

(Established in April, 1993)

Bimonthly Volume 27 Number 4

August, 2019

Contents

ORIGINAL ARTICLES

Leukemia Basis and Clinic

995	Clinical Retrospective Analysis of Chronic Myeloid Leukemia in Myeloid Blast Crisis <i>YU Feng, YAO Zi-Long, LI Meng, LI Yan-Fen, LI Yan, LI Wen-Jun, LI Hong-Hua, JING Yu</i>
1001	Methylation of <i>CHD5</i> Gene Promoter Regulates p19^{Arf}/p53/p21^{Cip1} Pathway to Facilitate Pathogenesis of Acute Myeloid Leukemia <i>WU Ming-Cai, JIANG Ming, DONG Ting, LV Jun, FANG Ji-Yong, XU Lei, WEI Zhong-Ling, ZHANG Yao</i>
1008	Inhibitory Effect of <i>NPM</i> Gene Knockdown on Proliferation of Chronic Myeloid Leukemia Cell Line K562 and Its Mechanism <i>LIN Min-Hui, ZHENG Zhi-Hong, JIANG Pei-Fang, WU Zheng-Jun, GAN Dong-Hui, ZHANG Na, HU Jian-Da</i>
1013	Effect of Silencing LNK Gene on the Expression of EPO and EPOR in THP-1 Cells <i>TIAN Run-Mei, LUO Xi, TAN Mei, SHI Liang, HUANG Cheng-Shuang, SU Qiong, CHEN Yan</i>
1020	Effect of <i>SARI</i> Overexpression on Apoptosis of CBFL Cells and Its Mechanism <i>XUE Yan, FU Xiao-Meng, ZHENG Jin-Yuan, CHEN Mei-Huan, LIN Dong-Hong, XU Jian-Ping</i>
1026	EPO and EPOR Expression in Patients with Acute Leukemia and Its Clinical Significance <i>TIAN Run-Mei, HUANG Cheng-Shuang, SU Qiong, SHI Liang, LUO Xi, CHEN Yan</i>

Antileukemia Basis and Clinic

1033	Efficacy and Safety of the Induction Therapy with Different Doses of Anthracyclines for Patients with Newly Diagnosed Acute Promyelocytic Leukemia <i>WU Ya-Xue, HU Xiao-Hui, CHEN Su-Ning, QIU Hui-Ying, FU Cheng-Cheng, HAN Yue, LI Cai-Xia, MA Xiao, SUN Ai-Ning, TANG Xiao-Wen, WU De-Pei</i>
1040	Efficacy of CD19 Chimeric Antigen Receptors T Cells in the Treatment of Relapsed Patients with B Cell Acute Lymphoblastic Leukemia after Allogeneic Hematopoietic Stem Cell Transplantation <i>CHEN Hui-Ren, ZHANG Yuan, CHEN Peng, LIU Xiao-Dong, HUANG Qing, ZHANG Juan, LI Hui-Min, LIU Bing</i>
1046	Expression of Lysosomal Membrane Proteins LAMP1, TPC1 and TPC2 in Acute Myeloid Leukemia Cells and Its Clinical Significance <i>WANG Xiang, LING Bin-Qian, DAI Mei-Fang, WANG Xing-Bing</i>
1053	Relationship of PTEN/PI3K/AKT Signaling Pathway Protein Expression with Apoptosis and Drug-resistance of Children's ALL Primary Cells Treated with Daunorubicin <i>YANG Li, LI Jiao-Jiao, CHENG Yan-Yang, LU Wen-Jie, WANG Zhuo, TAO Fang, LI Jian-Xin, XU Zhi-Liang, XIONG Hao</i>
1058	Clinical Significance of <i>CRLF2</i> High Expression in Bone Marrow Mononuclear Cells from Children with Acute Lymphoblastic Leukemia <i>KUANG Wen-Yong, LI Wan-Li, ZHENG Min-Cui, YANG Hai-Xia, ZHANG Ben-Shan, WU Pan, HE Shan, SONG Na, LI Rui-Juan</i>
1064	Effect of Inhibiting NCL Expression on Drug-Resistance of Chronic Myeloid Leukemia Cell Line K562 and Its Resistant Cells <i>LIN Min-Hui, CHEN Yan-Xin, ZHANG Yun, WU Zheng-Jun, LIU Wei-Juan, HU Jian-Da</i>
1071	Expression Levels of <i>JARID1B</i>, <i>Hes1</i> and <i>MMP-9</i> Genes in CML Patients Treated with Imatinib Mesylate <i>HE Zhi-Kai, XUE Seng, ZHANG Yong-Hong, LI Lin, XIA Yun-Jin, WANG Xiang, SHI Xin, LIU Yu, XU Zheng, LI Chen, ZHANG Jing-Xuan</i>

1077 **Effects of *IDH2* Gene Mutation on Clinical Characteristics and Prognostic of Patients with Acute Myeloid Leukemia**
LUO Li-Qing, PENG Zhen-Yi, LIU Xiao, YU Wen-Zheng

1083 **Research for Adenanthin Targets Peroxiredoxin III to Induce Differentiation of Acute Promyelocytic Leukemia Cells**
MO Yun-Xi, LIU Dan-Li, GAO Shun-Li, YIN Xiao-Cheng

1088 **Effect of Low-Dose Triptolide and Sorafenib Alone and Their Combination on AML Cell Line MV411 and the Pathway of STAT5**
WANG Xue, MA Liang-Ming, WANG Tao, TIAN Wei-Wei, LU Yu-Jin

1094 **Efficacy of Quercetin-sensitized Adriamycin for Treatment of Refractory Acute Leukemia**
SHI Ying-Xu, DU Hua, SU Xiao-Tian, HAN Yan-Qiu

1104 **Influence of LBP alone or Combined with TRAIL on Apoptosis of MLL Rearranged Leukemic Cells**
CHEN Cheng, MA Yu, LI Yi-De, ZHANG Xiao-Chun

1111 **Apoptosis-Inducing Effect of Ginsenoside Rh2 on Human Acute T Lymphoblastic Leukemia Jurkat Cells and Its Mechanism**
NIE Liu, PENG Han-Ming

Lymphoma Basis and Clinic

1118 **Significance of Peripheral Blood Lymphatic to Monocyte Ratio in the Progress of PGI-DLBCL**
SUN Ke-Meng, SANG Wei, XU Lin-Yan, YAN Dong-Mei, SONG Xu-Guang, SUN Cai, SUN Xiao-Kun, XU Kai-Lin

1123 **Clinical Features and Prognosis of 35 Children with Burkitt Lymphoma/Leukemia**
ZHENG Yong-Zhi, LE Shao-Hua, ZHENG Hao, HUA Xue-Ling, CHEN Zai-Sheng, ZHENG Ling, CHEN Cai, LI Mei, CAI Chun-Xia, YANG Jing-Hui, CHEN Yi-Qiao, GAO Qin-Li, CHEN Ying-Ying, LI Jian, HU Jian-Da

1131 **Clinicopathological Analysis of Children' s Systemic EBV-Positive T-Cell Lymphoma**
ZHU Ying-Ying, DUAN Yong-Tao, SONG Li-Li, TAO Jing, GUAN Yu-Jie, LIU Wei, LI Yan-Ge, SHI Li-Huan

1138 **Clinical Efficacy of R-EDOCH Protocol in the Treatment of Newly Diagnosed Double Expression Lymphoma**
ZHANG Xu-Yan, HUANG Can, WANG Dian-Wen, ZOU Ling-Li, TU Chuan-Qing

1143 **Clinical Efficacy and Safety of R-CDOP Regimen for Treatment of Newly Treated DLBCL Patients with Adverse Prognostic Factors**
YANG Fu-Li, SHI Ming-Liang, WU Xi-Feng, QI Jiu-De

Multiple Myeloma Basis and Clinic

1149 **Inducing Effect of Decitabine on Apoptosis of KMS-18 Myeloma Cells and Its Mechanism**
WANG Xiao-Ning, ZHANG Mei, HE Peng-Cheng

1154 **Expression of IL-17 in Bone Marrow of Patients with Multiple Myeloma and Its Effect in Pathogenesis**
JIANG Ming-Ming, XIA Hai-Long

1159 **Correlation of IgG Levels at Initial Diagnosis with clinical Efficacy and Prognosis in 66 Patients with IgG Multiple Myeloma**
NIAN Fei-Ge, LI Feng, SHAO Liang-Jing, ZHAI Yong-Ping

1166 **Effects of Clinical Characteristics, Laboratory Parameters and Treatment Regimens on Prognosis of Patients with Multiple Myeloma**
XU Lu, CHEN Zhi-Lin, HU Min, TAO Shi, CHEN Yu, SU Gang-Hao

1173 **Clinical Significance of Serum Free Light Chain and Its κ/λ Ratio in Patients with Multiple Myeloma**
ZHAO Dan, JIANG Jia-Qi, LIN Lin

1179 **Significance of Bone Marrow Microvessel Density and Vascular-Related Factors in Multiple Myeloma**
XIE You-Bang, FANG Lai-Fu, JIANG Bai-Li, HAN Guo-Xiong, SHEN Kuo, LI Wen-Qian, CHEN Shao-Bin

1185 **Significance of Neutrophil/Lymphocyte Ratio and Platelet/Lymphocyte Ratio in Patients with Multiple Myeloma**
SUN Ju-Yong, MU Na, MU Jia, ZHANG Chang-Geng, WANG Dong-Mei

Myelodysplastic Syndrome

1190 **Analysis of Cytogenetic Characteristics and Clinical Prognosis in 236 Patients with Myelodysplastic Syndrome**
XIA Jing-Ya, WANG Ying, LI De-Peng, LI Zhen-Yu, QIU Ting-Ting,XU Kai-Lin

1196 **Relation of Circulating Follicular Helper T Cell Changes with B Cell Dysfunction in MDS Patients**
LIU Hui, CAO Hui-Qin, ZHAO Jian-Qiang

Anemia , Platelet Disease and Thrombayte

1201 **Relationship of Peripheral Blood IL-37 Expression with T Lymphocytes Subsets and NK Cells in Patients with Primary Immune Thrombocytopenia**
CHEN Zhen,QU Wen,WANG Hua-Quan,XING Li-Min,WU Yu-Hong,LIU Zhao-Yun,ZHANG Yang,LIU Hui,DONG Xi-Feng,TAO Jing-Lian,SHAO Zong-Hong

1208 **Angelica Polysaccharide Resists Platelets Apoptosis Induced by LY294002**
WEI Hui-Ling,LIU Chi-Xiang,CHEN Shi-Chao,YANG Mo

1215 **Efficacy of Low Dose Combined Chemotherapy for Patients with Relapsed and Refractory Aplastic Anemia-Paroxysmal Nocturnal Hemoglobinuria Syndrome**
LIN Ying, ZHANG Rong-Dong, CHEN Ren-Li

1220 **Clinical Significance of Screening Thalassemia with High-Throughput Sequencing**
WANG Ke, DANG Yu-Hui, LI Zhi-Lan, PU Yu-Dong, HE Shu-Zhen

1227 **Analysis of Genetic Screening in Couples of Reproductive Age for Thalassemia in Lingshui Li Autonomous County of Hainan Province**
TU Zhi-Hua, ZHOU Zhi,WU Wei-Xue,WANG Xiao-Peng,ZHOU Yang-Zhi, HUANG Ci-Dan,MA Ning, RUAN Hai-Ling, ZHAO Li-Qiang, WANG Jie

1232 **Genotypic and Phenotypic Analysis of $\alpha\beta$ -Thalassemia in Children**
REN Zhen-Min, XIAO Wei-Wei, LIU Si-Xi, LIU Yong-Qiu, LI Bing, CHEN Yun-Sheng

1236 **Predictive Effect of Platelet Activation Index Expression before and after Adenosine Bisphosphate Activation on Bleeding Risk in ITP Patients**
QIU Hong-Chun, LIU Qian, KONG Rong, WU Peng-Fei, ZHANG Xing-Li, WU De-Hong, WANG Yong

1241 **Clinical Significance of Platelet Membrane Glycoprotein GPIIb/IIIa in Diagnosis and Treatment of Immune Thrombocytopenia**
DI Zheng-Xia,GENG Yan,SUN Xiao-Lin,SU Ai-Yun,GUO Kun, LI Qing

Hematopoietic Stem Cell Transplantation

1246 **Efficacy Analysis of Unrelated Cord Blood Transplantation for High-Risk Refractory AML1 -ETO Positive Myeloid Leukemia**
REN Jia-Rong, ZHU Xiao-Yu, TANG Bao-Lin, WAN Xiang, TONG Juan, ZHANG Lei, ZHANG Xu-Han,SONG Kai-Di, YAO Wen, SUN Guang-Yu, LIU Hui-Lan, SUN Zi-Min

Cell Biology

1253 **Biological Properties of Mesenchymal Stem Cells Derived from Induced Pluripotent Stem Cells**
LYU Yun, WANG Li-Sheng

1259 **Effects of Bone Marrow Mesenchymal Stem Cells Derived from Patients with Newly Diagnosed Acute Myeloid Leukemia on the Cell Proliferation, Cell Cycle and Immunophenotypes of HL-60 Cells**
NING Hong-Mei, WANG Jun, SU Yong-Feng, XU Chen, HU Jiang-Wei, LOU Xiao, LI Xiu-Sen, MAO Ning, CHEN Hu

1265 **Influence of BMP4 on Regulation of Cell Cycle and Apoptosis of Hematopoietic Stem Cells/Progenitor Cells and Its Mechanism in Chemotherapy-Induced Myelosuppression**
XU Zheng-Yang, CHAI Shuo, ZHANG Xiao-Qing, CAO Yun, LIAN Chao-Qun, WU Wen-Juan, LI Yu-Yun

1272 **Isolation,Purification and Differentiation of Hematopoietic Stem Cells into Dendritic Cells in Mouse Lung Tissue**
LI Yi,WANG Xiao-Xu,FENG Mei

1277 **Bone Marrow Mesenchymal Stem Cells from Newly Diagnosed Acute Myeloid Leukemia Patients Exhibit Enhanced Osteogenic Differentiation Capacity**
NING Hong-Mei, WANG Jun, SU Yong-Feng, XU Chen, HU Jiang-Wei, LOU Xiao, LI Xiu-Sen, MAO Ning, CHEN Hu

Transfusion Medicine

1287 **Performance Verification of HIV Test in Blood Station Laboratory**
LIU Ya-Jun, ZHOU Jun

Clinical Hematology

1291 **Improvement of Method for Detecting Peripheral Blood Neutrophil CD64 Index in Patients with Hematologic Malignancies**
SHANG Yu-Xi, CUI Jian-Ying, REN Xiao-Xiao, WANG Li-Ru

1297 **Clinical Characteristics of Liver Dysfunction in Patients with Hemophagocytic Syndrome**
TANG Wei-Ping, ZONG Nang, CHEN Zhi-Wei, KONG Fan-Cong, WEI Yan-Lin, LI Fei

Idiopathic Multicentric Castleman Diseases

1305 **Preliminary Study on the Characteristic of Plasma Cytokine Profiles in Patients with Idiopathic Multicentric Castleman Diseases**
MA Ning, LIU Hui-Hui, LIU Wei, YIN Yue, WANG Li-Hong, LIANG Ze-Yin, XU Wei-Lin, WANG Qian, LI Yuan, WANG Mang-Ju, OU Jin-Ping, WANG Wen-Sheng, CEN Xi-Nan, REN Han-Yun, DONG Yu-Jun

REVIEWS

1311 **Advances in the Diagnosis and Therapy of Double-hit Lymphoma** ——Review
WEI Xin-Xin, ZHAO Qing, LI De-Peng, HUANG Yi-Hong

1316 **New Research Advances on Chimeric Antigen Receptor T Cells in the Treatment of Relapsed and Refractory Multiple Myeloma** ——Review
ZHANG Fang-Rong, LI Xin, LIU Jing

1321 **Research Progress on Immune Mechanism of Immune Thrombocytopenia** ——Review
HUANG Wei-Qi, ZHOU Yong-Ming

1325 **Advance in the Treatment of Ph Chromosome Positive Acute Lymphoblastic Leukemia** ——Review
TIAN Ming-Jie, XU Xiao-Kang, ZHAO Song-Ying

1330 **Research Progress on Role of Gene Mutations in Prognostic Evaluation of Patients with Myelodysplastic Syndrome after Stem-Cell Transplantation** ——Review
HU Yu-Mei, CUI Sen, JI Lin-Hua

1334 **Advances in Allogeneic Hematopoietic Stem Cell Transplantation for Chronic Myelogenous Leukemia** ——Review
CHEN Xiao-Peng, CAO Zhen-Rui, HU Jing

1339 **Research Advances on Combination Strategies of Demethylating Agents for Elderly Acute Myeloid Leukemia** ——Review
SUN Wen-Xuan, JIANG Bin

1344 **Reaserch Advances on the Role of PI3K/AKT Signaling Pathway and MiRNA in Acute T-Cell Lymphocytic Leukemia** ——Review
LI Yong-Jun, LI Xiao-Fei, YANG Er-Huan, SHI Min

1348 **Advances of Research on Application of Leukemia Xenotransplantation Model** ——Review
YANG Xiang, YUAN Yong-Ping, CHEN Yi-Jian

本广告仅供医学药学专业人士阅读!

国药准字H20170010 (5mg)
国药准字H20170011 (10mg)
国药准字H20170009 (25mg)



立生®
Lenalidomide Capsule
5mg 10mg 25mg

来那度胺胶囊

国家新药，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】

适用于

- 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

禁忌：

- 孕妇。
- 未达到所有避孕要求的可能怀孕的女性。
- 对本品活性成分或其中任何辅料过敏者。

最常见的不良反应：疲乏，中性粒细胞减少，便秘，腹泻，肌肉痉挛，贫血，血小板减少和皮疹。



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2018090466

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