

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,EBSCO和《CA》收录源期刊

WHO西太平洋区医学索引(WPRIM)收录源期刊

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

2013年2月 第21卷 第1期

JOURNAL OF EXPERIMENTAL HEMATOLOGY

Volume 21

Number 1

February 2013

中国病理生理学会
CHINESE
ASSOCIATION OF
PATHOPHYSIOLOGY

ISSN 1009-2137



9 771009 213135

目次

论著

白血病基础与临床

- 1 eIF4E 在白血病中的表达及其临床意义
祝亮方, 陈鑫基, 胡建达
- 7 急性髓系白血病 *FANCG* 基因表达的研究
段现良, 王庆玲, 王金刚, 王昌玉, 樊华
- 12 *RHBDD1* 基因在慢性髓系白血病患者骨髓细胞中的表达及临床意义
蔺亚妮, 桂福民, 沈慧, 王芳, 曹增, 李庆华, 王建祥, 庞天翔
- 16 整合素蛋白连接激酶和蛋白激酶 B 在急性白血病中的表达及意义
孙婷, 孙慧, 马杰, 刘廷方, 王桂叶, 左彩莹
- 20 急性髓系白血病中 *RAGE-1* 基因的表达
柴海彦, 钱军, 林江, 杨静, 李云, 王翠竹, 陈星星, 陈芹, 邓兆群, 姚冬明, 马吉春
- 25 Btk 及 NF κ B 在急性髓系白血病细胞中的表达及其意义
陶善东, 邓媛, 何正梅, 陈月, 邓之奎, 李元媛, 朱家斌, 丁邦和, 于亮
- 29 急性白血病骨髓细胞线粒体 DNA D-loop 区的突变检测
韩卉, 李大启, 陈萍, 邵建华, 赵红玉, 董学斌, 顾琳萍
- 34 NME3 蛋白在急性髓系白血病细胞株 HL-60 和患者骨髓表达趋势研究
王伟佳, 张秀明

抗白血病基础与临床

- 39 急性早幼粒细胞白血病中常见白血病基因突变的检测及其临床意义
尹佳, 孙爱宁, 田孝鹏, 田兹, 王蓉娴, 杨贞, 王秀丽, 吴德沛, 仇惠英, 潘金兰, 岑建农, 梁建英, 陈苏宁
- 45 抑制钠氢交换蛋白下调 IL-8 表达和促进 p38 磷酸化
高伟, 张玉娟, 张海瑞, 金薇娜, 常国强, 张洪菊, 马丽, 蔺亚妮, 李庆华, 茹永新, 庞天翔
- 49 柔红霉素对 KG1a 细胞增殖及肿瘤相关抗原 Eps8 表达的影响
甘金莹, 熊文艳, 王磊, 蔡宋浩, 李玉华
- 53 大黄素衍生物的合成及其抑制白血病细胞增殖作用的研究
郑君婷, 王文峰, 李静, 郑志宏, 刘庭波, 胡建达
- 57 初发急性髓系白血病诱导化疗后外周血 MRD 早期检测与临床疗效的关系
钟旭妹, 兰菲, 崔旭, 蒋能刚, 朱焕玲, 贾永前
- 62 地西他滨联合自体 CIK 细胞治疗 2 例高龄急性髓系白血病的疗效观察
常城, 杨波, 张琳, 朱宏丽, 卢学春, 郭搏, 蔡力力, 韩为东, 王瑶, 范辉, 李素霞, 刘洋, 杨洋, 翟冰, 丹海红, 林洁, 张峰

- 68 直接 RT-PCR 扩增法研究 miR-223 在儿童急性淋巴细胞白血病血浆中的异常表达
鲁晓静, 江倩, 黄鹏丽, 李刚, 张文娟, 赵晓曦, 郑胡楠
- 73 丙戊酸抗裸鼠 Kasumi-1 细胞移植瘤血管新生的作用研究
王丽红, 张志华, 赵蕾, 朱翠敏, 赵立双, 郝长来
- 78 高三尖杉酯碱对 K562 细胞 NF- κ B 和 BCL-2 蛋白表达的影响
叶丽霖, 曹维克, 史玉叶, 邓之奎, 陶善东, 吉萍, 付宪华, 宗明珠, 李玉峰
- 82 沉默 *SUV39H1* 基因对急性髓系白血病 KG-1 细胞凋亡的影响
马旭东, 赵婷, 黄轶群

淋巴瘤基础与临床

- 87 伴血象异常的脾边缘区淋巴瘤的临床特点
杨申森, 江倩, 江滨, 陈定宝, 王婧, 江浩, 路瑾, 卢锡京, 鲍立, 石红霞, 刘艳荣, 黄晓军
- 95 结外 NK/T 细胞淋巴瘤组织中 MCL-1 和 *microRNA-29a* 的表达
黄豪博, 战榕, 吴顺泉, 徐珍珍, 范丽萍

多发性骨髓瘤

- 99 奥沙利铂诱导人骨髓瘤细胞 RPM18226 凋亡机制的实验研究
刘保兰, 刘心, 周秦岑, 齐美颖, 徐波

骨髓增生异常综合征

- 105 藤黄酸对 SKM-1 细胞生长抑制作用及其机制
孙耘玉, 王淑君, 陈宝安, 夏国华, 丁家华, 高冲, 宋慧慧, 郭青龙, 张海伟, 李春蕊, 周剑锋
- 110 骨髓增生异常综合征患者骨髓中端粒保护蛋白 TIN2 和 POT1 的 mRNA 表达
叶芳, 何玉梅, 李国霞, 王丽娜, 贾宁, 马瑞霞, 马艳萍
- 116 间期荧光原位杂交技术检测骨髓增生异常综合征患者的染色体异常
茹晓, 李青, 房孝生, 李英, 王欣, 张凌岩
- 121 地西他滨治疗骨髓增生异常综合征和急性髓系白血病的临床观察
杨华, 朱海燕, 姜孟孟, 王全顺, 韩晓萍, 黄文荣, 靖或, 王书红, 张松松, 梅俊辉, 于力

出血与血栓病

- 126 人血管性血友病因子裂解蛋白酶 pEGFP-N1 真核表达载体的构建及其在 HeLa 细胞中的表达
凌靖, 马珍妮, 苏建, 阮长耿
- 130 特发性血小板减少性紫癜血小板差异蛋白质组诊断模型的实验研究
周攀, 丁银环, 何鹏, 吴鹏强, 刘文军, 王开正
- 135 免疫性血小板减少症患者 *Fc γ R II A*、*Fc γ R III A*、*Fc γ R II B* 基因多态性及其临床意义初探
朱颖, 庄芸, 杨国华, 钱锡峰, 杨蕾, 沈云峰

母细胞性浆细胞样树突细胞肿瘤

- 140 儿童母细胞性浆细胞样树突细胞肿瘤 1 例分析
马磊, 黎阳, 刘玲, 郭海霞, 薛红漫, 林素暇, 徐宏贵, 黄绍良, 陈纯, 方建培

朗格汉斯细胞组织细胞增生症

- 146 JLSG 方案治疗儿童多系统朗格汉斯细胞组织细胞增生症
黄俊彬, 薛红漫, 陈岩岩, 黄科

辐射血液学

- 150 rhIL-12 对恒河猴造血系统辐射防护作用的初步研究
熊国林,赵毅,邢爽,申星,宁学成,卢世香,李建,郭玲玲,郝锐,陈廷超,缪锦来,贺济琛,罗庆良

造血干细胞移植

- 155 活化性及抑制性免疫球蛋白样受体对非去 T 细胞异基因造血干细胞移植预后的影响
梁贻隐,任汉云,岑溪南,邱志祥,王莉红,欧晋平,李渊,王茫桔,王文生,许蔚林,董玉君,尹玥,孙玉华
- 161 异基因移植患者 RQ-PCR 监测巨细胞病毒感染并指导抢先治疗的临床研究(英文)
李艳,高丽,王莉莉,丁一,徐媛媛,李红华,靖斌,薄剑,黄文荣,王全顺,高春记,于力
- 169 单中心 191 例健康供者应用 G-CSF 动员造血干细胞的影响因素分析
王倩,袁磊,李红华,赵瑜,黄文荣,薄剑,王书红,朱海燕,窦立萍,王全顺,于力,靖斌
- 173 乙型肝炎病毒感染对造血干细胞移植后肝脏功能的影响
王东平,王军,李广文,高宗科,赵增强,梁政,魏朝朗,张伯龙
- 177 深低温冻存不同时间对脐血细胞质量的影响
黄璐,宋瑰琦,吴云,汪健

间充质干细胞生物学

- 181 华通胶间充质干细胞低温保存后生物学特性研究
沈建良,宫立众,岑坚,刘毅,王立新,尹文杰,赵德峰,马巍娜,黄友章
- 188 ECSOD 体外转染恒河猴骨髓间充质干细胞的实验研究
申星,郭玲玲,熊国林,董波,余祖胤,从玉文,罗庆良,邢爽
- 193 确证家兔外周血中存在具有多向分化能力的间充质干细胞
刘小慧,章涛,方宁,张潜,黄跃,刘金伟,汤宁宁

分子血液学与免疫血液学

- 198 小鼠 *CXCR4* 基因慢病毒载体构建与真核表达
李森,陈伟,安新江,曹军华,范从海,尹力扬,张春霞,孙浩森
- 203 再生障碍性贫血、骨髓增生异常综合征、急性髓系白血病患者 CD8⁺T 细胞亚群的变化及临床意义
张婧瑶,许洪志,尹冬梅,冯秀梅,隋潇徽,崔彬,马春燕

输血医学

- 209 鼠抗人血小板 CD36 分子单克隆抗体的制备及活性分析
陈麟凤,张杰,杨嘉慧,罗圆圆,庄远,李卉,冯倩,汪德清
- 214 围术期输血对患者术后感染的影响
庄远,张冬青,王淑英,周武,潘纪春,汪德清

综述

- 218 SUMO 化修饰与血液系统疾病
黄禾菁,侯健
- 222 microRNA 调控树突状细胞研究的新进展
陈继德,朱恒,张毅

- 227 间充质干细胞来源微泡的研究进展
王晓庆,朱晓健,邹萍
- 231 儿童急性淋巴细胞白血病骨髓复发机制研究进展
焦莹,李志刚
- 236 多药耐药相关蛋白及其与急性白血病的关系
厉智,陈宝安
- 241 肾功能指标检测对多发性骨髓瘤早期肾损害的诊断价值
刘诗静,翟勇平
- 245 PI3K/AKT/mTOR 信号通路在造血干细胞中作用的研究进展
张英驰,程涛,袁卫平
- 250 Hedgehog 信号通路介导白血病干细胞耐药
夏平方,彭琪,余妙容
- 254 血小板生成素信号通路的分子机制及对多种细胞的作用
肖彬,叶洁瑜,徐月,杨默
- 258 急性髓系白血病 *NPM1* 基因突变研究
陈华英 综述,鹿全意 审校

读者 · 作者 · 编者

- 15 第十四届全国红细胞疾病(贫血)学术年会征文通知
- 86 2013年《中国实验血液学杂志》征订启事
- 98 《中国实验血液学杂志》投稿简则
- 115 作者更正“所属单位”
- 封三 《中国实验血液学杂志》第7届编辑委员会

JOURNAL OF EXPERIMENTAL HEMATOLOGY

(Established in April, 1993)

Bimonthly Volume 21 Number 1

February, 2013

Contents

ORIGINAL ARTICLES

Leukemia Basis and Clinic

- 1 **Expression of eIF4E in Patients with Leukemia and Its Clinical Significance**
ZHU Liang-Fang, CHEN Xin-Ji, HU Jian-Da
- 7 **Expression of FANCG Gene in Acute Myeloid Leukemia**
DUAN Xian-Liang, WANG Qin-Ling, WANG Jin-Gang, WANG Chang-Yu, FAN Hua
- 12 **Expression of RHBDD1 Gene in Patients with Chronic Myeloid Leukemia and Its Clinical Significance**
LIN Ya-Ni, GUI Fu-Min, SHEN Hui, WANG Fang, CAO Zeng, LI Qing-Hua, WANG Jian-Xiang, PANG Tian-Xiang
- 16 **Expression of ILK and PKB/Akt in Acute Leukemia and Its Significance**
SUN Ting, SUN Hui, MA Jie, LIU Yan-Fang, WANG Gui-ye, ZUO Cai-Ying
- 20 **Expression of RAGE-1 Gene in Acute Myeloid Leukemia**
CHAI Hai-Yan, QIAN Jun, LIN Jiang, YANG Jing, LI Yun, WANG Cui-Zhu, CHEN Xing-Xing, CHEN Qin, DENG Zhao-Qun, YAO Dong-Ming, MA Ji-Chun
- 25 **Expression of Btk and NF- κ B in Acute Myeloid Leukemia Cells and Its Significance**
TAO Shan-Dong, DENG Yuan, HE Zheng-Mei, CHEN Yue, DENG Zhi-Kui, LI Yuan-Yuan, ZHU Jia-Bin, DING Bang-He, YU Liang
- 29 **Mutation Detection of Mitochondrial DNA D-loop Region in Bone Marrow Cells of Acute Leukemia**
HAN Hui, LI Da-Qi, CHEN Ping, SHAO Jian-Hua, ZHAO Hong-Yu, DONG Xue-Bin, GU Lin-Ping
- 34 **Expressing Trend of NME3 Protein in Acute Myeloid Leukemia HL-60 Cells and Patients' Bone Marrow**
WANG Wei-Jia, ZHANG Xiu-Ming

Antileukemia Basis and Clinic

- 39 **Clinical Significance of Common Leukemia Gene Mutations in Patients with Acute Promyelocytic Leukemia**
YIN Jia, SUN Ai-Ning, TIAN Xiao-Peng, TIAN Hong, WANG Rong-Xian, YANG Zhen, WANG Xiu-Li, WU De-Pei, QIU Hui-Ying, PAN Jin-Lan, CEN Jian-Nong, LIANG Jian-Ying, CHEN Su-Ning
- 45 **Inhibition of NHE1 Down-regulates IL-8 Expression and Enhances p38 Phosphorylation**
GAO Wei, ZHANG Yu-Juan, ZHANG Hai-Rui, JIN Wei-Na, CHANG Guo-Qiang, ZHANG Hong-Ju, MA Li, LIN Ya-Ni, LI Qing-Hua, RU Rong-Xin, PANG Tian-Xiang
- 49 **Effects of Daunorubicin on KG1a Cell Proliferation and Eps8 Expression**
CAN Jin-Ying, XIONG Wen-Yan, WANG Lei, CAI Song-Hao, LI Yu-Hua
- 53 **Synthesis of Emodin Derivatives and Their Inhibiting Effects on Proliferation of Leukemia Cell Lines**
ZHENG Jun-Ting, WANG Wen-Feng, LI Jing, ZHENG Zhi-Hong, LIU Ting-Bo, HU Jian-Da
- 57 **Early Detection of MRD in Peripheral Blood after induction Chemotherapy of Newly Diagnosed Patients with AML and Its Correlation with Curative Effects**
ZHONG Xu-Shu, LAN Fei, CUI Xu, JIANG Neng-Gang, ZHU Huan-Ling, JIA Yong-Qian
- 62 **Curative Effect of Decitabine Combined with Cytokine-Induced Killer Cells in Two Elderly Patients with Acute Myeloid Leukemia**
CHANG Cheng, YANG Bo, ZHANG Lin, ZHU Hong-Li, LU Xue-Chun, GUO Bo, CAI Li-Li, HAN Wei-Dong, WANG Yao, FAN Hui, LI Su-Xia, LIU Yang, YANG Yang, ZHAI Bing, RAN Hai-Hong, LIN Jie, ZHANG Feng

- 68 **Preliminary Analysis of Aberrant Expression of Plasma miR-223 in Pediatric Acute Lymphoblastic Leukemia with a direct RT-PCR assay**
LU Xiao-Jing, JIANG Qian, HUANG Peng-Li, LI Gang, ZHANG Wen-Juan, ZHAO Xiao-Xi, ZHENG Hu-Yong
- 73 **Effect of Valproic Acid against Angiogenesis of Kasumi-1 Xenograft Tumor in Nude Mice**
WANG Li-Hong, ZHANG Zhi-Hua, ZHAO Lei, ZHU Cui-Min, ZHAO Li-Shuang, HAO Chang-Lai
- 78 **Effect of Homoharringtonine on Expression of NF- κ B and BCL-2 Proteins in K562 Cells**
YE Li-Lin, CAO Wei-Ke, SHI Yu-Ye, DENG Zhi-Kui, TAO Shan-Dong, JI Ping, FU Xian-Hua, ZONG Ming-Zhu, LI Yu-Feng
- 82 **Effect of SUV39HI siRNA Silence on Apoptosis and Proliferation of Acute Myelogenous Leukemia KG-1 Cell Line**
MA Xu-Dong, ZHAO Ting, HUANG Yi-Qun

Lymphoma Basis and Clinic

- 87 **Clinical Characteristics of Splenic Marginal Zone Lymphoma with Abnormal Complete Blood Count**
YANG Shen-Miao, JIANG Qian, JIANG Bin, CHEN Ding-Bao, WANG Jing, JIANG Hao, LU Jin, LU Xi-Jing, BAO Li, SHI Hong-Xia, LIU Yan-Rong, HUANG Xiao-Jun
- 95 **Expression of MCL-1 and MicroRNA-29a in Extranodal NK/T-Cell Lymphoma Tissue**
HUANG Hao-Bo, ZHAN Rong, WU Shun-Quan, XU Zhen-Zhen, FAN Li-Ping

Multiple myeloma

- 99 **Mechanisms of Oxaliplatin-Induced Apoptosis of Human Multiple Myeloma Cell RPMI8226**
LIU Bao-Lan, LIU Xin, ZHOU Nai-Cen, QI Mei-Ying, XU Bo

Myelodysplastic Syndrome

- 105 **Effect of Gambogic Acid on Proliferation of SKM-1 Cells and Its Mechanism**
SUN Yun-Yu, WANG Shu-Jun, CHEN Bao-An, XIA Guo-Hua, DING Jia-Hua, GAO Chong, SONG Hui-Hui, GUO Qing-Long, ZHANG Hai-Wei, LI Chun-Rui, ZHOU Juan-Feng
- 110 **mRNA Expression of Telomere Protection Protein TIN2 and POT1 in Bone Marrow of Patients with Myelodysplastic Syndrome**
YE Fang, HE Yu-Mei, LI Guo-Xia, WANG Li-Na, JIA Ning, MA Rui-Xia, MA Yan-Ping
- 116 **Detection of Chromosome Abnormalities in Myelodysplastic Syndromes with Interval Fluorescence *in Situ* Hybridization**
RU Xiao, LI Qing, FANG Xiao-Sheng, LI Ying, WANG Xin, ZHANG Ling-Yan
- 121 **Clinical Observation of Decitabine-Treating Patients with Myelodysplastic Syndrome and Acute Myeloid Leukemia**
YANG Hua, ZHU Hai-Yan, JIANG Meng-Meng, WANG Quan-Shun, HAN Xiao-Ping, HUANG Wen-Rong, JING Yu, WANG Shu-Hong, ZHANG Song-Song, MEI Jun-Hui, YU Li

Hemorrhage and Thrombosis Disorder

- 126 **Construction of ADAMTS13-pEGFP-N1 Vector and Its Expression in HeLa Cells**
LING Jing, MA Zhen-Ni, SU Jian, RUAN Chang-Geng
- 130 **Diagnosis Model of Idiopathic Thrombocytopenic Purpura based on Platelet Differential Proteome**
ZHOU Pan, DING Yin-Huan, HE Peng, WU Peng-Qiang, LIU Wen-Jun, WANG Kai-Zheng
- 135 **Polymorphisms of *Fc γ R II A*, *Fc γ R III A* and *Fc γ R II B* in Patients with Immune Thrombocytopenia and their Clinical Significance**
ZHU Ying, ZHUANG Yun, YANG Cuo-Hua, QIANC Xi-Feng, YANG Lei, SHEN Yun-Feng

Blastic Plasmacytoid Dendritic Cell Neoplasm

- 140 **Analysis of One Case of Adolescent Blastic Plasmacytoid Dendritic Cell Neoplasm**
MA Lei, LI Yang, LIU Ling, GUO Hai-Xia, XUE Hong-Man, LIN Su-Xia, XU Hong-Gui, HUANG Shao-Liang, CHEN Chun, FANG Jian-Pei

Langerhans Cell Histiocytosis

- 146 **Treatment of Children with Multiple System Langerhans Cell Histiocytosis by Japan Langerhans Cell Histiocytosis Study Group Protocol**
HUANG Jun-Bin, XUE Hong-Man, CHEN Yan-Yan, HUANG Ke

Radiation Hematology

- 150 **Radiation Protection Effect of rhIL-12 on Monkey Hematopoietic System**
XIONG Guo-Lin, ZHAO Yi, XING Shuang, SHEN Xing, NING Xue-Cheng, LU Shi-Xiang, LI Jian, GUO Ling-Ling, HAO Rui, CHEN Ting-Chao, MIAO Jin-Lai, HE Ji-Chen, LUO Qing-Liang

Hematopoietic Stem Cell Transplantation

- 155 **Influence of Donor Activating or Inhibitory KIR on Prognosis of Unmanipulated Allogeneic Hematopoietic Stem Cell Transplantation**
LIANG Ze-Yin, REN Han-Yun, CEN Xi-Nan, QIU Zhi-Xiang, WANG Li-Hong, OU Jin-Ping, LI Yuan, WANG Mang-Ju, WANG Wen-Sheng, XU Wei-Lin, DONG Yu-Jun, YIN Yue, SUN Yu-Hua
- 161 **Surveillance of CMV Infection in allo-HSCT Recipients and Guidance on Preemptive Therapy by RQ-PCR (in English)**
LI Yan, GAO Li, WANG Li-Li, DING Yi, XU Yuan-Yuan, LI Hong-Hua, JING Yu, BO Jian, HUANG Wen-Rong, WANG Quan-Shun, GAO Chun-Ji, YU Li
- 169 **Analysis of Influence Factors on G-CSF-Mobilized Hematopoietic Stem Cells of 191 Healthy Donors in a Monocenter**
WANG Qian, YUAN Lei, LI Hong-Hua, ZHAO Yu, HUANG Wen-Rong, BO Jian, WANG Shu-Hong, ZHU Hai-Yan, DOU Li-Ping, WANG Quan-Shun, YU Li, JING Yu
- 173 **Impact of Hepatitis B Virus Infection on Liver Function After Hematopoietic Stem Cell Transplantation**
WANG Dong-Ping, WANG Jun, LI Guang-Wen, GAO Zong-Ke, ZHAO Zeng-Qiang, LIANG Zheng, WEI Chao-Lang, ZHANG Bo-Long
- 177 **Effect of Different Cryopreservation Time on Quality of Umbilical Cord Blood Cells**
HUANG Lu, SONG Gui-Qi, WU Yun, Wang Jian

Mesenchymal Stem Cell Biology

- 181 **Biological Characteristics of Wharton's Jelly Derived Mesenchymal Stem Cells after Cryopreservation**
SHEN Jian-Liang, GONG Li-Zhong, CEN Jian, LIU Yi, WANG Li-Xing, YIN Wen-Jie, ZHAO De-Feng, MA Wei-Na, HUANG You-Zhang
- 188 **Transfection of ECSOD to Rhesus Bone Marrow Mesenchymal Stem Cells *In Vitro***
SHEN Xing, GUO Ling-Ling, XIONG Guo-Lin, DONG Bo, YU Zu-Yin, CONG Yu-Wen, LUO Qing-Liang, XING Shuang
- 193 **Verification of Multipotential Mesenchymal Stem Cell Presence in Peripheral Blood of Rabbits**
LIU Xiao-Hui, ZHANG Tao, FANG Ning, ZHANG Qian, HUANG Yue, LIU Jin-Wei, TANG Ning-Ning

Molecular and Immunologic Hematology

- 198 **Construction of Lentiviral Vector for Mouse CXC Chemokine Receptor 4 Gene and Its Expression in Eukaryotic Cells**
LI Miao, CHEN Wei, AN Xin-Jiang, CAO Jun-Hua, FAN Cong-Hai, YIN Li-Yang, ZHANG Chun-Xia, SUN Hao-Miao
- 203 **Changes and Clinical Significance of CD8⁺ T Cell Subset in Patients with Aplastic Anemia, Myelodysplastic Syndrome and Acute Myeloid Leukemia**
ZHANG Jing-Yao, XU Hong-Zhi, YIN Dong-Mei, FENG Xiu-Mei, SUI Xiao-Hui, CUI Bin, MA Chun-Yan

Transfusion Medicine

- 209 **Preparation and Activity Analysis of Mouse Anti Human Platelet CD36 Monoclonal Antibody**
CHEN Lin-Feng, ZHANG Jie, YANG Ja-Hui, LUO Yuan-Yuan, ZHUANG Yuan, LI Hui, FENG Qian, WANG De-Qing

- 214 **Effects of Perioperative Blood Transfusion on the Severity of Postoperative Infection**
ZHUANG Yuan, ZHANG Dong-Qing, WANG Shu-Ying, ZHOU Wu, PAN Ji-Chun, WANG De-Qing

REVIEWS

- 218 **Sumoylation and Its Role in Hematological Disease**—*Review*
HUANG He-Jing, HOU Jian
- 222 **Latest Advances of Studies on microRNA Regulation in Dendritic Cells** —*Review*
CHEN Ji-De, ZHU Heng, ZHANG Yi
- 227 **Research Progress on Mesenchymal Stem Cell-derived Microvesicle** —*Review*
WANG Xiao-Qing, ZHU Xiao-Jian, ZOU Ping
- 231 **Research Progression Mechanism of Bone Marrow Relapse in Pediatric Acute Lymphoblastic Leukemia**
 —*Review*
JIAO Ying, LI Zhi-Gang
- 236 **Multidrug Resistance-related Proteins and Their Relationship with Acute Leukemia**—*Review*
Li Zhi, CHEN Bao-An
- 241 **Diagnostic Value of Renal Function Parameter Detection of Early Renal Damage in Multiple Myeloma**
 —*Review*
LIU Shi-Jing, ZHAI Yong-Ping
- 245 **Recent Studies on PI3K/AKT/mTOR Signaling Pathway in Hematopoietic Stem Cells**—*Review*
ZHANG Ying-Chi, CHENG Tao, YUAN Wei-Ping
- 250 **Drug Resistance of Leukemic Stem Cells Mediated by Hedgehog Signaling Pathway** —*Review*
XIA Ping-Fang, PENG Qi, SHE Miao-Rong
- 254 **Molecular Mechanism of Thrombopietin Signal Pathways and Its New Effects** —*Review*
XIAO Bin, YE Jie-Yu, XU Yue, YANG Mo
- 258 **Research on NPM1 Gene Mutations in Acute Myeloid Leukemia** —*Review*
CHEN Hua-Ying reviewer, Lu Quan-Yi revisor