

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

2012年4月 第20卷 第2期

JOURNAL OF EXPERIMENTAL HEMATOLOGY

Volume 20

Number 2

April 2012

中国病理生理学会

CHINESE

ASSOCIATION OF

PATHOPHYSIOLOGY

ISSN 1009-2137



目次

论著

抗白血病基础

- 229 醋酸棉酚诱导淋巴细胞白血病细胞凋亡的作用及联合地塞米松的效应
程玮,赵永强,李玉梅,杨大俊
- 235 抑制 NAMPT 表达增强 K562 细胞对伊马替尼的敏感性及相关机制研究
林萍萍,白雪佳,岳志霞,闫韶飞,李宗文,高超,梅妍妍,王凯玲,
李伟京,丁卫,李志刚
- 242 AML 骨髓“前 ALIP”样结构数量及其与骨小梁距离对白血病复发的影响
俞夜花,章菁,吴振添,袁颖华,翟元梅,陶英,侯健,石军
- 246 晚期糖基化终末产物和汉防己甲素对 K562 及 K562/A02 细胞增殖的影响
王钊钊,燕丹,陈宝安,王坚,夏国华,王帅,程坚,丁家华,鲍文
- 252 藤黄酸对白血病 K562/A02 细胞的耐药逆转作用
田亮,刘娟,陈宝安,程坚,丁家华,王帅,夏国华,高峰,邵泽叶,张海军,
郭青龙,张海伟,王磊,任艳艳,蔡晓辉,刘菁
- 258 siRNA 特异性抑制 K562 细胞 *Linin* 基因表达及其诱导凋亡作用
吕建,陈智超,李秋柏,邵菁,游泳,邹萍
- 262 小檗碱对 HL-60 细胞增殖、凋亡及血管内皮生长因子受体 2 表达的影响
林少珠,陈铭珍,黄秀兰
- 268 辛伐他汀对人急性单核细胞白血病 SHI-1 细胞 PI3K/AKT 通路的影响
曹梅,顾伟英,江庭秀,陈子兴,邱国强,李曼,吴浩清,
王志林,谢晓宝,曹祥山
- 273 尖吻蝥蛇毒抑瘤组分 I 通过促进半胱天冬酶 3 表达诱导 K562/A02 细胞凋亡
周兵,张根葆,段婷,周珏,吴娟
- 277 AZT 对白血病细胞株 KG-1a 细胞增殖和端粒酶活性的影响
靳蕊蕊,晁荣,席亚明,陈彻,楚惠媛,李明,张豪

白血病基础

- 282 儿童肿瘤及急性白血病中 ICAM-1 (CD54) 的表达及在 CIK 细胞免疫治疗中的临床意义
熊稀霖,黎阳,王林,魏菁,马磊,沈溪明
- 287 1 例伴 12 三体染色体核型异常的慢性淋巴细胞白血病转化为 Richter 综合征
许贞书,张金燕,战榕,郑志宏,吴顺泉,陈志哲
- 291 髓系肿瘤 *PDGFRB* 基因异常的多态性及临床特点
王全顺,高丽,靖斌,朱海燕,杨华,于力

- 296 NKG2D 在 NK 细胞杀伤血液肿瘤细胞中的作用
王蔚,高丽,马一盖
- 300 HOXA9 在髓系白血病细胞 HL-60 中的表达及药物对其干预作用
郭宏伟,刘文君

淋巴瘤基础与临床

- 305 淋巴瘤患者血浆中 miR-21、miR-155、miR-210 的表达及临床意义
葛甜甜,梁勇,付蓉,王国锦,阮二宝,瞿文,王晓明,刘鸿,吴玉红,宋嘉,王化泉,邢莉氏,关晶,李丽娟,邵宗鸿
- 310 破壁灵芝孢子粉对裸鼠移植性淋巴瘤生长的抑制作用
陈娟,余英豪
- 315 免疫化疗对弥漫性大 B 细胞淋巴瘤患者预后评价因子的影响
陆弘逾,宋陆茜
- 320 早期霍奇金淋巴瘤不同治疗模式 104 例回顾性分析
杜婷婷,肖秀斌,苏航,达永,陈喜林,仲凯励,赵世华,鲁云,王典,张伟京
- 325 组织因子相关血小板微粒对恶性淋巴瘤患者血栓发生的提示作用
唐云龙,周燕,王纯斌,秦燕,冯健,秦婧
- 329 SUDHL-4 细胞体外培养和小鼠肿瘤模型的建立
王永芹,霍宏婕,路玲玲,徐鸣,朱建平,汪洋

多发性骨髓瘤

- 335 雷公藤内酯醇对硼替佐米诱导多发性骨髓瘤细胞凋亡的影响
杨洋,董红娟,高广勤,王一苇,顾宏涛,陈协群
- 339 本周氏蛋白催化作用与多发性骨髓瘤患者肾损伤的关系
周晓,翟勇平,梅建刚,安志明,周小钢,史平,于亚平,刘海宁,宋萍
- 344 多发性骨髓瘤患者血清血管内皮生长因子和白介素-17 水平变化的临床意义
董沙沙,李广伦,杨娟
- 348 沙利度胺联合 VAD 方案治疗骨硬化性骨髓瘤(POEMS 综合征)临床观察
周建文,孙慧,甘思林,刘延方,孙玲,万鼎铭,孟小莉

骨髓增生异常综合症

- 352 p57kip2 在初发 MDS 患者的表达及与 SDF-1/CXCR4 信号的关系
赵佑山,郭娟,杨瑞,顾树程,张曦,周立宇,李晚,常春康
- 358 microRNA-124 在白血病及骨髓增生异常综合征患者中的表达异常及其意义
夏巧,胡俊,五月生

骨髓增殖性疾病

- 362 骨髓增殖性疾病 JAK2V617F 与 46/1 JAK2 基因单体型的关系及 46/1 单体型在中国不同民族中的分布
田正芹,朱平,刘红星,陈艳,王芳,张阳,滕文,樊艺文,夏君燕,白德成,刘倩,伍学强
- 368 埃罗替尼对 JAK2V617F 阳性细胞体外增殖分化的影响
任媛媛,张凌岩,李英
- 372 吉非替尼和拉帕替尼对 HEL 细胞增殖的抑制作用
何祥萌,张凌岩,李英

血小板、出血与血栓

- 376 巴曲亭及其有效成分对出血性疾病患者凝血功能的影响
王瑞娟,王兆铨,江明华,张威,曹丽娟,孙雄华,张剑,白霞,阮长耿
- 381 临床 727 例次单采血小板输注效果分析
桂嵘,聂新民,文贤慧,刘竞
- 386 亚硝基谷胱甘肽对冰冻血小板聚集及一氧化氮含量的影响
吴涛,刘景汉,李卉,周武,王淑英
- 390 平均血小板容积、纤维蛋白原含量及血液流变学在青年脑梗死患者外周血中的变化
唐万兵,李梅笑,李观强,蔡洁丹,韦深,万彦彬
- 394 原发性高尿酸血症患者血小板 α -颗粒膜蛋白、血小板活化因子及血小板参数的变化
丁丹丹,王伟,崔中光,汪洪毅

贫血病基础与临床

- 398 β -珠蛋白基因新突变导致的 β -珠蛋白生成障碍性贫血
彭运生,孙顺昌,陈群蓉,王清,莫宝妹

噬血细胞综合征

- 401 可溶性 IL-2 受体及 NK 细胞活性在噬血细胞性淋巴瘤组织细胞增多症中的意义
王菱菱,胡映秋,陈伟凤,许戟,张蔚,吴雨洁,田甜,仇红霞,李建勇

造血干细胞移植

- 405 受鼠年龄对小鼠异基因骨髓移植后急性移植物抗宿主病发生的影响
张翠平,曾令宇,潘彬,齐昆明,李向阳,李小翠,汤仁仙
- 412 异基因造血干细胞移植后外周血 NK 细胞 *S1PR5* 表达变化对移植物抗宿主病的影响
管立勋,蔡博,高丽,李晓红,李猛,王莉莉,高春记
- 416 3 例父子间 *HLA* 完全相合家系及 1 例造血干细胞移植后临床分析
王红艳,金红实,徐媛媛,丁一,孙敬芬,王莉莉,于力

间充质干细胞生物学

- 421 干扰素 γ 对人脐带间充质干细胞生物学特性及免疫调节功能的影响
戎丽娟,池颖,杨少光,陈丹丹,陈芳,徐淑霞,张冬雷,马凤霞,卢士红,韩忠朝
- 427 KGF 和 EGFP 双基因共表达的重组腺病毒转染小鼠骨髓间充质干细胞的研究
王美华,胡锴勤,李晓兵
- 433 人骨髓间充质干细胞对胶原诱导的大鼠关节炎无预防和治疗作用
王勇奇,曹小芳,何梓铭,肖凤军,王恒湘,郭子宽
- 438 骨髓间充质干细胞对异体自然杀伤细胞调节作用的研究
王海飞,石永进,任汉云
- 443 人脐带间充质干细胞超微结构观察
乔淑敏,陈广华,王易,吴德沛
- 448 小鼠密质骨间充质干细胞的培养及多能性研究
陈广华,杨婷,乔淑敏,田璇,刘慧文,乔曼,顾斌,冯宇锋,朱子玲,吴德沛
- 453 间充质干细胞在凋亡过程中释放膜微粒
边素艳,崔华,张新宁,祁莉萍,李冬云

- 458 脐带间充质干细胞体外衰老过程中生物学特性及基因表达谱的变化
宁雪,李栋,汪大琨,付金秋,鞠秀丽

内皮细胞生物学

- 466 氯吡格雷对人脐静脉内皮细胞全基因表达谱的影响及生物信息学分析
刘先锋,卢学春,范利,高燕,马聪,罗芸

分子血液学

- 473 *Bmi-1* shRNA 慢病毒表达载体的构建及稳转 U266 细胞株的建立
徐珍珍,吴顺泉,战榕

临床血液学

- 478 成人 T 细胞急性淋巴细胞白血病的临床研究
张擎,周春林,付明伟,王津雨,林冬,刘兵城,李巍,秘营昌,王建祥
- 483 成功治疗儿童罕见髓系/自然杀伤细胞祖细胞急性白血病 1 例
陈玉梅,刘芳,邹尧,阮敏,刘晓明,刘天峰,竺晓凡
- 488 胰岛素对 Reh 细胞胰岛素受体和胰岛素样生长因子 I 型受体表达及细胞增殖的影响
陈彦如,张碧红,陈环,陈纯
- 492 恶性血液病合并侵袭性真菌感染 63 例临床分析
刘莎,郭梅,乔建辉,余长林,孙琪云,胡凯勤

实验血液学技术

- 496 用于荧光原位杂交技术的骨髓细胞制片方法研究
胡林萍,葛菁,张丽艳,许静,袁卫平,程涛,张磊
- 500 致敏小鼠 CD4⁺CD25⁺调节性 T 细胞磁珠分选及体外扩增
潘莉,翁文骏,许吕宏,魏菁,方建培
- 505 骨髓间接 Coombs 试验方法的应用及其对免疫相关性全血细胞减少症患者的临床诊断意义
邢丽娟,付蓉,刘惠,王红蕾,阮二宝,瞿文,梁勇,王国锦,王小明,刘鸿,吴玉红,宋嘉,王化泉,邢莉民,李丽娟,邵宗鸿

综述

- 510 造血干细胞移植治疗骨髓增生异常综合征研究新动向
吴冰,韦艳,张蕊
- 514 胰岛素影响白血病细胞增殖信号通路研究的新进展
黄月琴,潘敬新
- 518 原癌基因 *c-myc* 在巨核-红系造血发育中的研究进展
刘小琴,王晓霞,赵丽

JOURNAL OF EXPERIMENTAL HEMATOLOGY

(Established in April, 1993)

Bimonthly Volume 20 Number 2

April, 2012

Contents

ORIGINAL ARTICLES

Antileukemia Basis

- 229 **Effects of Gossypol Acetate on Apoptosis in Primary Cultured Cells from Patients with Lymphoid Leukemia and Its Synergy with Dexamethasone**
CHENG Wei, ZHAO Yong-Qiang, LI Yu-Mei, YANG Da-Jun
- 235 **Suppression of NAMPT Expression Enhances the Sensitivity of K562 Cells to Imatinib and Its Relative Mechanism**
LIN Ping-Ping, BAI Xue-Jia, YUE Zhi-Xia, YAN Shao-Fei, LI Zong-Wen, GAO Chao, MEI Yan-Yan, WANG Kai-Ling, LI Wei-Jing, DING Wei, LI Zhi-Gang
- 242 **Influence of Pre-ALIP Number and Its Distance from Trabeculae on AML Relapse**
YU Ye-Hua, ZHANG Jing, WU Zheng-Tian, YUAN Ying-Hua, ZHAI Yuan-Mei, TAO Ying, HOU Jian, SHI Jun
- 246 **Effects of Advanced Glycosylation End Products and Tetrandrine on Proliferation of K562 and K562/A02 Cells**
WANG Tian-Tian, YAN Dan, CHEN Bao-An, WANG Jian, XIA Guo-Hua, WANG Shuai, CHENG Jian, DING Jia-Hua, BAO Wen
- 252 **Reversal Effect of Gambogic Acid on Multidrug Resistance of K562/A02 Cell Line**
TIAN Liang, LIU Juan, CHEN Bao-An, CHENG Jian, DING Jia-Hua, WANG Shuai, XIA Guo-Hua, GAO Feng, SHAO Ze-Ye, ZHANG Hai-Jun, GUO Qing-Long, ZHANG Hai-Wei, WANG Lei, REN Yan-Yan, CAI Xiao-Hui, LIU Ran
- 258 **siRNA-induced Down-regulation of *Survivin* Expression Increases Spontaneous Apoptosis in K562 Cell Line**
LU Jian, CHEN Zhi-Chao, LI Qiu-Bai, SHAO Jing, YOU Yong, ZOU Ping
- 262 **Effect of Berberine on HL-60 Cell Proliferation, Apoptosis and Vascular Endothelial Growth Factor Receptor 2 Expression**
LIN Shao-Zhu, CHEN Ming-Zhen, HUANG Xiu-Lan
- 268 **Effects of Simvastatin on PI3K/AKT Signaling Pathway in Human Acute Monocytic Leukemia Cell Line SHI-1**
ZENG Mei, GU Wei-Ying, JIANG Ting-Xiu, CHEN Zi-Xing, QIU Guo-Qiang, LI Man, WU Hao-Qing, WANG Zhi-Lin, XIE Xiao-Bao, CAO Xiang-Shan
- 273 **Component 1 from *Agkistrodon Acutus* Venom Induces Apoptosis of K562/A02 Cells by Promoting Caspase 3 Expression**
ZHOU Bing, ZHANG Gen-Bao, DUAN Ting, ZHOU Jue, WU Juan
- 277 **Effects of AZT on Leukemia Cell Line KG-1a Proliferation and Telomerase Activity**
JIN Rui-Rui, CHAO Rong, XI Ya-Ming, CHEN Che, CHU Hui-Yuan, LI Ming, ZHANG Hao

Leukemia Basis

- 282 **Expression of ICAM-1 (CD54) in Pediatric Tumor and Acute Leukemia and Its Clinic Significance in Immunotherapy with CIK Cell**
XIONG Xi-Lin, LI Yang, WANG Lin, WEI Jing, MA Lei, SHEN Xi-Ming
- 287 **A Case of Richter Syndrome Transformed from Chronic Lymphocytic Leukemia with Karyotype Aberration of Trisomy 12**
XU Zhen-Shu, ZHANG Jin-Yan, ZHAN Rong, ZHENG Zhi-Hong, WU Shun-Quan, CHEN Zhi-Zhe
- 291 **Heterogenous Abnormality Polymorphism of Gene *PDGFRB* in Myeloid Neoplasms and its Clinical Characteristics**
WANG Quan-Shan, GAO Li, JING Yu, ZHU Hai-Yan, YANG Hua, YU Li
- 296 **Effect of NKG2D in Eliminating Hematological Malignant Cell Lines by Natural Killer Cells**
WANG Wei, GAO Li, MA Yi-Gai

- 300 **Expression of Homeobox A9 in Myeloid Leukemia Cell Line HL-60 and Effect of Drugs on Its Expression**
GUO Wei-Wei, LIU Wen-Jun

Lymphoma Basis and Clinic

- 305 **Expressions of miR-21, miR-155 and miR-210 in Plasma of Patients with Lymphoma and Its Clinical Significance**
GE Tian-Tian, LIANG Yong, FU Rong, WANG Guo-Jin, RUAN Er-Bao, QU Wen, WANG Xiao-Ming,
LIU Hong, WU Yu-Hong, SONG Jia, WANG Hua-Quan, XING Li-Min, GUAN Jing,
LI Li-Juan, SHAO Zong-Hong
- 310 **Inhibitory Effects of Sporoderm-broken Ganoderma Lucidum Spores on Growth of Lymphoma Implanted in Nude Mouse**
CHEN Juan, YU Ying-Hao
- 315 **Impact of Immunotherapy on Prognostic Factors in Diffuse Large B-cell Lymphoma Patients**
LU Hong-Yu, SONG Lu-Xi
- 320 **Retrospective Analysis for 104 Cases of Early-stage Hodgkin's Lymphoma Treated with Different Modality Therapies**
DU Ting-Ting, XIAO Xiu-Bin, SU Hang, DA Yong, CHEN Xin-Lin, ZHONG Kai-Li, ZHAO Shi-Hua, LU Yun,
WANG Shuang, ZHANG Wei-Jing
- 325 **Predictive Value of Tissue Factor-Associated Platelet Microparticles in Thrombosis of Patients with Lymphoma**
TANG Yun-Long, ZHOU Yan, WANG Chun-Bin, QIN Yan, FENG Jian, QIN Jing
- 329 **SUDHL-4 Cell Culture *in vitro* and Establishment of Mouse Tumor Model**
WANG Yong-Qin, HUO Hong-Jie, LU Ling-Ling, XU Ming, ZHU Jian-Ping, WANG Yang

Multiple Myeloma

- 335 **Effects of Triptolide on Bortezomib-induced Apoptosis in Multiple Myeloma Cells**
YANG Yang, DONG Hong-Juan, GAO Guang-Xun, WANG Yi-Wei, GU Hong-Tao, CHEN Xie-Qun
- 339 **Relationship between the Catalysis of Bence Jones Protein and Renal Impairment in Patients with Multiple Myeloma**
ZHOU Xiao, ZHAI Yong-Ping, MEI Jian-Gang, AN Zhi-Ming, ZHOU Xiao-Gang, SHI Ping,
YU Ya-Ping, LIU Hai-Ning, SONG Ping
- 344 **Clinical Significance of Serum Vascular Endothelial Growth Factor and Interleukin-17 in Patients with Multiple Myeloma**
DONG Sha-Sha, LI Guang-Lun, YANG Jie
- 348 **Clinical Observation of Thalidomide Combined with VAD Regimen for Treatment of Osteosclerotic Myeloma (POEMS Syndrome)**
ZHOU Jian-Wen, SUN Hui, GAN Si-Lin, LIU Yan-Fang, SUN Ling, WAN Ding-Ming, MENG Xiao-Li

Myelodysplastic Syndrome

- 352 **Expression of p57kip2 in Patients with *de novo* Myelodysplastic Syndrome and Its Relationship with SDF-1/CXCR4 Axis**
ZHAO Yu-Shan, GUO Juan, YANG Rui, GU Shu-Cheng, ZHANG Xi, ZHOU Li-Yu, LI Xian, CHANG Chun-Kang
- 358 **Abnormal Expression of MicroRNA-124 in Patients with Leukemia or Myelodysplastic Syndrome and Its Significance**
XIA Qiao, HU Jun, MENG Yue-Sheng

Myeloproliferative Disorder

- 362 **Relationship between V617F Mutation and 46/1 Haplotype in JAK2 Gene in Patients with Chronic Myeloproliferative Diseases and Frequencies of 46/1 Haplotype in Different Chinese Nationalities**
TIAN Zheng-Qin, ZHU Ping, LIU Hong-Xing, CHEN Yan, WANG Fang, ZHANG Yang, TENG Wen, GONG Yi-Wen,
XIA Jun-Yan, BAI De-Cheng, LIU Qian, WU Xue-Qiang
- 368 **Effect of Erlotinib on Proliferation and Differentiation of JAK2V617F-Positive Cells *in vitro***
REN Yuan-Yuan, ZHANG Ling-Yan, LI Ying
- 372 **Inhibitory Effect of Gefitinib and Lapatinib on Proliferation of HEL Cells**
HE Xiang-Meng, ZHANG Ling-Yan, LI Ying

Thrombocyte, Hemorrhage and Thrombosis

- 376 ***in vitro* Effects of Hemocoagulase Atrix and Its Effective Components on Blood Coagulation of Patients with Bleeding Disorders**
WANG Rui-Juan, WANG Zhao-Yue, JIANG Ming-Hua, ZHANG Wei, CAO Li-Juan, SUN Xiong-Hua, ZHANG Jian, BAI Xia, RUAN Chang-Geng
- 381 **Analysis on the Effectiveness in 727 Times of Platelet Transfusion**
GUI Rong, NIE Xin-Min, WEN Xian-Hui, LIU Jing
- 386 **Influence of S-Nitrosoglutathione on Agglutination and Nitric Oxide Concentration in Frozen Platelets**
WU Tao, LIU Jing-Han, LI Hui, ZHOU Wu, WANG Shu-Ying
- 390 **Changes of Mean Platelet Volume, Fibrinogen Content and Blood Rheology in Peripheral Blood of Youth Patients with Cerebral Infarction**
TANG Wan-Bing, LI Mei-Xiao, LI Guan-Qiang, CAI Jie-Dan, WEI Shen, WAN Yan-Bin
- 394 **Changes of Platelet α -Particle Membrane Protein, Platelet Activating Factor and Platelet Parameters in Patients with Hyperuricemia**
DING Dan-Dan, WANG Wei, CUI Zhong-Guang, WANG Hong-Yi

Anemia Basis and Clinic

- 398 **A Novel Mutation in β -Globin Gene of a Patient with β -thalassemia**
PENG Yun-Sheng, SUN Shun-Chang, CHEN Qun-Rong, WANG Qing, MO Bao-Mei

Hemophagocytic Syndrome

- 401 **Significance of Soluble Interleukin-2 Receptor and NK Cell Activity in Patients with Hemophagocytic Lymphohistiocytosis**
WANG Ling-Ling, HU Yi-Xin, CHEN Wei-Feng, XU Ji, ZHANG Wei, WU Yu-Jie, TIANG Tiang, QIU Hong-Xia, LI Jian-Yang

Hematopoietic Stem Cell Transplantation

- 405 **Effect of Recipient Mouse Age on Occurrence of Graft-versus-Host Disease Following Allogenic Bone Marrow Transplantation**
ZHANG Cui-Ping, ZENG Ling-Yu, PAN Bin, QI Kun-Ming, LI Xiang-Yang, LI Xiao-Cui, TANG Ren-Xian
- 412 **Influence of NK Cell S1PR5 Expression on Graft Versus Host Disease in Allogeneic Hematopoietic Stem Cell Transplantation**
GUAN Li-Xun, CAI Bo, GAO Li, LI Xiao-Hong, LI Meng, WANG Li-Li, GAO Chun-Ji
- 416 **Clinical Analysis for 3 cases of HLA-Matched between Father and Son and 1 case of Post-Hematopoietic Stem Cell Transplant Efficacy**
WANG Hong-Yan, JIN Hong-Shi, XU Yuan-Yuan, DING Yi, SUN Jing-Fen, WANG Li-Li, YU Li

Mesenchymal Stem Cell Biology

- 421 **Effects of Interferon- γ on Biological Characteristics and Immunomodulatory Property of Human Umbilical Cord-derived Mesenchymal Stem Cells**
RONG Li-Juan, CHI Ying, YANG Shao-Guang, CHEN Dan-Dan, CHEN Fang, XU Shu-Xia, ZHANG Dong-Lei, MA Feng-Xia, LU Shi-Hong, HAN Zhong-Chao
- 427 **Transfection of Recombinant Adenoviral Vector with Co-expressing Keratinocyte Growth Factor and Enhanced Green Fluorescent Protein to Murine Bone Marrow Mesenchymal Stem Cells**
WANG Mei-Hua, HU Kai-Xun, LI Xiao-Bing
- 433 **Human Bone Marrow Mesenchymal Stem Cells Have Little Preventive or Therapeutic Effect on Rat Arthritis Induced by Collagen**
WANG Yong-Qi, CAO Xiao-Fang, HE Zi-Ming, XIAO Feng-Jun, WANG Heng-Xiang, GUO Zi-Kuan
- 438 **Bone Marrow-derived Mesenchymal Stem Cells Regulate the Proliferation and Activity of Natural Killer Cells**
WANG Hai-Fei, SHI Yong-Jun, REN Han-Yun
- 443 **Ultrastructure of Human Umbilical Cord Mesenchymal Stem Cells**
QIAO Shu-Min, CHEN Guang-Hua, WANG Yi, WU De-Pei

- 448 **Culture and Pluripotentiality of Murine Compact Bone-derived Mesenchymal Stem Cells**
CHEN Guang-Hua, YANG Ting, QIAO Shu-Min, TIAN Hong, LIU Hui-Wen, QIAO Man, GU Bin,
FENG Yu-Feng, ZHU Zi-Ling, WU De-Pei
- 453 **Mesenchymal Stem Cells Release Membrane Microparticles in the Process of Apoptosis**
BIAN Su-Yan, CUI Hua, ZHANG Xun-Ning, QI Li-Ping, LI Dong-Yun
- 458 **Changes of Biological Characteristics and Gene Expression Profile of Umbilical Cord Mesenchymal Stem Cells During Senescence in Culture**
NING Xue, LI Dong, WANG Da-Kun, FU Jin-Qiu, JU Xiu-Li

Endothelial Cell Biology

- 466 **Impact of Clopidogrel on Gene Profile of Human Umbilical Vein Endothelial Cell Line and Bioinformatics Analysis**
LIU Xian-Feng, LIU Xue-Chun, FAN Li, GAO Yan, MA Cong, LUO Yun

Molecular Hematology

- 473 **Establishment of a U266 Cell Line with Stable *Bmi-1* Silencing by Lentivirus-mediated RNA Interference**
XU Zhen-Zhen, WU Shun-Quan, ZHAN Rong

Clinical Hematology

- 478 **Clinical Analysis on Adult Acute T-lymphoblastic Leukemia**
ZHANG Qing, ZHOU Chun-Lin, FU Ming-Wei, WANG Jin-Yu, LIN Dong, LIU Bing-Cheng, LI Wei,
MI Ying-Chang, WANG Jian-Xiang
- 483 **An Unusual Child Case of Myeloid/Natural Killer Cell Precursor Acute Leukemia Treated Successfully with Acute Myeloid Leukemia-Oriented Chemotherapy**
CHEN Yu-Mei, LIU Fang, ZOU Yao, RUAN Min, LIU Xiao-Ming, LIU Tian-Feng, ZHU Xiao-Fan
- 488 **Effects of Insulin on Expression of Insulin Receptor and Insulin-like Growth Factor-1 Receptor and Proliferation in Reh Cells**
CHEN Yan-Ru, ZHANG Bi-Hong, CHEN Huan, CHEN Chun
- 492 **Clinical Analysis of Invasive Fungal Infections in Patients with Hematologic Malignancies**
LIU Sha, GUO Mei, QIAO Jian-Hui, YU Chang-Lin, SUN Qi-Yun, HU Kai-Xun

Laboratory Technology in Hematology

- 496 **An Improved Protocol of Preparing Bone Marrow Cells for Fluorescence *in situ* Hybridization**
HU Lin-Ping, GE Jing, ZHANG Li-Yun, XU Jing, YUAN Wei-Ping, CHENG Tao, ZHANG Lei
- 500 **Separation and Amplification of CD4⁺ CD25⁺ Regulatory T Cells from Sensitized Mice**
PAN Li, WENG Wen-Jun, XU Li-Hong, WEI Jing, FANG Jian-Pei
- 505 **Application of Bone Marrow Indirect Coombs Test and Its Clinical Significance in Diagnosis of Immuno-related Pancytopenia**
BING Li-Juan, FU Rong, LIU Hui, WANG Hong-Lei, RUAN Er-Bao, QU Wen, LIANG Yong, WANG Guo-Jin, WNAG Xiao-Ming,
LIU Hong, WU Yu-Hong, SONG Jia, WANG Hua-Quan, XING Li-Min, LI Li-Juan, SHAO Zong-Hong

REVIEWS

- 510 **New Progress of Study on Hematopoietic Stem Cell Transplantation for Myelodysplastic Syndromes—Review**
WU Bing, WEI Yan, ZHANG Qian
- 514 **Advancement of Insulin Effecting Signaling Pathway of Leukemia Cell Proliferation —Review**
HUANG Yue-Qin, PAN Jing-Xin
- 518 **Research Progress of Proto-oncogene *c-myc* in Megakaryocyte-Erythroid Hematopoiesis —Review**
LIU Xiao-Qin, WANG Xiao-Xia, ZHAO Li