

INDEX

MOLECULAR AND CELLULAR BIOLOGY

<i>Identification of Subclinical Cardiovascular Inflammation and Calcification</i> E. Aikawa and M. Aikawa	1
<i>Reduction of Gap and Adherens Junction Proteins and Intercalated Disc Structural Remodeling in the Hearts of Mice Submitted to Severe CLP Sepsis</i> M.R.N. Celes and M.A. Rossi	7
<i>Validation of an In Vitro Myocardial Reperfusion Injury Model</i> D. Gero, K. Modis, N. Nagy, P. Szoleczky, Z. Dori –Toth and C. Szabo	15
<i>A Synthetic Polyphenol Limits Hydrogen Peroxide-Induced Cell Death in H9c2 Myocyte-like Cells</i> B.S. Rayner and P.K. Witting	19

VASCULAR BIOLOGY, ENDOTHELIAL FUNCTION

<i>Oxidative Stress, Antioxidants and Atherosclerosis: the Role of Human Antigen R and Toll-like Receptor 4</i> F.-Y. Lin, Y.-L. Chen, J.-W. Chen and S.-J. Lin	25
<i>Nitric Oxide/Nitroxidative Stress Imbalance in the Failing Heart</i> R. Kubant and T. Malinski	31
<i>Vascular Oxidative Stress: Relative Importance of Pro- and Antioxidant Enzyme Systems</i> U. Förstermann	39
<i>Sustained Static Pressure Stimulates Proliferation of Cultured Smooth Muscle Cells Via the Extracellular Signal-Regulated Kinase Pathway</i> D.X. Luo, C.L. Xia, S.Y. He, S.S. Tong, C.X. Xu, K. Li and D.F. Liao	47

<i>Thrombopoietin (TPO) Contributes to Platelet Activation in Human Diseases</i> E. Lupia, O. Bosco, A. Goffi, C. Poletto, S. Locatelli, E. Maggio, P. Tizzani, T. Spatola, A. Cuccurullo and G. Montrucchio	53
<i>Anthocyanin Prevents From CD40-Activated Proinflammatory Signaling in Endothelial Cells by Regulating Cholesterol Distribution</i> M. Xia, W. Ling, H. Zhu, Q. Wang, J. Ma, M. Hou, Z. Tang, L. Li and Q. Ye	57

GENE AND CELL BASED THERAPIES

<i>Long-Lasting Plasticity of Slow-Twitch Skeletal Myoblasts for the Efficient Engraftment in DCM Heart</i> A. Tezuka, T. Kawada, M. Nakazawa, F. Masui, S. Konno, S. Nitta and T. Toyo-oka	69
<i>Comprehensive Approaches to Identification of Susceptibility Genes for Myocardial Infarction</i> M. Yokota, S. Miyata, H. Asano, I. Izawa and K. Nagata	75
<i>Matrix Metalloproteinases: Novel Biomarkers for Arterial Stiffness</i> Yasmin	79
<i>Genetic Risk for Myocardial infarction</i> K. Yajima, Y. Yamada, H. Matsuo, T. Segawa, S. Watanabe, S. Ichihara, K. Kato, T. Hibino, K. Yokoi and Y. Nozawa	89

DIAGNOSTIC METHODS

<i>About Coronary Artery Calcium</i> E. Barrett-Connor	93
<i>Coronary Artery Bypass Graft Patency and Remodelling Assessed by CT Angiography</i> L. Kritharides, G.T. Lau and L.J. Ridley	97
<i>Revascularization in Ischemic Heart Failure: Role of Viability Testing</i> P. Chareonthaitawee	101
<i>Exercise ECG in the Interventional Era: Out of Date Or Evergreen?</i> R. Bigi and C. Fiorentini	107
<i>A Novel Method for Identifying Patients with Peripheral Artery Disease</i> H. Semler, J. McNames, P. Benz and S. Semler	113

<i>Index</i>	XI
--------------	-----------

<i>Do Exercise ECG's Aid in Correctly Diagnosing Coronary Artery Disease in Women?</i> S. Krishnan and N. Naqvi	119
--	-----

ATHEROSCLEROSIS

<i>Imaging of the Vulnerable Plaque: Indications, Challenges, and Future Directions</i> S.D. Gertz, D. Vela, I. Aboshady, L. Frazier, J.L. Conyers, L. Gavish, B.G. Bodmann, M. Papadakis, S. Alexander, D.J. Kouri, G.W. Gladish, D.D. Cody, J.T. Willerson and S.W. Casscells	121
<i>Does C-Reactive Protein Orchestrate Inflammation in Acute Coronary Artery Disease?</i> J.G. Filep, T. Khreiss, L. József, L.A. Potempa and D. El Kebir	129
<i>The Neonatal Inflammatory Response, Relationship to the Cardiac System and Its' Management</i> T.F. Feltes, W.A. Luce and J.A. Bauer	135
<i>Prostanoids and Isoprostanoids in Atherogenesis</i> D. Praticò	145
<i>Predicting CVD/IHD Mortality: Framingham Risk Score vs. Metabolic Syndrome</i> E. Barrett-Connor and M.R. Araneta	151
<i>Malignant Coronary Artery Disease and the Asian Indians Paradox</i> N.C. Bhalodkar and E.A. Enas	157

ISCHEMIC HEART DISEASE, ACUTE MYOCARDIAL INFARCTION

<i>Myeloperoxidase Serum Concentration Predicts Systemic Inflammatory Response Syndrome in Acute Myocardial Infarction</i> M. García-González, A. Domínguez-Rodríguez, P. Abreu-González, S. Samimi-Fard and A. Sánchez-Grande Felcha	165
<i>Therapeutic Drugs During Healing Myocardial Infarcts Modify Infarct Collagens, Ventricular Distensibility and Rupture Threshold</i> B.I. Jugdutt, H. Idikio and R. Uwiera	169
<i>Interleukin-6 Forecasts Long-term Mortality After Acute Myocardial Infarctions</i> P. Järemo and O. Nilsson	173

INTERVENTIONAL CARDIOLOGY

- Stent and Inflammation; What Can Estradiol Change About It?*
I. Cloutier and J.F. Tanguay 177
- Clinical Feasibility and Angiographic Follow-up of Endovascular Stent-Graft for Type B Dissection (Stanford). Experience of a Single Center in Brazil*
A. Daige da Silva, R. de Barros Wanderley, L. de Carvalho Pereira, R.L. Favero, I. Kury Nunes and L. Kanashiro 183
- New Concept for Chronic Total Occlusion using Retrograde Approach via the Septal Branch in the RCA*
N. Ozawa, M. Shinozaki, T. Sato, T. Shimizu, T. Miyauchi and T. Nagao 185
- A Contrast Removal System from the Coronary Sinus Using an Adsorbing Column During Coronary Angiography in Swine*
Ichiro Michishita 191
- Prognosis According to Gender After Percutaneous Coronary Intervention*
J. Lacalzada, A. Barragán, A. Duque, G. Yanes, C. Enjuanes, I. Hernández, S. Rodríguez, I. Laynez, F. Bosa and F. Marrero 195

CAROTID ARTERY STENOSIS, PERIPHERAL VASCULAR DISEASE

- Application of Angioscopy for Diagnosis and Treatment of Venous Thromboembolism*
Takanobu Tomaru, Kazuhiro Shimizu, Tsutomu Hirohashi and Yasumi Uchida 199
- New Insights Into Peripheral Arterial Disease*
M. Criqui 203
- Carotid Angioplasty and Stenting Under Protection: Limitations and New Developments*
M. Henry, I. Henry, A. Polydorou, Ad. Polydorou and M. Hugel 209
- Examination of Sex as an Independent Risk Factor for Adverse Events Following Carotid Endarterectomy*
N. Harthun, G. Kongable, A. Baglioni Jr., T. Meakem and I. Kron 217

HYPERTENSION

- Left Ventricular Hypertrophy in Hypertension: Is Drug Selection Important? A Review*
P. Liebson 223
- Prevention of Left Ventricular Function Deterioration in Patients with Hypertension, Elevated End Diastolic Pressure, Normal Ejection Fraction and Normal Coronaries*
C.O. Ezeugwu and D. Dada 229
- Role of Heme Oxygenase System in the Regulation of Circulation in Conscious Rats*
H. Hirakawa and Y. Hayashida 235
- Effect of Grape Seed Extract in Subjects with Pre-Hypertension*
M. Robinson, B. Lu and T. Kappagoda 239
- Impact of Olmesartan on Plasma Brain Natriuretic Peptide Levels in Ambulatory Patients with Hypertension*
**A. Duque, A. Barragán, J. Lacalzada, C. Perera,
 A. De la Rosa, A. Lara, G. Yanes and I. Laynez** 243

DYSLIPOPROTEINEMIA, DIABETES MELLITUS AND METABOLIC SYNDROME

- Glycosylated Hemoglobin and Cardiovascular Involvement in Non Diabetic Subjects*
DA. Stakos and H. Boudoulas 247
- Benefits of Tight Glycemic Control During Coronary Revascularization*
H. Lazar 253
- Dose-Dependent Reductions in LDL-C with ISIS 301012, An Antisense Inhibitor of Apolipoprotein B*
**D. Tribble, M. Wedel, B. Baker, E. Stein, R. Fuhr,
 J. Jukema, E. Sijbrands, M. Trip, F. Visseren, R. Weiss,
 F. Akdim and J. Kastelein** 255
- Metabolic Syndrome and Serum Magnesium Level. Relationships with Traditional Cardiovascular Risk Factors and with Inflammation in Romanian Subjects*
I.A. Gutiu, L.I. Gutiu and C. Zeana 259
- MicroRNA Expression Profile During the Differentiation from 3T3-L1 Cells into Adipocyte*
H.Y. Ling, H.S. Ou, X.Y. Lei, B.Y. Zhu, W.D. Yin and D.F. Liao 263
- MicroRNA Expression Profile in Insulin-Resistant 3T3-L1 Adipocyte*
H.Y. Ling, H.S. Ou, X.Y. Lei, Z.P. Gao, W.D. Yin and D.F. Liao 269

XIV	<i>Index</i>
<i>Effect of Grape Seed Extract in Subjects with the Metabolic Syndrome</i> B. Siva, I. Edirisinghe and T. Kappagoda	275
CARDIOVASCULAR DISEASE IN WOMEN	
<i>Effectiveness of Cardiac Drugs in Women</i> L. Pilote	279
PULMONARY CIRCULATION ASPECTS, PULMONARY HYPERTENSION	
<i>Cardiac Biomarkers in Pulmonary Embolism and Pulmonary Hyper- tension</i> I.A. Khan	281
CARDIOMYOPATHIES: PATHOGENESIS AND TREATMENT	
<i>Obesity and Congestive Heart Failure</i> M.A. Kershaw and M.A. Alpert	283
<i>Myocardial Structural Changes in Long-term Human Severe Sepsis/ Septic Shock May Be Responsible For Cardiac Dysfunction</i> M.A. Rossi, M.R.N. Celes, C.M. Prado and F.P. Saggioro	287
<i>Prevalence of Cardiac Troponin-I Autoantibodies in Normal Blood Donor and Troponin Positive Plasma Samples</i> M. Adamczyk, R.J. Brashear and P.G. Mattingly	295
PERICARDIAL DISEASE	
<i>Acute and Recurrent Pericarditis</i> M. Imazio and R. Trinchero	301
PREDICTORS AND MARKERS OF HEART FAILURE OUTCOME	
<i>Improvement of Cardiac Function in Heart Failure by Antiplatelet Therapy</i> S.K. Sanganalmath, A.S. Arneja and N.S. Dhalla	309
<i>Differential Matrix Metalloproteinase Proteomic Profiling in Patients at Risk for Heart Failure: Diagnostic and Prognostic Implications</i> F. Spinale	317

<i>Index</i>	XV
<i>Pleiotropic Effects of Cardiac Drugs and Interventions on Extracellular Collagen Matrix During Healing After MI: The Good, Bad and Ugly</i>	
B.I. Jugdutt	319
<i>Heat Shock Protein 60: Friend or Foe</i>	
A.A. Knowlton, L. Lin, S.C. Kim and Y. Wang	325
<i>Can NT-proBNP Monitoring Help Prevent Cardiovascular Disease?</i>	
D.J. Campbell, M. Woodward, J.P. Chalmers, S.A. Colman, A.J. Jenkins, B.E. Kemp, B.C. Neal, A. Patel and S.W. MacMahon	331
<i>NT-proBNP Is a Good Marker to Detect Diastolic Dysfunction in Subjects with Limited Exercise Capacity without Overt Heart Failure</i>	
A. Barragan, J. Lacalzada, A. de La Rosa, A. Duque, C. Perera, G. Yanes, A. Lara and I. Laynez	337
<i>Correlation of NT-BNP with Hemodynamic Parameters of Echocardiography in Wide Range of Heart Failure Patients</i>	
J. Čelutkienė, V. Grabauskienė, R. Steponienienė, L. Latvenienė, Z. Kučinskiene, R. Jasaityte, J. Martinkienienė and A. Laucevičius	341

NEW HORIZONS IN THE MANAGEMENT OF HEART FAILURE

<i>Vasopressin Antagonists</i>	
R.E. Hobbs	345
<i>Management and Evaluation of Recurrent Heart Failure after Biventricular Pacing</i>	
J.M. Aranda, Jr. and S. Puwanant	349
<i>Implantable Cardioverter Defibrillator Therapy in Patients with Arrhythmogenic Right Ventricular Cardiomyopathy</i>	
F. Duru	355
<i>The Role of TGF-β Signaling in Healing Myocardial Infarcts</i>	
N.G. Frangogiannis	361
<i>Metabolic Modulation in Heart Failure: Hope or Hype?</i>	
W. Tang	371
<i>Pitavastatin Improves Cardiac Function in Heart Failure with or without Ischemic Origins</i>	
T. Toyooka, T. Aoyagi, T. Tomaru and F. Nakamura	377
<i>Prognosis of Post-Myocardial Infarction Cardiogenic Shock Patients that Require Mechanical Ventilation</i>	
M. Bonios, S. Drakos, M. Anastasiou-Nana, E. Tsagalou, A. Ntalianis, G. Maroulidis, J. Venetsanakos, N. Lazaris, J. Kanakakis and J. Nanas	383

ARRHYTHMIA / ELECTROPHYSIOLOGY

- Reproducibility of T-Wave Alternans in Patients with Congestive Heart Failure*
J.E. Madias 387
- Sudden Cardiac Death in Young Individuals: Clinical and Genetic Investigation of the Family*
P.P. McKeown 393
- Prophylactic Lidocaine Reduces Ventricular Fibrillation Incidence and Mortality in Acute Myocardial Infarction*
M. Wyman, R. Wyman, D. Cannom
and J. Criley 399
- Search AV+ Algorithm Reduces Unnecessary Right Ventricular Pacing*
G. Milasinovic, J. Sperzel, T.W. Smith,
H. Mead, M.K. Hofman,
S.M. Gallagher and S.J. Compton..... 403
- Idiopathic Left Ventricular Tachycardia: Significance of Late Diastolic Potential and Purkinje Potential as a Marker for Selection of Successful Ablation Site*
H.R. Bonakdar, M. Tayyebi,
Z. Emkanjoo, A. Alizadeh,
M.V. Jorat and M.A. Sadr-Ameli 407

**PEDIATRIC CARDIOLOGY AND CARDIAC SURGERY,
CONGENITAL HEART DISEASE**

- Incidence of Atrial Fibrillation After Percutaneous Closure of Patent Foramen Ovale and Small Atrial Septal Defects in Patients Presenting with Cryptogenic Stroke: A Case-Control Study*
R.F. Bonvini, R. Sztajzel, M. Righini,
J. Alibegovic, C. Bonvin,
K. Sievert, U. Sigwart, E. Camenzind,
V. Verin and J. Sztajzel 417
- Warm Surgery For Total Anomalous Pulmonary Venous Return*
Y. Durandy and S. Hulin 427
- P-Selectin Expression and GPIIb/IIIa Polymorphism in Congenital Cyanotic Heart Disease: Relevance to Palliative Systemic-Pulmonary Shunt and Haemostatic Parameters*
F. El Zahraa Mostafa Gomaa,
H. Gabr Metwally and S. Sallah El Soda 431

**SURGICAL ASPECTS, VALVULAR HEART DISEASE,
HEART VALVE SURGERY**

<i>Coronary Artery Bypass Grafting for Coronary Stenosis Caused by Kawasaki Disease</i> E. Tsuda	437
<i>20 h Preservation of Guinea Pig Isolated Hearts Perfused at Low Flow with Air-saturated Lifer® Solution at 26°C</i> D.F. Stowe, A.K.S. Camara, J.S. Heisner, M. Aldakkak and D.R. Harder	445
<i>Effects of Preoperative Statin Therapy on Systemic Inflammatory Response After Cardiac Surgery</i> J. Martínez-Comendador, J. Rubio, J. Sierra, B. Adrio, J. García Carro, J. Martínez-Cereijo and C. Delgado	451
<i>Differences in Mitral Valve Annular Function Under Full and Partial Ring Annuloplasty</i> J. Redmond, D. Christiansen, C. Bergin, L. Leuer, T. Ryan, N. Rakow, N. Barka, T. Billstrom, L. Shecterle and J. St. Cyr	457
<i>Author Index</i>	461