

## **CURRICULUM VITAE**

**Name: Ricardo Jorge Gelpi**

**Office Address:** University of Buenos Aires Faculty of medicine, Department of Pathology and cardiovascular Pathophysiology Institute, J. E. Uriburu 950, 2<sup>nd</sup> floor, 1114 Buenos Aires, Argentina.

### **1. Present Professional Positions**

**a) Full time Professor, Department of Pathology, Faculty of Medicine, University of Buenos Aires (2003 – Present)**

**b) Director of Cardiovascular Physiopathology Institute, University of Buenos Aires. (2006 – Present)**

**c) Adjunct Professor, Department of Cell Biology and Molecular Medicine, University of Medicine and Dentistry of New Jersey (UMDNJ), New Jersey Medical School (NJMS). (2008 – Present)**

### **2. Education**

#### **a. Undergraduate:**

Bachelor, 1969. Escuela Normal Nacional # 3, La Plata city, Argentina.

#### **b. Graduate:**

Physician, 1975. University of La Plata, Faculty of Medical Sciences

Doctoral Thesis, 1981. University of La Plata, Faculty of Medical Sciences

### **2. Post Doctoral Training**

July 1985 – June 1987: New England Regional Primate Research Center (NERPRC), Harvard University, Boston, Massachusetts. Research Director: Stephen F Vatner

### **3. University Appointments**

Department: Physiology

University: University of La Plata, Faculty of Medical Sciences

Title: Instructor of Physiology (1976 - 1981) and Head of Instructor of Physiology (1982 - 1992)

Department: Pathology

University: University of Buenos Aires, Faculty of Medicine

Title: Head of Instructor of Pathology (1993 - 2000)

Department: Pathology

University: University of Buenos Aires, Faculty of Medicine

Title: Full time Adjunct Professor (2001 - 2003)

Department: Pathology  
University: **University of Buenos Aires, Faculty of Medicine**  
**Title: Full time Professor (2003 - Present)**

Department: Pathology  
University: **University of Buenos Aires, Faculty of Medicine**  
**Title: Director (April 2004 – March 2009)**

Department: Pathology, Cardiovascular Physiopathology Institute.  
University: **University of Buenos Aires, Faculty of Medicine**  
**Title: Director (2004 - Present)**

#### **4. Other professional Positions at the University of Buenos Aires**

**Vicedean (December 2002 - March 2010), Faculty of Medicine**

**Academic Councilor (March 2002 – Present), Faculty of Medicine**

#### **5. Major Visiting Appointments**

- Visiting Researcher, New England Regional Primate Research Center (NERPRC),  
Harvard University, Boston, U.S.A.

Mayo-Agosto, 1989

Noviembre-Diciembre, 1990

- Visiting Researcher, Department of Physiology, University of South Alabama,  
USA.

Julio 10-Agosto 10, 1999

Febrero 20-Marzo 21, 2000

- Visiting Researcher, Cardiovascular Research Institute, Allegheny University,  
Pittsburgh, Pennsylvania, USA

Agosto-Octubre, 1997

Mayo-Junio, 1998

- Visiting Researcher, Department of Molecular Medicine and Cellular Biology, and  
Cardiovascular research Institute, University of Medicine and Dentistry of New  
Jersey (UMDNJ), New Jersey Medical School, Newark, NJ, USA:

Septiembre 6-Octubre 5, 2004

Enero 17-Febrero 28, 2005

Julio 7-Agosto 6, 2005

Noviembre 7-Diciembre 6, 2005

Enero 9-Febrero 3, 2006

Agosto 8-Septiembre 7, 2006

Enero 15-Febrero 15, 2007

Julio 15-Agosto 15, 2007

Enero 15-Febrero 15, 2008

Agosto 10-Septiembre 8, 2008

Febrero 13- Marzo 14, 2009

Agosto 10 – Septiembre 9, 2009

Abril 15-Mayo 15, 2010.

Noviembre 1 – Noviembre 28, 2010

Abril 22 – Mayo 23, 2011

## **6. Awards and Honors**

1980: "Young Investigator Award". Argentina Society of Cardiology. Buenos Aires, Argentina

1982: "Argentina Society of Cardiology Award". Buenos Aires, Argentina

1993: Annual Award of the San Salvador University. Buenos Aires, Argentina

1997: "Argentina Biochemistry Society Award". Buenos Aires, Argentina

1998 – 1999: President of the Latin American Section of the International Society for Heart Research (Latin American Section)(ISHR)

2004 – Present: President of the Latin American Section of the International Academy of Cardiovascular Sciences (IACS)

2002: "Argentine Society of Clinical Investigation Award". Buenos Aires, Argentina

2005: "Argentina federation of Cardiology Award". Buenos Aires, Argentina

2006: "Mauricio Rosembaun Award", Argentina Society of Cardiology, Buenos Aires, Argentina.

## **7. Memberships in Professionals Societies**

1980 – Present: Argentina Society of Clinical Investigaion (SAIC)

1986 – present: International Society for Heart Research (Latin American Section)(ISHR).

1994 – Present: Argentina Society of Cardiology (SAC).

1997 – Present: American Physiological Society (APS).

2001 – Present: American Heart Association.

2002 – present: International Academy of Cardiovascular Sciences

## **8. Major teaching Experience**

Research training

Postdoctoral fellows:

1) Martin Donato, University of Buenos Aires, Postdoctoral fellow, 2001-2004

2) German Gonzalez, University of Buenos Aires, Postdoctoral fellow, 2001-2004

3) Veronica D'annunzio, University of Buenos Aires, Postdoctoral fellow, 2003-2010

- 5) Laura Krieger, University of Buenos Aires, Postdoctoral fellow, 2005-Present
- 7) Elena Lascano, University of Buenos Aires, 2002-2006

Predoctoral Students:

- 1) Jimena palleiro, University of Buenos Aires,
- 2) Martin Donato University of Buenos Aires,
- 3) Veronica D'annunzio, University of Buenos Aires,
- 4) Ignacio Seropian, University of Buenos Aires,
- 5) German Gonzalez, University of Buenos Aires

## 9. Articles

- 1) Gelpi R.J., Mosca S.M., Rinaldi G.J., Cingolani H.E.. Myocardial flow distribution in anesthetized dogs. *Medicina (B Aires)*, 40: 145-150, 1980.
- 2) Rinaldi G.J., Gelpi R.J., Mosca S.M., Cingolani H.E.. Efectos of insulin on the myocardium. *Medicina (B Aires)*, 40: 295-301, 1980.
- 3) Laguens R.P., Meckert P.C., Basombrio M., Chambo J., Cossio P., Arana R., Gelpi R.J.. Mice chronic infection with *Trypanosoma cruzi*. Experimental model of Chagas disease. *Medicina (B Aires)* 40 (Sup.1):33-39, 1980.
- 4) Laguens R.P., Meckert P.C., Gelpi R.J.. Chronic Chagas disease. I. Electrocardiographic and pathological studies in the heart. *Medicina (Buenos Aires)* 41:35-39, 1981 .
- 5) Laguens R.P., Meckert P.C., Chambo J., Gelpi R.J. Chroni Chagas disease.-II. Immunological study. *Medicina (Buenos Aires)* 41:40 43, 1981
- 6) Mosca S.M., Escudero E.M., Gelpi R.J., Kosoglov A., Rinaldi G.J., Cingolani H.E.. Myocardial blood flow. II-Empty beating heart, ventricular fibrillation and cardiac arrest. *Arch.Int.Physiol.Biochim.*, 89: 357-364, 1981.
- 7) Mosca S.M., Gelpi R.J., Cingolani H.E.. Antirelaxant and inotropic negative effect of amiodarone. *Medicina (Bs.As.)*, 42: 513-518, 1982.
- 8) Gelpi R.J., Cingolani H.E., Mosca S.M., Rinaldi G.J., Kosoglov A.. Myocardial blood flow distribution across the left ventricular wall. III-mechanical factors. *Arch. Int. Physiol. Biochim.*, 90: 377-385, 1982.
- 9) Gelpi R.J., Mosca S.M., Rinaldi G.J., Kosoglov A., Cingolani H.E.. The effect of calcium antagonism on contractile behaviour of canine hearts. *Am. J. Physiol.*, 244(3): H378-H386, 1983.
- 10) Laguens R.P., Meckert P.C., Chambo J., Gelpi R.J. Chronic Chagas disease.-IV. Pharmacological study. *Medicina (Buenos Aires)* 43:126-130, 1983.
- 11) Meckert P.C., Cazzulo J., Segura E., Esteva M., Ruiz A., Gelpi R.J., Laguens R.P.. Induction of heart alterations by immunization with subcellular fraction from *Crithidia Fasciculata*. *Experientia* 40:171-172, 1984.

- 12) Gelpi R.J., Mosca S.M., Cingolani H.E.. Hemodynamics effects due to changes in heart rate. *Acta Physiol. Pharmacol. Latinoam.*, 34: 219-228, 1984.
- 13) Mosca S.M., Gelpi R.J., Cingolani H.E.. Effects of Molsidomine on hemodynamics and myocardial flow distribution. *Acta Physiol. Pharmacol. Latinoam.*, 35(3): 361, 1985.
- 14) Mosca S.M., Gelpi R.J., Cingolani H.E.. Comparatives effects of nifedipine in anesthetized dogs. *Acta Physiol. Pharmacol. Latinoam.*, 37:467-477, 1987.
- 15) Fujii A.M., Gelpi R.J., Mirsky I., Vatner S.F.. Systolic and diastolic dysfunction during atrial pacing in conscious dogs with left ventricular hypertrophy. *Circulation Res.* 62:462-470, 1988.
- 16) Gelpi R.J., Hittinger L., Fujii A.M., Crocker V., Mirsky I., Vatner S.F.. Sympathetic augmentation of cardiac function in developing hypertension in conscious dogs. *Am. J. Physiol.* 255:H1525-H1534, 1988.
- 17) Hittinger L., Shannon R.P., Bishop S.P., Gelpi R.J., Vatner S.F.. Subendomyocardial exhaustion of blood flow reserve and increased fibrosis in conscious dogs with heart failure. *Circulation Res.*, 65:971-980, 1989 .
- 18) De Lena de Ruotolo S., Mosca S.M., Gelpi R.J., Cingolani H.E.. Chronotropic effects of nidedipine in conscious dogs. *Medicina (Bs.As.)*, 50: 351-355, 1990.
- 19) Aoyagi T., Fujii A., Gelpi R.J., Hittinger L., Crocker V., Mirsky I. Application of the systolic stiffness concept to assess myocardial function in developing hypertension. *Japanese Heart Journal*, 31 (1):71-85, 1990.
- 20) Gelpi R.J., Mosca S.M., Cingolani H.E.. The effects of Bay K 8644 on diastolic function in the dog heart. *J.Mol.Cell.Cardiol.*, 22:1285-1296, 1990.
- 21) Mosca S.M., Borelli R.R., Cingolani H.E. y Gelpi R.J.. Effects of calcium on left ventricular diastolic function en anesthetized dogs. *Acta Physiol Pharmacol. Latinoam.*, 41:325-336, 1991.
- 22) Gelpi R.J., Pasipoularides A., Chase N., Lader A., Hittinger L., Patrick T., Shannon R.P., Bishop S.P., Vatner S.F.. Changes in diastolic cardiac function in developing and stable perinephritic hypertension in conscious dogs. *Circulation Res.*, 68:543-554, 1991.
- 23) Shannon R., Gelpi R.J., Hittinger L., Vatner D., Vatner S.F.. The inotropic response to norepinephrine is augmented early and mantained late in conscious dogs with perinephritic hypertension. *Circulation Res.*, 68:555-567, 1991.
- 24) Mosca S.M., Gelpi R.J., Borelli R.R., Cingolani H.E.. Dissociation between myocardial relaxation and diastolic stiffness in the stunned heart: its prevention by ischemic preconditioning. *Mol.Cell.Biochim*, 129(2):171-178, 1993.
- 25) Mosca S.M., Borelli R.R., Gelpi R.J., Cingolani H.E.. Effects of Alkalosis on myocardial contractility in isolated rabbit hearts. *Arch. Int. Physiol. Biochim.*, 101:179-183, 1993.

- 27) Moreyra A., Gelpi R.J., Mosca S.M., Cingolani H.E. Chronic administration of nicardipine attenuates myocardial stunning in isolated rabbit hearts. *J.Mol.Cell.Cardiol.*, 26(8):979-984, 1994.
- 28) Mosca S.M., Gelpi R.J., Cingolani H.E. Adenosine and dipyridamole mimics the effect of ischemic preconditioning. *J.Mol.Cell.Cardiol.*, 26(10):1403-1410, 1994
- 29) Gelpi R.J., Morales C., Rodriguez M., Bagnarelli A., Hita A., Scapin O. Efectos del Enalaprilato sobre la disfunción postisquémica sistólica y diastólica ("miocardio atontado") en el corazón aislado de conejo. *Medicina (Buenos Aires)*, 58(1):22-28, 1998
- 30) Morales C., Rodriguez M., Scapin O., Gelpi R.J. Comparison of the effects of ACE inhibition with those of Angiotensin II receptor antagonism on systolic and diastolic myocardial stunning in isolated rabbit heart. *Mol Cell Biochem*, 186:117-121, 1998
- 31) Mosca S.M., Gelpi R.J., Milei J., Fernandez Alonso G., Cingolani H.E. Is stunning prevented by ischemic preconditioning?. *Mol Cell Biochem*, 186:123-129, 1998
- 32) Donato M, Morales C, Bagnarelli A, Gelpi RJ. Adenosine and myocardial stunning in the isolated rabbit heart. *Medicina (B Aires)*, 59 (4):339-347, 1999
- 33) Donato M, Morales C, D'annunzio V, Scapin O, Gelpi RJ.. Adenosine administered at the reperfusion attenuates myocardial stunning. *Medicina (B Aires)*, 61:424-430, 2001.
- 34) Morales C, Rodriguez M, Gonzalez GE, Matoso M, Bertolasi C, Gelpi RJ. Temporal course of myocardial infarction the rabbit heart. *Medicina (B Aires)*, 61:830-836, 2001.
- 35) Gelpi RJ, Morales C, Cohen MV, Downey JM. Xanthine oxidase contributes to preconditioning's preservation of left ventricular developed pressure in isolated rat hearts: developed pressure may not be an appropriate end-point for studies of preconditioning. *Basic Res. Cardiol.*, 97:40-46, 2002 .
- 36) Morales C, González GE, Rodríguez M, Bertolasi CA, Gelpi RJ. Histopathologic time course of myocardial infarct in rabbit hearts. *Cardiovasc. Pathol.*, 11(6):318-324, 2002.
- 37) Donato M, Gabay J, Pascua A, Sabarrós J, Sabán M, Grinfeld L, Gelpi RJ. Effects of isometric exercise on left ventricular diastolic function in patients with severe aortic stenosis. *Medicina (B Aires)*, 63 (1):33-36, 2003.
- 38) Ruiz GA, Calvar C, Hermes R, Rivadeneira D, Bengolea S, Chirife R, Tentoni MC, Gelpi RJ. Insulin sensitivity in young women with vasovagal syncope. *Am. Heart J.*, 145 (5):834-840, 2003.
- 39) Donato M, Gelpi RJ. Adenosine and cardioprotection during reperfusion - an overview. *Mol Cell Biochem*, 251:153-159, 2003

- 40) González GE, Mangas F, Depetris A, Monroy S, Donato M, Morales C, Gelpi RJ. Left ventricular diastolic behavior at the beginning of reperfusion in the myocardial stunning. *Medicina (Buenos Aires)* 63 (5): 403-409, 2003.
- 41) Gonzalez GE, Mangas F, Palleiro J, Rodriguez M, Depetris Chauvin A, Gelpi RJ, Morales C. Effects of early administration of losartan on the ventricular remodeling post myocardial infarction in rabbits. *Medicina (B Aires)*; 64(1):25-29, 2004
- 43) González GE, Palleiro J, Monroy S, Pérez S, Rodríguez M, Masucci A, Gelpi RJ, Morales C. Effects of early administration of losartan on functional and morphological aspects of post-myocardial infarction ventricular remodeling in rabbits. *Cardiovasc. Pathol*, 14 (2): 87-94, 2005.
- 44) D'Annunzio V, Donato M, Sabán M, Sanguinetti SM, Wikinsky RLW, Gelpi RJ. Hypercholesterolemia attenuates postischemic ventricular dysfunction in the isolated rabbit heart. *Mol. Cell. Biochem.* 273 (1-2):137-143, 2005.
- 45) Gabay J, Donato M, Pascua A, Gelpi RJ, Grinfeld L. Effects of isometric exercise on the diastolic function in patients with severe aortic stenosis with or without coronary lesion. *Int. J. Cardiol.*, 104 (1): 52-58, 2005.
- 46) González GE, Rodríguez M, Donato M, Palleiro J, D'annunzio V, Morales C, Gelpi RJ. Effects of low calcium reperfusion and adenosine on diastolic behavior during the transitory systolic overshoot of the stunned myocardium in the rabbit. *Can J Physiol Pharmacol*, 84 (2): 265-272, 2006.
- 47) Berrocal D, Morales C, Gonzalez GE, Grinfeld L, Gelpi RJ. Local Delivery of Irinotecan With Drug-Eluting Stents Inhibits Neointimal Proliferation in Hypercholesterolemic Rabbits. *Catheter. Cardiovasc. Interv.*, 68 (1):89-96, Jul 2006.
- 48) Pascua A, Donato M, Borrego C, Gabay J, Berrocal D, Gelpi RJ, Grinfeld L. Evaluation of left ventricular systolic and diastolic function during adn after isometric exercise in hypertensive patients. *Medicina (B Aires)*; 66 (5): 433-43, 2006.
- 49) Abbate A, Morales C, De Falco M, Fedele V, Biondi Zoccai GG, Santini D, Palleiro J, Vasaturo F, Scarpa S, Iluso G, Severino A, Balde F, Crea F, Biasucci LM, Vetrovec GW, Gelpi RJ, Baldi A. Ischemia and apoptosis in a animal model of permanent infarct-related artery occlusion. *Int. J. Cardiol.*;121(1):109-111, September 2007
- 50) Abbate A, De Falco M, Morales C, Gelpi RJ, Prisco M, De Luca A, Palleiro J, Fedele V, Feroce F, Baldi F, Vetrovec GW, Baldi A. Electron microscopy characterization of cardiomyocyte apoptosis in ischemic heart disease. *Int J Cardiol.* 114 (1): 118-120, 2007.
- 51) Donato M, D'annunzio V, Berg G, Gonzalez GE, Schreier L, Morales C, Wikinski RL, Gelpi RJ. Ischemic postconditioning reduces infarct size by activation of A1 receptors and k<sup>+</sup>atp channels in both normal and hypercholesterolemic rabbits. *J Cardiovasc. Pharmacol.*, 49 (5): 287-292, 2007.
- 52) Cavallero S, González GE, Puyó AM, Rosón MI, Pérez SG, Morales C, Hertig CM, Gelpi RJ, Fernández BE. Atrial natriuretic factor behavior and myocyte

hypertrophic profile in combined pressure and volume-induced cardiac hypertrophy. *J Hypertens*, 25 (9):1940-1950, September 2007.

53) Berrocal DH, González GE, Fernández A, Pérez S, Wilensky L, Morales C, Grinfeld L, Gelpi RJ. Effects of overexpansion on stents' recoil, symmetria-asymmetria and neointimal hyperplasia in aortas of hypercholesterolemic rabbits. *Cardiovasc Pathol*. 17(5):289-296, 2008.

54) D'Annunzio V, Donato M, Erni L, Miksztowicz V, Buchholz B, Lorenzo Carrión C, Schreier L, Wikinski R, Gelpi RJ, Berg G, Basso N. Rosuvastatin given during reperfusion decreases infarct size and inhibits mmp-2 activity in normo and hypercholesterolemic rabbits. *J Cardiovasc Pharmacol*, 53(2):137-44, 2009.

55) González G, Seropian I, Krieger L, Palleiro J, López Verrilli MA, Gironacci M, Cavallero S, Wilensky L, Tomasi VH, Gelpi RJ, Morales C. Effect of early vs late AT1 receptor blockade with losartan on Post-Myocardial infarction ventricular remodeling in rabbits. *Am J Physiol Heart Circ Physiol*, 297 (1): H375-H386, 2009.

56) González GE, Rabald S, Briest W, Gelpi RJ, Seropian I, Zimmer H, Deten A. Ribose treatment reduced the infarct size and improved heart function after myocardial infarction in rats. *Cell Physiol Biochem*, 24:211-218, 2009.

57) Gelpi RJ, Gao S, Zhai P, Yan L, Hong C, Lauren M.A. Danridge LMA, Maejima Y, Donato M, Nagata K, Yokota M, Molkentin JD, Vatner DE, Vatner SF, Sadoshima J. Genetic inhibition of calcineurin induces diastolic dysfunction in mice with chronic pressure overload. *Am J Physiol Heart Circ Physiol*, 297(5):H1814-1819, 2009.

58) Donato M, D'Annunzio V, Buchholz B, Miksztowicz V, Lorenzo Carrión C, Valdez LB, Zaobornyj T, Schreier L, Wikinski R, Boveris A, Berg G, Gelpi RJ. Role of matrix metalloproteinase-2 in the cardioprotective effect of ischemic postconditioning. ISSN: 0363-6135. *Exp Physiol*, 95 (2): 274-281, 2010.

59) Cavallero S, González GE, Seropian IM, Cerrudo CS, Matorra F, Morales C, Hertig CM, Puyó AM, Fernández BE, Gelpi RJ. Ventricular function and natriuretic peptides in sequentially combined models of hypertension. *Am J Physiol Heart Circ Physiol*, 298: H1290-H1299, 2010.

60) Gelpi RJ, Park M, Gao S, Dhar S, Vatner DE, Vatner SF. Apoptosis in severe, compensated pressure overload predominates in non-myocytes and is related to the hypertrophy but not function. *Am J Physiol Heart Circ Physiol*, Mar; 300 (3): H1062-H1068, 2011

61) Valdez LB, Zaobornyj T, Bombicino SS, Iglesias DE, Boveris A, Donato M, D'Annunzio V, Buchholz B, Gelpi RJ. Complex I syndrome in myocardial stunning and the effect of adenosine. *Free Radic Biol Med.*, 51(6):1203-1212, 2011

62) D'Annunzio V, Donato M, Fellet A, Buchholz B, Antico Arciuch VG, Carreras MC, Valdez L, Zaobornyj T, Morales C, Poderoso JJ, Boveris A, Balaszczuk AM, Gelpi RJ. Diastolic function during hemorrhagic shock in rabbits. *Mol Cell Biochem*. Aug 13 [Epub ahead of print], 2011

63) Buchholz B, Rodriguez M, Donato M, Gelpi RJ. Preischemic efferent vagal stimulation increases the size of myocardial infarction in rabbits. *Int J Cardiol*, 2011 (manuscript in second revision).



64) Cerrudo CS, Cavallero S, Rodríguez Fermepín M, Matorra F, Gelpi RJ, Hertig CM, Fernández BE. Cardiac expression of atrial and B-type natriuretic peptides in chronic hypertension by sequentially applied renovascular and Doca-salt treatment. *Am J Physiol Heart Circ Physiol*, 2011 (manuscript in second revision).

65) Donato M, Buchholz B, Rodríguez M, Inserte J, García-Dorado D, Gelpi RJ. Role of the parasympathetic nervous system in cardioprotection by remote ischemic preconditioning. (manuscript sent for publication)

66) D'Annunzio V, Buchholz B, Siachoque Montaña NA, Quiroga A, Donato M, Gelpi RJ. Ischemic postconditioning reduces infarct size by  $\alpha$ -1 adrenergic receptor pathway. (manuscript in preparation)

## 10. Books, Monographs and Chapters

Shannon R., Komamura K., Gelpi R.J., Vatner S.F., Altered load: an important component of impaired diastolic function in hypertension and heart failure. *Proceedings of the International Symposium on the Physiology of Diastole in Health and Disease*. W. Grossman and B.H. Lorrel, Editors, Kluwer Academic Publishers, Boston, pag. 177-185, 1994.

Cohen M.V., Downey J.M., Gelpi R.J., Slezak J., Editors. Myocardial ischemia and reperfusion. *Myocardial ischemia and reperfusion*. Ed.: Kluwer Academic Publishers. ISBN: 0-7923-8173-4. 1999

Gelpi R.J. Cardiovascular physiology; in: *Cardiología 2000*, Ed. Bertolasi, Panamericana, Buenos Aires, Argentina. pag.:83-110, 1997. ISBN 950-06-0228.

Gelpi R.J., Schwint O. Myocardial hypertrophy; in: *Cardiología 2000*, Ed. Bertolasi, Panamericana, Argentina. Pag.:111-134, 1997. ISBN 950-06-0228

Donato M, Gelpi RJ. Adenosine and cardioprotection during reperfusion - an overview. In: *Biochemistry of Hypertrophy and Heart Failure*. Lorrie A. Kirshenbaum, Ian M.C. Dixon, Pawan K. Singal, editores. Ed.: Kluwer Academic Publishers. ISBN 1-4020-7434-4, October 2003.

Gelpi RJ, Donato M (2010). *Fisiopatología Cardiovascular: Bases racionales para la terapéutica*. Rosario. Ed. Corpus. ISBN 978-950-9030-02-2. 419 pages.

Brasileiro Filho (Brazilian edition), Casas JG, Gelpi RJ (Argentina edition)(2011). *Bogliolo - Patología de Las Enfermedades Regionales Latinoamericanas*. Rio de Janeiro, Brazil. Ed. Guanabara-Kogan. ISBN: 978-852-7717-09-0. 232 pages.

Donato M, D'Annunzio V, Gelpi RJ (2005). Mecanismos de protección miocárdica en la cardiopatía isquémica. In: *Otoni Moreira Gómes. Fisiología Cardiovascular Aplicada (431-458)*. Belo Horizonte. Ed. EDICOR. ISBN 85-99179-06-3.

González G, Morales C, Gelpi RJ (2010). Sistema Renina Angiotensina y Remodelamiento Cardíaco. In: *Gelpi RJ, Donato M. Fisiopatología Cardiovascular. Bases racionales para la terapéutica (pages 149-165)*. Rosario, Argentina. Ed. Corpus. ISBN 978-950-9030-02-2.

Gelpi RJ, Donato M, D'Annunzio V (2010). Insuficiencia Cardíaca. In: Gelpi RJ, Donato M. Fisiopatología Cardiovascular. Bases racionales para la terapéutica (223-235). Rosario, Argentina. Ed. Corpus. ISBN 978-950-9030-02-2.

Buchholz B, D'Annunzio V, Gelpi RJ (2009). Isolated heart Langendorff technique. In: Rigalli A, Di Loreto V. Experimental Surgical Models in the Laboratory Rat (pages 209-213). Boca Raton, USA . Ed. CRC Press. Taylor and Francis Group. ISBN 13:978-1-4200-9326-1.

Gelpi RJ, Morales C, Nicolosi L (2011). Enfermedad periodontal y enfermedad cardiovascular. In: Brasileiro Filho G, Casas J, Gelpi RJ. Patología de las enfermedades regionales latinoamericanas. (pages 207-211). Río de Janeiro, Brazil. Ed. Guanabara Koogan. ISBN 978-85-277-1709-0.

### **11. Abstracts (Last 3 years)**

Chen L, Zhao X, Reinhardt H, Gelpi RJ, Robbins J, Vatner DE, Vatner SF. Overexpressed Cardiac Gs alpha Protects Against Myocardial Ischemic Injury in Conscious Rabbits. Experimental Biology Meeting. San Diego, CA, USA, April 7-9, 2008. FASEB J, 22:1b51, 2008.

Gao S, Gelpi RJ, Hong C, Shen Y, Zhain P, Dhar SK, Vatner DE, Vatner SF, Sadoshima J. Cardiac Function in Transgenic Mice with Calcineurin Inhibition. Experimental Biology meeting. San Diego, CA, USA, April 7-9, 2008. FASEB J, 22:970.46, 2008.

González GE, Wilensky L, Palleiro J, Seropian I, Krieger L, Rodriguez M, Gelpi RJ, Morales C. Early vs late losartan effects on post-myocardial infarction ventricular remodelling and early inflammatory infiltrate in rabbits. XVI World Congress of Cardiology. Buenos Aires, Argentina. May 18- 21, 2008. Circulation, 117(19):140, 2008.

González GE, Berrocal DH, Fernández A, Wilensky L, Morales C, Grinfeld L, Gelpi RJ. Effects of overexpansion on stents' recoil, symmetria-asymmetria and neointimal hyperplasia in aortas of hypercholesterolemic rabbits. XVI World Congress of Cardiology. Buenos Aires, Argentina. May 18- 21, 2008. Circulation, 117(19):138, 2008.

Gelpi RJ, Shen YT, Vatner DE, Vatner SF. Increased Apoptosis in Compensated Pressure Overload is not related to the Extent of Hytertrophy and Occurs in Interstitial Non-Myocytes. American Heart Association. Sessions: November 8-12, 2008. New Orleans Louisiana. Circulation (Supplement 2) 118(18): S354, 2008

Buchholz B, Miksztowicz V, D' Annunzio V, Quiroga A, Lorenzo Carrion C, Berg G, Donato M, Gelpi RJ. EL poscondicionamiento isquémico atenúa la actividad de MMP-2 y reduce el tamaño de infarto en el corazón aislado de conejo. LIII Congress of the Argentina Society of Clinical Investigation, Mar del Plata, November 22, 2008. Medicina (B Aires), 68(supl. II):65, 2008.

González GE, Krieger ML, Seropian IM, López Verilli MA, Gironacci MM, Cavallero S, Tomasi VH, Wilensky L, Matorra F, Gelpi RJ, Morales C. Activación temporal del sistema renina-angiotensina cardíaco y efectos del tratamiento con losartan sobre el remodelamiento ventricular post-infarto en conejos. LIII Congress of the Argentina Society of Clinical Investigation, Mar del Plata, Argentina, November 20, 2008. *Medicina (B Aires)*,68(supl. II):2008.

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