

CURRICULUM VITAE

Name: Martínez-Sánchez, Gregorio
Identity Number: C.I. 67121130147 Passport: B388526 Permesso Soggiorno I00056813
Citizenship: Cuban
Date & Place of Birth: December 11, 1967; San Antonio de los Baños, Habana, Cuba
Marital Status: Married (Gema Pérez Davison)
 One child (Rocío Martínez Pérez)
Office Address: Medinat srl.
 Via Fazioli 22, Camerano 60021, Ancona, Italy
 E-Mail: gregorcuba@yahoo.it
 Fax. +39 071731928 Phone +39 339 5372953

Index

Academic Degrees:.....	2
Professional Appointments:.....	2
Administrative Appointments:	2
Language:	2
Professional Society Memberships:	2
Professional Society Awards and Services:	2
Patents:	3
<i>Patent pending</i>	3
Graduate Student Training.....	3
<i>Technical. Dissertation Thesis (tutor):</i>	3
<i>B.Sc. Dissertation Thesis (tutor or author):</i>	3
<i>Master Dissertation Thesis (tutor or author):</i>	4
<i>Ph.D Dissertation Thesis (tutor or author):</i>	4
<i>Ph.D Dissertation Thesis (referee-opponent):</i>	5
Teaching:	5
Publications:	5
Abstracts:	9
Books	12
Multimedia	13
Post-Graduate Courses	13

Academic Degrees:

B.Sc. Pharm. Dr.	1990	University of Havana, Cuba (Pharmacy Science -With Honors)
M.Sc.	1998	University of Havana, Cuba (Pharmacology)
Ph.D.	2001	University of Havana, Cuba (Pharmacy Science-With Honors)

Professional Appointments:

1990-1992	Specialist in Biological Productions. National Center of Bioproducts, Bejucal, P. Havana, Cuba.
1992-2001	Junior Researcher. Studies Center for Investigations & Biological Evaluations, Food & Pharmacy School, University of Havana, Cuba.
2001- 2005	Senior Researcher. Studies Center for Investigations & Biological Evaluations, Food & Pharmacy School, University of Havana, Cuba.
2005-2009	Manager. Studies Center for Investigations & Biological Evaluations, Food & Pharmacy School, University of Havana, Cuba.
2009-Present	Scientific Manager: Medinat srl (Italy) Scientific consultant: Rubio Pharma y asociados (México), Jericó s.a. (Venezuela).

Administrative Appointments:

1995-2005	Director, Laboratory of Biochemistry. Studies Center for Investigations & Biological Evaluations, Food & Pharmacy School, University of Havana, Cuba.
2005-2009	Director, Studies Center for Investigations & Biological Evaluations, Food & Pharmacy School, University of Havana, Cuba.

Language:

Spanish (mother tongue)
English, Italian
German (Basic level)

Professional Society Memberships:

Cuban Association of Pharmacologists / International Union of Pharmacology
Society for Free Radical Biology and Medicine (SFRBM), a constituent member of the
International Society for Free Radical Research (ISFRR). August 29, 2005.
Cuban Association of Pharmacists / International Pharmaceutical Federation
Cuban Association of Toxicologists
Cuban Association of Free Radicals

Professional Society Awards and Services:

1998-present	Program Committee- Cuban Association of Pharmacologists
2002-present	Program Committee- Cuban Association of Pharmacists
2005-present	Editorial Board of Cuban Journal of Pharmacy – Cuban Association of Pharmacy
2006-2011	In charge Scientific Committee of the Congress Havana Redox

Patents:

Patent Number In Cuba 203 / '98 Date of Application: 29/12/98

Center of Pharmaceutical Chemistry (2002). "Pharmaceutical Compositions Including a Mixture of Polyphenols, Terpenoids, Steroids, Fatty Acids and Microelements with Antioxidant, Analgesic, Anti-inflammatory and Anti-spasmodic Properties". Patent 22 846 1814/2002, OCPI. Havana, Cuba. A61k 35/78, A23L1/29, A23L 1/48, A61P 35/00, A61P 39/06

PCT in 21 country PCT/CU99/00007, Venezuela 000030, Colombia 99 081 307, Perú 001343-99, Panamá 99101-2267

- Sanitary Registration No. 74/99 Volume II, Vimang® Anti-oxidant Nutritional Supplement, pills (300 mg, flask for 60 pills).
- Sanitary Registration No. 80/99, Vimang® Anti-oxidant Nutritional Supplement, flavor suspension 6%, flask for 235 mL.
- Trade Mark No. 125570/97 (Application 1584/96) Vimang® Pharmaceutical Product.

Patent pending

1. Cuban Office for Patents and Inventions, OCPI, "Mezcla de O₃/O₂ para el Tratamiento de Diferentes Enfermedades" [Mixture O₃/O₂ for therapeutic use]. Request No. 2002-00-59, date march 21, 2002.
2. Cuban Office for Patents and Inventions, OCPI, "Formulaciones para la prevención y el tratamiento de la migraña y método de tratamiento preventivo" [Natural formula for Migraine prevention]. Request No. 2003-0187 date August 2, 2003.
3. Cuban Office for Patents and Inventions, OCPI, "Actividad Antioxidante y Antiinflamatoria de *Allium cominia*" [Antioxidant and antiinflammatory properties of *Allium cominia*]. Request No. 2005-00000, date July, 2005.

Graduate Student Training**Technical. Dissertation Thesis (tutor):**

- [1] Characterization of Some Parameters of Sugar Cane Lignan. Dep. of Toxicology - Pharmacology IFAL UH and Polytechnic Institute of Chemical Martyrs of Girón 1993.
- [2] Evaluation of the anti-inflammatory properties of *Piper auritum*. Dep. of Pharmacology-Toxicology - Inst. Polytechnic Martyrs of Girón. 18/11/95.

B.Sc. Dissertation Thesis (tutor or author):

Author:

- [1] Preliminary standardization of Medicinal Plants. Department of Pharmaceutical Chemistry, Univ. Hab. Cuba.1990.

Tutor:

- [1] Valuation of Techniques for the Toxicological & Pharmacological Evaluation of Nandrolone. Center for Biological Control, IFAL, Univ. Hab. 1991.
- [2] Desipramine 25 mg, Preliminary Bio-ability Studies. Department of Pharmaceutical Technology. IFAL, Univ. Hab.1991.
- [3] Validation of techniques to assay Superoxide Dismutase. Dep. Pharmacol. and Toxicol. IFAL-UH 1993.
- [4] Pharmacodinamic Evaluation of the Monoclonal Antibody IOR-r3 in rats. Dpto. Pharmacol. and Toxicol. IFAL-UH 1993.
- [5] Acute Dermal Toxicity of ozonized oil "Oleoazón" in rabbits. Dep. of Toxicology - Pharmacology IFAL UH 1994.

- [6] Acute Dermal Toxicity of ozonized oil "Oleozón" in rats. Dep. of Toxicology - Pharmacology IFAL UH 1994.
- [7] Preformulation studies of the one Sugar Cane Lignan. Dep. of Pharmaceutical Technology IFAL UH 1994.
- [8] Study of the Scaring of Burns Using Honey-propolis Formulations. Dep. Pharmacology Toxicology IFAL 1995.
- [9] Acute Toxicity of the *Musa paradisiaca* L. Powder of pseudo-stem. Dep. Pharmacology Toxicology IFAL 1995.
- [10] Pharmacokinetic and Toxicological Study of Anti-anemic Drugs. Dep. Pharmacology Toxicology IFAL 1995.
- [11] Anti-psoriatic Effect of Oleozón. Department of Pharmacology and toxicology. IFAL-UH, 1996.
- [12] *In vitro* Antioxidant Activity of ficocianin extracted from *Spirulina platensis*. IFAL, UH. 1998.
- [13] *In vitro* Antioxidant Activity of triacetnamida. IFAL, UH, 1998.
- [14] Antioxidat Study of lignan from Sugar Cane. IFAL, UH, 1998.
- [15] Protective Effect of *Mangifera indica* L extract on TPA-oxidative-induced damage. IFAL, Univ. of Havana 2000.
- [16] Reduction of the neuronal and oxidative damage induced by cerebral ischemia-reperfusion in gerbil pre-treated with *Mangifera indica* L. extract. IFAL, Univ. of Havana 2000.

Master Dissertation Thesis (tutor or author):

Author:

- [1] *In vitro* Antioxidant Activity of Lignan from the Sugar Cane. IFAL, UH 1998.

Tutor:

- [2] *In vivo/in vitro* Comparison of the Anti-oxidant Effects of *Mangifera indica* L. extract. IFAL, Univ. of Havana 2000.
- [3] Toxicological and Pharmacological Study of the *Musa paradisiaca* L powder. Univ. of the Havana, June 2001.
- [4] Ecotoxicologic Bioassays of Biobras-16. Univ. of the Havana, February 2001.
- [5] Study of the Therapeutic Effectiveness of Ozone, and their Actions on Systemic Mediators of Endotelial Damage in Patient with Neuro-infectious Foot. Univ. of Havana, Dec. 2001. Student: Taimy Chavez Rodríguez
- [6] [Effect of Vimang Supplementation in Oxidative Stress Markers an the Progression of the HIV Infection] Univ. of Havana, Nov. 2003. Student: Lidianys Lewis Lujan
- [7] Antioxidant effects of Gossipitrina, Univ. of Havana, Nov. 2004. Student: Gilberto Pérez Truebas
- [8] Characterization of anti-hypertensive therapy in the community; El Vedado. [Caracterización de la terapia antihipertensiva del área de salud Policlínico docente universitario del Vedado]. Author: Lic. Arerys de los Reyes. Master in Clical Care. Feb. 2008.
- [9] Characterization of oxidative stress in male infertility. [Caracterización del estrés oxidativo en pacientes masculinos infértiles]. Master in Clinical Laboratory, Univ. of Havana, Cuba. Autor: Akel Mallok. March 2010.

Ph.D Dissertation Thesis (tutor or author):

Author:

- [1] Characterization of the Biological Effects of *Mangifera indica* L Extract (QF808). A multi-functional Antioxidant. Univ. of Havana 2001.

Tutor:

- [1] Pharmacological and Chemical Pharmacognostic Studies of *Alternantera brasiliiana* and *Bouchea fluminensis*. Univ. of Havana, July 2001. Student: Rsemeres Howar Delaporte. Doctor in Pharmaceutical Sciences.
- [2] Pharmacodinamic study of O₃/O₂ in an Experimental Model and in a Clinical Assay in Diabetics with Neuro-infectious Foot. Univ. of Havana, Dec. 2002. Student: Saied Mohamed Al-Dalain. Doctor in Pharmaceutical Sciences.
- [3] Estudio del Balance Redox en pacientes VIH/SIDA [Study of the redox balance in VIH patients]. Student: Lizette Gil del Valle (IPK). December 2003. Doctor in Pharmaceutical Sciences.
- [4] Estudios ecotoxicológicos del análogo de brasinoesteroides DI31 en sistemas de agua dulce. [Eco toxicological studies of a brasinosteroid DI31 in acuatic organism]. Author: M.Sc. Gema Pérez Davison (IFAL). December 2007. Doctor in Pharmaceutical Sciences.
- [5] Potencial terapéutico del aceite esencial de *Chenopodium ambrosoides* y alguno de sus componentes frente a Leishmania. [Therapeutic potential of essential oils and some component of *Chenopodium ambrosoides* versus Leishmania]. Autor: M.C. Lianet Monzote Fidalgo. February 2010. Doctor in Pharmaceutical Sciences.

Ph.D Dissertation Thesis (referee-opponent):

- 1.) [Protective Effect of Ozone Oxidative Preconditionings in Ischemia/Reperfusion Injury] Author: M.C. Hussam H Ajamieh; Tutor: Dra. Olga S. León. Hav. Univ. January 2005
- 2.) [Biophysic and Immuno activity properties of Surfacen[®] and antioxidant effect of SPA protein] Author: Odalys Blanco Hidalgo, Tutors: Dr.C. Roberto Faure García and Dr.C. Jesús Pérez Gil. National Center for Animal Health. August 30, 2005.
- 3.) [Study of the molecular mechanism of drepanocytosis inhibition by vanillin and synthetic 1-o-alkylglicerol], Author: Lic. Grisel del Toro García, tutores: Dr.C. Yolanda Valdés Rodríguez and Dr.C. Carlos Cabal Mirabal. West Univ. Cuba. September 2005
- 4.) [Study of the anti-inflammatory mechanism of *Mangifera indica* L. (Vimang[®]) extract]. Author Lic. Gabino Garrido Garrido, Tutor: Dr.C. René Delgado Hernández. Center of Pharmaceutical Chemistry, Cuba. January 2006.
- 5.) [Incidence of regional diet in cardiovascular diseases of women in Chiapas, México] Author: M.C. Ángel Gutiérrez Zavala Tutors: Dr.C. Isabel García García and Dr.C. Luis Ledesma Rivero. Univ. of Chiapas-Univ. of Havana. January 2006.
- 6.) [Antioxidant properties of *Rizophora mangle* L. extract and it poliphenolic fraction in *in vitro* and *in vivo* systems]. Author: Janet Sánchez Calero; Tutor: Dr.C. Roberto Faure García. CENSA. 25 september 2007.
- 7.) [Oxidative stress and chromosome fragility in diabetic pregnancy] Autor: Ing. Sonia Clapés Hernández Tutors: Dr. Bartolomé Bonet Serra. Instituto superior de ciencias medicas Mártires de Girón. 25 may 2007

Teaching:**University of Havana College of Pharmacy**

Pharmacology: Inflammation, Fever and Pain, Pharmacogenetic

Experimental Pharmacology: Isolated Organs Assays

Anatomy: Skin Anatomy

Post Graduate course: Antioxidant-pro-oxidant Balance Health and Diseases

Publications:

- 1) G. Martínez Sánchez, R. López Pérez, R Cruz (1995). Actividad secuestradora de radicales superóxido de un lignano procedente de la Caña de Azúcar. [Superoxide Scavenger Activity of lignin from Sugar Cane Bagasse] *CNIC Ciencias Biológicas*. **26**, (1,2,3), ISSN 0258-6002. : 29-30.
- 2) G. Martínez Sánchez, O. Sonia León Fernández, C. Rodríguez Torres, N. Merino García, S. Sam Rodríguez, M. Cedeño Palenzuela, A. Acebo Mérida (1997). Estudio de la toxicidad aguda dérmica del aceite Ozonizado "Oleozone" en ratas. [Acute Toxicity of Ozonized Oil "Oleozone" in Rats] *Revista CNIC Ciencias Biológicas* **28** (1): 35-38.
- 3) G. Martínez Sánchez, N. Merino García, S. Sam Rodríguez, T Cenarega Álvarez (1997). Efecto histológico y bioquímico del "Oleozone" en el modelo de la cola del ratón. [Histological and Biochemical effect of Oleozone in the Mice Tail Mothel] *CNIC Ciencias Biológicas* **28** (1): 31-34.
- 4) Cruz Rolando, Dopico Daysy, Figueredo José, Rodríguez Maira, G. Martínez Sánchez (1997). Uso de la Lignina del Bagazo con Fines Medicinales. [Medicinal Use of Lignin from Sugar Cane Bagasse] *Revista de Medicina Experimental* (Perú). **14** (1): 67-71.
- 5) G. Martínez Sánchez, Daisy Dopico, Rolando Cruz (1999). Efectos Biológicos de la Lignina de la Caña de Azúcar. [Biological effect of Sugar Cane Lignin] *Cuba Azúcar* **XXVIII** (2) (Abril-Junio) ISSN 0590-2916: 19-22.
- 6) Gil del Valle, L.; G. Martínez Sánchez; González-Blanco, I.; Pérez-Ávila, L. J. (1999). Estrés oxidativo. Mecanismos generadores involucrados y su relación con el VIH, [Oxidative Stress. Mechanism Related with HIV infections. Rewiew] Bibliográfico. *Biochimia* **24** (4): 85-93, (México).
- 7) G. Martínez Sánchez; Delgado, R.; Pérez, G. D.; Garrido, G.; Núñez-Sellés, A. J.; León, O. S. (2000). Evaluation of the *in vitro* antioxidant activity of *Mangifera indica* L. extract (QF808). *Phytother. Res.* **15** (6): 245-2474.

- 8) G. Martínez Sánchez; Re, L.; Giuliani, A.; Núñez-Sellés, A. J.; Pérez-Davison, G.; León, O. S. (2000). Protective effect of *Mangifera indica* L. Extract, mangiferin and selected antioxidants against TPA-induced biomolecules oxidation and peritoneal macrophage activation in mice. *Pharmacology Research* **42** (6): 555-573
- 9) Candelario-Jalil, E.; Ajamieh, H. H.; Sam, S.; G. Martínez Sánchez; León-Fernández, O. S. (2000). Nimesulide limits kainate-induced oxidative damage in the rat hippocampus. *European J. Pharmacol.* **390** (1): 295-298.
- 10) Cruz R, Dopico D, Figueredo J, Rodríguez M, Martínez G. (2000). Uso de la lignina de bagazo con fines medicinales. [Medicinal use of Sugar Cane Bagasse] *INDOTECNICA* **9**(1): 14-20.
- 10) G. Martínez Sánchez; Giuliani, A.; León, O. S.; Pérez-Davison, G. D.; Núñez-Sellés, A. J.; (2001). Effect of *Mangifera indica* L. Extract (Vimang) on protein and hepatic microsomes peroxidation. *Phytotherapy Research* **15** (7): 581-585.
- 11) G. Martínez Sánchez; Candelario-Jalil, E.; Giuliani, A.; León, O. S.; Sam, S. R; Delgado, R.; Núñez-Sellés, A. J. (2001). *Mangifera indica* L. extract (Vimang) reduces ischemia-induced neuronal loss and oxidative damage in the gerbil brain. *Free Rad. Res.* **35** (5): 465-473.
- 12) Rosemeres Horwat Delaporte, G. Martínez Sánchez, Armando Cuellar Cuellar, Joao Carlos Palazzo de Mello (2001). Control de Calidad y actividad antiinflamatoria de las drogas *Alternantera brasiliana* (L) Kuntze y *Bouchea fluminensis* (Vell.) Mold. [Quality Control and anti-inflammatory activity of *Alternantera brasiliana* (L) Kuntze and *Bouchea fluminensis* (Vell.) Mold] *Acta Farmacéutica Bonaerense* **20** (1): 39-46.
- 13) Eduardo Candelario-Jalil , Saied Mohammed Al-Dalain, Rubén Castillo, G. Martínez Sánchez and Olga Sonia León Fernández (2001). Selective Vulnerability to Kainate-induced Oxidative Damage in Different Rat Brain Regions. *Journal of Applied Toxicology* **21**(5): 403-407.
- 14) Gilberto Pérez Trueba, G. Martínez Sánchez (2001). Los flavonoides como antioxidantes naturales [Flavonoid as Natural Antioxidants]. *Acta Farmacéutica Bonaerense* **20** (4) Oct.-Dic. 2001
- 15) Gilberto Pérez Trueba, G. Martínez Sánchez (2001). Las Especies Reactivas del Oxígeno y el Cáncer [The Reactive Oxygen Species in Cancer]. *Revista CNIC Ciencias Biológicas* **32**. (2): 75-84
- 16) Eduardo Candelario-Jalil; Noël H. Mhadu; Said M. Al-Dalain; G. Martínez Sánchez & Olga Sonia León. (2001). Time course of oxidative damage in different brain regions following transient cerebral ischemia in gerbils. *Neuroscience Research* **41** (3):233-241.
- 17) G. Pérez-Davison, R. Restrepo, M. Serrano, G. Martínez Sánchez, F. Coll & O.S. León, (2001). Efectos Ecotoxicológicos de un Brasinoesteroide en Bioindicadores de Aguas Dulces. [Brassinosteroid Ecotoxicological Effects in Freshwater Animals] *Acta Farmacéutica Bonaerense* **20** (4) Oct.-Dic. 2001.
- 20) Said Mohammed Al-Dalain, G. Martínez Sánchez, Eduardo Candelario-Jalil, Silvia Menéndez, Lamberto Re, Attilia Giuliani and Olga Sonia León (2001) Ozone Treatment Reduces Markers of Oxidative and Endothelial Damage in an Experimental Diabetes Model in Rats. *Pharmacological Research.* **44** (5): 391-396
- 21) Hussam Ajamieh , Nelson Merino , Eduardo Candelario-Jalil , Silvia Menéndez , G. Martínez-Sánchez, Lamberto Re, Attilia Giuliani and Olga Sonia León (2002). Similar Protective Mechanisms of Ischemic and Ozone Oxidative Preconditionings are Similar in Liver Ischemia/Reperfusion Injury. *Pharmacol. Res.* **45**(5): 333-339 (doi:10.1006/phrs.2002.0952) <http://www.idealibrary.com/links/doi/10.1006/phrs.2002.0952>
- 25) Rosemeres Horwat Delaporte, G. Martínez Sánchez, Attilia Giuliani, Migdalia Miranda Martínez and João Carlos Palazzo de Mello. (2002) "Antiinflammatory and Antioxidant Activity of the Iridoid Lamiide Isolated from *Bouchea fluminensis* (Vell.) Mold. (Verbenaceae). *Journal of Ethnopharmacology.* **82**: 127-130.
- 26) G. Pérez-Davison, R. Restrepo, M. Serrano, G. Martínez Sánchez, F. Coll & O.S. León, (2002). Efectos Ecotoxicológicos de un Brasinoesteroide en Tres Organismos Productores. [Brassinosteroid Ecotoxicological Effects in Three Producer Organisms]. *Acta Farmacéutica Bonaerense* **21** (1):13-20
- 27) Lizette Gil, Gregorio Martínez, Ivón González, Alicia Tarinas, Alejandro Álvarez, Randelis Molina, Maite Robaina, Rolando Tapanes, Jorge Pérez Avila, Mariela Guevara, Alberto Nuñez, Olga Sonia León. (2002) Effects of Vimang on Oxidative Stress and Marker of Disease Progresión in HIV/AIDS Patients. *Free Radicals Research* **36**(1): 107-109.
- 28) Lizette Gil, Alicia Tarinas, G. Martínez Sánchez, Olga Sonia León (2002). Terapia antioxidante en la infección por el virus de la inmunodeficiencia humana [Antioxidative therapy in human immunodeficiency virus-infection]. *Acta Farmacéutica Bonaerense.* **21** (4): 301-8.
- 29) Eduardo Candelario-Jalil, Dalia Álvarez, Juana Castañeda, Said M. Al-Dalain, G. Martínez Sánchez, Nelson Merino, Olga Sonia León. (2002). A highly selective cyclooxygenase-2 inhibitor is neuroprotective when given several hours after transient cerebral ischemia in gerbils. *Brain Research* Vol. **927** (2): 212-215.
- 30) Eduardo Candelario-Jalil, Dalia Álvarez, Michel García-Cabrera, Armando González-Falcón, G. Martínez Sánchez, Nelson Merino, Attilia Giuliani, Olga Sonia León. (2002). "Neuroprotective efficacy of nimesulide against

- hippocampal neuronal damage following transient forebrain ischemia" *European Journal of Pharmacology*. **453**:189-195
- 31) Gregorio Martínez Sánchez; Attilia Giuliani; Rosemeres Horwat Delaporte; Olga Sonia León Fernández (2003). Indicadores Clínicos del Balance Redox, una Herramienta Indispensable para las Investigaciones del Estrés Oxidativo. [Clinical Biomarkers of Oxidative stress, an essential tool for clinical investigation] *Revista Cubana de Farmacia* ISSN 0034-7515 Vol. **37** (Suplemento Electrónico) 7pp.
 - 32) Gema P. Davison, Ricardo Restrepo, Marlon Serrano, Gregorio Martínez, Francisco Coll (2003). Ecotoxicología del Biobrás-16 [Ecotoxicology of the Brassinosteroid Biobras 16]. *Revista Cubana de Farmacia* ISSN 0034-7515 Vol. **37** 2003 (Suplemento Electrónico) 6pp.
 - 33) Gregorio Martínez Sánchez, María A. Rodríguez H., Attilia Giuliani, Alberto J. Núñez Sellés, Niurka Pons Rodríguez, Olga Sonia León Fernández, L. Re (2003). Protective effect of *Mangifera indica* L. extract (Vimang®) on the injury associated with hepatic ischaemia reperfusion *Phytotherapy Research* **17**,(3): 197-201
 - 34) Lizette Gil, Gregorio Martínez, Ivón González, Alicia Tarinas, Alejandro Álvarez, A. Giuliani, Randelis Molina, Rolando Tápanes, Jorge Pérez and Olga Sonia León (2003). Contribution to characterization of oxidative stress in HIV/AIDS patients, *Pharmacological Research* **47**(3):217-224
 - 35) Lamberto Re, Cinzia Corneli, Emanuele Sturani, Giancarlo Paolucci, Francesca Rossini, Olga Sonia León, Gregorio Martínez, Marica Bordicchia and Quintilio Tomassetti (2003). Effects of Hypericum extract on the acetylcholine release: a loose patch clamp approach. *Pharmacological Research* **48**(1), July: 55-60.
 - 36) Eduardo Candelario-Jalil, Armando González, Michel García, Dalia Álvarez, Said Al-Dalain, Gregorio Martínez Sánchez, Olga Sonia León Fernández, Joe E Springer (2003). The relative contribution of COX-1 and COX-2 isoforms to ischemia-induced oxidative damage and neurodegeneration following global cerebral ischemia. *J of Neurochemistry* **86**:545-555.
 - 37) Davison GP; Restrepo R; Martínez G; Coll F.; Leon OS (2003): Effects of a brassinosteroid analogue to mosquito larvae. *Ecotoxicology and Environmental Safety*. **56** (3): 419-424.
 - 38) Janet Sánchez C., Odalys Blanco H., Gregorio Martínez S., Elizabeth de Armas S., Octavio Fernández L. y Roberto Faure G. (2003). Capacidad Secuestradora de Radicales Hidroxilo y de Hierro de la Sp-A en el Sistema Fenton. [Scavenger ability of the protein Sp-A in a Fenton System] *Revista Mexicana de Ciencias Farmacéuticas* **34** (3) Julio-Septiembre 2003.
 - 39) Pérez-Trueba G.; Ramos-Guanche C.; Martínez-Sánchez B.; Márquez-Hernández I.; Giuliani A.; Martínez-Sánchez G. Protective effect of Gossypitrin on carbon tetrachloride-induced in vivo hepatotoxicity. *Redox Report*, 1 August 2003, vol. 8, no. 4, pp. 215-221(7).
 - 40) Ivis C Mendoza H, Tatiana Yoldi, Gregorio Martínez S. (2003) Actividad Antioxidante del Clorhidrato de Triacetona in vitro. [In vivo Antioxidant effect of triacetone chloride] *Rev Cubana Invest Biomed* **22**(2):81-9
 - 41) H. H. Ajamieh, S. Menéndez, G. Martínez-Sánchez, E. Candelario-Jalil, L. Re, A. Giuliani and Olga Sonia León Fernández. (2004). Effects of ozone oxidative preconditioning on nitric oxide generation and cellular redox balance in a rat model of hepatic ischaemia-reperfusion. *Liver International* **24**: 55-62.
 - 42) Saed Mohamed Al-Dallen, Taimy Chávez Rodríguez, Gregorio Martínez Sánchez, Edilene Ferreira Bega & Olga Sonia León Fernández (2004). Equilibrio Redox en la Diabetes y sus Complicaciones [Redox Balance in Diabetic Complications]. *Acta Farmacéutica Bonaerense* **23**(2):231-42.
 - 43) R.H. Delaporte, MH Sarragiotto, OS Takemura, GM Sánchez, BPD Filho, C.V Nakamura (2004) Evaluation of the antioedematogenic, free radical scavenger and antimicrobial activities of aerial part of *Tillandsia streptocarpa* Baker- Bromeliaceae. *J. Ethnopharmacology* **95** (2-3):229-33.
 - 44) Gilberto Pérez Trueba, Attilia Giuliani and Gregorio Martínez Sánchez (2004). Oxygen Free Radical and Antioxidant Defense Mechanism in Cancer. *Frontiers in Bioscience* **9**: 2029-2044, September 1, 2004. Med Line: PMID: 15353268
 - 45) Lizette Gil, Gregorio Martínez, Rolando Tápanes, Osvaldo Castro, Daniel González, Lídice Bernardo, Susana Vázquez, Gustavo Kourí, María Guzmán. (2004). Oxidative Stress in Adult Dengue Patients. *American Journal of Tropical Medicine & Hygiene* **71**(5):652-657.
 - 46) Lidianis Luján, Lizette Gil, Gregorio Martínez, Attilia Giuliani, Ivón González, Alicia Tarinas, Alejandro Álvarez, Randelis Molina, Maite Robaina, Rolando Tápanes, Alberto Nuñez, Jorge Pérez "Effects of increase micronutrients intake on oxidative stress indicators in HIV/AIDS patients. (2005). *International Journal of Vitamin and Nutrition Research* **75**(1):19-27.
 - 47) Hussam H. Ajamieh, Jorge Berlanga, Nelson Merino, Gregorio M. Sánchez, Anna M. Carmona, Silvia M. Cepero, Attilia Giuliani, Lamberto Re and Olga S. León. (2005). Role of Protein Synthesis in the Protection

- Conferred by Ozone-Oxidative-Preconditioning in Hepatic Ischaemia/Reperfusion. *Transplant International* **18**: 604–612.
- 48) Gregorio Martínez-Sánchez, Igor Popov, Saied-Mohamed Al-Dalaen, Rosemeres Horwat-Delaporte, Attilia Giuliani, Olga Sonia León-Fernández. (2005). Contribution to characterization of oxidative stress in Diabetic patients". *Acta Farmacéutica Bonaerense* **24** (2): 197-203.
 - 49) G. Martínez, S. M. Al-Dalain, S. Menéndez, L. Re, A. Giuliani, E. Candelario-Jalil, H. Álvarez, J. I. Fernández-Montequín and O. S. León (2005). Therapeutic Efficacy of Ozone Medical Treatments In Patients with Diabetic Foot. *European Journal of Pharmacology* 523:151-161.
 - 50) Gregorio Martínez-Sánchez, Attilia Giuliani, Gema Pérez-Davison, Olga Sonia León-Fernández (2005). Oxidized proteins and their contribution to redox homeostasis *Redox Report*. 10(4):174-184.
 - 51) Gregorio Martínez, Said Mohammed Al-Dalain, Silvia Menéndez, Attilia Giuliani and Olga Sonia León. (2005). Ozone Treatment Reduces Blood Oxidative Stress and Pancreas Damage in a Streptozotocin-Induced Diabetes Model in Rats *Acta Farm. Bonaerense* **24** (4): 491-7.
 - 52) Gregorio Martínez Sánchez. Especies Reactivas del Oxígeno y Balance Redox, Parte I: Aspectos Básicos y Principales Especies Reactivas del Oxígeno. Revisión. [Reactive Oxygen Species and Redox Balance. Part. I Basic Aspect] *Rev Cubana Farm* v.39 n.3 sep-dic 2005
 - 53) Hetzel Lourido Pérez, Gregorio Martínez Sánchez, Joaquín Fernández Becerra Desbalance Redox en la Enfermedad Periodontal Inflamatoria [Redox Environment in Inflammatory Periodontal Disease]. *Antioxidantes y Calidad de Vida [Antioxidants and Life Stiles]* January-March 2006.
 - 54) Janet Sánchez, Gleiby Melchor, Gregorio Martínez, Arturo Escobar, Roberto Faure. Antioxidant activity of *Rhizophora mangle* bark. *Fitoterapia* **77** (2006):141-143.
 - 55) Gregorio Martínez Sánchez, Olga María Nieto Acosta y Mirta Castiñeiras Díaz. Instituto de Farmacia y Alimentos, 15 años en la formación de recursos humanos. *Rev Cubana Farm* v.40 n.3 Ciudad de La Habana sep.-dic. 2006.
 - 56) Arellys Reyes Expósito, Gema Pérez Davison, y Gregorio Martínez Sánchez. Errores en la medicación del adulto mayor en el área de salud del Policlínico Universitario, Plaza, Ciudad de La Habana. *Rev Cubana Farm* v.40 n.3 Ciudad de La Habana sep.-dic. 2006.
 - 57) Martínez-Sánchez, G and Giuliani A. Cellular Redox Status Regulate Hypoxia Inducible Factor-1 Activity. Role in Tumour Development." *Journal of Experimental & Clinical Cancer Research* Vol 26 No.1 2007:461-472.
 - 58) Martínez Sánchez, Gregorio. Debate acerca del estrés oxidativo y su incidencia en las enfermedades. *Rev Cubana Farm*. [online]. Mayo-ago. 2007, vol.41, no.2 [citado 25 Diciembre 2007], p.0-0. Disponible en la World Wide Web: <http://scielo.sld.cu/scielo.php?script=sci_arttext&pid=S0034-75152007000200001&lng=es&nrm=iso>. ISSN 0034-7515.
 - 59) Valdivia Acosta, Alain y Martínez Sánchez, Gregorio. La eritropoyetina un neuroprotector potencial: A potential neuroreceptor. *Rev Cubana Farm*. [online]. Mayo-ago. 2007, vol.41, no.2 [citado 25 Diciembre 2007], p.0-0. Disponible en la World Wide Web: <http://scielo.sld.cu/scielo.php?script=sci_arttext&pid=S0034-75152007000200011&lng=es&nrm=iso>. ISSN 0034-7515.
 - 60) L. Re, MN Mawsouf, S Menéndez, OS León, G M Sánchez, F Hernández. Ozone Therapy: Clinical and Basic Evidence of its Therapeutic Potential. *Archives of Medical Research* 2008 39:17-26.
 - 61) María T Milanes-Virelles, Idrian Garcia-Garcia, Yamilet Santos-Herrera, Magalys Valdes-Quintana, Carmen M Valenzuela-Silva, Gaspar Jimenez-Madrigal, Thelvia I Ramos-Gomez, Iraldo Bello-Rivero, Norma Fernandez-Olivera, Reinaldo B Sanchez-de la Osa, Carmen Rodriguez-Acosta, Lidia Gonzalez-Mendez, Gregorio Martinez-Sanchez, Pedro A Lopez-Saura and Macgam Study Group. Adjuvant interferon gamma in patients with pulmonary atypical Mycobacteriosis: a randomized, double-blind, placebo-controlled study. *BMC Infectious Diseases*, 8:17(11 Feb 2008) <http://www.biomedcentral.com/1471-2334/8/17>
 - 62) Janeth Elizabeth Rojas-Urdaneta, Nubia Fernández Hernández, Gregorio Martínez Sánchez. Efectos antioxidantes de una mezcla de principios activos de origen natural con actividad potencial en el tratamiento del vitiligo. [Antioxidant effect of a natural origin mixture with potential use in vitiligo]. Revista de la Sociedad Iberoamericana de Información Científica 2008 <http://www.siiusalud.com/> (ISSN 1667-9008).
 - 63) Harsharan S. Bhatia, Eduardo Candelario-Jalil, Antonio C. Pinheiro de Oliveira, Gregorio Martínez-Sánchez, Bernd L. Fiebich. Mangiferin inhibits cyclooxygenase-2 expression and prostaglandin E₂ production in activated rat microglial cells. *Archives of Biochemistry and Biophysics* 2008, 477:253-258.
 - 64) Lamberto Re, Gregorio Martínez-Sánchez, Giuseppe Malcangi, Alessandra Mercanti and Virginia Labate. Ozone Therapy: A Clinical Study on the Pain Management. *International Journal of Ozone Therapy* 7(1):37-44 (2008). [www.centauro.it/O2_O3_IN/indice2008/indice_7_aprile_2008.htm](http://www centauro.it/O2_O3_IN/indice2008/indice_7_aprile_2008.htm)
 - 65) Simone C. PUPO, Gema P. DAVISON, Gregorio MARTÍNEZ SÁNCHEZ, Orlando S. TAKEMURA& Rosemeres H. DELAPORTE. *Bouchea fluminensis* (Verbenaceae). Revisión Bibliográfica. *Lat. Am. J. Pharm.* **27** (2): 280-5 (2008). ISSN 0326-2383.

- 66) Simone C. PUPO; Gema PÉREZ DAVISON; Gregorio MARTINEZ-SÁNCHEZ, Orlando S. TAKEMURA; Aristeu V. SILVA; Gentil F. GONÇALVES & Rosemeres H. DELAPORTE. Avaliação da Atividade Antiinflamatória Crônica do Extrato Etanólico de *Bouchea fluminensis* (Verbenaceae). *Lat. Am. J. Pharm.* 27 (3): 364-8 (2008). ISSN 0326-2383.
- 67) VALDIVIA ACOSTA, Alain y MARTINEZ SANCHEZ, Gregorio. Fundamentos del uso clínico de la eritropoyetina como neuroprotector. *Rev Cubana Farm* [online]. 2008, vol. 42, no. 2 [citado 2008-09-27]. Disponible en: <http://scielo.sld.cu/scielo.php?script=sci_arttext&pid=S0034-75152008000200009&lng=es&nrm=iso>. ISSN 0034-7515.
- 68) Lamberto Re, Gregorio Martínez-Sánchez, Giuseppe Malcangi, Alessandra Mercanti and Virginia Labate. Ozone Therapy: A Clinical Study on the Pain Management. European Meeting of the Society for Free Radical Research, July 5-9, Berlin, Germany 2008. Ed. Tilman Grune Medimond, International Proceeding, Bologna, Italy, ISBN 978-88-7587-438-4, p67-74. Free Paper.
- 69) Gregorio Martínez-Sánchez, Lamberto Re. Clinical diagnostic of redox balance an up-date. European Meeting of the Society for Free Radical Research, July 5-9, Berlin, Germany 2008. Ed. Tilman Grune Medimond, International Proceeding, Bologna, Italy, ISBN 978-88-7587-438-4 p15-21. Invited Lecture.
- 70) Martínez-Sánchez G., Fernández-Delgado N. D., Pérez-Davison G., Sánchez-Baldoquín, C., Álvarez A. ESTABILIZACIÓN DE LOS INDICADORES HEMATOLÓGICOS EN PACIENTE CON POLICITEMIA ABSOLUTA MODERADA TRATADO CON VIMANG®. Reporte de Caso. *Revista Cubana de Farmacia*. Vol 43, No. 1 enero-marzo 2009 http://bvs.sld.cu/revistas/far/vol43_1_09/far10109.htm
- 71) Livan Delgado Roche, Gregorio Martínez-Sánchez. El Estrés Oxidativo en la Enfermedad Cardiovascular: evidencias para una tratamiento más integral. *Revista Cubana de Farmacia*. Vol 43, No. 1 enero-marzo 2009. http://bvs.sld.cu/revistas/far/vol43_1_09/far11109.htm
- 72) Maite Elisa Oviedo Gálvez, Nielsen Lagumersindez Denis, Gregorio Martínez Sánchez. Esclerosis múltiple. Aspectos generales y abordaje farmacológico. *Revista Cubana de Farmacia*. Vol 43, No. 2 abril-junio 2009.
- 73) Yahelín Ferrer Fernández, Gregorio Martínez Sánchez, Damian L. Wright, Nantembwa Thndiwe Chellah. El estrés oxidativo y su impacto en las cataratas. *Revista Cubana de Farmacia*. Vol 43, No. 3 julio-septiembre 2009.
- 74) Giselle Pentón-Rol, Majel Cervantes-Llanos, Gregorio Martínez-Sánchez, José A Cabrera-Gómez, Carmen M Valenzuela-Silva, Omar Ramírez-Nuñez, Mayté Casanova-Orta, María A Robinson-Agramonte, Ileana Lopategui-Cabezas and Pedro A López-Saura. TNF- α and IL-10 downregulation and marked oxidative stress in Neuromyelitis Optica. *Journal of Inflammation* 2009, 6:18doi:10.1186/1476-9255-6-18. IF: 1,15
- 75) T. Tanbouli, M.N. Mawsouf, L. Re, G. Martínez-Sánchez, G. Saaed, S.M. El Badry and A.B. Nashed. Effect of Ozone Therapy on Foetoplacental Blood Flow in Hypertensive Pregnant Women. *International Journal of Ozone Therapy* 8, 2009: 211-216.
- 76) Livan Delgado Roche, Nielsen Lagumersindez Denis, Gregorio Martínez Sanchez. Biochemical changes in mitochondria and its role in cell death during myocardial ischemia-reperfusion injury. *Pharmacologyonline* 2: 850-872 (2009).
- 77) Silvia Díaz-Llera, Yanela González-Hernández, Jorge E. González Mesa, Gregorio Martínez-Sánchez and Lamberto Re. Induction of DNA primary damage in peripheral blood leukocytes and exfoliated colorectal epithelial cells in rats treated with ozone. *International Journal of Ozone Therapy* 2009 8:217-221.
- 78) Gema Pérez Davison, Ricardo Restrepo Manrique & Gregorio Martínez Sánchez. Hormesis: Antecedentes e Implicaciones en los Sistemas Biológicos.[Hormesis: back ground and impact in biologic systems] *Lat. Am. J. Pharm.* 28 (6): 954-60 (2009).
- 79) Nubia Fernández Hernández; Gregorio Martínez-Sánchez; Manuel Enrique Cedeño Palenzuela. Función del peróxido de hidrógeno en el vitiligo [Function of hydrogen peroxide in cases of vitiligo] *Rev Cub Farm* 44(3) 2010. http://bvs.sld.cu/revistas/far/vol_44_3_10/far14310.htm
- 80) Hetzel de la C. Lourido Pérez; Gregorio Martínez Sánchez. La *Bixa orellana* L. en el tratamiento de afecciones estomatológicas, un tema aún por estudiar. [The *Bixa orellana* L. in treatment of stomatology affections: a subject that hasn't studied yet]. *Revista Cubana de Farmacia* 2010; 44(2)221-234. <http://scielo.sld.cu>
- 81) Mawsouf Nabil., Maha.M. El-Sawalhi, G. Martínez-Sánchez, Hebatalla A. Darwish and Amira A. Shaheen, L. Re. Effect of Ozone Therapy On Redox Status In Experimentally Induced Arthritis. *International Journal of Ozone Therapy* 9(1), 2010: 7-13.
- 82) L. RE, G. MARTÍNEZ-SÁNCHEZ, G. PEREZ-DAVISON, M. SIRITO. Role of Ozone/Oxygen in Fibroblast Growth Factor Activation. Discovering the Facts. *International Journal of Ozone Therapy* 9: 55-58, 2010.
- 83) Lamberto Re, Gregorio M. Sánchez, Nabil Mawsouf. Clinical evidence of ozone interaction with pain mediators. *Saudi Med J* 2011; Vol. 32 (12) 1363:1367.
- 84) G. Martínez- Sánchez, L. Re, A. Giuliani, and G. Pérez-Davison. Ozone as U-Shaped Dose Responses Molecules (Hormetins). Volume 9, Number 1 / 2011 Pages: 32 – 49. <http://dose-response.metapress.com/app/home/contribution.asp?referrer=parent&backto=issue,3,9;searcharticlesresults,1,4>
- 85) C-Phycocyanin ameliorates experimental autoimmune encephalomyelitis and induces regulatory T cells. Giselle Pentón-Rol, Gregorio Martínez-Sánchez, Majel Cervantes-Llanos, Nielsen Lagumersindez-Denis, Emilio Felino Acosta-Medina, Viviana Falcón-Cama, Ruby Alonso-Ramírez, Carmen Valenzuela-Silva, Efraín Rodríguez-Jiménez, Alexey Llópiz-Arzuaga, Javier Marín-Prida, Pedro Antonio López-Saura, Gerardo Emilio Guillén-Nieto, Eduardo Pentón-Arias. *Int Immunopharmacol*. 2011 Jan;11(1):29-38. Epub 2010 Oct 23.

- 86) Effect of ozone therapy on redox status in experimentally induced arthritis Nabil Mawsouf, Maha M. El-Sawalhi, Gregorio Martínez-Sánchez, Hebatalla A. Darwish, Amira A. Shaheen, Lamberto Re. *Revista Española de Ozonoterapia* Vol 1, No 1 (2011): 32-43
- 87) Factores de crecimiento derivados de plaquetas y sus aplicaciones en medicina regenerativa. Potencialidades del uso del ozono como activador. Adriana Schwartz, Gregorio Martínez-Sánchez, Lamberto Re. *Revista Española de Ozonoterapia* Vol 1, No 1 (2011): 54-73.
- 88) Giselle Penton-Rol; Javier Marín-Prida; Gilberto Pardo-Andreu; Gregorio Martínez-Sánchez; Emilio Felino Acosta-Medina; Alain Valdivia-Acosta; Nielsen Lagumersindez-Denis; Efraín Rodríguez-Jiménez; Alexey Llópez-Arzuaga; Pedro Antonio López-Saura; Gerardo Emilio Guillén-Nieto; Eduardo Pentón-Arias. C-Phycocyanin is neuroprotective against global cerebral ischemia/reperfusion injury in gerbils. *Brain Research Bulletin* (2011 in press).

Abstracts:

1. Toxicidad aguda dérmica del aceite Ozonizado "Oleozón" en ratas y conejos. Rol de los radicales libres. [Dermal Acute Toxicity of Ozonized Oil "Oleozon" in Rats and Rabbits] *Revista CNIC Ciencias Biológicas* No. Especial Vol. 26 1995 ISSN 0258-6002.
2. Papel alentador del Ligmed-A como antioxidante. Su eficacia en el stress oxidativo, experiencia en un modelo experimental de psoriasis. [Antioxidant and Anti-prosaic effect of Ligmed-A] *Revista CNIC Ciencias Biológicas* No. Especial Vol. 26 1995 ISSN 0258-6002.
3. Estudios de Toxicidad y Stress oxidativo en la aplicación de la Ozonoterapia. [Toxicity and Oxidative Stress Assays in Ozonotherapy] *Revista CNIC Ciencias Biológicas* No. Especial Vol.26 1995 ISSN 0258-6002.
4. Protective effects of *Mangifera indica* L. Extract mangiferin and antioxidants agents against TPA-induced biomolecules oxidation and peritoneal macrophage activation in mice. *British Journal of Clinical Pharmacology*, 2000, ISBN 0-632-05858-7.
5. L Gil, G. Martínez, I. González, A. Tarinas, L Pérez, A Álvarez, R. Tápanes, J. Pérez. Estrés oxidativo como cofactor de enfermedades relacionadas con retrovirus: VLTH-I y VIH. [Oxidative Stress as Cofactor of Infection Involved retrovirus VLTH-I and VIH] *Revista Cubana de Química* Vol. XIII No. 2, 2001, ISSN-058-5995. p47.
6. Y Valdés, G. Martínez, H Sotomayor, M Bilbao, M Hernández. Biochemistry in the Formation of Pharmacists. *Revista Cubana de Química* Vol. XIII No. 2, 2001, ISSN-058-5995. p99.
7. Gregorio MS, Rene D, Attilia G, Alberto NS, Lamberto R, Olga Sonia LF. Characterization of the Antioxidant Activity of *Mangifera indica* L Extract. *Revista Cubana de Farmacia* Vol. 35 Suplemento Especial Junio 2001 ISSN 0034-7515. p119
8. Rosemeres HD, Migdalia MM, Joao-Carlos PM, Gregorio MS, Maria Inés SM. Study of the Components Present in a Toluene Fractions Obtained from the Leaves of *Bouchea fluminensis* (Vell)Mold. *Revista Cubana de Farmacia* Vol. 35 Suplemento Especial Junio 2001 ISSN 0034-7515. p137
9. Maria Inés SM, Migdalia MM, Gregorio MS, Elina BC. Pharmacotoxicological Study of *Hibiscus tiliaceus* L. *Revista Cubana de Farmacia* Vol. 35 Suplemento Especial Junio 2001 ISSN 0034-7515. p142
10. Rosemeres HD, Migdalia MM, Joao-Carlos PM, Gregorio MS. Macro and Micromorphological Study of the leaves of *Bouchea fluminensis* (Vell)Mold. *Revista Cubana de Farmacia* Vol. 35 Suplemento Especial Junio 2001 ISSN 0034-7515. p140
11. Janet Sánchez Calero, Odalis Balco Hidalgo, Elizabeth de Armas Sanabria, Gregorio Martínez Sánchez, Roberto Faure García, Octavio Fernández Limia. (2002) Efecto protector de la SP-A porcina sobre el Surfacten expuesto a ácido hipocloroso. [Protective Effect of Porcine SP-A in an Hypochlorous Acid System] *Revista Cubana de Farmacia* 36 (Sup.2):58-60. ISSN0034-7515.
12. Jorge Pérez Ávila, Mariela Guevara García, Lisset Gil del Valle, Alejandro Álvarez, Teresa Serrano, Lidians Lewis Lujan, Yamilka Hernández, Gregorio Martínez, Rolando Tápanes, Juan Rivero Wong, Alicia Tarinas, Isis Cancio, Lucia Díaz, Alberto Núñez *et al.* (2002) Efecto de la suplementación con Vimang sobre indicadores del estrés oxidativo y de progresión de la enfermedad en pacientes VIH/SIDA. [Effect of Vimang Supplementation in Oxidative Stress Markers in the Progression of the HIV Infection] *Revista Cubana de Farmacia* 36 (Sup.2): 168-170. ISSN0034-7515.
13. H. H. Ajamieh, S Menéndez, N. Merino, G. Martínez-Sánchez, O-S-León. (2003). Ischemic and ozone oxidative preconditioning in the protection against hepatic ischemic-reperfusion injury. *Ozone Science & Engineering* 25(3):241.
14. Gregorio Martínez-Sánchez, Eduardo Candelario Jalil and Olga Sonia León (2003) Role of Reactive Oxygen Species in Brain Ageing. *Restorative Neurology and Neuroscience* 21(5,6):265
15. Roberto Reyes Lorente, Marian Hernández Colina, Ivón González Blanco, Gregorio Martínez Sánchez, Olga Sonia León Fernández. Desarrollo de Fitofármacos (Migraprecol / Migramenstrual) para la Prevención de la Migraña [Develop of Natural Drugs for Migraine Prevention]. Proceeding *VI Encuentro Iberoamericano sobre las Ciencias Farmacéuticas y Alimentarias. 21-23 de Junio 2004, Palacio de las Convenciones de La Habana*. Ed. Sofcal ISBN-7164-66-3 p 212.
16. Gema P. Davison, Ricardo Restrepo, Gregorio Martínez Sánchez, Francisco Coll y Olga Sonia León. Efectos de un Análogo de Brasinosteroides en Larvas de Mosquitos *A. Aegypti*. [Effect of a brasinosteroid analogue in *A. Aegypti* larvae] Proceeding *VI Encuentro Iberoamericano sobre las Ciencias Farmacéuticas y Alimentarias. 21-23 de Junio 2004, Palacio de las Convenciones de La Habana*. Ed. Sofcal ISBN-7164-66-3 p 239.
17. Yaitse Cruz Landeiro, Juliette Escoto López, Gregorio Martínez Sánchez. Efecto Protector de un Extracto de *Mangifera indica* L., Mangiferina y Antioxidantes Reconocidos Frente al Daño Oxidativo Inducido por TPA. [Protective effect of

- Mangifera indica* extract in a model of TPA (forbol ester)]. Proceeding VI *Encuentro Iberoamericano sobre las Ciencias Farmacéuticas y Alimentarias. 21-23 de Junio 2004, Palacio de las Convenciones de La Habana*. Ed. Sofcal ISBN-7164-66-3 p 343.
18. Gregorio Martínez Sánchez, Rosemeres Horwat Delaporte, Attilia Giulianic, Olga Sonia León Fernández. Estrategias para Establecer el Diagnóstico del Estado Redox. [Some consideration about Oxidative Stress Diagnostic]. Proceeding VI *Encuentro Iberoamericano sobre las Ciencias Farmacéuticas y Alimentarias. 21-23 de Junio 2004, Palacio de las Convenciones de La Habana*. Ed. Sofcal ISBN-7164-66-3 p 195.
 19. Olga Sonia León Fernández, C. Peralta, J Roselló-Catafau, Anna M Carmona, Hussan H Ajamieh, Gregorio Martínez, Silvia Menéndez, A Giuliani (2005). Ozone Oxidative Preconditioning: A Protective Mechanism Against Hepatic Ischemia/Reperfusion Injury. 17th World Congress of Ozone & Related Oxidants. Strasbourg, France, August 22-25. Congress Proceeding pag. III.3.1/1-8.
 20. Olga Sonia León Fernández, Hussan H Ajamieh, G Martínez, Anna M Carmona, S Menéndez, L Re, A Giuliani. (2005). Effects of Ozone Oxidative Preconditioning on Nitric Oxide Generation and Cellular Redox Balance in A Rat Model of Hepatic Ischemia/Reperfusion. 17th World Congress of Ozone & Related Oxidants. Strasbourg, France, August 22-25. Congress Proceeding pag.III.3.17-1/8.
 21. Olga Sonia León Fernández, HH Ajamieh, J Berlanga, N Merino, G Martínez, Anna M Carmona, S Menéndez, A Giuliani, L Re. (2005). Role of Protein Synthesis in the Protection Conferred by Ozone Oxidative Preconditioning In Hepatic Ischemia/Reperfusion. 17th World Congress of Ozone & Related Oxidants. Strasbourg, France, August 22-25. Congress Proceeding pag.III.3.18/1-10.
 22. Olga Sonia León Fernández, HH Ajamieh, Gregorio Martínez, Anna M Carmona, S Menéndez, A Giuliani, L Re (2005). Similar Protective Effect of Ischemic and Ozone Oxidative Preconditionings in Liver Ischemia/Reperfusion Injury 17th World Congress of Ozone & Related Oxidants. Strasbourg, France, August 22-25. Congress Proceeding pag.III.19/1-10.
 23. Olga Sonia León Fernández, G. Martínez, SM Al-Dalain, Anna M Carmona, S Menéndez, L Re, A Giuliani. (2005). Ozone Treatment Reduces Markers of Oxidative and Endothelial Damage in an Experimental Diabetes Model in Rats. 17th World Congress of Ozone & Related Oxidants. Strasbourg, France, August 22-25. Congress Proceeding pag.III.1.3/1-8
 24. Silvia Menéndez, Olga Sonia León, Said M, Aldalain, Gregorio Martínez, Héctor Álvarez & José I Fernández-Montequín. Ozone Medical Application in patients with diabetic foot. 17th World Congress of Ozone & Related Oxidants. Strasbourg, France, August 22-25. Congress Proceeding pag.IV.2./1-12.
 25. Gregorio Martínez Sánchez, ND Fernández Delgado, GP Davison, C. Sánchez Baldoquín, A Álvarez. Estabilización de los indicadores hematológicos en paciente con policitemia absoluta moderada tratado con Vimang. [Stabilization of hematological indices in a patient with policitemia treated with Vimang]. MEDISAN SIN 1029-3019 Vol. 9, No.4, 2005.
 26. L. Re, MN Mawsouf, S Menéndez, OS León, G M Sánchez, F Hernández. Clinical and Basic Evidence of Ozone Therapeutic Potential. *International Journal of Ozone Therapy* 6:117-120, 2007.
 27. Gregorio Martínez-Sánchez, Lamberto Re. Clinical diagnostic of redox balance an up-date. *Free Radical Research*, July 2008; 42(S1): S2-2.
 28. Lamberto Re, G Malcangi, A Mercanti, V Labate, Gregorio Martínez-Sánchez. Ozone therapy: a clinical study on the pain management. *Free Radical Research*, July 2008; 42(S1): P5-22.
 29. Pérez MR, Rodríguez CC, Martínez G, Horta D. Anti-inflammatory effects of *Musa paradisiaca* I extract (Acitan®). Revista Cubana de Farmacia. Volumen 42 (Suplemento Especial No.1), Abril 19-22 Año 2008. p104. Proceedings of I International Congress of Immunopharmacology. ISSN 0034-7515. Index: Cubacencias, Periódica, Ulrich's, LILACS, Scielo.
 30. García-García I, Milanés-Mirelles MT, Santos-Herrera Y, Valdés-Quintana M, Valenzuela-Silva C, Jiménez-Madrigal G, Ramos-Gómez T, Bello-Rivero I, Fernández-Olivera N, Suárez-Méndez R, Carbonell-Freire D, González-Méndez L, Martínez-Sánchez G., López-Saura P, The MACGAM Study Group. Adjuvant interferon gamma in patients with pulmonary atypical micobacteriosis: a randomized controlled study. Revista Cubana de Farmacia. Volumen 42 (Suplemento Especial No.1), Abril 19-22 Año 2008. p86. Proceedings of I International Congress of Immunopharmacology. ISSN 0034-7515. Index: Cubacencias, Periódica, Ulrich's, LILACS, Scielo.
 31. Cervantes-Llanos M, Pentón-Rol G, Cabrera-Gómez JA, Martínez-Sánchez G, Valenzuela-Silva C, Ramírez-Núñez O, Casanova-Orta M, Lopategui-Cabezas I, López-Saura PA. T cell immunoregulation and oxidative stress in neuromyelitis optica. Revista Cubana de Farmacia. Volumen 42 (Suplemento Especial No.1), Abril 19-22 Año 2008. p55. Proceedings of I International Congress of Immunopharmacology. ISSN 0034-7515. Index: Cubacencias, Periódica, Ulrich's, LILACS, Scielo.
 32. Martínez-Sánchez G, Pentón-Rol G, Valdivia-Acosta A, Oviedo-Gálvez M, Ramírez-Núñez O, Lagumersindez-Denis N, Cervantes-Llanos M, Falcón-Cama V, Acosta E, Rodríguez-Jiménez E, De Armas E, López-Saura P, Pentón-Arias E. Phycocyanin exerts an anti-inflammatory effect on the CNS in a model of experimental autoimmune encephalomyelitis. Revista Cubana de Farmacia. Volumen 42 (Suplemento Especial No.1), Abril 19-22 Año 2008. p121. Proceedings of I International Congress of Immunopharmacology. ISSN 0034-7515. Index: Cubacencias, Periódica, Ulrich's, LILACS, Scielo.
 33. Pentón-Rol G, Cervantes-Llanos M, Martínez-Sánchez G, Alonso-Ramírez R, Cabrera Gómez JA, Valdivia-Acosta A, Oviedo-Gálvez M, Ramírez-Núñez O, Lagumersindez-Denis N, Falcón-Cama V, Acosta E, Rodríguez-Jiménez E, Valenzuela-Silva C, De Armas E, López-Saura P, Pentón-Arias E. T-cell immunoregulation in multiple sclerosis. Effect of phycocyanin and its combination with alpha interferon. Revista Cubana de Farmacia. Volumen 42 (Suplemento Especial No.1), Abril 19-22 Año 2008. p26. Proceedings of I International Congress of Immunopharmacology.. ISSN 0034-7515. Index: Cubacencias, Periódica, Ulrich's, LILACS, Scielo.

34. Sánchez J, Melchor G, Martínez G, Faure R, Fernández O, Mitjavila MT, Marrero E. Propiedades antioxidantes del extracto acuoso de *Rhizophora mangle* (L) y su relación con el proceso de cicatrización de heridas. Revista Cubana de Farmacia. Volumen 41 (Suplemento especial No.2), Año 2007, p203. Proceedings of III International Congress of Pharmacology and Therapeutics. ISSN 0034-7515. Index: Cubacencias, Periódica, Ulrich's, LILACS, Scielo.
35. Ramírez-Núñez O, Velázquez-Pérez L, Sánchez-Cruz G y Martínez-Sánchez G. Contribución para la caracterización del estrés oxidativo en pacientes con ataxia espinocerebelosa tipo II. Revista Cubana de Farmacia. Volumen 41 (Suplemento especial No.2), Año 2007, p202. Proceedings of III International Congress of Pharmacology and Therapeutics. ISSN 0034-7515. Index: Cubacencias, Periódica, Ulrich's, LILACS, Scielo.
36. Gregorio Martínez Sánchez. Nuevos Avances en el diagnóstico clínico del balance redox / *New advances in the clinical diagnostic of redox balance*. Revista Cubana de Farmacia. Volumen 41 (Suplemento especial No.2), Año 2007, p70. Proceedings of III International Congress of Pharmacology and Therapeutics. ISSN 0034-7515. Index: Cubacencias, Periódica, Ulrich's, LILACS, Scielo.
37. Oviedo Gálvez ME, Lagumersindez Denis N, Valdivia Acosta A, Martínez Sánchez G. Caracterización de un modelo de encefalomiелitis autoinmune experimental para el estudio de la esclerosis múltiple. Revista Cubana de Farmacia. Volumen 41 (Suplemento especial No.2), Año 2007, p213. Proceedings of III International Congress of Pharmacology and Therapeutics. ISSN 0034-7515. Index: Cubacencias, Periódica, Ulrich's, LILACS, Scielo.
38. Janeth E. Rojas Urdaneta, Nubia Fernández Hernández, Gregorio Martínez Sánchez. Vitilvenz® Natural Alternative Therapy in Vitiligo. *Rev Cubana Farm* 2009 (43) Supp. 1:75. International Proceeding Havana Redox 2009. ISSN 0034-7515. URL: http://bvs.sld.cu/revistas/far/vol43_esp_09/far109sup.pdf
39. Nubia Fernández Hernández, Janeth E. Rojas Urdaneta, Gregorio Martínez Sánchez. Role of hydrogen peroxide in vitiligo. *Rev Cubana Farm* 2009 (43) Supp. 1:112. International Proceeding Havana Redox 2009. ISSN 0034-7515. URL: http://bvs.sld.cu/revistas/far/vol43_esp_09/far109sup.pdf
40. L. Re, G. Malcangi, A. Mercanti, L. Di Serafino, O.S. Leon Fernandez, G. Martínez-Sánchez. Ozone Therapy in the Management of Sport Pain. Role of Mitochondria. *International Journal of Ozone Therapy* 2009 8(1): 28-33.
41. M. Sirito, L. Re, G. Martínez-Sánchez. Role of Ozone/oxygen in Fibroblast Growth Factor Activation. Potential Use in Clinic and Aesthetic Practice. Discovering the Facts. *International Journal of Ozone Therapy* 2009 8(1): 46-48.
42. G Martínez-Sánchez, G Pérez Davison, G Malcangi, A Mercanti, L Re. Ozone as U-shaped dose responses molecules (Hormetin). *Free Radical Research* 43 Supplement 1, 2009, S45.
43. G Martínez-Sánchez. Antioxidant and Ageing. *Biophilia Rehabilitation Journal* 2009: 17 ISBN 1347-5568.
44. 1st International symposium on screening functional components of agricultural residues and the study on mangiferin. October 23-25, 2009, Baise, Guangxi, China. Sánchez, G. M.; Re, L.; Giuliani, A.; Núñez-Sellés, A. J.; Pérez-Davison, G.; León, O. S. Protective effect of *Mangifera indica* L. Extract, mangiferin and selected antioxidants against TPA-induced biomolecules oxidation and peritoneal macrophage activation in mice. P 123
45. 1st International symposium on screening functional components of agricultural residues and the study on mangiferin. October 23-25, 2009, Baise, Guangxi, China. Harsharan S. Bhatia, Eduardo Candelario-Jalil, Antonio C. Pinheiro de Oliveira, Gregorio Martínez-Sánchez, Bernd L. Fiebich. Mangiferin inhibits cyclooxygenase-2 expression and prostaglandin E₂ production in activated rat microglial cells. P 100.
46. 1st International symposium on screening functional components of agricultural residues and the study on mangiferin. October 23-25, 2009, Baise, Guangxi, China. Sánchez, G. M.; Giuliani, A.; León, O. S.; Pérez-Davison, G. D.; Núñez-Sellés, A. J. Effect of *Mangifera indica* L. Extract (Vimang) on protein and hepatic microsomes peroxidation. P70
47. L. Re; G Martínez-Sánchez; G Malcangi; A Mercanti; V Labate. Ozone Therapy: a clinical study on Pain Management. Proceeding of 19th Ozone World Congress of the IOA. Tokyo, Aug 31-Sep 3, 2009: 203-210.

Books

O.S. León Fernández, S. Menéndez, E. Candelario-Jalil, G. Martínez Sánchez, N. Merino, M. Al-Dalain, H. Ajamieh. (2002). Oxidative Konditionierung durch Ozon. Pharmakodynamische Aspekte des Medizinischen Ozons. Capítulo del libro **Ozone Handbook Grundlagen, Pravention Therapie**. Eds. Viebahn R and Knoch H.G. (Germany: Ecomed-Verlag 1995-2002). Website: <http://www.ozonosan.de>

Gregorio Martínez Sánchez. **Sol y Salud** [Sun light and Health] 2005. National Center of Authors Right, Cuba, Copyright No.1999-2004. ISBN 978-959-05-05096

Gregorio Martínez Sánchez and Rosemeres Horwat Delaporte (2008). **Sol e Saúde: Fotoproteção**. [Sun light and Health: Photoprotection] Edit. Pharmabooks, São Paulo, 2008 1a. edição, pp: 77. ISBN-10: 858973121-9; ISBN-13: 978-858973121-8.

Gabino Garrido-Garrido, Gregorio Martínez-Sánchez, Gilberto Pardo-Andreu, Dagmar García-Rivera, Patricia Hernández-Casaña, Idania Rodeiro-Guerra, Mariela Guevara-García, René Delgado-Hernández and Alberto J. Núñez-Sellés. **Recent advances in the research & development of an aqueous stem bark extract obtained from *Mangifera indica* L.** In. Recent Developments in Medicinal Plant Research, 2007: 169-192 ISBN: 978-81-308-0160-5. Editor: Anna Capasso.

Alberto Núñez Sellés, Gabino Garrido Garrido, René Delgado Hernández, Gregorio Martínez Sánchez, Gilbero Pardo Andreu, Dagmar García Rivera, Patricia Hernández Casaña, Idania Rodeiro Guerra, Mariela Guevara García, Alina Alvarez Leon, Beatriz Garrido Suarez, Raymundo Miranda Leyva. **El Reto de La Terapia Antioxidante** [The challenger of the antioxidant therapy]. (2008) Editorial Científico Técnica, La Habana, Cuba ISBN 978-959-05-0525-6.

Gregorio Martínez Sánchez (2008). **En Movimiento** [In movement]. Editorial Científico Técnica, La Habana, Cuba, ISBN 978-959-05-0538-6.

Lamberto Re, Gregorio Martínez Sánchez. **Terapie emergenti: ozono** [Emergent Therapies: Ozone]. Cosa il paziente deve sapere e come il medico deve agire. Ed. Aracne, Roma, Italia 2010. ISBN 978-88-548-3445-3.

Lamberto Re, Gregorio Martínez Sánchez. Terapias emergentes: ozono. ¿Qué debe saber el paciente y cómo el médico debe actuar?. Ed. Aracne, Roma, Italia 2010. ISBN: 978-88-548-3706-5. http://store.aracneeditrice.com/it/libro_new.php?id=5272

Gregorio Martínez Sánchez. Sole e Salute. Ed. Aracne, Roma, Italia 2010. ISBN: 978-88-548-3892-5. http://store.aracneeditrice.com/it/libro_new.php?id=5474

Gregorio Martínez Sánchez. (2011). In forma. Esercizio fisico per tutti. ISBN: 978-88-548-4024-9. http://store.aracneeditrice.com/it/libro_new.php?id=5841

Books under copyright protection:

Gregorio Martínez Sánchez *et al.* Balance Antioxidantes Pro-oxidantes, Salud y Enfermedad [Antioxidant pro-oxidant balance, health and diseases] 2004. National Center of Authors Right, Cuba, Copyright No. 562-2004. ISBN pending.

Multimedia

Gregorio Martínez Sánchez. Base de Datos Interactiva para la Investigación Redox [Interactive Data Base for Redox Research] (National Center of Authors Right, Cuba, Copyright No. 0397-2006).

Post-Graduate Courses

- 1.) Vegetable Extracts, Union of Companies of the Pharmaceutical Industry. Havana City, 19-11-90 at 30-11-90, 15 days at full time. Evaluation: Approved.
- 2.) Enzimology, Center of Genetic Engineering and Biotechnology. Havana City 6-4-91 at 10-6-91, 58h. Evaluation: Excellent.
- 3.) Practical Aspects of Quality Guarantee. Ministry of Public Health, Vice-ministry of Science and Technique, OPS. C. Havana 17-11-92. at 20-11-92, 32 h. Evaluation: Excellent.
- 4.) Mediators Sepsis. University of Havana. C. Havana 25-11-92 at 3-12-92, 56h. Evaluation: Approved.
- 5.) Cellular Immunology. Center of Genetic Engineering and Biotechnology. January-February 1993, 24h. Evaluation: Excellent.
- 6.) Toxicology: Pharmacological Mechanism of the Toxic and Treatment to the Intoxicated. IFAL-UH. 2 months. 23/6/93. Satisfactory evaluation.
- 7.) Preclinical Toxicology. IFAL. 10/1/94 at the 20/1/94. Prof. Donald J. Ecobichon. Univ. Mc.Gill, Canada. 30 h. Evaluation: Excellent.

- 8.) Mechanisms of Signaling Transduction. IFAL 7/4/94 to the 7/5/94 Porf. Dra. Olga S. León F., 30 hours classes, Evaluation: Approved.
- 9.) Writing Scientific Articles. CNIC. 8/10/94 at the 23/1/95. 40 hours, Evaluation 5 pts (excellent).
- 10.) Biostatistics and Experimental Design. IFAL-UH 25/11/94 at the 15/3/95, 60 h, Evaluation 5 points.
- 11.) Molecular Biology. IFAL-UH 21/5/95 to the 19/7/95 40 h., Evaluation 5 points (excellent).
- 12.) Philosophy. CNIC of the 27/995 at the 19/1/96, 96 hours. Excellent evaluation. 5 points (excellent).
- 13.) Molecular Pharmacology Nov. 1995 - January 1996. Course for Master in Experimental Pharmacology. Evaluation: Excellent.
- 14.) Physiopatology Nov. 1995 - January 1996. Course for Master in experimental Pharmacology. Evaluation: Excellent
- 15.) Immunopharmacology. 23/2-19/4 1996. Course for Master in experimental Pharmacology. Evaluation: 5 points (excellent).
- 16.) Pharmacokinetic: 23/2-19/4 1996. Course for Master in Experimental Pharmacology. Evaluation: 5 points (excellent).
- 17.) Clinical Pharmacology. 23/2-19/4 1996. Course for Master in experimental Pharmacology. Evaluation: 5 points (excellent).
- 18.) Statistic. 1/3/96 at the 1/6/96. 54 hours. Excellent qualification.
- 19.) Study on Oxidative Stress. 1/5/97 at the 15/5/97. I Center of Pharmaceutical Chemistry. 20 hours.
- 20.) Drugs Bio-analysis . Sep. 1997 - Dec. 1997. Course for Master in Experimental Pharmacology. Evaluation: 5 (excellent).
- 21.) Clinical Pharmacokinetic Sep. 1997 - Dec. 1997 Course for Master in Experimental Pharmacology. Evaluation: Excellent. .
- 22.) Pharmacological Bases of the Bioability Sep. 1997 - Dec. 1997. Course for Master in Experimental Pharmacology. Evaluation: Excellent
- 23.) Advanced Immuno-Pharmacology. May-June 1998. IFAL-Univ. Havana, 30 hours, Evaluation: Excellent.
- 24.) Update in Physiopatology. October-December 1998. IFAL-Univ. Havana, 40 hours, Evaluation: Excellent.
- 25.) Formation psycho-pedagogy for professors. Topic: The cultural Historical focus and their importance, The instrumentation of the process teaching-learning, The teaching means. Sep. Oct. 2001. IFAL-UH, CEPES-UH. 20 h, Excellent.
- 26.) Pedagogic Update: "Theory and pedagogic practice for the development of students and professors" Topics: Contemporary pedagogic tendencies, The personality and their development, Didactic of the High Education. January 9 2002 to 27 March 2002, IFAL-UH, ITM-MONTH-CUJAE, 40 h, Excellent.
- 27.) German language course: Moment Mal, Basic level I. Humboldt Faculty, Havana Univ. December 2003- March 2004.