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Dpt. Anthropology, NMNH, MRC 112
Smithsonian Institution
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EDUCATION

Ph.D.	Biological Sciences and Biochemistry International Program, cum laude <i>Winner of the PhD extraordinary Award</i> <i>Institute for Cancer Research of Principado de Asturias</i> <i>Oviedo University, Spain</i>	March 2012
Sp.	Advances in Forensic Odontology <i>Granada University, Spain</i>	October 2011
MSc.	Forensic Anthropology and Genetics <i>Granada University, Spain</i>	March 2011
MSc.	Biological Sciences and Biochemistry <i>Oviedo University, Spain</i>	June 2008
B.S.	Biochemistry <i>Oviedo University, Spain</i>	July 2006
MSc.	Education Degree Specialized Sciences <i>Educational Sciences Institute</i> <i>Oviedo University, Spain</i>	February 2004
B.S.	Biology Specialized Sanitary and Fundamental Biology <i>Oviedo University, Spain</i>	June 2003

HONORS AND AWARDS

Finalist Vidocq Award <i>Spanish Society of Criminology and Forensic Sciences</i>	November 2015
PhD extraordinary Award 2012 <i>Oviedo University</i>	January 2014
Student Scholarship Competition Award <i>American Academy of Forensic Sciences</i>	February 2013
Peter Buck Award Postdoctoral Fellowship <i>Smithsonian National Museum of Natural History</i>	June 2012-June 2014
Research Fellowship <i>Spanish National Institute of Health</i>	Jan 2008-Dec 2011
Research Fellowship <i>FICYT, Principado de Asturias Research Agency</i>	June 2007-Oct 2007
Research Fellowship <i>Spanish National Institute of Health</i>	Oct 2006-Nov 2006

WORK EXPERIENCE

Visiting Scientist Forensic Anthropology The Office of Chief Medical Examiner-City of New York (OCME-NYC)	January 2017
Associate Forensic Unit International Committee of the Red Cross, Geneva, Switzerland	May 2016-May 2017
Visiting Researcher Anthropology Department American Museum of Natural History, New York <i>Topic:</i> Feasibility of the use of third molar for age-at-death estimation and sex determination in North American and Latin American populations. <i>Funding:</i> AMNH	November 2015
Visiting Researcher Department of Forensic Medicine KU Leuven, Catholic University of Leuven, Belgium <i>Advisor:</i> Prof. Dr. Ronny Decorte <i>Topic:</i> Ancestry determination by mtDNA haplogroups and SNPs <i>Funding:</i> Private funds	Oct 2014-Dec 2014
Visiting Researcher Hirtzel Human Anatomy and Forensic Anthropology Laboratory Mercyhurst Archaeological Institute (MAI), Erie, Pennsylvania <i>Funding:</i> Mercyhurst University	June 2014-July 2014
Peter Buck Postdoctoral Fellow Anthropology Department Smithsonian National Museum of Natural History <i>Advisor:</i> Douglas H. Ubelaker, Ph.D. <i>Topic:</i> Age estimation by measurement of oxidative stress in teeth.	June 2012-June 2014
Researcher Morphology and Cellular Biology Department Oviedo University, Spain <i>Funding:</i> FICYT (Principado de Asturias Research Agency)	Jan 2012-May 2012
Research Fellow Institute for Cancer Research of Principado de Asturias Oviedo University, Spain <i>Advisor:</i> Isaac Antolín González, Ph.D. <i>Topic:</i> Cytotoxic effect of melatonin in haematological malignancies. <i>Funding:</i> Spanish National Institute of Health	Jan 2008-Dec 2011
Graduate Research Assistant James Ewing Laboratory of Developmental Hematopoiesis Memorial Sloan-Kettering Institute for Cancer Research, NY <i>Advisor:</i> Malcolm A.S. Moore, D. Phil. <i>Topic:</i> <i>In vitro</i> and <i>in vivo</i> studies on leukemia treatment. <i>Funding:</i> Spanish National Institute of Health	June 2010-Dec 2010
Researcher Morphology and Cellular Biology Department Oviedo University, Spain <i>Funding:</i> FICYT (Principado de Asturias Research Agency)	Nov 2007-Dec 2007

RESEARCH EXPERIENCE (continued)

Research Fellow

June 2007-Oct 2007

Morphology and Cellular Biology Department
Oviedo University, Spain

Advisor: Isaac Antolín González, Ph.D.

Topic: Synergistic effect between melatonin and chemotherapeutic drugs.

Funding: FICYT (Principado de Asturias Research Agency)

Research Fellow

Oct 2006-Nov 2006

Morphology and Cellular Biology Department
Oviedo University, Spain

Advisor: Isaac Antolín González, Ph.D.

Topic: Synergistic effect between melatonin and chemotherapeutic drugs.

Funding: Spanish National Institute of Health

Undergraduate Researcher

March 2006-June 2006

Biochemistry Department
Oviedo University, Spain

Advisor: Pedro Domínguez Luengo, Ph.D.

Topic: Gs α signaling pathways.

Intern

July 2003-Sept 2003

Biochemistry, Hematology and Microbiology Departments
Cabueñes Hospital, Gijón, Spain

Intern

Feb 2003-Jun 2003

Microbiology Department
Oviedo University, Spain

IMPLICATIONS IN FUNDING RESEARCH PROJECTS

Feasibility of the use of third molar for age-at-death estimation and sex determination in North American and Latin American populations.

November 2015

Organism: Collections Study Grant-American Museum of Natural History, NYC

Role: PI

Age estimation by measurement of oxidative stress in teeth from different populations. Comparison with classical methods.

June 2012-June 2014

Organism: Smithsonian Institution, Peter Buck Award

Role: Co-PI, Postdoctoral Fellow

Study of cell death induced by melatonin in human glioma stem cells

January 2011-May 2012

Organism: Carlos III National Health Institute, Spain

Role: Member of the group

Cooperative Investigation Cancer Network (RTICC)

January 2008-December 2010

Organism: Carlos III National Health Institute, Spain

Role: Member of the group

IMPLICATIONS IN FUNDING RESEARCH PROJECTS (continued)

Mechanism implicated in cytotoxicity of melatonin in specific types of tumoral cells: ES/PNET tumors and related lymphoid tumors

October 2007-October 2010

Organism: Spanish Science and Education State Department (MCYT)

Role: *Fellow*

Intracellular pathways implicated in melatonin-induced apoptosis in neuroectodermic tumors. *In vivo* and *in vitro* studies

January 2007-December 2009

Organism: Carlos III National Health Institute, Spain

Role: *Fellow*

Implication of the redox control systems in the mechanism of resistance to apoptosis on prostate cancer

November 2007-December 2007

Organism: Carlos III National Health Institute, Spain

Role: *Member of the group*

Oncostatic effects of melatonin in central nervous system tumors. *In vivo* and *in vitro* studies

October 2006-November 2006

Organism: Carlos III National Health Institute, Spain

Role: *Fellow*

PUBLICATIONS

Forthcoming Publications

Stone-Gordon R, Padalkar R, Ubelaker DH, **C. Zapico S**. "Comparison of classical anthropological formulas for age-at-death estimation in multiradicular teeth from Spanish populations". Under review.

De Alcaraz-Fossoul J, Barrot-Feixat C, **C. Zapico S**, Carreras-Marin C, Roberts K, Gené Manuel. "Ridge width correlations between inked prints and powdered latent fingerprints". Under review.

Adserias J, Maijanen H, **C. Zapico S**, Steadman. "Potential use of five cranial traits for sex assessment in forensic cases". Under Review.

Publications

Adserias-Garriga J, Nogué-Navarro L, **Zapico SC**, Ubelaker DH. "Setting the light conditions for measuring root transparency for age-at-death estimation methods". *Int J Legal Med*. 2017 March 30.

De Alcaraz-Fossoul J, Barrot-Feixat C, Carreras-Marin C, Tasker J, **C. Zapico S**, Gené Manuel. "Latent Fingermark aging patterns (Part III): Discontinuity index as one indicator of degradation". *J Forensic Sci*. 2017 Feb 1.

Adserias-Garriga J, Ubelaker DH. **C. Zapico S**. "Evaluation of macroscopic changes and the efficiency of DNA profiling from burnt teeth". *Sci Justice*. 2016 Dec;56(6):437-442.

C. Zapico S, Menéndez ST. "Human mitochondrial and nuclear DNA isolation from food bite marks". *Arch Oral Biol*. 2016 Jun 8; 70:67-72

C. Zapico S, Ubelaker DH. "Relationship between mtDNA mutations and aging. Estimation of age-at-death". *J Gerontol A Biol Sci Med Sci*. 2015 Aug 18. pii: glv115.

Bekaert B, Kalamandua A, **C. Zapico S**, Van der Voorde W, Decorte R. "A selective set of DNA-methylation markers for age determination from blood and teeth samples". *Epigenetics*. 2015 Aug 17:1-9.

Publications (continued)

C. Zapico S, Menéndez ST, Núñez P. "Cell death proteins as markers of early post-mortem interval". *Cell Mol Life Sci*. 2014 Aug;71(15):2957-62. Epub ahead of print. *Cell Mol Life Sci*. 2013 Dec 3.

Zapico SC, Ubelaker DH. "Sex determination from dentin and pulp in medicolegal context". *J Am Dent Assoc*. 2013 Dec;144(12):1379-85.

Zapico SC, Ubelaker DH. "mtDNA mutations and their role in aging, diseases and forensic sciences". *Aging Dis*. 2013 Oct 3;4(6):364-380. Invited Review.

Rodríguez C, Martín V, Herrera F, García-Santos G, Rodríguez-Blanco J, **Casado-Zapico S**, Sánchez-Sánchez AM, Suárez S, Puente-Moncada N, Anítua MJ, Antolín I. "Mechanisms involved in the pro-apoptotic effect of melatonin in cancer cells." *Int J Mol Sci*. 2013 Mar 25;14(4):6597-613.

C. Zapico S, Ubelaker DH. "Applications of physiological bases of ageing to forensic sciences. Estimation of age at death". *Ageing Res Rev*. 2013 Mar;12(2):605-17.

Rodríguez-Blanco J, Martín V, García-Santos G, Herrera F, **Casado-Zapico S**, Antolín I, Rodríguez C. "Cooperative action of JNK and Akt/mTOR in 1-methyl-4-phenylpyridinium-induced autophagy of neural PC12 cells". *J Neurosci Res*. 2012 Sep;90(9):1850-60.

García-Santos G, Martín V, Rodríguez-Blanco J, Herrera F, **Casado-Zapico S**, Sánchez-Sánchez AM, Antolín I, Rodríguez C. "Fas/Fas ligand regulation mediates cell death in human Ewing's sarcoma cells treated with melatonin". *Br J Cancer*. 2012 Mar 27;106(7):1288-96.

Sánchez-Sánchez AM, Martín V, García-Santos G, Rodríguez-Blanco J, **Casado-Zapico S**, Suárez-Garnacho S, Antolín I, Rodríguez C. "Intracellular redox state as determinant for melatonin antiproliferative vs cytotoxic effects in cancer cells". *Free Radic Res*. 2011 Nov;45(11-12):1333-41.

Casado-Zapico S, Martín V, García-Santos G, Rodríguez-Blanco J, Sánchez-Sánchez AM, Luño E, Suárez C, García-Pedrero JM, Tirados-Menéndez S, Antolín I, Rodríguez C. "Regulation of death receptors and their ligands expression by melatonin in both cell lines and patient leukemia cells". *J. Pineal Res*. 50(3):345-55, 2011.

Tirados-Menéndez S, Rodrigo JP, Allonca E, García-Carracedo D, Álvarez-Alija G, **Casado-Zapico S**, Fresno MF, Rodríguez C, Suárez C, García-Pedrero JM. "Expression and clinical significance of the Kv3.4 potassium channel subunit in the development and progression of head and neck squamous cell carcinomas" *J. Pathol*. 221(4):402-10, 2010.

Casado-Zapico S, Rodríguez-Blanco J, García-Santos G, Martín V, Sánchez-Sánchez AM, Antolín I, Rodríguez C. "Synergistic antitumor effect of melatonin with several chemotherapeutic drugs on human Ewing sarcoma cancer cells: potentiation of the extrinsic apoptotic pathway" *J. Pineal Res*. 48:72-80, 2010.

Martín V, García-Santos G, Rodríguez-Blanco J, **Casado-Zapico S**, Sánchez-Sánchez A, Antolín I, Medina A, Rodríguez C. "Melatonin sensitizes human malignant glioma cells against TRAIL-induced cell death" *Cancer Letters*. 287:216-23, 2010.

BOOK CONTRIBUTIONS

C. Zapico S, editor. "Mechanisms linking aging, diseases and biological age estimation". Book in preparation for CRC Press. **Author of seven chapters**: <https://www.crcpress.com/Mechanisms-Linking-Aging-Diseases-and-Biological-Age-Estimation/Zapico/p/book/9781498709699>

C. Zapico S, Adserias-Garriga J. "New approaches in Postmortem Interval (PMI) estimation". Chapter in the book "*Forensic Science: New Developments, Perspectives and Advanced Technologies*" by NOVA Science Publishers, Inc.

FORENSIC CASES COLLABORATIONS

Civil Guard

February 2016- Present

Role: External advisor in forensic cases

Mossos d'esquadra

July 2014-Present

Scientific Police of Cataluña-Dr. Joe Adserias Garriga

Institute of Legal Medicine of Cataluña

Dec 2013-Present

Section Girona

Role: Collaborator in forensic anthropology and odontology cases for age estimation.

PRESENTATIONS AND ABSTRACTS

American Academy of Forensic Sciences (AAFS) 69th Annual Meeting-Oral Communication

New Orleans, Louisiana, February 2017

"From oxidative stress to proteins: postmortem interval estimation based on biochemical parameters"

C. Zapico S, Nuñez P, Villaronga MA, Menéndez ST, Ubelaker DH, García-Pedrero J

American Academy of Forensic Sciences (AAFS) 69th Annual Meeting-Oral Communication

New Orleans, Louisiana, February 2017

"Morphometrics of the aging process of latent fingerprints"

De Alcaraz-Fossoul J, Barrot C, Mestres C, Balaciart Muntaner A, Gené M, Carreras Marin C, Tasker J, Roberts KA, **C. Zapico S**, McGarr L, Stow K.

American Academy of Forensic Sciences (AAFS) 69th Annual Meeting-Poster

New Orleans, Louisiana, February 2017

"The potential use of five cranial traits for sex assessment in Forensic Cases"

Adserias J, Maijanen H, **C. Zapico S**, Steadman DW

American Academy of Forensic Sciences (AAFS) 68th Annual Meeting-Oral Communication

Las Vegas, Nevada, February 2016

"DNA methylation markers as a novel tool for age-at-death estimation in teeth"

C. Zapico S, Bekaert B, Kamalandua A, Van de Voorde W, Decorte R

American Academy of Forensic Sciences (AAFS) 68th Annual Meeting-Poster

Las Vegas, Nevada, February 2016

"Forensic Podiatry and Human Identification-the state of this art in European Countries"

Martínez-Escauriaza P, **C. Zapico S**, Adserias J

American Academy of Forensic Sciences (AAFS) 68th Annual Meeting-Oral Communication

Las Vegas, Nevada, February 2016

"Teeth and Fire: Forensic analysis of teeth and dental material exposed to fire"

Adserias J, **C. Zapico S**, Cabo LL, Symes SA, Ubelaker DH, Dirkmaat DC

Forensic Anthropology Society in Europe Symposium-Oral Communication

Montpellier, France, September 2015

"Macroscopic changes and efficiency of human DNA profiling from burnt teeth"

Adserias Garriga J, Ubelaker DH, **C. Zapico S**

26th Congress of the International Society for Forensic Genetics-Oral Communication

Krakow, Poland, September 2015

"A selective set of DNA-methylation markers for age determination from blood and teeth samples"

Bekaert B, Kamalandua A, **C. Zapico S**, Van de Voorde W, Decorte R.

PRESENTATIONS AND ABSTRACTS (continued)

Human Identification Solutions-Poster

Madrid, Spain, March 2015

"Efficiency of human DNA isolation and short tandem repeat (STR) profiling from burnt teeth"

C. Zapico S, Adserias J, Ubelaker DH

American Academy of Forensic Sciences (AAFS) 67th Annual Meeting-Oral Communication

Orlando, Florida, February 2015

"Mitochondrial DNA (mtDNA) mutations as a new approach for age-at-death estimation"

C. Zapico S, Ubelaker DH

American Academy of Forensic Sciences (AAFS) 67th Annual Meeting-Poster

Orlando, Florida, February 2015

"Efficiency of human DNA isolation and short tandem repeat (STR) profiling from burnt teeth"

C. Zapico S, Adserias J, Ubelaker DH

American Society of Human Genetics (ASHG) Annual Meeting-Poster

San Diego, California, October 2014

"Learning a Language through Genome Education. Spanish School Experience"

C. Zapico S, Susana Martínez de Castro.

George Washington University Research Days 2014-Poster

Washington, DC, April 2014

"Application of Anthropological and Biochemical methodologies for estimation of age and sex"

Padalkar R, Ubelaker DH, **C. Zapico S**

American Academy of Forensic Sciences (AAFS) 66th Annual Meeting-Poster

Seattle, Washington, February 2014

"Management of mass disasters in Spain: the March 11th Madrid Train Bombing"

Adserias J, **C. Zapico S**, Hospital A, Prieto JL

American Academy of Forensic Sciences (AAFS) 66th Annual Meeting-Oral Communication

Seattle, Washington, February 2014

"Comparison of the use of Lamendin variables and aspartic acid racemization to estimate the age-at-death"

C. Zapico S, Ubelaker DH, Moini M

American Society of Human Genetics (ASHG) Annual Meeting-Poster

Boston, Massachusetts, October 2013

"Relationship between mtDNA mutations and aging. Estimation of age-at-death"

C. Zapico S, Ubelaker DH

American Academy of Forensic Sciences (AAFS) 65th Annual Meeting-Poster

Washington, DC, February 2013

"Cell death proteins as markers of early post-mortem interval"

C. Zapico S, Menéndez ST, Núñez P

Winner of the Student Scholarship Competition Award

American Academy of Forensic Sciences (AAFS) 64th Annual Meeting-Poster

Atlanta, Georgia, February 2012

"Efficiency of Human DNA isolation from food bitemarks"

C. Zapico S, Menéndez ST

PRESENTATIONS AND ABSTRACTS (continued)

Spanish Association for Cancer Research (ASEICA) XIII Meeting-Poster

Salamanca, Spain, September 2011

"Prooxidant activity of melatonin promotes cancer cell cytotoxicity"

Sánchez-Sánchez AM, Martín V, García-Santos G, **Casado-Zapico S**, Antolín I, Rodríguez C.

1st Congress of CEORL-HNS-Poster

Barcelona, Spain, July 2011

"Expression and clinical significance of the Kv3.4 potassium channel subunit in the development and progression of head and neck squamous cell carcinomas"

Menéndez ST, Rodrigo JP, García-Carracedo D, Allonca E, Álvarez-Alija G, **Casado-Zapico S**, Fresno MF, Rodríguez C, Suárez C, García-Pedrero JM

OncoBio2010 International Scientific Meeting. Cancer, Stem Cells and Metastasis-Poster

Salamanca, Spain, 2010

"Expression and clinical significance of the Kv3.4 potassium channel subunit in the development and progression of head and neck squamous cell carcinomas"

Tirados-Menéndez S, Rodrigo JP, García-Carracedo D, Allonca E, Álvarez-Alija G, **Casado-Zapico S**, Fresno MF, Rodríguez C, Suárez C, García-Pedrero JM

III International Symposium IUOPA: Advances in Molecular Oncology-Poster

Oviedo, Spain, 2010

"Melatonin cytotoxicity in cancer cells"

García-Santos G, **Casado-Zapico S**, Martín V, Sánchez-Sánchez A, Antolín I, Rodríguez C

III International Symposium IUOPA: Advances in Molecular Oncology-Poster

Oviedo, Spain, 2010

"Expression and clinical significance of the Kv3.4 potassium channel subunit in the development and progression of head and neck squamous cell carcinomas"

Tirados-Menéndez S, Rodrigo JP, García-Carracedo D, Allonca E, Álvarez-Alija G, **Casado-Zapico S**, Fresno MF, Rodríguez C, Suárez C, García-Pedrero JM

Frontiers in Tumour Progression-Poster

Madrid, Spain, 2010

"Expression and clinical significance of the Kv3.4 potassium channel subunit in the development and progression of head and neck squamous cell carcinomas"

García-Pedrero JM, Tirados-Menéndez S, Rodrigo JP, García-Carracedo D, Allonca E, Álvarez-Alija G, **Casado-Zapico S**, Fresno MF, Rodríguez C, Suárez C

Lymphoma and Myeloma 2010. An International Congress on Hematologic Malignancies-Poster

New York, New York, October 2010

"Antitumoral Effect of Melatonin in Burkitt Lymphoma Cells"

Casado-Zapico S, Martín V, García-Santos G, Rodríguez-Blanco J, Sánchez-Sánchez AM, Suárez C, García-Pedrero JM, Tirados-Menéndez S, Antolín I, Rodríguez C

Encuentro científico de jóvenes investigadores de la red temática de investigación cooperativa en cáncer (RTICC)-Poster

Madrid, Spain, October 2010

"Estado redox celular como determinante de los efectos antitumorales de la melatonina"

Sánchez A M^a, Martín V, García G, **Casado S**, Antolín I, Rodríguez C

ESH-ICML 12th International Conference-Chronic Myeloid Leukemia-Biological Basis of Therapy-Poster

Washington, DC, September 2010

"Antitumoral Effect of Melatonin in Chronic Myeloid Leukemia Cells"

Casado-Zapico S, Martín V, García-Santos G, Rodríguez-Blanco J, Sánchez-Sánchez A, Antolín I, Carmen Rodríguez

PRESENTATIONS AND ABSTRACTS (continued)

21st Meeting of the European Association for Cancer Research-Poster

Oslo, Norway, 2010

"Expression and clinical significance of the Kv3.4 potassium channel subunit in the development and progression of head and neck squamous cell carcinomas"

*Tirados-Menéndez S, Rodrigo JP, García-Carracedo D, Allonca E, Álvarez-Alija G, **Casado-Zapico S**, Fresno MF, Rodríguez C, Suárez C, García-Pedrero JM*

14th World Congress on Advances in Oncology. Int. J. Molecular Medicine-Oral Communication

Loutraki, Greece, 2009

"The extrinsic apoptotic pathway and melatonin: cytotoxic actions of melatonin in haematological cancer cells"

*Rodríguez C, **Casado-Zapico S**, García-Santos G, Martín V, Rodríguez-Blanco J, Sánchez-Sánchez A, Saíenz RM, Mayo JC*

I Encuentro de Jóvenes Investigadores de la RTICC-Poster

Salamanca, Spain, 2009

"Synergistic effect between melatonin and chemotherapeutic drugs on Ewing Sarcoma cells"

***Casado-Zapico S**, García-Santos G, Rodríguez-Blanco J, Martín V, Antolín I, Sánchez-Sánchez A, Rodríguez C*

Spanish Association for Cancer Research (ASEICA) XII Meeting-Poster

Madrid, Spain, 2009

"Antitumoral action of melatonin in haematological malignancies: induction of apoptosis through extrinsic and intrinsic pathway"

***Casado-Zapico S**, García-Santos G, Rodríguez-Blanco J, Martín V, Antolín I, Sánchez-Sánchez A, Rodríguez C*

CNIO Special Workshop: Stress Signalling and Cancer-Poster

Madrid, Spain, 2008

"Intracellular pathways mediated melatonin proapoptotic effect on Ewing Sarcoma cells and its synergy with chemotherapeutic drugs"

***Casado-Zapico S**, García-Santos G, Rodríguez-Blanco J, Antolín I, Martín V, Rodríguez C*

13th World Congress on Advances in Oncology. Int. J. Molecular Medicine-Oral Communication

Creta, Greece, 2008

"Melatonin and cancer therapy: current state and future perspectives"

*Rodríguez C, García-Santos G, **Casado-Zapico S**, Rodríguez-Blanco J, Martín V, Herrera F, Saíenz RM, Mayo JC and Antolín I*

American Association for Cancer Research (AACR) Annual Meeting-Oral Communication

San Diego, California, 2008

"Antitumoral action of melatonin in Ewing Sarcoma cells: possible ews-fli implication"

*García-Santos G, Rodríguez-Blanco J, Antolín I, Herrera F, Martín V, **Casado-Zapico S**, Toresky JA and Rodríguez C*

12th World Congress on Advances in Oncology and 10th International Symposium on Molecular Medicine. Int J Molecular Medicine-Oral Communication

Creta, Greece, 2007

"Relationship between oxidative stress and the cell cycle: relevance for several chronic diseases"

*Rodríguez C, Rodríguez-Blanco J, Martín V, García-Santos G, Herrera F, Saíenz RM, Mayo JC, **Casado S** and Antolín I*

ACADEMIC, PROFESSIONAL, AND SCHOLARLY SOCIETIES AND SERVICES

International Association of Coroners and Medical Examiners	February 2016-Present
Mutation Research <i>Reviewer</i>	Sept 2014-Present
Journal of Forensic and Legal Medicine <i>Reviewer</i>	June 2014-Present
Experimental and Molecular Pathology <i>Reviewer</i>	May 2014-Present
International Academy of Legal Medicine	March 2014-Present
Forensic Anthropology Society of Europe	March 2014-Present
Espanoles Científicos en USA (Spanish Scientists in USA) <i>Founding member, Events coordinator</i>	Sept 2013-Present
Journal of Forensic Dental Sciences <i>Reviewer</i>	June 2013-Present
The American Society of Human Genetics <i>Trainee</i>	April 2013-Present
Life: the excitement of Biology <i>Editorial Board</i>	March 2013-Present
American Academy of Forensic Sciences <i>Associate member Physical Anthropology Section</i>	Feb 2011-Present

TEACHING EXPERIENCE

<u>University of Girona, Spain</u>	October 2013-Present
Adjunct Professor Forensic Anthropology Postgraduate course	
<u>American University</u>	February 2015
Introduction to Osteology-teeth morphology and development	
<u>Mercyhurst University</u>	December 2013
Forensic Taphonomy	
<u>Smithsonian National Museum of Natural History</u>	
Genome. Unlocking life's code <i>Instructor at the exhibit</i>	June 2013-July 2014
Written in Bone. Forensic Anthropology Lab <i>Instructor at the lab</i>	Sep 2012-July 2013
<u>The New York City Police Museum</u> <i>Instructor and events organizer</i>	July 2010-Dec 2010
<u>Padre Feijoo High School</u> <i>Training MSc. Education-Biology classes</i>	Feb 2004-March 2004

MENTORING EXPERIENCE

Christian Thomas. Undergraduate student at George Washington University. *Volunteer in my project since March 2014.*

Roma Padalkar. Undergraduate student at George Washington University. *Intern in my project since February 2014. Winner of Undergraduate Research Enhancement Fund (UREF) under my supervision.*

Rebecca Stone-Gordon. Graduate student at American University. *Volunteer in my project since August 2013.*

Marina Gómez-Lobo. Technician at the lab I developed my PhD in Spain. *Mentoring from 2009 to 2012.*

Ana María Sánchez-Sánchez. PhD student at the lab I developed my PhD in Spain. *Mentoring from 2008 to 2012.*

INVITED TALKS

Q?rius. Google Field Trip Program. Smithsonian Institution

Washington, DC, October 2015

Sex determination in Forensic Anthropology

Master in Forensic Odontology. KU Leuven

Leuven, Belgium, December 2014

Multidisciplinary forensic approach for identification of human remains

Spanish School from the Spanish Embassy. Genome Unlocking Life's Code

Washington, DC, May 2013

Human Genetics

Penn State University Students. National Museum of Natural History Tour

Washington, DC, October 2013

Forensic Anthropology

Spanish School from the Spanish Embassy. Forensic Anthropology Lab

Washington, DC, March-April 2013

Forensic Anthropology Lab at Natural History Museum

SUNY Anthropology Students. National Museum of Natural History Tour

Washington, DC, February 2013

Forensic Anthropology and Genetics

LANGUAGES WRITTEN AND SPOKEN

Spanish: mother tongue.

English: C1 in European standards.

German: B1 in European standards.

Portuguese: A1 in European standards.

Russian: A1 in European standards.

French: A2 in European standards.

Dutch: Basic Level.

OTHER TECHNICAL TRAINING

Gaining Speed with “Fast GC”: A Practitioner’s Perspective <i>RTI International-Online Training</i>	July 2016
International Criminal Law <i>Coursera</i>	June 2016
Method Validation for Quantitation and Confirmation of Drugs by LC/MS/MS <i>RTI International-Online Training</i>	June 2016
Controlled Substances Analysis <i>RTI International-Online Training</i>	May 2016
Confirmatory Blood Identification by Mass Spectrometry <i>RTI International-Online Training</i>	April 2016
Specimen Validating Testing: The Workplace Experience <i>RTI International-Online Training</i>	March 2016
The AAFS Humanitarian and Human Rights Resource Center <i>67th AAFS meeting</i>	February 2016
Paleopathology Course <i>Autonomous University of Barcelona. Barcelona, Spain</i>	July 2014
Documentation and Interpretation of the Mass Fatality Scene <i>Mercyhurst University. Erie, Pennsylvania</i>	June 2014
Analysis of Bone Trauma and Pseudo-Trauma in Suspected Violent Deaths <i>Mercyhurst University. Erie, Pennsylvania</i>	June 2014
Applications of Next Generation Sequencing in Forensic DNA Analysis <i>66th Scientific Meeting of the AAFS</i>	Feb 2014
Human Identification in Mass Fatalities <i>RTI International and NIJ-Online training</i>	Nov 2013
Introductory Hands-on XRF Seminar <i>National Museum of Natural History, Smithsonian Institution, Washington, DC</i>	Sep 2013
Tools for cell metabolism: Bioluminescent NAD(P)/NAD(P)H-Glo Assays <i>Promega Platform-Online training</i>	Sep 2013
New directions in Molecular Histology/MS imaging <i>Waters-Biocompare-Online training</i>	Sep 2013
Human Cell line misidentification <i>Promega Platform-Online training</i>	Aug 2013
Reliability and validity of Fire Scene Examination <i>West Virginia University and NIJ Initiative-Online training</i>	July 2013
Everything you did (and didn’t) want to know about forensic DNA analysis <i>West Virginia University and NIJ Initiative-Online training</i>	July 2013
Crime scene: Death Scene checklist <i>The Evidence Conference-Online training</i>	July 2013
Future Trends in Forensic DNA technology <i>HID University by Life Technologies. Washington, DC</i>	July 2013
Forensic Taphonomy <i>Forensic Anthropology Center. University of Tennessee, Knoxville, TN, USA</i>	June 2013

OTHER TECHNICAL TRAINING (continued)

Falling into decay: Postmortem interval and Molecular autopsy. Part II <i>RTI International and NIJ-Online training</i>	May 2013
Falling into decay: Postmortem interval and Molecular autopsy. Part I <i>RTI International and NIJ-Online training</i>	Apr 2013
Straight to the bone: Advances in Forensic Anthropology <i>RTI International and NIJ-Online training</i>	Apr 2013
Radiological explorations. Fractures and common osteological diseases <i>Logoss platform</i>	Aug 2012
Collecting DNA evidence at property Crime Scenes <i>DNA Initiative (NIJ)-Online training</i>	Aug 2011
Crime Scene and DNA basics for Forensic Analysts <i>DNA Initiative (NIJ)-Online training</i>	Aug 2011
DNA extraction and quantitation for Forensic Analysts <i>DNA Initiative (NIJ)-Online training</i>	Aug 2011
DNA amplification for Forensic Analysts <i>DNA Initiative (NIJ)-Online training</i>	Aug 2011
Developing a missing persons protocol <i>RTI International and NIJ-Online training</i>	Apr 2011
Fundamentals of LC/MS/MS <i>RTI International and NIJ-Online training</i>	Dec 2010
AAFS February 2008 Presentations <i>RTI International and NIJ-Online training</i>	Nov 2010
Expert Testimony Training I on Demand <i>RTI International and NIJ-Online training</i>	Nov 2010
Forensic Anthropology: Mapping and Exhumation of Clandestine Burials <i>RTI International and NIJ-Online training</i>	Nov 2010
Forensic Fingerprints analysis basics <i>Forensic Training Network in partnership with NIJ -Online training</i>	Nov 2010
Essential aspects of Forensic DNA Testing <i>Forensic Training Network in partnership with NIJ -Online training</i>	Nov 2010
Molecular Biology and Genomics: new allies of clinical researcher <i>Ferrer in Code -Online training</i>	Dec 2009
Updating in the approach of Postmenopausal Osteoporosis <i>Diario Médico Platform -Online training</i>	Apr 2009
Swimming in English. Advanced level <i>Language immersion program state-subsidized. Garaña, Asturias, Spain</i>	Apr 2009
Virtual Workshop of Systematic Revisions and Metaanalysis <i>E-oncología Platform -Online training</i>	March 2009
Virtual Workshop of Critical Reading of Scientific Articles <i>E-oncología Platform -Online training</i>	March 2009
Handling of lab animals. Category B <i>Department of Biochemistry and Molecular Biology. Oviedo University, Oviedo, Spain</i>	Oct 2008

OTHER TECHNICAL TRAINING (continued)

Updating on vaccines

Oct 2008

Diario Médico Platform -Online training

Cutaneous Lymphomas

Feb 2008

Diario Médico Platform -Online training

Psychological factors in the vital cycle

Jul 2002

Cátedra Jovellanos, Oviedo University, Gijón, Spain

Maths and daily life

Jul 2002

Cátedra Jovellanos, Oviedo University, Gijón, Spain

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