

Indiana University School of Medicine 2020-present
Department of Anatomy, Cell Biology & Physiology
Professor

NON-ACADEMIC

Juan A. Fernández General Hospital 1987-1988
Dept. of Hemotherapy, Laboratory of Serology
Assistant Biochemist

Instituto de Estudios de la Inmunidad Humoral 1989-2000
National Research Council of Argentina leave of absence 1998-2000
(CONICET)
Professional Research Assistant

PROFESSIONAL ORGANIZATION MEMBERSHIP

Organization	Years
Argentinean Immunology Society	1989-1997
American Society for Bone and Mineral Research	1998-present
American Association for the Advancement of Science	1999-2001
American Association for the Advancement of Science.	2009-present
Endocrine Society	2010-2012
International Bone and Mineral Society	2011-2016
Argentinean Association for Osteology and Mineral Metabolism	2016-present
American Association of Anatomists	2019-present
Fibrous Dysplasia Foundation	2020-present

PROFESSIONAL HONORS AND AWARDS:

RESEARCH

AWARDS Travel Award
SOCIETY American Society for Bone and Mineral Research-International Bone and
Mineral Society joint Meeting
YEAR 1998

Second Best 1998 Scientific Paper Award.
Argentinean Journal of Endocrinology and Metabolism
1999

Alice L. Jee Memorial Young Investigator Award
International Sun Valley Hard Tissue Workshop
2001

Young Investigator Award,
American Society for Bone and Mineral Research
2002

Overseas Conference Grant Award
Office of the Vice President for International Affairs (OVPIA) at Indiana
University
2010

Overseas Conference Grant Award
Office of the Vice President for International Affairs (OVPIA) at Indiana
University
2012

Overseas Conference Grant Award
Office of the Vice President for International Affairs (OVPIA) at Indiana
University
2015

Fellow
American Society for Bone and Mineral Research
2019-present

SERVICE

Outstanding Contribution in Reviewing
Bone Reports Journal
2017

Outstanding Contribution in Reviewing
Bone Journal
2017

Outstanding Contribution in Reviewing
European Journal of Pharmacology
2017

Outstanding Contribution in Reviewing
Molecular and Cellular Endocrinology Journal
2017

Commitment to Diversity Award
IUSM Office of Diversity Affairs
2018

TEACHING:

Course: Immunology
Dept. of Immunology, School of Pharmacy and Biochemistry, National
University of Buenos Aires

Role: Lecturer and Laboratory instructor

Term: Fall semester 1987-1998

Immunochemistry and Monoclonal Antibodies,
Dept. of Immunology, School of Pharmacy and Biochemistry, National
University of Buenos Aires.
Lecturer and Laboratory instructor
Spring semester 1991-1998

Graduate Cellular Endocrinology
Department of Physiology, University of Arkansas for Medical Sciences
Lecturer
Fall semester 2004-2006

Medical Physiology Endocrine Case Conference for first year medical students
Department of Physiology, University of Arkansas for Medical Sciences
Lecturer
Spring semester 2005-2007

Basic Science Tutorial for Endocrinology Clinical Fellows
Division of Endocrinology, Department of Internal Medicine, University of Arkansas for Medical Sciences
Lecturer
Fall semester, 2006

D504/D815 Medical/Graduate Histology
Lecturer and Laboratory instructor
Spring 2009-2016

G819 Basic Bone Biology
Lecturer
Fall (every other year) 2009-2015, Spring 2018-present

Frontiers in Translational Medicine Course for medical students, School of Medicine, University San Pablo CEU, Madrid, Spain
Lecturer
Summer 2012

G751 Advanced concepts in cytosolic and nuclear signal transduction
Lecturer
Spring 2013-2018, Module 3

MED-X620 Human Structure
Lecturer and Laboratory instructor
Fall 2016-present

MED-X630 Molecules to Cells and Tissues
Lecturer and Laboratory instructor
Fall 2016

MENTORING

Thesis committees

Takeisha Farmer	IUSM MS committee member	2010-2011
Rafael Pacheco da Costa	University of Sao Paulo PhD committee member	2011-2015

- Scholarship from the CAPES Foundation (Ministry of Education, Brazil) to conduct part of his doctoral thesis at Indiana University		2011-2013
- Award for best basic abstract - 4 th BRADDOO Meeting		2013
- Young Investigator Travel Award - Annual ASBMR Meeting		2013/2017
Abdullah Ben-Awadh	IUSM MS committee member	2011-2012
Ling Li	IUSM PhD committee member	2011-2014
Amy Sato	IUSM PhD committee member	2012-2017
Sara Rachles,	IUSM MS committee member	2012-2014
Whitney Bullock	IUSM PhD committee member	2014-2019
Krishanthi Gunaratnam	Examiner for PhD Thesis, University of Sydney Australia	2015
Hannah M. Davis	IUSM PhD advisor/committee chair	2015-2019
- Young Investigator Travel Award from ASBMR - 2015, 2017, and 2018.		
- Fellowship to attend and present a poster at the Endocrinology Fellows Foundation Ninth Annual Fellows Forum on Metabolic Bone Disease - 2015.		
- Graduate Training Fellowship T32-AR065971		2017-2018
- Graduate and Professional Educational Grant award (IUSM)		2018
- Charles H. Turner Young Investigator Award for the Advances in Mineral Metabolism (AIMM) Meeting		2018
- F31 fellowship grant (relinquished) - 2018		
- Erica M. Daniel Kepner Award for Scientific Achievement from IUSM		2018
- Cagiantas Scholarship from the IUSM - 2018.		
- Graduate & Professional Student Grant (IUPUI) - ASCB/EMBO Meeting		2018
Madeline Totten	MU-COM MS Committee member	2018-2019
Alyson L. Essex	IUSM PhD advisor/committee chair	2018-present
- Graduate Training Fellowship T32-AR065971		2018-2021
- Graduate & Professional Student Grant (IUPUI) - ASBMR Meeting		2018
- Extraction Chemistry Award – Beckman Coulter		2019
- Young investigator award to attend the 2020 ECTS Digital Masterclass for PhD Students		2020
- Travel Grant, IUSM Graduate Student Representatives		2020
Ting Hsiao	MU-COM MS Committee member	2019-2020
Anika Shimonty	IUSM PhD committee Chair	2019-present
Nipuni Barupala	IUSM PhD committee member	2020-present
Noyonika Mukherjee	IUSM PhD committee member	2020-present

Research rotations

Nathan Farlow	IUSM SRPinAM mentor	2010
Yovanie Biggerstaff	IUSM Project SEED mentor	2010
Iraj Hassan	IUPUI, Work Study Program	2010-2014

Recipient of awards to attend to the following conferences:

- Annual Biomedical Research Conference for Minority Students, San Jose, CA		2012
- National Council for Undergraduate Research Conference, LaCrosse, Wisconsin		2013
Iraj Hassan	UROP mentor	2011
Thomas Murphy	IUSM SRPinAM mentor	2011
Surajudeen Bolarinwa	IUSM SRPinAM mentor	2012
Iraj Hassan	Ronald E. McNair Post-baccalaureate Achievement Program from the U.S. Department of Education mentor	2012
Chad Sorenson	3 rd year medical school rotation mentor	2013
Iraj Hassan	CTSI Award mentor	2013
Julia Harris	Women in Science Internship mentor IUPUI Women in Science and IBMG	2014
Mary Catherine Hon	IUSM SRPinAM mentor	2014
Delfina Sánchez-Pernisola	IUSM Project SEED mentor	2014
Emily Atkinson	LHSI mentor	2014-2015
Emily Atkinson	CTSI mentor	2015
David A. Lopez	IUSM SRPinAM mentor	2015
Zuleima Sánchez	IUSM Project SEED mentor	2015
Christian Porter	LHSI mentor	2015-2016
Julian Dilley	IUSM SRPinAM mentor	2016
Arwa Mohammad	CTSI award mentor	2016
Alejandro Marcial	IUSM Project SEED mentor	2016
Carmen Herrera-Sandoval	LHSI mentor	2016-2017
Sinai Valdez	CTSI mentor	2017
Kimberly Allen	IUSM SRPinAM mentor	2017
Alejandro Marcial	IUSM Project SEED mentor	2017
Manuel Senrra	IUSM Project SEED mentor	2017
Sinai Valdez	DSRP mentor	2017-2019
Leland Gomez	LHSI mentor	2017-2018
Alejandro Marcial	IUPUI work study program mentor	2017-2018
Alyson Essex	IBMG rotation mentor	2018
Sinai Valdez	IN LSAMP mentor	2018
Alejandro Marcial	CTSI mentor	2018
Melanie Martinez	undergraduate student mentor	2018
Daniel Ogunmoyero	IUSM Project SEED mentor	2018
Giancarlo Irizarry	IUSM Project SEED mentor	2018
Nicole Ramos-Solís	IPREP rotation mentor	2018
Haarmandeep Sidhu	LHSI mentor	2018-2019
Alejandro Marcial	IUPUI work-study program mentor	2018-2019
Alejandro Marcial	DS-UROP mentor	2019
Wilyaret Rodríguez Mercado	SUREBS mentor	2019

Raquel Ciprian Diaz.	IN LSAMP mentor	2019
	IUPUI Senior Capstone Project mentor	2020
Andrew Sickbert	IMPRS mentor	2019
Austin Magley	volunteer, MU-COM	2019
José Moreno	IUSM Project SEED mentor	2019
Allison Wagner	LHSI mentor	2019-2020
Emily Atkinson	IUSM PhD committee member	2020-present
Joungyoon Choi	IUPUI Senior Capstone Project mentor	2020
Alia Jamison	IUSM Master Student Research mentor	2020
Sylvia Robertson	volunteer – Purdue graduate	2020
Sandra Padilla	volunteer – IUPUI Senior student	2020
Gabriela Calvo	IUSM Project STEM mentor	2020
Kevin Olivares	IUSM Project STEM mentor	2020
Javier Cordova Jr	IUSM Project STEM mentor	2020
Cierra Isom	rotation – IPREP fellowship mentor	2020
Azaria Davis	APSA - Virtual Summer Research Program (VSRP)	2020
Laura Morales	volunteer – IUPUI Senior student	2020-2021
Dua Tariq	IUPUI - UROP scholar	2020-2021

CTSI - Clinical and Transitional Sciences Institute

LHSI - Life-Health Sciences Internship Program

DS-UROP - Diversity Summer Undergraduate Research Opportunity

UROP - Undergraduate Research Opportunity

SRPinAM - MSA Student Research Program in Academic Medicine

IPREP - IUPUI Post-Baccalaureate Research Program

MU-COM - Osteopathic Medical School, Marian University

SEED - Science Experience for the Economically Disadvantaged

IMPRS - Indiana University Medical Student Program for Research and Scholarship

IN LSAMP – Indiana Louis Stokes Alliances for Minority Participation

SUREBS – Summer Undergraduate Research Experience in Biomedical Sciences

APSA – American Physician Scientists Association

Postdoctoral fellows

Nicoletta Bivi, PhD	Postdoctoral fellow	2008-2011
– <i>ASBMR Young Investigator Award</i>		2009
– <i>Alice L. Jee Memorial Young Investigator Award and ASBMR/Harold M. Frost Young Investigator Award – International Bone and Mineral Society Sun Valley Workshop: Musculoskeletal Biology</i>		2010
– <i>Young Investigator ASBMR Travel Grant</i>		2011
Lucas Brun, M.D., PhD	Visiting post-doctoral fellow	2011

– <i>Pre-selected - Best Scientific Basic Abstract</i> <i>Annual Meeting of the Argentinean Society for Osteology</i> <i>and Mineral Metabolism</i>		2011
Rafael Pacheco da Costa, PhD	Postdoctoral fellow	2015-2017
– <i>Scholarship from Conselho Nacional de Desenvolvimento</i> <i>Científico e Tecnológico, of the Ministry of Science,</i> <i>Technology and Innovation of Brazil</i>		2015-2016
– <i>Fellowship -Endocrinology Fellows Foundation</i> <i>Ninth Annual Fellows Forum on Metabolic Bone Disease</i>		2016
– <i>2nd place Maria Odete Ribeiro Leite award, 7th BRADDO – Brazilian Densitometry,</i> <i>Osteoporosis and Osteometabolism Meeting</i>		2016
– <i>Young Investigator ASBMR Travel Award</i>		2017
Alexandra Aguilar-Perez, PhD	Postdoctoral fellow	2017-2018
– <i>NIH Diversity Supplement Award</i>		2017-2020
– <i>Fellowship - Endocrinology Fellows Foundation</i> <i>Tenth Annual Fellows Forum on Metabolic Bone Disease</i>		2017
– <i>ASBMR travel award - Network for Minority Health</i> <i>Research Investigators (NMRI) Annual Workshop, NIDDK</i>		2018
Ursula Heilmeyer, MD	Postdoctoral fellow, University Hospital Zürich and University of Zürich, Switzerland – mentee through the ASBMR-National Research Mentoring Network (NRMN) virtual mentoring pilot program	2018
Mamidi Mamidi, PhD	Postdoctoral fellow, Case Western Reserve University, Cleveland OH – mentee through the ASBMR mentoring program.	2019
Corinne Metzger, PhD	Postdoctoral fellow mentoring team member F32 fellowship	2019-present
Amy Creecy, PhD	Postdoctoral NIH Comprehensive Musculoskeletal Training Grant (T32) secondary co-mentor	2021-2023
Faculty mentoring		
Nicoletta Bivi, Ph.D.	Research Assistant Professor mentor	2011-2012
Joseph Wallace	K25 AR067221 award co-mentor	2015-2018
Yukiko Kitase	Research Assistant Professor Advisory Committee member, IUSM	2018-present
Ann Carol Kimble-Hill	Advisor, Programs to Launch URM Success (PLUS) Advisory Council (PAC)	2019-present

Other mentoring activities

Co-host for the Career Development Webinar Series (Membership Engagement and Education Committee) – “Successful mentoring relationship and the benefits of mentoring from the mentor’s perspective”, ASBMR 2019

Advisor for the Thesis Reports Committee of IFMRS HubLE learning environment 2019-present

ASBMR - American Society for Bone and Mineral Research
IFMRS - International Federation of Musculoskeletal Research Societies

GRANTS/FELLOWSHIPS IN RESEARCH:

ACTIVE GRANTS

Agency: NIH/NIAMS R01-AR067210
Title: Osteocyte apoptosis and regulation of bone resorption with aging
Role: Principal Investigator (20% effort)
Costs: \$212,653 direct costs/year
Dates: 04/01/2015 – 03/31/2021 (no cost extension)

NIH/NIAMS R01-AR072609 (Joseph Wallace)
Targeting collagen as an interventional approach to improve bone material properties
Co-Investigator (5% effort)
\$220,000 direct costs/year
07/01/2018 – 06/30/2023

Indiana CTSI (Lilian I. Plotkin)
IUSM Core Equipment Grant Program
Request for a tissue processor for the ICMH Histology and Histomorphometry Core
Principal Investigator (no salary listed)
\$20,000
5/12/2019

NIH/NIAMS R01-AR46477 (Uma Sankar)
CaMKK2 Signaling in Osteoarthritis
Co-Investigator (4% effort)
\$412,496 direct costs
02/01/2020 – 01/31/2025

Indiana CTSI
Sex divergent role of osteocytic miR21 and osteocyte viability and bone turnover
Principal Investigator (no salary listed)
\$2,158 direct costs
08/1/2018 – 07/31/2021

IUPUI Office of the Vice Chancellor for Research
Bridge funds program
FGF10 and the skeletal muscle consequences of osteocytic miR21 deletion.
Principal Investigator (no salary listed)
\$45,000
07/01/2020 – 06/30/2021

IIMR Grants Assistance Fund
TREM2-RAGE interactions
Principal Investigator (no salary listed)
\$2,500
02/10/2020

COMPLETED GRANTS

Agency: NIH/NIDDK (Teresita Bellido)
Title: Osteocyte control of bone formation via Sost.
Role: Co-Investigator
Costs: \$343,714 total costs/year
Dates: 07/01/2007 to 06/30/2012

NIH/NIAMS R01 – AR 053643
Connexin43 hemichannels and signaling in bone
Principal Investigator
\$1,624,724 total costs
07/01/2008 - 06/30/2013

Procter & Gamble
Influence of bone turnover rate and binding affinity on bisphosphonate skeletal distribution
Co-Principal Investigator (with Matthew Allen)
\$59,099 total costs
06/01/2009 - 12/31/2010

Procter & Gamble

Prevention of osteoblast and osteocyte apoptosis in the absence of anti-resorptive effects by bisphosphonates
Co-Principal Investigator (with Teresita Bellido)
\$74,000 total costs
06/01/2009 - 06/30/2011

IUPUI Office of the Vice Chancellor for Research (Stuart Warden)
Indiana Center for Translational Musculoskeletal Research
Center Faculty
\$100,000 total costs/year
07/01/2010 - 06/30/2013

NIH/NIAMS R01 – AR 059357 (Teresita Bellido)
FAK/Pyk2 signaling pathway and bone formation
Co-Investigator
\$ 1,732,500 total costs
09/01/2011 - 08/31/2015

Ralph W. and Grace M. Showalter Research Trust Fund, IUPUI Office of the Vice Chancellor for Research
Opposing actions of mechanical forces and glucocorticoids in bone
Principal Investigator
\$60,000 total costs/year
07/01/2011 to 06/30/2012

NIH T35 – HL 110845 (Nadia Carlesso)
Short-term training program in biomedical sciences.
Mentor
\$169,983 total costs year one
03/01/2012 - 02/28/2016

CTSI PDT Grant TR000006
Role of osteoblastic Cx37 on bone resorption in bone.
Co-Principal Investigator (with Matthew Allen)
\$ 10,000 total costs
11/01/2012 - 10/31/2013

Department of Veterans Affairs (Teresita Bellido)
Osteocyte control of bone remodeling through the PTH receptor
Co-Investigator
\$649,982 total costs

04/01/2013 to 03/31/2017

Indiana University School of Medicine – Biomedical Research Grant
Control of IGF1-induced osteocyte survival by Cx43 and miRNAs

Principal Investigator

\$40,000 total costs/year

03/01/2013 to 02/28/2014

Indiana University School of Medicine – Office of the Vice Chancellor for
research

Developing Diverse Researchers with InVestigative Expertise (DRIVE)
grant

HMGB1 and osteoclast recruitment and differentiation induced by deletion
of Cx43 in osteocytes

Principal Investigator

\$10,000 total cost/year

04/01/2013 to 03/31/2014

Indiana Center for Musculoskeletal Health, ICMH Pilot Project

Pannexin 1 in bone and muscle crosstalk

Co-Principal Investigator (with Angela Bruzzaniti and Teresa Zimmers)

\$50,000 direct costs

07/01/2017-06/30/2018

NIH/NCI R01-CA209882 (G. David Roodman, Teresita Bellido)

Contribution of Osteocytes to the Musculoskeletal Effects of Multiple
Myeloma

Co-Investigator

\$324,865 direct costs/year

04/01/2017-03/31/2019

Veterans Administration Research I01 BX002104-05A1 (Teresita Bellido)

PTH receptor Signaling and Diabetes-induced Bone Disease

Co-Investigator

\$150,000 direct costs/year

01/04/2018-03/31/2019

NIH/NIAMS R01-AR059357-01 (Teresita Bellido)

Glucocorticoid-induced Atrophy in Bone and Muscle

Co-Investigator

\$220,000 direct costs/year

07/01/2018-06/30/2019

NIH R13-AG063480-01 (Lynda Bonewald)
Bone and Muscle Interaction: the Mechanical and Beyond
Member of the organizing committee (no salary listed)
\$75,000 direct costs
08/16/2019

Indiana Center for Musculoskeletal Health
Consequences of TREM2 mutations in bone and muscle
Co-Principal Investigator (with Andrea Bonetto)
\$20,000 direct costs
07/01/2018 – 06/30/2019

IUPUI Office of the Vice Chancellor for Research (Lilian I. Plotkin)
Mitochondria defects in the absence of osteocytic miR21
Principal Investigator (no salary listed)
\$35,000
06/01/2019 – 05/31/2020

INVITED PRESENTATIONS IN RESEARCH

LOCAL PRESENTATIONS

Venue: Seminars of the Department of Microbiology, Immunology and Biotechnology,
School of Pharmacy and Biochemistry, University of Buenos Aires, Buenos
Aires, Argentina

Title: Analysis of the humoral immune response of patients with psoriasis

Year: 1994

Seminars of the Department of Microbiology, Immunology and
Biotechnology, School of Pharmacy and Biochemistry, University of Buenos
Aires, Buenos Aires, Argentina

Analysis of the lipolytic system of *P. ovale*: its potential participation in the
inflammatory manifestations of psoriasis

1995

Seminars of the Department of Microbiology, Immunology and
Biotechnology, School of Pharmacy and Biochemistry, University of Buenos
Aires, Buenos Aires, Argentina

Mechanism that mediate inflammation

1995

Seminars of the Department of Microbiology, Immunology and
Biotechnology, School of Pharmacy and Biochemistry, University of Buenos

Aires, Buenos Aires, Argentina

Epithelial cells release arachidonic acid as a consequence of the action of phospholipase A₂ produced by *Malassezia furfur*: a potential pathophysiological mechanism.

1996

Seminars of the Instituto de Estudios de la Inmunidad Humoral (IDEHU), Immunology, School of Pharmacy and Biochemistry, University of Buenos Aires, Buenos Aires, Argentina

Analysis of the relationship between the immune system and the bone system

1997

Endocrinology Grand Rounds, UAMS, Little Rock, AR, USA

Survival signals induced by bisphosphonates in osteocytes

2000

Endocrinology Grand Rounds, UAMS, Little Rock, AR, USA

CRM1/Exportin1-mediated nuclear export is required for the pro-survival effect of bisphosphonates on osteocytes: evidence for cytoplasmic-restricted signaling by ERKs

2002

Endocrinology Grand Rounds, UAMS, Little Rock, AR, USA

Transcription-independent inhibition of caspases by C/EBP β in osteocytes: an anti-apoptotic signaling cascade uniquely activated by bisphosphonates

2003

Invited lecture. School of Dentistry, Dept. of Oral Biology and Dept. of Biological Sciences, University of Missouri at Kansas City, Kansas City, MO, USA

Prevention of osteocyte apoptosis by bisphosphonates: a mechanism mediated by Cx43 hemichannels and transcription independent functions of ERKs

2005

Department of Internal Medicine Research Conference, UAMS, Little Rock, AR, USA Glucocorticoid excess disrupts the canalicular circulation: potential mechanism of the disparity between bone density and strength in glucocorticoid induced osteoporosis and osteonecrosis

2005

Invited lecture. Eli Lilly and Company, Indianapolis, IN, USA

Why keep osteocytes alive and how?

2009

Invited lecture. Medical & Molecular Genetics Research Club, Indiana University School of Medicine, Indianapolis, IN, USA.

Prevention of osteocyte and osteoblast apoptosis by bisphosphonates:

unraveling a new paradigm of signal transduction mediated by Cx43
2009.

Invited lecture. Endocrine Research Conference, Indiana University School of
Medicine, Indianapolis, IN, USA

Connexin43 and osteocyte viability

2010

Invited lecture. Biomedical Engineering Seminar Series, Purdue University,
Indianapolis, IN, USA

Connexins, Osteocyte Survival and Regulation of Osteoclastogenesis: Novel
pathways with Therapeutic Potential

2013

Invited lecture, VA Research Seminar, Richard L. Roudebush VA Medical
Center, Indianapolis, IN, USA.

Connexins in bone: gap junctions, hemichannels, and more

2015

NATIONAL PRESENTATIONS

Venue: Invited lecture. Boston Area DiscoverX Technology Symposium, Cambridge,
MA, USA

Title: Cx43- β -arrestin association and the activation of cAMP-mediated survival
signaling by parathyroid hormone in osteoblasts

Year: 2009

Invited lecture. Children's Research Institute Osteoclast Center, Medical
University of South Carolina, Charleston, SC, USA

Regulation of bone mass by Cx37, a new connexin expressed in bone cells, via
cell-autonomous control of osteoclast differentiation and fusion

2013

Invited speaker, MCBP Seminar, Medical University of South Carolina, SC,
USA.

Connexins and Pannexins: membrane channels that modulate the generation,
survival and activity of bone cells

2018

Invited speaker, American Association of Anatomists Annual Meeting, held in
conjunction with Experimental Biology, EB 2019, Orlando, FL

Triggering Receptor Expressed on Myeloid Cells 2 (TREM2) Mutations: a
Potential Common Cause of Alzheimer's Disease and Musculoskeletal
Disorders

2019

INTERNATIONAL PRESENTATIONS

Venue: VI International Symposium of Osteoporosis (SIO 2003) & III Symposium of Mercosur Metabolic Bone and Mineral Disease, Mar del Plata, Buenos Aires, Argentina

Title: Comparative analysis of the mechanism of action of: PTH - Angels – Estrogens and Molecular basis for the action of bisphosphonates on osteocytes

Year: 2003

Invited lecture. Fundación Jiménez Díaz, Madrid, Spain

Molecular mechanism of action of bisphosphonates on osteocytes
2007

Invited lecture. 36th European Symposium on Calcified Tissues, Vienna, Austria. Workshop 4

New roles for estrogen receptors: New insights into sex hormones and bone
2009

Invited lecture. XXVI Annual Reunion of the Argentinean Society for Osteology and Mineral Metabolism (AAOMM), Buenos Aires, Argentina

Bisphosphonates, connexins and apoptosis: novel mechanism of action with therapeutic potential and Effect of glucocorticoids on osteocytes
2009

Invited speaker, Plenary Symposium III: 40th Anniversary of Bisphosphonates - Yesterday, Today and Tomorrow. 31st Annual Meeting of the American Society for Bone and Mineral Research, Denver, CO, USA

Novel bisphosphonate actions on bone: preservation of osteocyte and osteoblast viability
2009

Invited speaker, 1st Latin American Symposium on the molecular mechanisms of skeletal mineralization and XXXIX Annual Meeting of the Brazilian Society for Biochemistry and Molecular Biology (SBBq). Foz do Iguassu, Brazil.

Role of Connexin 43 expression in osteoblastic cells on cell viability and bone material properties
2010

Invited speaker, Seminars of the Instituto de Estudios de la Inmunidad Humoral (IDEHU), Immunology, School of Pharmacy and Biochemistry, University of Buenos Aires, Buenos Aires, Argentina.

Connexin 43 and apoptosis of osteoblastic cells
2010

Invited speaker, 5th International Workshop on Advances in the Molecular

Pharmacology and Therapeutics of Bone Disease, Oxford, United Kingdom.
Bisphosphonates, connexins and anti-apoptosis: a novel pathway with
therapeutic potential

2012

Invited speaker, Seminar series at the Center for Applied Medical Research,
University of Navarra, Pamplona, Spain.

Cx43, osteocyte apoptosis and bone remodeling

2012

Invited speaker, XVIII Meeting of the Spanish Society for Bone and Mineral
Metabolism Research, Tarragona, Spain.

Connexins and bone: regulation of cell viability, regulation of mechanical
responses or coordination of bone remodeling?

2013

Invited speaker, Federal University of São Paulo School of Medicine. São Paulo,
Brazil

Control of bone resorption by apoptotic osteocytes

2014

Invited speaker, 1^{er} Congreso Argentino de Osteología, organized by Asociación
Argentina de Osteología y Metabolismo Mineral (AAOMM) and Sociedad
Argentina de Osteoporosis (SAO), Buenos Aires, Argentina

Connexins and pannexins, membrane channels that modulate the generation and
activity of bone cells

2016

Invited speaker, Fisiopatología, diagnóstico y tratamiento de las enfermedades
metabólicas óseas (Physiopathology, diagnostic and treatment of bone metabolic
diseases) course, Universidad Nacional de Rosario, Rosario, Argentina

Aspectos generales de la biología del tejido óseo (General aspects of bone tissue
biology)

2018

Invited speaker, Centro de Ejercicio, Metabolismo y Cáncer (CEMC, Facultad
de Medicina, Universidad de Chile) and Instituto de Investigación en Ciencias
Odontológicas (Facultad de Odontología, Universidad de Chile), Santiago, Chile
Efectos de los bisfosfonatos en células osteoblásticas dependientes de los
canales de conexina 43 (Effects of bisphosphonates on osteoblastic cells
dependent on connexin 43 channels)

2019

Invited speaker, Instituto de Diagnostico e Investigaciones Metabólicas, Buenos Aires, Argentina
Nuevo mecanismo de acción de los bifosfonatos (Novel mechanisms of bisphosphonate actions)
2019

Invited speaker, Bisphosphonates 2019: Celebrating 50 years meeting, Sheffield, United Kingdom
Non-classical bisphosphonate actions
2019

Invited speaker, Bone and Muscle Interactions: the Mechanical and Beyond meeting, Indianapolis, IN
Bone and muscle interactions with aging
2019

Invited speaker, ASBMR Diversity Subcommittee's Research Interest Meeting, zoom presentation.
2020

Invited speaker, Argentinean Society of Osteology and Mineral Metabolism (AAOMM) Webinar Series, zoom presentation.
microRNA-21 en osteocitos y el control del remodelado óseo (microRNA-21 in osteocytes and the control of bone remodeling).
2020

Invited speaker, Argentinean Society of Osteology and Mineral Metabolism (AAOMM) *Jornadas "Metodologías Multiescala de Aplicación en Osteología"* (multiscale methods applied to osteology), zoom presentation.
Métodos de biología molecular aplicada a tejido óseo-cartilaginoso
2020

Invited speaker, Musculoskeletal Lecture Series (virtual conference series – Chile-Colombia), zoom presentation.
Remoción del microRNA-21 de osteocitos: efectos dependientes e independientes del sexo de los animales (removal of osteocytic microRNA-21: effects dependent and independent of the sex of the animals).
2020

SERVICE:

UNIVERSITY SERVICE:

DEPARTMENT – Anatomy, Cell Biology & Physiology

Committee: Graduate Studies Committee

Role: Member

Year: 2009-present

Bone Journal Club

Co-Coordinator

2012-2017

Social media outreach committee

Member

2016-2018

Graduate program review committee

Member

2018

ACBP Steering Committee

Member

2018-2020

Space Committee

Member

2019

SCHOOL – Indiana University School of Medicine

Committee: Electron Microscopy Advisory Committee

Role: Member (Chair since 2020)

Year: 2009-present

Graduate Oversight Committee

Member – representative of the Department of Anatomy and Cell Biology

2015-2018

Institutional Animal Care and Use Committee (IACUC)

Member
2015-present

IACUC Subcommittee aiming to improve the breeding section of the animal protocols
Member
2018-2019

Bylaws Subcommittee in charge of drafting the bylaws to govern the Graduate Oversight Committee function
Member
2018

Academic Program Review – Department of Microbiology and Immunology at IUSM
Representatives of Related Programs within IUSM
2018

Indiana University School of Medicine Diversity Council
Member
2018-present

IUSM Student Research Symposium
Judge
2019

Multi-Center grant applications IUSM
Reviewer (1 grant)
2019

IUSM
Programs to Launch URM Success (PLUS) Advisory Council member
2019-present

IUPUI
Indiana University-Purdue University Post-Baccalaureate Research Education Program (IPREP) Advisory Board
2018-present

IUSM
Promotion & Tenure Committee
2020-present

IUSM
Lecturers and Clinical Rank Faculty Promotion Committee
2020-present

IUSM
Member Data and Climate Task Force
- Cultural Climate Data Subcommittee
- DEI Dashboards Subcommittee
2020-present

IUSM - Indiana Center for Musculoskeletal Health

Director, ICMH Histology and Histomorphometry Core
Member, ICMH Core Committee
Coordinator, ICMH journal club
Coordinator, ASBMR practice presentations and highlights review
2018-present

Co-organizer, ICMH Research Club
Co-organizer, external grant review sessions
2018-2020

Member, ICMH Pilot Project Committee
2019-present

UNIVERSITY – Indiana University Purdue University Indianapolis

Program: IUPUI Life Health Science Internship (LHSI)
Role: Research Mentor
Years: 2014-present

IUPUI RSFG
Reviewer (2015 – 5 grants, 2016 – 2 grants, 2017 – 1 grant)

Indiana CTSI
Grant reviewer
2016 (2 grants) and 2018 (3 grants)

Academic Program Review – Department of Health Sciences at IUPUI
Representative of Related Departments Outside the School
2018

IUPUI Release Time for Research
Reviewer for 1 grant
2018

Indiana CTSI - Purdue University

Bone and Body Composition Core
Co-Deputy Director
2018-2019

Temporary Director
2019-2020

Histology and Histomorphometry Core
Director
2020-present

PROFESSIONAL SERVICE

Editorial Boards

Journal: Actualizaciones en Osteología. (Argentinean Society for Osteology and
Mineral Metabolism)
Role: Member Editorial Board
Year: 2011-2015

Bone
Editorial Board member
2011-2018

Cell Biology: Research & Therapy
Member Editorial Board
2012-2015

Endocrinology and Metabolism
Editorial Board member
2013-present

Revista de Osteoporosis y Metabolismo Mineral
Editorial Board member
2014-present

Bone Reports
Editorial Board member
2015-2018

Journal of Bone and Mineral Metabolism (Japanese Society for Bone and Mineral Research).
Associate Editor
2015-2020

Actualizaciones en Osteología. (Argentinean Society for Osteology and Mineral Metabolism)
Associate Editor
2015-present

Bone
Associate Editor
2018-present

Bone Reports
Associate Editor
2018-present

Heliyon
Associate Editor
2018-2020

Journal of Bone and Mineral Research Plus
Editorial Board member
2018-2019

Journal of Bone and Mineral Research
Editorial Board member
2018-present

FASEB Journal
Associate Editor
2019-present

Calcified Tissue International
Editorial Board Member
2020-present

Frontiers in Endocrinology,
Guest Associate Editor in Bone Research
2020-present

Journal review

Ad Hoc Reviewer since 2003 for:
Journal of Bone and Mineral Research/JBMR Plus
Bone/Bone Reports
Calcified Tissue International
Biochimica et Biophysica Acta – Biomembranes
Biochemical Pharmacology
Metabolism Clinical and Experimental
European Journal of Pharmacology
Cellular and Molecular Life Sciences
BMC Musculoskeletal Disorders
Clinical & Experimental Metastasis
Journal of Proteome Research
European Journal of Endocrinology
Arthritis Research & Therapy
Cancer Science
Osteoporosis International
The Journal of Obstetrics and Gynaecology Research
PLOS ONE
The American Journal of Physiology – Cell Physiology
Journal of Clinical & Experimental Cardiology
Biotechniques
Journal of Orthopaedic Research
British Journal of Pharmaceutical Research
Journal of Biological Chemistry
Aging Cell
FASEB Journal
Bone Research
Nature Scientific Reports
Nature Communications
Oncogene

EXTRAMURAL GRANT REVIEW (National and International)

Agency: National Agency for the Advancement of Science and Technology,
Argentina
Panel: National Grant Competition

Lilian I. Plotkin, Ph.D.
12/28/2020

Role: 2 grants
Year: 2004

National Agency for the Advancement of Science and Technology,
Argentina

National Grant Competition

1 grant

2005

National Agency for the Advancement of Science and Technology,
Argentina

National Grant Competition

3 grants

2006

National Agency for the Advancement of Science and Technology,
Argentina.

National Grant Competition

1 grant

2008

Ministry of Labor, Health and Social Policies, Department of Innovation,
General Directorate for Health and Technologies Research, **Italy** (contacted
through the NIH)

Young investigator grants

7 grants

2009

US Army Medical Research and Materiel Command (USAMRMC)
Peer Reviewed Medical Research Program (PRMRP) - Osteoporosis and
Related Bone Diseases-O study section

Regular Member: Primary reviewer for 3 grants and secondary reviewer for
3 grants

2009

Ministry of Labor, Health and Social Policies, Department of Innovation,
General Directorate for Health and Technologies Research, **Italy** (contacted
through the NIH)

National Grant Competition

Primary reviewer for 6 grants and secondary reviewer for 6 grants

2010

National Agency for the Advancement of Science and Technology,
Argentina

National Grant Competition
1 grant
2010

US Army Medical Research and Materiel Command (USAMRMC)
2010 Peer Reviewed Medical Research Program (PRMRP) - Osteoporosis
and Related Bone Diseases-O study section
Regular Member: Primary reviewer for 4 grants and secondary reviewer for
3 grants
2010

Pennsylvania Department of Health (PA DOH). Research projects funded
by the PA DOH Master Tobacco Settlement.
2010
Pennsylvania Final Performance Review, 09-10 Cycle B
Reviewer for 2 grants
2010

US Army Medical Research and Materiel Command (USAMRMC).
Pre-proposals for the Investigator-Initiated Research Awards (IIRAs), 2010
Peer Reviewed Medical Research Program (PRMRP). Osteoporosis and
Related Bone Disease study section.
Regular Member: Primary reviewer for 3 grants, secondary reviewer for 7
grants and tertiary reviewer for 3 grants.
2010

Ministry of Labor, Health and Social Policies, Department of Innovation,
General Directorate for Health and Technologies Research, **Italy**
National Grant Competition
Reviewer for 7 grants
2011

National Agency for the Advancement of Science and Technology,
Argentina
National Grant Competition
Reviewer for 5 grants
2011

National Commission for Scientific and Technological Development
(CONICYT) and the Superior Council of the National Fund for Scientific
& Technological Development (FONDECYT), **Chile**
2012 National Research Funding Competition,
Reviewer for 1 grant
2011

Ministry of Labor, Health and Social Policies, Department of Innovation,
General Directorate for Health and Technologies Research, **Italy** (contacted
through the NIH).

National Grant Competition
Reviewer for 22 grants

US Army Medical Research and Materiel Command (USAMRMC).
2012 Peer Reviewed Medical Research Program (PRMRP) - Osteoporosis
and Related Bone Disease, Discovery Award competition
Regular Member: Reviewer for 6 grants
2012

Pennsylvania Department of Health (PA DOH). Research projects funded
by the PA DOH Master Tobacco Settlement
2012 Pennsylvania Final Performance Review, 09-10 Cycle B
Reviewer for 2 grants
2012

NIH
October 2012 Skeletal Biology Structure & Regeneration (SBSR) Study
Section
Ad hoc primary reviewer for 3 grants, secondary for 2 grants, and tertiary
for 3 grants
2012

National Agency for the Advancement of Science and Technology,
Argentina
National Grant Competition
Reviewer for 2 grants
2012

Pennsylvania Department of Health (PA DOH). Research projects funded
by the PA DOH Master Tobacco Settlement
2012 Pennsylvania Final Performance Review, 09-10 Cycle B
Reviewer for 1 grant
2013

National Agency for the Advancement of Science and Technology,
Argentina
National Grant Competition
Reviewer for 1 grant
2013

Ministry of Labor, Health and Social Policies, Department of Innovation,
General Directorate for Health and Technologies Research, **Italy** (contacted
through the NIH).

National Grant Competition
Reviewer for 10 grants
2013

Diabetes UK, **United Kingdom**
Project Grant
Reviewer for 1 application
2014

NASA
International Life Sciences Research Announcement (ILSRA)
Reviewer for 7 applications
2014

ASBMR
Grants in Aid Program
Reviewer for 1 application
2014

Arthritis Research UK, **United Kingdom**
Foundation Fellowship Award
Reviewer for 1 application
2014

Ministry of Labor, Health and Social Policies, Department of Innovation,
General Directorate for Health and Technologies Research, **Italy** (contacted
through the NIH).
National Grant Competition
Reviewer for 10 grants
2014

Arthritis Research UK
Foundation Fellowship Award
Reviewer for 1 application
2015

ASBMR
Rising Star Awards
Reviewer for 2 applications
2015

National Agency for the Advancement of Science and Technology,

Argentina
National Grant Competition
Reviewer for 2 grants
2015

Russian Science Foundation
Research and Technical Program and Projects, **Russia**
Reviewer for 1 application
2015

KY Science and Engineering Foundation
R&D Excellence Awards
Reviewer for 1 application
2015

NIH
Special Emphasis Panel/Scientific Review Group P01 application
Reviewer for 2 projects within the P01 application
2016

Department of Veterans Affairs, Rehabilitation Research and Development
Service
Small Projects Panel
Reviewer for 1 project
2016

ASBMR
Rising Star Awards
Reviewer for 4 applications
2016

National Agency for the Advancement of Science and Technology,
Argentina
National Grant Competition
Reviewer for 4 grants
2016

Ministry of Labor, Health and Social Policies, Department of Innovation,
General Directorate for Health and Technologies Research, **Italy** (contacted
through the NIH).
National Grant Competition
Reviewer for 15 grants
2016

Russian Science Foundation
Research and Technical Program and Projects, **Russia**
Reviewer for 2 applications
2016

NIH
October 2017 Skeletal Biology Development and Disease Study Section
(SBDD)

Ad hoc primary reviewer for 1 grant, secondary for 1 grant, tertiary for 5 grants, and forth reviewer for 1 grant
2017

ASBMR
Rising Star Awards
Reviewer for 2 applications
2017

National Agency for the Advancement of Science and Technology,
Argentina
National Grant Competition
Reviewer for 1 grant
2017

Swiss National Science Foundation
International Translation Research Projects, **Switzerland**
Reviewer for 1 grant
2018

ASBMR
Rising Star Awards
Reviewer for 2 applications
2018

French National Research Agency (ANR)
CE14 - Physiologie et physiopathologie, **France**
Reviewer for 1 application
2018

International Federation of Musculoskeletal Research Societies
Fellowship Grants
Reviewer for 8 applications
2018

Ministry of Labor, Health and Social Policies, Department of Innovation,
General Directorate for Health and Technologies Research, **Italy** (contacted
through the NIH).
National Grant Competition
Reviewer for 5 grants
2018

ASBMR
Rising Star Awards
Reviewer for 2 applications
2019

BioNexus Kansas City
Patton Trust Research Grants
Reviewer for 1 application
2019

Research Foundation Flanders (FWO)
Call for Junior and Senior Research Projects, **The Netherlands**
Reviewer for 1 application
2019

National Agency for the Advancement of Science and Technology,
Argentina
National Grant Competition
Reviewer for 1 grants
2019

French National Research Agency (ANR)
CE14 - Physiologie et physiopathologie, **France**
Reviewer for 1 application
2019

NIH
October 2019 Special Emphasis Panel/Scientific Review Group 2020/01
ZAG1 ZIJ-P (J5)
Primary reviewer for 1 grant, secondary for 3 grant, tertiary for 3 grants
2019

Austrian Academy of Sciences, **Austria**
Doctoral fellowship (DOC)
Reviewer for 1 application
2019

Natural Sciences and Engineering Research Council of **Canada**
Discovery Grant proposal
Reviewer for 1 application
2020

Department of Defense
Peer Reviewed Medical Research Program PRE-MSH-1 peer
review panel
Reviewer for 9 pre-applications
2020

Department of Defense
Discovery-Musculoskeletal Health -1 (DIS-MSH-1) panel
Reviewer for 14 applications
2020

Department of Defense
Peer Reviewed Medical Research Program Musculoskeletal Health
(PRMRP MSH-1)
Reviewer for 1 application
2020

Department of Defense
Peer Reviewed Medical Research Program, Focused Program - Fibrous
Dysplasia, FP-FD
Reviewer for 4 applications within the program project-like application
2020

National Agency for the Advancement of Science and Technology,
Argentina
National Grant Competition
Reviewer for 2 grants
2020

Austrian Academy of Sciences, **Austria**
Doctoral fellowship (DOC)
Reviewer for 1 application
2020

ASBMR
Rising Star Awards
Reviewer for 2 applications
2020

ABSTRACT REVIEW

Agency: European Calcified Tissues Society
Panel: 37th European Symposium on Calcified Tissues - Cell Biology: osteocytes
Number: 6 abstracts
Year: 2010

European Calcified Tissues Society
3rd Joint Meeting of the European Calcified Tissue Society and the
International Bone and Mineral Society - Cell Biology: osteocytes
6 abstracts
2011

Asociación Argentina de Osteología y Metabolismo Mineral (AAOMM)
2011 Annual Meeting
4 abstracts
2011

The Endocrine Society
94th Annual Meeting of The Endocrine Society, ENDO 2012
50 abstracts
2012

Asociación Argentina de Osteología y Metabolismo Mineral (AAOMM)
2012 Annual Meeting
3 abstracts
2012

European Calcified Tissues Society
39th European Calcified Tissue Society - Cell Biology: osteocytes
4 abstracts
2012

International Bone and Mineral Society and the Japanese Society for
Bone and Mineral Research
2013 IBMS-JSBMR Joint meeting - Osteocytes
13 abstracts
2013

American Society for Bone and Mineral Research
2013 Annual Meeting- Osteocytes
47 abstracts
2013

American Society for Bone and Mineral Research
2015 Annual Meeting – Osteocytes
2015

1st Argentinean Osteology Meeting Argentinean Society for Osteology and
Mineral Metabolism –Argentinean Osteoporosis Society
2016

American Society for Bone and Mineral Research
2017 Annual Meeting - Muscle Biology and Bone-Muscle Crosstalk
2017

XXXIV Annual Meeting Argentinean Society for Osteology and Mineral
Metabolism
2017

Council for Undergraduate Research Posters on the Hill Meeting
2017-2018

World Council for Undergraduate Research (CUR) 2019 Meeting
2018

American Society for Bone and Mineral Research
2018 Annual Meeting Reviewer- Osteoblasts and Category Chair -
Osteoporosis - Pathophysiology
2018

American Society for Bone and Mineral Research
2019 Annual Meeting - Bone Interactions with Muscle and other Tissues
2019

XXXVI Annual Meeting Argentinean Society for Osteology and Mineral
Metabolism
2019

American Society for Bone and Mineral Research
2020 Annual Meeting - Bone Interactions with Other Tissues
2020

SESSION REVIEW

American Society for the Advancement of the Science
2021 AAAS Annual Meeting - 90 Minute Symposium Format
2020

NATIONAL SERVICE ACTIVITY

Agency: American Society for Bone and Mineral Research
Activity: Advocacy Committee
Role: Member
Year: 2005-2008

American Society for Bone and Mineral Research 31st Annual Meeting
Concurrent Oral Session 42: Osteocytes II: Wnt Pathway
Moderator
2009

American Society for Bone and Mineral Research
Membership Development Committee
Member
2011-2014

American Society for Bone and Mineral Research
Focus group that will assist in the implementation of initiatives related to
its 2011-2014 Strategic Priorities
Member
2011-2014

93rd Annual Meeting of the Endocrine Society
Symposium session: Mechanotransduction in Bone
Chair
2011

American Society for Bone and Mineral Research 33rd Annual Meeting
Concurrent Oral Session 40: Skeletal Loading and Bone Quality
Moderator
2011

American Society for Bone and Mineral Research
ASBMR/Harold M Frost Young Investigator Awards
Application review
2011-2012

American Society for Bone and Mineral Research
Diversity in Bone and Mineral Research Subcommittee

Member
2013-2018

International Gap Junction Conference
Platform session 10: Connexins in inherited and acquired diseases
Moderator
2015

Argentinean Society for Osteoporosis and Mineral Metabolism
AAOMM basic science awards
Coordinator and member of the selection committee
2016

American Society for Bone and Mineral Research 39th Annual Meeting,
Plenary Oral II Session – Translational
Moderator
2017

American Society for Bone and Mineral Research 39th Annual Meeting
ASBMR 2017 Grant Writing Workshop: What to Choose and How to Fund
It
Table discussion leader: Choosing Appropriate Grant and/or Funding
Agency: VA, DOD, NSF
2017

American Society for Bone and Mineral Research 40th Annual Meeting
Plenary Oral Session – Osteoblast and Osteocyte Biology
Moderator
2018

Indiana Center for Musculoskeletal Health (ICMH)
Bone and Muscle Interactions: Beyond the Mechanical Meeting
Member, organizing committee
Moderator
2018-2019

American Society for Bone and Mineral Research
Women in Bone and Mineral Research Committee
Member
2018-2021

PUBLICATIONS IN RESEARCH:

REFEREED PUBLICATIONS

1. Morelli L, **Plotkin LI**, Leoni J, Fossati CA, Margni RA. Analysis of oligosaccharides involved in the asymmetrical glycosylation of IgG monoclonal antibodies. **Molecular Immunology** 30:695-700, 1993.
2. Squiquera L, Galimberti R, Morelli L, **Plotkin LI**, Leoni J. Antibodies to protein from *Pityrosporum ovale* in the sera from patients with psoriasis. **Clinical and Experimental Dermatology** 19:289-293, 1994.
3. Mathov I, **Plotkin LI**, Squiquera L, Fossati CA, Margni R, Leoni J. N-Glycanase treatment of F(ab')₂ derived from asymmetric murine IgG3 mAb determines the acquisition of precipitating activity. **Molecular Immunology** 32:1123-1130, 1995.
4. Abatangelo C, **Plotkin LI**, Mathov I, Squiquera L, Leoni J. The frequent mutation Gly/Asp in CDR1 may determine a cross-reactive idiotope in anti-I cold agglutinins. **Clinical and Experimental Immunology** 104:185-190, 1996.
5. **Plotkin LI**, Squiquera L, Mathov I, Galimberti R, Leoni J. Characterization of the lipase activity of *Pityrosporum ovale*. **Journal of Medical and Veterinary Mycology** 34:43-48, 1996.
6. Squiquera L, **Plotkin LI**, Mathov I, Galimberti R, Leoni J. Analysis of the antifungal activity of Ketoconazole, Zinc Pyrithione, and Ciclopirox-olamine against *Pityrosporum ovale*. A diffusion assay for cultures in solid media. **Journal of the European Academy of Dermatology and Venerology** 7:26-29, 1996.
7. Mathov I, **Plotkin LI**, Abatangelo C, Galimberti R, Squiquera L, Leoni J. Antibodies from patients with psoriasis recognize N-acetylglucosamine terminals in glycoproteins from *Pityrosporum ovale*. **Clinical and Experimental Immunology** 105:79-83, 1996.
8. **Plotkin LI**, Mathov I, Squiquera L, Leoni J. Arachidonic acid released from epithelial cells by *Malassezia furfur* phospholipase A₂: a potential pathophysiologic mechanism. **Mycologia** 90: 163-169, 1998.
9. Cauerhff A, Polikarpov I, Mathov I, Abatangelo C, **Plotkin LI**, Goldbaum FA, Leoni J. Crystallization and preliminary diffraction studies of a human Fab μ with anti-I activity. **Protein and Peptide Letters** 5:177-180, 1998.
10. **Plotkin LI**, Sarli M, Sgarlata C, Zanchetta RJ, Plotkin H, Leoni J, Mathov I. Niveles séricos de la proteína transportadora del factor de crecimiento insulino-símil-3 (IGFBP-3) y del factor de crecimiento insulino-símil-I (IGF-I) en pacientes osteoporóticas. (Serum levels of insulin-like growth factor binding protein-3 (IGBP-3) and insulin-like growth factor-1 (IGF-1) in osteoporotic patients). **Revista Argentina de Endocrinología y Metabolismo** 35: 67-75, 1998.

11. **Plotkin LI**, Weinstein RS, Parfitt AM, Roberson P, Manolagas SC, Bellido T. Prevention of osteocyte and osteoblast apoptosis by bisphosphonates and calcitonin. **Journal of Clinical Investigation** 104: 1363-1374, 1999. A photomicrograph from this paper was selected for the cover.
12. Kousteni S, Bellido T, **Plotkin LI**, O'Brien CA, Bodenner DL, Han L, Han K, DiGregorio GB, Katzenellenbogen JA, Katzenellenbogen BS, Roberson PK, Weinstein RS, Jilka RL, Manolagas SC. Non-genotropic, sex-nonspecific signaling through the estrogen or androgen receptors: dissociation from transcriptional activity. **Cell** 104:719-730, 2001.
13. Mathov I, **Plotkin LI**, Sgarlata C, Leoni J, Bellido T. ERKs and calcium channels are involved in the proliferative effect of bisphosphonates on osteoblastic cells *in vitro*. **Journal of Bone and Mineral Research** 16:2050-2056, 2001.
14. **Plotkin LI**, Bellido T. Bisphosphonate-induced, hemichannel-mediated, anti-apoptosis through the Src/ERK pathway: a gap junction-independent action of connexin43. **Cell Adhesion and Communication** 8:377-382, 2001.
15. **Plotkin LI**, Manolagas SC, Bellido T. Transduction of cell survival signals by connexin43 hemichannels. **Journal of Biological Chemistry** 277:8648-8657, 2002.
16. Kousteni S, Chen J-R, Bellido T, Han L, Ali AA, O'Brien CA, **Plotkin LI**, Fu Q, Mancino AT, Wen Y, Vertino AM, Powers CC, Stewart SA, Ebert R, Parfitt AM, Weinstein RS, Jilka RL, Manolagas SC. Dissociation of skeletal from reproductive effects of sex steroids by activation of non-genotropic signals. **Science** 298:843-846, 2002.
17. Kousteni S, Han L, Chen JR, Almeida M, **Plotkin LI**, Bellido T, Manolagas SC. Kinase-mediated regulation of common transcription factors accounts for the bone protective effect of sex steroids. **Journal of Clinical Investigation** 111:1651-1664, 2003.
18. Ahuja SS, Zhao S, Bellido T, **Plotkin LI**, Sato N, Bonewald L. CD40Ligand blocks apoptosis induced by tumor necrosis factor α , glucocorticoid and etoposide in the osteocyte-like cell line MLO-Y4. **Endocrinology** 144:1761-1769, 2003.
19. Bellido T, Ali AA, **Plotkin LI**, Fu Q, Gubrij I, Roberson PK, Weinstein RS, O'Brien CA, Manolagas SC, Jilka RL. Proteasomal degradation of Runx2 shortens PTH-induced anti-apoptotic signaling in osteoblasts: a putative explanation for why intermittent administration is needed for bone anabolism. **Journal of Biological Chemistry** 278:50259-50272, 2003.
20. O'Brien CA, Jia D, **Plotkin LI**, Bellido T, Powers CC, Stewart SA, Manolagas SC, Weinstein RS. Glucocorticoids act directly on osteoblasts and osteocytes to induce their apoptosis and reduce bone formation and strength. **Endocrinology** 145:1835-1843, 2004.

21. Manolagas SC, Kousteni S, Chen JR, Schuller M, **Plotkin LI**, Bellido T. Kinase-mediated transcription, activators of nongenotropic estrogen-like signaling (ANGELS), and osteoporosis: a different perspective on the HRT dilemma. **Kidney International Supplement** S41-49, 2004.
22. Chen J-R, **Plotkin LI**, Aguirre JI, Han L, Jilka RL, Kousteni S, Bellido T, Manolagas S. Transient versus sustained phosphorylation and nuclear accumulation of ERKs underlie anti- versus pro-apoptotic effects of estrogens. **Journal of Biological Chemistry** 280:4632-4638, 2005.
23. **Plotkin LI**, Aguirre JI, Kousteni S, Manolagas SC, Bellido T. Bisphosphonates and estrogens inhibit osteocyte apoptosis via distinct molecular mechanisms downstream of ERK activation. **Journal of Biological Chemistry** 280:7317-7325, 2005.
24. **Plotkin LI**, Mathov I, Aguirre JI, Parfitt AM, Manolagas SC, Bellido T. Mechanical stimulation prevents osteocyte apoptosis: Requirement of integrins, Src kinases and ERKs. **American Journal of Physiology, Cell Physiology** 289:C633-C643, 2005.
25. Bellido T, Ali AA, Gubrij I, **Plotkin LI**, Fu Q, O'Brien CA, Manolagas SC, Jilka RL. Chronic elevation of PTH in mice reduces expression of sclerostin by osteocytes: a novel mechanism for hormonal control of osteoblastogenesis. **Endocrinology** 146:4577-4583, 2005.
26. Aguirre JI, **Plotkin LI**, Stewart SA, Weinstein RS, Parfitt AM, Manolagas SC, Bellido T. Osteocyte apoptosis is induced by weightlessness in mice and precedes osteoclast recruitment and bone loss. **Journal of Bone and Mineral Research** 21:605-615, 2006 (**TITLE ON COVER**).
27. **Plotkin LI**, Manolagas SC, Bellido T. Dissociation of the pro-apoptotic effects of bisphosphonates on osteoclasts from their anti-apoptotic effects on osteoblasts/osteocytes with novel analogs. **Bone** 39:443-452, 2006 (**TITLE ON COVER**).
28. **Plotkin LI**, Manolagas SC, Bellido T. Glucocorticoids induce osteocyte apoptosis by blocking focal adhesion kinase-mediated survival: Evidence for inside-out signaling leading to anoikis. **Journal of Biological Chemistry**, 282:24120-24130, 2007.
29. Aguirre JI, **Plotkin LI**, Gortazar AR, Martin-Millan M, O'Brien CA, Manolagas SC, Bellido T. A novel ligand-independent function of the estrogen receptor is essential for osteocyte and osteoblast mechanotransduction. **Journal of Biological Chemistry** 282:25501-25508, 2007.
30. Almeida M, Han L, Martin-Millan M, **Plotkin LI**, Stewart SE, Roberson PK, Kousteni S, O'Brien CA, Bellido T, Parfitt AM, Weinstein RS, Jilka RL, Manolagas SC. Skeletal involution by age-associated oxidative stress and its acceleration by loss of sex steroids. **Journal of Biological Chemistry** 282:27285-27297, 2007.

31. **Plotkin LI**, Lezcano V, Thostenson J, Weinstein RS, Manolagas SC, Bellido T. Connexin 43 is required for the anti-apoptotic effect of bisphosphonates on osteocytes and osteoblasts *in vivo*. **Journal of Bone and Mineral Research** 23:1712-1721, 2008. Featured in a commentary by Dr. Roberto Civitelli (**Journal of Bone and Mineral Research** 23:1709-1711).
32. O'Brien CA, **Plotkin LI**, Galli C, Goellner JJ, Gortazar AR, Allen MR, Robling A, Bouzsein M, Schipani E, Turner CH, Jilka RL, Weinstein RS, Manolagas SC, Bellido T. Control of bone mass and remodeling by PTH receptor signaling in osteocytes. **PLoS ONE** 3(8): e2942, 2008. Featured as "Not to be missed" in IBMS BoneKEy 2008 Sep 1 doi:10.1138/20080334.
33. **Plotkin LI**, Bivi N, Bellido T. A bisphosphonate that does not affect osteoclasts prevents osteoblast and osteocyte apoptosis and the loss of bone strength induced by glucocorticoids in mice. **Bone** 49:122-127, 2011.
34. Rhee Y, Allen MR, Condon K, Lezcano V, Ronda A, Galli C, Olivos N, Passeri G, O'Brien CA, Bivi N, **Plotkin LI**, Bellido T. PTH receptor signaling in osteocytes governs periosteal bone formation and intra-cortical remodeling: divergent role of sclerostin. **Journal of Bone and Mineral Research** 26:1035-1046, 2011. Featured as "Not to be missed" in IBMS BoneKEy 2011 May 1 doi:10.1138/20110509.
35. Childress P, Philip BK, Robling A, Bruzzaniti A, Kacena M, Bivi N, **Plotkin LI**, Heller H, Bidwell JP. Nmp4/CIZ suppresses the response of bone to anabolic parathyroid hormone by regulating both osteoblasts and osteoclasts. **Calcified Tissue International** 89:74–89, 2011.
36. Bivi N, Lezcano V, Romanello M, Bellido T, **Plotkin LI**. Connexin43 interacts with β arrestin: a pre-requisite for osteoblast survival induced by parathyroid hormone. **Journal of Cellular Biochemistry** 112:2920-2930, 2011. Featured as "Not to be missed" in IBMS BoneKEy 2011 Jul 1 doi:10.1138/20110518.
37. Rhee Y, Farrow E, Bivi N, Lezcano V, **Plotkin LI**, White KE, Bellido T. Parathyroid hormone receptor signaling in osteocytes increases the expression of fibroblast growth factor-23 *in vitro* and *in vivo*. **Bone** 49:636-643, 2011.
38. Bivi N, Condon K, Allen MR, Farlow N, Passeri G, Rhee Y, Bellido T, **Plotkin LI**. Cell autonomous requirement of connexin 43 for osteocyte survival: consequences for endocortical resorption and periosteal bone formation. **Journal of Bone and Mineral Research** 27:374-389, 2012. Featured as "Not to be missed" in IBMS BoneKEy 2011 Nov 1 doi:10.1138/20110538.
39. Tu X, Rhee Y, Condon K, Bivi N, Allen MR, Dwyer D, Stolina M, Turner CH, Robling AG, **Plotkin LI**, Bellido T. *Sost* downregulation and local Wnt signaling are required for the osteogenic response to mechanical loading. **Bone** 50:209-217, 2012.
40. Turek J, Ebetino FH, Lundy MW, Sun S, Kashemirov BA, McKenna CE, Gallant

- MA, **Plotkin LI**, Bellido T, Russell RGG, Burr DB, Allen MR. Bisphosphonate binding affinity affects drug distribution in both intracortical and trabecular bone of rabbits. **Calcified Tissue International** 90:202-210, 2012.
41. Lezcano V, Bellido T, **Plotkin LI**, Boland R, Morelli S. Role of connexin 43 in the mechanism of action of alendronate: dissociation of anti-apoptotic and proliferative signaling pathways. **Archives of Biochemistry and Biophysics** 518: 95-102, 2012.
 42. Bivi N, Nelson M, Faillace M, Li J, Miller LM, **Plotkin LI**. Deletion of Cx43 from osteocytes results in defective bone material properties and decreased strength in cortical bone. **Calcified Tissue International** 91:215-224, 2012.
 43. Gortazar AR, Martin-Millan M, Bravo B, **Plotkin LI**, Bellido T. Crosstalk between caveolin1/ERKs and LRP5/6/ β -catenin survival pathways in mechanotransduction in osteocytes. **Journal of Biological Chemistry** 288:8168-8175, 2013.
 44. Bivi N, Pacheco-Costa R, Brun LR, Murphy TR, Farlow NR, Robling AG, Bellido T, **Plotkin LI**. Deletion of Cx43 selectively from osteocytes increases the osteogenic response to ulna loading in mice. **Journal of Orthopaedic Research** 31:1075-1081, 2013.
 45. Rhee Y, Lee E-Y, Lezcano V, Ronda AC, Allen MR, **Plotkin LI**, Bellido T. Resorption controls bone anabolism driven by PTH receptor signaling in osteocytes. **Journal of Biological Chemistry** 288:29809-29820, 2013.
 46. Pacheco-Costa R, Hassan I, Reginato RD, Davis HM, Bruzzaniti A, Allen MR, **Plotkin LI**. High Bone Mass in Mice Lacking Cx37 Due to Defective Osteoclast Differentiation. **Journal of Biological Chemistry** 289:8508-8520, 2014.
 47. Lezcano V, Bellido T, **Plotkin LI**, Boland R, Morelli S. Osteoblastic protein tyrosine phosphatases inhibition and connexin 43 phosphorylation by alendronate. **Experimental Cell Research** 324:30-9, 2014.
 48. Ben-Awadh A, Delgado-Calle J, Tu X, Kuhlenschmidt K, Allen MR, **Plotkin LI**, Bellido T. Parathyroid hormone receptor signaling induces bone resorption in the adult skeleton by directly regulating the RANKL gene in osteocytes. **Endocrinology** 155:2797-2809, 2014.
 49. Sato AY, Tu X, McAndrews KA, **Plotkin LI**, Bellido T. Prevention of glucocorticoid induced-apoptosis of osteoblasts and osteocytes by protecting against endoplasmic reticulum (ER) stress in vitro and in vivo in female mice. **Bone** 73:60-68, 2014.
 50. Pacheco-Costa R, Freitas-Campos J, Katchburian E, Medeiros V, Bonciani-Nader H, Nonaka KO, **Plotkin LI**, Reginato R. Modifications in bone matrix of estrogen-deficient rats treated with intermittent PTH. **BioMed Research International** dx.doi.org/10.1155/2015/454162, 2015.

51. Tu X, Delgado-Calle, J, Condon KW, Maycas-Cepeda, M, Zhang H, Carlesso N, Taketo MM, Burr DB, **Plotkin LI**, Bellido T. Osteocytes mediate the anabolic actions of canonical Wnt/ β catenin signaling in bone. **Proceedings of the National Academy of Science of the United States of America** 112:E478-E486, 2015.
52. **Plotkin LI**, Gortazar AR, Davis HM, Condon KW, Gabilondo H, Maycas M, Allen MR, Bellido T. Inhibition of osteocyte apoptosis prevents the increase in osteocytic RANKL but it does not stop bone resorption or the loss of bone induced by unloading. **Journal of Biological Chemistry**. 290:18934-18942, 2015.
53. Pacheco-Costa R, Davis HM, Sorenson C, Hon MC, Hassan I, Reginato RD, Allen MR, Bellido T, **Plotkin LI**. Defective cancellous bone structure and abnormal response to PTH in cortical bone of mice lacking Cx43 cytoplasmic C-terminus domain. **Bone** 81:632-643, 2015.
54. Pacheco-Costa R, Davis HM, Katchburian E, Atkinson EG, **Plotkin LI**, Reginato RD. Osteocytic connexin 43 is not required for the increase in bone mass induced by intermittent PTH administration in male mice. **Journal of Musculoskeletal and Neuronal Interactions** 16:47-57, 2016.
55. Delgado-Calle J, Anderson A, Cregor MD, Hiasa M, Chirgwin JM, Carlesso N, Yoneda T, Mohammad KS, **Plotkin LI**, Roodman GD, Bellido T. Bidirectional Notch signaling and osteocyte-derived factors drive tumor cell proliferation and bone destruction in multiple myeloma. **Cancer Research** 76:1089-1010, 2016.
56. Hammond MA, Bernam AG, Pacheco-Costa R, Davis HM, **Plotkin LI**, Wallace JM. Removing or truncating connexin 43 in murine osteocytes alters cortical geometry, nanoscale morphology, and tissue mechanics in the tibia. **Bone** 88:85-91, 2016.
57. Sato AY, Cregor M, Delgado-Calle J, Condon KW, Allen MR, Peacock M, **Plotkin LI**, Bellido T. Protection from Glucocorticoid-Induced Osteoporosis by Anti-Catabolic Signaling in the Absence of Sost/Sclerostin. **Journal of Bone and Mineral Research** 10:1791-1802, 2016.
58. **Plotkin LI**, Gortazar AR, Bellido T. β -arrestin/connexin 43 complex anchors ERKs outside the nucleus: a pre-requisite for bisphosphonate anti-apoptotic effect mediated by Cx43/ERK in osteocytes. **Actualizaciones en Osteología** 12:11-20, 2016.
59. Pellegrini GG, Morales CC, Wallace TC, **Plotkin LI**, Bellido T. Avenanthramides prevent osteoblast and osteocyte apoptosis and induce osteoclast apoptosis in vitro in an Nrf2-independent manner. **Nutrients**, 8:423, 2016.
60. Delgado-Calle J, Tu X, Pacheco-Costa R, McAndrews K, Edwards R, Pellegrini G, Kuhlenschmidt K, Olivos N, Robling A, Peacock M, **Plotkin LI**, Bellido T. Control of Bone Anabolism in Response to Mechanical Loading and PTH by Distinct

- Mechanisms Downstream of the PTH Receptor. **Journal of Bone and Mineral Research** 32:522-535, 2017.
61. Maycas M, McAndrews KA, Sato AY, Pellegrini GG, Brown DM, Allen MR, **Plotkin LI**, Gortazar AR, Esbrit P, Bellido T. PTHrP-Derived Peptides Restore Bone Mass and Strength in Diabetic Mice: Additive Effect of Mechanical Loading. **Journal of Bone and Mineral Research** 32:486-497, 2017.
 62. Pacheco-Costa R, Kadakia JR, Atkinson EG, Wallace JM, **Plotkin LI**, Reginato RD. Connexin37 deficiency alters organic bone matrix, cortical bone geometry, and increases Wnt/ β -catenin signaling. **Bone**, 97:105–113, 2017.
 63. Sato AY, Richardson D, Cregor M, Davis HM, Au ED, McAndrews K, Zimmers TA, Organ JM, Peacock M, **Plotkin LI**, Bellido T. Glucocorticoids induce bone and muscle atrophy by tissue-specific mechanisms upstream of E3 ubiquitin ligases. **Endocrinology**, 158:664-677, 2017.
 64. Maycas M, Portolés MT, Matesanz MC, Buendía I, Linares J, Feito MJ, Arcos D, Vallet-Regí M, **Plotkin LI**, Esbrit P, Gortázar AR. High glucose alters the secretome of mechanically stimulated osteocyte-like cells affecting osteoclast precursor recruitment and differentiation. **Journal of Cellular Physiology** 232:3611-3621, 2017.
 65. Davis HM, Pacheco-Costa R, Atkinson EG, Brun LR, Gortazar AR, Harris J, Hiasa M, Bolarinwa SA, Yoneda T, Ivan M, Bruzzaniti A, Bellido T, **Plotkin LI**. Disruption of the Cx43/miR21 pathway leads to osteocyte apoptosis and increased osteoclastogenesis with aging. **Aging Cell** 16:551-563, 2017.
 66. Delgado-Calle J, Anderson J, Cregor M, Condon K, Kuhstoss S, **Plotkin LI**, Bellido T, Roodman GD. Genetic Deletion of Sost or Pharmacological Inhibition of Sclerostin Prevent Multiple Myeloma-induced Bone Disease without Affecting Tumor Growth. **Leukemia** 31:2686-2694, 2017.
 67. Shao Y, Hernandez-Buquer S, Childress P, Stayrook KR, Alvarez MB, Davis H, **Plotkin LI**, He Y, Condon KW, Burr DB, Warden SJ, Robling AG, Yang F-C, Wek RC, Allen MR, Bidwell JP. Improving Combination Osteoporosis Therapy In a Preclinical Model of Heightened Osteoanabolism. **Endocrinology** 158:2722-2740, 2017.
 68. Eaton MS, Weinstein N, Newby JB1, Plattes MM, Foster HE, Arthur JW, Ward TD, Shively SR, Shor R, Nathan J, Davis HM, **Plotkin LI**, Wauson EM, Dewar BJ, Broege A, Lowery JW. Loss of the nutrient sensor TAS1R3 leads to reduced bone resorption. **J Physiol Biochem** 74:3-8, 2017.
 69. Atkinson EG, Marcial A, Sanchez S, Porter C, **Plotkin LI**. MLO-Y4 osteocytic cell clones express distinct gene expression patterns characteristic of different stages of osteocyte differentiation. **Actualizaciones en Osteología** 13:207-213, 2017.

70. Davis HM, Aref MW, Aguilar-Perez A, Pacheco-Costa R, Allen K, Valdez S, Herrera C, Atkinson EG, Mohammad A, Lopez D, Harris MA, Harris SE, Allen MR, Bellido T, **Plotkin LI**. Cx43 overexpression in osteocytes prevents osteocyte apoptosis and preserves cortical bone quality in aging mice. **Journal of Bone and Mineral Research Plus** 2:206-216, 2018. Included in the 2018 top-cited articles list for the journal
71. Ansari SA, Jalali R, **Plotkin LI**, Bronckers A, DenBesten P, Zhang Y, Durlacher R, de Lange J, Rozema J. The importance of Connexin 43 in enamel development and mineralization. **Frontiers in Physiology, Craniofacial Biology and Dental Research** doi.org/10.3389/fphys.2018.00750, 2018.
72. Pacheco-Costa R, Davis HM, Atkinson EG, Dilley JE, Byiringiro I, Aref MW, Allen MR, Bellido T, **Plotkin LI**. Reversal of loss of bone mass in old mice treated with mefloquine. **Bone** 114:22-31, 2018.
73. Huot JR, Essex AL, Gutierrez M, Barreto R, Wang M, Waning DL, **Plotkin LI**, Bonetto A. Chronic treatment with multi-kinase inhibitors differentially affects skeletal and cardiac muscles. **Cancers** 11(4). pii: E571. doi: 10.3390/cancers11040571, 2019.
74. Davis HM, Essex A, Valdez S, Aref MW, Deosthale P, Allen MR, Bonetto A, **Plotkin LI**. Short-term pharmacologic RAGE inhibition differentially effects bone and skeletal muscle in middle-aged mice. **Bone** 124:89-102, 2019.
75. Davis HM, Valdez S, Gomez L, Malicky P, White FA, Suble MA, Windle JJ, Bidwell JP, Bruzzaniti A, **Plotkin LI**. High mobility group box1 (HMGB1) protein regulates osteoclastogenesis through direct actions on osteocytes and osteoclasts in vitro. **Journal of Cellular Biochemistry**, 120:16741-16749, 2019.
76. Sato A, Cregor M, McAndrews K, Li T, Condon K, **Plotkin LI**, Bellido T. Glucocorticoid-induced bone fragility is prevented by blocking Pyk2/anoikis signaling. **Endocrinology**, 160:1659-1673, 2019.
77. Saedi AA, Bermeo A, **Plotkin LI**, Myers D, Duque G. Palmitate induces lipotoxicity in osteocytes. **Bone**, 127:353-359, 2019.
78. Aguilar-Perez A#, Pacheco-Costa R#, Atkinson EG, Deosthale P, Davis HM, Essex AL, Dilley JE, Gomez L, Rupert JE, Zimmers TA, Thompson RJ, Allen MR, **Plotkin LI**. Age- and sex-dependent role of osteocytic pannexin1 on bone and muscle mass and strength. **Scientific Reports**, doi: 10.1038/s41598-019-50444-1 SREP-19-11533, 2019.
79. Davis HM, Deosthale PJ, Pacheco-Costa R, Essex AL, Atkinson EG, Aref MW, Dilley JE, Bellido T, Ivan M, Allen MR, **Plotkin LI**. Osteocytic miR21 deficiency improves bone strength independent of sex despite having sex divergent effects on osteocyte viability and bone turnover. **FEBS Journal**, 287:941–963, 2020.

80. Essex AL, Pin F, Huot JR, Bonewald LF, **Plotkin LI**, Bonetto A. Bisphosphonate treatment ameliorates chemotherapy-induced bone and muscle abnormalities in young mice. **Frontiers in Endocrinology, section Bone Research** 10:809. doi.org/10.3389/fendo.2019.00809, 2019.
81. Powell KM, Brown AP, Skaggs CG, Pulliam AN, Berman AG, Deosthale P, **Plotkin LI**, Allen MR, Williams DR, Wallace, JM. 6'-Methoxy Raloxifene-analog enhances mouse bone properties with reduced estrogen receptor binding, **Bone Reports**, <https://doi.org/10.1016/j.bonr.2020.100246>, 2020.

INVITED REVIEWS IN RESEARCH

1. Plotkin H, **Plotkin LI**, Plotkin R. Acciones fisiológicas de la proteína relacionada con la PTH (PTHrP) (Physiologic actions of the PTH related protein (PTHrP)). **Revista Argentina de Endocrinología y Metabolismo** 35: 169-178, 1998.
2. Plotkin H, **Plotkin LI**, Plotkin R. Use of bisphosphonates for treatment of patients with juvenile forms of osteoporosis. **Osteology** 3:184-187, 2000.
3. Manolagas SC, Jilka RL, Kousteni S, Bellido T, Weinstein RS, O'Brien CA, **Plotkin LI**, Han L. Letter in response to Windahl et al (Journal of Clinical Investigation, 116:2500-2509, 2006). **Journal of Clinical Investigation** 116:2834, 2006.
4. Bellido T and **Plotkin LI**. Prevention of osteocyte and osteoblast apoptosis by bisphosphonates: a survival pathway mediated by Cx43 hemichannels and extracellular signal-regulated kinase activation, independently of gene transcription. **Actualizaciones en Osteología** 2:131-136, 2006.
5. Turner CA, Warden SJ, Bellido T, **Plotkin LI.**, Kumar N, Jasiuk I, Danzig J, Robling AG. Mechanobiology of the skeleton. **Science Signaling** 2:pt3, 2009.
6. **Plotkin LI**. Bisphosphonates, connexins and apoptosis of osteocytes and osteoblasts: a novel mechanism of action with therapeutic potential. **Actualizaciones en Osteología** 6:16-23, 2010.
7. **Plotkin LI**. Connexin 43 and bone: not just a gap junction protein. **Actualizaciones en Osteología** 7:79-90, 2011.
8. Bellido T, **Plotkin LI**. Novel actions of bisphosphonates in bone: Preservation of osteoblast and osteocyte viability. **Bone** 49:50-55, 2011.
9. **Plotkin LI.**, Bellido T. Beyond gap junctions: Connexin43 and bone cell signaling. **Bone** 52:157-166, 2013.
10. **Plotkin LI**. Apoptotic osteocytes and the control of targeted bone resorption. **Current Osteoporosis Reports** 12:121-126, 2014.
11. **Plotkin LI**. Connexin 43 hemichannels and intracellular signaling in bone cells. **Frontiers in Physiology** 5:1-8, 2014.

12. **Plotkin LI.** Análisis de las modificaciones epigenéticas en células óseas: ¿son los osteoblastos aislados de hueso un buen modelo para estudiar cambios en la metilación del ADN? **Revista de Osteoporosis y Metabolismo Mineral**, 6:33-34, 2014.
13. **Plotkin LI,** Bellido T. Comment on Osteocytes: Masters Orchestrators of Bone. **Calcified Tissue International**, 95:382-383, 2014.
14. **Plotkin LI,** Speacht T, Donahue HJ. Cx43 and mechanotransduction in bone. **Current Osteoporosis Reports** 13:67-72, 2015.
15. **Plotkin LI,** Stains JP. Connexins and pannexins in the skeleton: gap junctions, hemichannels and more. **Cellular and Molecular Life Sciences** 72:2853-2867, 2015.
16. Davis H, **Plotkin LI.** MicroRNAs and bone biology: summary of microRNA-related abstracts presented at the 2015 Annual Meeting of the American Society for Bone and Mineral Research. **Actualizaciones en Osteología** 11:251-256, 2015.
17. **Plotkin LI,** Laird DW, Amedee, J. Role of connexins and pannexins during ontogeny, regeneration, and pathologies of bone. **BioMed Central - Cell Biology**, 17:29-38, 2016.
18. **Plotkin LI,** Bellido T. Osteocytic signaling pathways as therapeutic targets for bone fragility. **Nature Reviews Endocrinology**, 12:593-605, 2016.
19. **Plotkin LI.** Efectos divergentes del factor de crecimiento endotelial vascular, VEGF y el fragmento N-terminal de la proteína relacionada con la parathormona, PTHrP en células madre mesenquimales derivadas de tejido adiposo humano. Editorial for **Revista de Osteoporosis y Metabolismo Mineral**, 9:3-4, 2017.
20. **Plotkin LI,** Pacheco-Costa R, Davis HM. microRNAs and connexins in bone: interaction and mechanisms of delivery. **Current Molecular Biology Reports** 3:63-70, 2017.
21. **Plotkin LI,** Davis HM, Cisterna BA, Saez JC. Connexins and pannexins in bone and skeletal muscle. **Current Osteoporosis Reports** 15:326-334, 2017.
22. Davis HM, Pacheco-Costa R, **Plotkin LI.** Response to R. L. Nevin "Considerations in the repurposing of mefloquine for prevention and treatment of osteoporosis". **Bone** 146:306, 2018.
23. **Plotkin LI,** Davis, HM. MicroRNA regulation in osteocytes. **MicroRNAs in Skeletal Development** section, **Current Molecular Biology Reports** (A Delany, Editor, A van Wijnen, Editor in Chief) 4:191-197, 2018.
24. **Plotkin LI,** Davis HM, Essex AL. RAGE signaling in musculoskeletal biology. **Skeletal Biology and Regulation** Section in **Current Osteoporosis Reports**

- section, **Current Osteoporosis Reports** (M Forwood and A Robling, Section Editors, D Burr, Editor in Chief) 17:16-25, 2019.
25. **Plotkin LI**, Buvinic S, Balanta-Melo J. *In vitro* and *in vivo* studies using non-traditional bisphosphonates. **Bone** doi: 10.1016/j.bone.2020.115301, 2020.

BOOK CHAPTERS IN RESEARCH

1. Bellido T, **Plotkin LI**. Detection of apoptosis of bone cells in vitro. *In Osteoporosis*. J.J. Westendorf, editor. Humana Press, 51-75, 2008.
2. Jilka RL, Bellido T, Almeida M, **Plotkin LI**, O'Brien CA, Weinstein RS, Manolagas SC. Apoptosis of Bone Cells. *In Principles of Bone Biology* (J.P. Bilezikian, L.G. Raisz, and T.J. Martin, editors), Academic Press, 237-261, 2008.
3. Bullock WA, **Plotkin LI**, Robling AG, Pavalko FM. Mechanotransduction in bone formation/maintenance. *In Primer on the Metabolic Bone Diseases and Disorders of Mineral Metabolism, 9th Edition*, 2019.
4. **Plotkin LI**, Davis, HM. Role of connexins and pannexins in bone and muscle mass and function. *In Osteosarcopenia - Translational Research in Bone, Muscle and Fat Interactions* (G. Luque, editor), Springer, 2019.
5. **Plotkin LI**, Bruzzaniti A. Molecular signaling in bone cells: regulation cell differentiation and survival. *In Advances in Protein Chemistry and Structural Biology - Intracellular signaling proteins* (R. Donev, Editor). Elsevier, 137-281, 2019.
6. **Plotkin LI**, and Bonetto A. Connexin mediated signaling. *In The Encyclopedia of Bone Biology* (M. Zaidi, Editor). Elsevier, doi.org/10.1016/B978-0-12-801238-3.11213-9, 2019.

PUBLICATIONS IN TEACHING

1. Bellido T, **Plotkin LI**, Bruzzaniti A. Bone Cells. *In Basic and Applied Bone Biology* (D.B. Burr and Allen MR, editors), Elsevier, 27-46, 2013.
2. **Plotkin LI**, Bivi N. Local regulation of bone cell function. *In Basic and Applied Bone Biology* (D.B. Burr and Allen MR, editors), Elsevier, 47-74, 2013.
3. Bellido T, **Plotkin LI**, Bruzzaniti A. Bone Cells. *In Basic and Applied Bone Biology* (D.B. Burr and Allen MR, editors), Elsevier, 2nd edition, 37-56, 2019.
4. **Plotkin LI**, Aguilar-Perez A, Bivi N. Local regulation of bone cell function. *In Basic and Applied Bone Biology* (D.B. Burr and Allen MR, editors), Elsevier, 2nd edition, 57-84, 2019.

SPECIAL CONTRIBUTIONS

1. Cover image for **Calcified Tissue International**, July – December, 2010.
2. Imaging in Osteology series, **Actualizaciones en Osteología** 7:96, 2011.
3. Imaging in Osteology series, **Actualizaciones en Osteología** 9:84-85, 2013.

PRESENTATIONS AT SCIENTIFIC MEETINGS (* selected for oral presentation)

1. Morelli L, **Plotkin LI**, Stumpo R, Fossati CA, Leoni J, Margni RA. Monoclonal antibodies: analysis of the homogeneity in the binding site by primary interaction studies. Proceedings of the Winter Meeting of the Argentinean Society of Immunology. La Plata, Buenos Aires, Argentina, 1988.
2. Morelli L, Mathov I, **Plotkin LI**, Fossati CA, Margni RA. Effect of the presence of oligosaccharides on the binding capacity of the antibodies. Proceedings of the First Meeting of the Department of Microbiology, Immunology and Biotechnology (National University of Buenos Aires). Buenos Aires, Argentina, 1990.
3. Morelli L, **Plotkin LI**, Mathov I, Fossati CA, Margni RA. Analysis of the effect of intra and extracellular factors on the glycosilation of murine IgG1. XXXIV Joint Meeting of the Argentinean Society of Clinic Investigation and the Argentinean Society of Immunology. Mar del Plata, Buenos Aires, Argentina. *Medicina (Buenos Aires)* 50(5):408, 1990.*
4. Mathov I, **Plotkin LI**, Fossati CA, Margni RA, Leoni J. Immunochemical studies of primary interaction on murine IgG₃ monoclonal antibodies. XXXVII Joint Meeting of the Argentinean Society of Clinic Investigation and the Argentinean Society of Immunology. Mar del Plata, Buenos Aires, Argentina. *Medicina (Buenos Aires)* 52 (5):388, 1992.*
5. **Plotkin LI**, Mathov I, Fossati CA, Leoni J, Margni RA. Evidence of Fc-Fc association in secondary interaction on murine IgG₃ monoclonal antibodies. XXXVII Joint Meeting of the Argentinean Society of Clinic Investigation and the Argentinean Society of Immunology, Mar del Plata, Buenos Aires, Argentina. *Medicina (Buenos Aires)* 52 (5):445, 1992.*
6. **Plotkin LI**, Leoni J, Galimberti R, Squiquera L. Sera from patients with psoriasis react with proteins from *Pityrosporum ovale*. XXXVIII Joint Meeting of the Argentinean Society of Clinic Investigation and the Argentinean Society of Immunology, Mar del Plata, Buenos Aires, Argentina. *Medicina (Buenos Aires)*, 53 (Suppl. II):21, 1993.*
7. Abatángelo C, **Plotkin LI**, Mathov I, Leoni J. Analysis of the participation of the CDR 1 in the anti-I activity of cold-agglutinins. XXXVIII Joint Meeting of the Argentinean

Society of Clinic Investigation and the Argentinean Society of Immunology, Mar del Plata, Buenos Aires, Argentina. *Medicina (Buenos Aires)*, 53 (Suppl. II):85, 1993.*

8. Mathov I, **Plotkin LI**, Fossati CA, Margni RA, Leoni J. Effect of the differential glycosilation in the immunochemical and functional properties of murine IgG₃ monoclonal antibodies. Proceedings of the III Latin American Congress of Immunology. Santiago, Chile, 1993.
9. Squiquera L, **Plotkin LI**, Galimberti R, Leoni J. Sera from patients with psoriasis react with a 120 kD soluble protein from *Pityrosporum ovale* periplasma. 54th Annual Meeting of the Society of Investigative Dermatology. Washington D.C., USA. *Journal of Investigative Dermatology* 100 576, 1993.
10. Agatangelo C, **Plotkin LI**, Marcote V, Leoni J. Characterization of a public idiotype in cold-agglutinins anti-I. Proceedings of the Second Meeting of the Department of Microbiology, Immunology and Biotechnology (National University of Buenos Aires). Buenos Aires, Argentina, 1994.
11. **Plotkin LI**, Squiquera L, Galimberti R, Leoni J. Analysis of the immune response against *Pityrosporum ovale* in patients with psoriasis. Proceedings of the Second Meeting of the Department of Microbiology, Immunology and Biotechnology (National University of Buenos Aires). Buenos Aires, Argentina, 1994.
12. Agatangelo C, **Plotkin LI**, Mathov I, Marcote V, Leoni J. Characterization of a public idiotype in monoclonal cold-agglutinins with anti-I specificity. XXXIX Joint Meeting of the Argentinean Society of Clinic Investigation and the Argentinean Society of Immunology, Mar del Plata, Buenos Aires, Argentina. *Medicina (Buenos Aires)* 54 (5/2):506, 1994.*
13. Mathov I, **Plotkin LI**, R. Margni, Leoni J. Acquisition of the precipitating capacity through the elimination of carbohydrates molecules from murine IgG₃ monoclonal antibodies. XXXIX Joint Meeting of the Argentinean Society of Clinic Investigation and the Argentinean Society of Immunology, Mar del Plata, Buenos Aires, Argentina. *Medicina (Buenos Aires)* 54 (5/2):546, 1994.*
14. **Plotkin LI**, Leoni J, Galimberti R, Squiquera L. Serum from patients with psoriasis recognizes N-acetylglucosamine residues present in extract from *Pityrosporum ovale*. XXXIX Joint Meeting of the Argentinean Society of Clinic Investigation and the Argentinean Society of Immunology, Mar del Plata, Buenos Aires, Argentina. *Medicina (Buenos Aires)* 54 (5/2):558, 1994.*
15. Squiquera L, **Plotkin LI**, Galimberti R, Leoni J. PO120, a glycoprotein form *Pityrosporum ovale* recognized by sera from patients with psoriasis is partially digested by glucanase (lyticase). XXXIX Joint Meeting of the Argentinean Society of Clinic Investigation and the Argentinean Society of Immunology, Mar del Plata, Buenos Aires, Argentina. *Medicina (Buenos Aires)* 54 (5/2):558, 1994.*

16. Squiquera L, **Plotkin LI**, Galimberti R, Leoni J. Differentiation among species of *Malassezia (Pityrosporum)* genus by SDS-PAGE y antigenic mapping. XXXIX Joint Meeting of the Argentinean Society of Clinic Investigation and the Argentinean Society of Immunology, Mar del Plata, Buenos Aires, Argentina. *Medicina (Buenos Aires)* 54 (5/2):578, 1994.*
17. **Plotkin LI**, Leoni J, Galimberti R, Squiquera L. Sera from patients with psoriasis recognize N-acethyl-glucosamine residues in *Pityrosporum ovale* extract. 55th Annual Meeting of the Society for Investigative Dermatology. Baltimore, Maryland, USA. *Journal of Investigative Dermatology* 102:637, 1994.
18. Agatangelo C, **Plotkin LI**, Mathov I, Marcote V, Leoni J. Analysis of the participation of CDR1 in the activity of cold-agglutinins anti-I. Proceedings of the 12th European Immunology Meeting. Barcelona, Spain, 1994.
19. **Plotkin LI**, Mathov I, Leoni J, Squiquera L. *Malassezia furfur (Pityrosporum ovale)* releases factors able to induce inflammatory response in mice. Proceedings of the IV Latin American Congress of Immunology, XI Mexican Congress of Immunology, p. VIII. Zacatecas, Mexico, 1996.*
20. Mathov I, **Plotkin LI**, Squiquera L, Leoni J. *Malassezia furfur (Pityrosporum ovale)* phospholipase like secreted to the medium releases arachidonic acid from keratinocytes membranes. Proceedings of the IV Latin American Congress of Immunology, XI Mexican Congress of Immunology, p. LXIII. Zacatecas, Mexico, 1996.
21. **Plotkin LI**, Mathov I, Agatangelo C, Squiquera L, Leoni J. *Malassezia furfur (Pityrosporum ovale)* releases factors that can induce inflammatory response in mice. Proceedings of the III Meeting of the Department of Microbiology, Immunology and Biotechnology (National University of Buenos Aires). Buenos Aires, Argentina, 1996.
22. Mathov I, **Plotkin LI**, Agatangelo C, Squiquera L, Leoni J. *Malassezia furfur (Pityrosporum ovale)* releases to the medium an enzyme with phospholipase activity that can induce the release of arachidonic acid from cell membranes. Proceedings of the III Meeting of the Department of Microbiology, Immunology and Biotechnology (National University of Buenos Aires). Buenos Aires, Argentina, 1996.
23. Mathov I, **Plotkin LI**, Sgarlata C, Leoni J, Bogado C. Inhibition of the binding of the vitamin D receptor to its response element in the promoter of the parathormone gene by uremic ultrafiltrates. XXXXII Meeting of the Argentinean Society of Clinic Investigation, Mar del Plata, Buenos Aires, Argentina. *Medicina (Buenos Aires)* 57 (4):17, 1997.
24. Mathov I, **Plotkin LI**, Sgarlata C, H. Otero, Bogado C, E. Roldán, Leoni J. Effect of two bisphosphonates on the binding of rat VDR to the VDRE present in the promoter of osteocalcin y parathormone gene. XXXXII Meeting of the Argentinean Society of

Clinic Investigation, Mar del Plata, Buenos Aires, Argentina. *Medicina (Buenos Aires)* 57 (4):97-98, 1997.

25. **Plotkin LI**, Mathov I, M. Sarli, J.R. Zanchetta, H. Plotkin, Leoni J. Insulin-like growth factor binding protein-3 levels in sera from healthy and osteoporotic women. 19th Annual Meeting of the American Society for Bone and Mineral Research. Cincinnati, Ohio, USA. *Journal of Bone and Mineral Research* 12 (Suppl. 1):S339, 1997.
26. **Plotkin LI**, Mathov I, Sgarlataa C, Bogado C, E. Roldan, H. Plotkin, Leoni J. Proliferation and IGFBP-3 release in ROS 17/2.8 cells stimulated by two different bisphosphonates. 19th Annual Meeting of the American Society for Bone and Mineral Research. Cincinnati, Ohio, USA. *Journal of Bone and Mineral Research* 12 (Suppl. 1):S189, 1997.
27. **Plotkin LI**, Bellido T, Bonewald L, Papapoulos SE, Jilka RL, Manolagas SC. Bisphosphonates prevent glucocorticoid-induced apoptosis of osteocytes in vitro: a putative mechanism influencing mechanosensing. Second Joint Meeting of the American Society for Bone and Mineral Research, and the International Bone and Mineral Society, San Francisco, CA, USA. *Bone* 23 (Suppl. 5):S157, 1998.*
28. Bellido T, **Plotkin LI**, Han L, Manolagas SC, Jilka RL. PTH prevents glucocorticoid-induced apoptosis of osteoblasts and osteocytes in vitro: direct interference with a private death pathway upstream from caspase-3. Second Joint Meeting of the American Society for Bone and Mineral Research, and the International Bone and Mineral Society, San Francisco, USA. *Bone* 23 (Suppl. 5):S518, 1998.
29. Mathov I, **Plotkin LI**, Sgarlata C, Bogado C, Ambiola R Leoni J. Peptides present in serum can be the cause of secondary hyperparathyroidism in patients with renal osteodystrophy. Second Joint Meeting of the American Society for Bone and Mineral Research, and the International Bone and Mineral Society, San Francisco, CA, USA. *Bone* 23 (Suppl. 5):S456, 1998.*
30. **Plotkin LI**, Han L, Manolagas SC, Bellido T. An ERK-mediated anti-apoptotic effect of bisphosphonates, but not estrogen, on osteocytes in vitro, depends on the integrity of gap junctions: evidence for distinct signaling pathways upstream ERKs. 21st Annual Meeting of the American Society for Bone and Mineral Research. Saint Louis, MI, USA. *Journal of Bone and Mineral Research* 14 (Suppl. 1):S155, 1999.*
31. Bellido T, **Plotkin LI**, Han L, Manolagas SC. Estrogen inhibit apoptosis of osteoblasts and osteocytes through rapid (non-genomic) activation of extracellular signal-regulated kinases (ERKs). 21st Annual Meeting of the American Society for Bone and Mineral Research. Saint Louis, MI, USA. *Journal of Bone and Mineral Research* 14 (Suppl. 1):S342, 1999.
32. Ahuja S, S. Zhao, Bellido T, **Plotkin LI**, Sato N, Bonewald LF. CD40ligand (CD40L) is an anti-apoptotic factor for bone cells. 21st Annual Meeting of the American Society

for Bone and Mineral Research. Saint Louis, MI, USA. *Journal of Bone and Mineral Research* 14 (Suppl. 1):S345, 1999.

33. Mathov I, Sgarlata C, **Plotkin LI**, Leoni J, Bellido T. ERKs and calcium channels are involved in the proliferative effect of bisphosphonates in osteoblastic cells in vitro. 21st Annual Meeting of the American Society for Bone and Mineral Research. Saint Louis, MI, USA. *Journal of Bone and Mineral Research* 14 (Suppl. 1):S486, 1999.
34. **Plotkin LI**, Manolagas SC, Bellido T. Connexin-43 hemichannel opening: a requirement for bisphosphonate-mediated prevention of osteocyte apoptosis. 22nd Annual Meeting of the American Society for Bone and Mineral Research. Toronto, Canada. Toronto, Canada. *Journal of Bone and Mineral Research* 15 (Suppl. 1):S172, 2000.*
35. Bellido T, **Plotkin LI**, Manolagas SC. Convergence of mechanical, hormonal and pharmacotherapeutic signals of osteocyte survival on the extracellular signal regulated kinases (ERKs) pathway. 22nd Annual Meeting of the American Society for Bone and Mineral Research. Toronto, Canada. *Journal of Bone and Mineral Research* 15 (Suppl. 1):S375, 2000.
36. Kousteni S, **Plotkin LI**, Han L, Han K, Bodenner DL, Bellido T, Manolagas SC. The estrogen receptor (α or β) or the androgen receptor transmit anti-apoptotic signals with similar efficiency irrespective of whether the ligand is an estrogen or an androgen: novel evidence for “unisex” receptor activity. 22nd Annual Meeting of the American Society for Bone and Mineral Research. Toronto, Canada. *Journal of Bone and Mineral Research* 15 (Suppl. 1):S195, 2000.*
37. O’Brien CA, Swain FL, Crawford JA, **Plotkin LI**, Manolagas SC, Weinstein RS. 11 β -hydroxysteroid dehydrogenase Type 2 (11 β -HSD2) overexpression prevents glucocorticoid-induced apoptosis of osteoblastic cells: a novel strategy for dissecting the mechanism of steroid-induced osteoporosis. 22nd Annual Meeting of the American Society for Bone and Mineral Research. Toronto, Canada. *Journal of Bone and Mineral Research* 15 (Suppl. 1):S167, 2000.*
38. **Plotkin LI**, Davis J, Civitelli R, Manolagas SC, Bellido T. Connexin43/Src interaction and Src activity link connexin43 hemichannels with the ERK pathway: mechanism of anti-apoptosis by bisphosphonates in osteocytes. 23rd Annual Meeting of the American Society for Bone and Mineral Research. Phoenix, AZ, USA. *Journal of Bone and Mineral Research* 16 (Suppl. 1):S169, 2001.*
39. Mathov I, Davis J, **Plotkin LI**, Manolagas SC, Bellido T. Integrins and Src kinases clustered in caveolae are essential components of the signalosome that mediates mechanically induced ERK activation in osteocytes. 23rd Annual Meeting of the American Society for Bone and Mineral Research. Phoenix, AZ, USA. *Journal of Bone and Mineral Research* 16 (Suppl. 1):S201, 2001.

40. Bellido T, **Plotkin LI**, Davis J, Manolagas SC, Jilka RL. Protein kinase A-dependent phosphorylation and inactivation of the pro-apoptotic protein Bad mediates the anti-apoptotic effect of PTH on osteoblastic cells. 23rd Annual Meeting of the American Society for Bone and Mineral Research. Phoenix, AZ, USA. *Journal of Bone and Mineral Research* 16 (Suppl. 1):S203, 2001.
41. Kousteni S, Bellido T, **Plotkin LI**, Han L, Weinstein RS, Jilka RL, Manolagas SC. Non-genotropic activation of MAP kinases and prevention of apoptosis by SERMs in osteoblasts/osteocytes: a property shared by hydroxytamoxifene and idoxifene, but not raloxifene. 23rd Annual Meeting of the American Society for Bone and Mineral Research. Phoenix, AZ, USA. *Journal of Bone and Mineral Research* 16 (Suppl. 1):S415, 2001.*
42. **Plotkin LI**, Bellido T. Bisphosphonate-induced, hemichannel-mediated, anti-apoptosis through the ERK pathway: a gap junction-independent action of connexin43. 31st Annual International Sun Valley Hard Tissue Workshop. Sun Valley, ID, USA, 2001. (Young investigator award).
43. **Plotkin LI**, Bellido T. Bisphosphonate-induced, hemichannel-mediated, anti-apoptosis through the Src/ERK pathway: a gap junction-independent action of connexin43. 2001 International Gap Junction Conference. Honolulu, HI, USA. 2001.*
44. **Plotkin LI**, Laska B, Manolagas SC, Bellido T. CRM1/Exportin1-mediated nuclear export is required for the pro-survival effect of bisphosphonates on osteocytes. 24th Annual Meeting of the American Society for Bone and Mineral Research. San Antonio, TX, USA. *Journal of Bone and Mineral Research* 17 (Suppl. 1):S163, 2002. (Young investigator award)
45. **Plotkin LI**, Bellido T, Ali AA, Fu Q, Gubrij I, L.K. McCauley, O'Brien CA, Manolagas SC, Jilka RL. Runx2/Cbfa1 is essential for the anti-apoptotic effect of PTH on osteoblasts. 24th Annual Meeting of the American Society for Bone and Mineral Research. San Antonio, TX, USA. *Journal of Bone and Mineral Research* 17 (Suppl. 1):S166, 2002.*
46. Bellido T, **Plotkin LI**, O'Brien CA, Manolagas SC, Jilka RL. PTH-mediated control of proteasome-mediated degradation of Runx2/Cbfa1: a pivotal determinant of the longevity of PTH-initiated anti-apoptosis signaling in osteoblastic cells. 24th Annual Meeting of the American Society for Bone and Mineral Research. San Antonio, TX, USA. *Journal of Bone and Mineral Research* 17 (Suppl. 1):S128, 2002.*
47. Kousteni S, Bellido T, Han L. **Plotkin LI**, O'Brien CA, Jilka RL, Manolagas SC. Non-genotropic regulation of CREB-, C/EBP β -, as well as Elk-1- and AP-1- mediated transcription by estrogens: downstream effects of ERK and JNK kinase modulation required for anti-apoptosis. 24th Annual Meeting of the American Society for Bone and Mineral Research. San Antonio, TX, USA. *Journal of Bone and Mineral Research* 17 (Suppl. 1):S169, 2002.*

48. **Plotkin LI**, Aguirre JI, Manolagas SC, Bellido T. Transcription-independent inhibition of caspases by C/EBP β in osteocytes: an anti-apoptotic signaling cascade uniquely activated by bisphosphonates. 25th Annual Meeting of the American Society for Bone and Mineral Research. Minneapolis, MN, USA. *Journal of Bone and Mineral Research* 18 (Suppl. 2):S5, 2003.*
49. **Plotkin LI**, Aguirre JI, Strotman B, Manolagas SC, Bellido T. Mechanical stimulation promotes osteocyte survival: requirement of nuclear targets of the Src/ERK pathway. 25th Annual Meeting of the American Society for Bone and Mineral Research. Minneapolis, MN, USA. *Journal of Bone and Mineral Research* 18 (Suppl. 2):S44, 2003.*
50. **Plotkin LI**, Laska B, Manolagas SC, Bellido T. Dissociation of the anti-apoptotic effects of bisphosphonates on osteocytes/osteoblasts from their pro-apoptotic effects on osteoclasts with novel analogs. 25th Annual Meeting of the American Society for Bone and Mineral Research. Minneapolis, MN, USA. *Journal of Bone and Mineral Research* 18 (Suppl. 2):S370, 2003.
51. Aguirre JI, **Plotkin LI**, Strotman B, L.K. McCauley, Gubrij I, Kousteni S, Manolagas SC, Bellido T. The anti-apoptotic effects of mechanical stimulation in osteoblasts/osteocytes are transduced by the estrogen receptor (ER): a novel ligand-independent function of the ER. 25th Annual Meeting of the American Society for Bone and Mineral Research. Minneapolis, MN, USA. *Journal of Bone and Mineral Research* 18 (Suppl. 2):S71, 2003.
52. Bellido T, **Plotkin LI**, Ali AA, O'Brien CA, Manolagas SC, Jilka RL. Proteasomal degradation of runx2 shortens the anti-apoptotic signal of PTH in osteoblasts: why intermittent administration is needed for bone anabolism. 25th Annual Meeting of the American Society for Bone and Mineral Research. Minneapolis, MN, USA. *Journal of Bone and Mineral Research* 18 (Suppl. 2):S40, 2003.*
53. Ali AA, **Plotkin LI**, Foote IP, Wynne RA, Bellido T, O'Brien CA, Manolagas SC, Jilka RL. Bcl-2 is a pivotal mediator of the anti-apoptotic effect of PTH on osteoblasts: evidence from RNA silencing and Bcl-2-deficient mice. 25th Annual Meeting of the American Society for Bone and Mineral Research. Minneapolis, MN, USA. *Journal of Bone and Mineral Research* 18 (Suppl. 2):S73, 2003.
54. Chen JI, **Plotkin LI**, Aguirre JI, Han L, Peng H, Kousteni S, Bellido T, Manolagas SC. Transient versus sustained activation and nuclear accumulation of ERKs underlie the anti- versus the pro-apoptotic effects of estrogens on osteoblasts/osteocytes and osteoclasts, respectively. 25th Annual Meeting of the American Society for Bone and Mineral Research. Minneapolis, MN, USA. *Journal of Bone and Mineral Research* 18 (Suppl. 2):S19, 2003.*
55. **Plotkin LI**, Dominguez LA, Vyas K, Aguirre JI, Manolagas SC, Bellido T. Glucocorticoids induce osteocyte death by blocking focal adhesion kinase survival:

evidence for inside-out signaling leading to cell detachment-induced apoptosis (anoikis). 26th Annual Meeting of the American Society for Bone and Mineral Research. Seattle, WA, USA. *Journal of Bone and Mineral Research* 19 (Suppl. 1);S20, 2004.*

56. Aguirre JI, **Plotkin LI**, Berryhill SB, Shelton RS, S.A. Steward, Vyas K, Weinstein RS, Parfitt AM, Manolagas SC, Bellido T. Increased prevalence of osteocyte apoptosis precedes osteoclastic bone resorption and the loss of bone mineral and strength induced by lack of mechanical forces in a murine model of unloading. 26th Annual Meeting of the American Society for Bone and Mineral Research. Seattle, WA, USA. *Journal of Bone and Mineral Research* 19 (Suppl. 1): S137, 2004.
57. Bellido T, Ali AA, **Plotkin LI**, Fu Q, Gubrij I, Liu X, Wynne RA, O'Brien CA, Manolagas SC, Jilka RL. Sustained, but not transient, elevation of PTH reduces SOST gene expression: evidence that osteocytes participate in the increase in osteoblast number that occurs in hyperparathyroidism. 26th Annual Meeting of the American Society for Bone and Mineral Research. Seattle, WA, USA. *Journal of Bone and Mineral Research* 19 (Suppl. 1):S43, 2004.*
58. **Plotkin LI**, Aguirre JI, Vyas K, Stewart SA, Weinstein RS, Manolagas SC, Bellido T. Cx43-floxOCN^{Cre} mice lacking Cx43 in osteoblasts and osteocytes exhibit normal bone accrual and adult peak bone mass. 27th Annual Meeting of the American Society for Bone and Mineral Research. Nashville, TN, USA. *Journal of Bone and Mineral Research* 20 (Suppl. 1):S84, 2005.
59. Aguirre JI, **Plotkin LI**, Vyas K, Stewart SA, O'Brien CA, Parfitt AM, Weinstein RS, Manolagas SC, Bellido T. Osteocyte apoptosis and the loss of bone mineral and strength induced by tail suspension in mice is entirely caused by reduced mechanical strains, whereas osteoblast apoptosis is due to endogenous glucocorticoid actions. 27th Annual Meeting of the American Society for Bone and Mineral Research. Nashville, TN, USA. *Journal of Bone and Mineral Research* 20 (Suppl. 1):S24, 2005.* (Young investigator award).
60. Aguirre JI, **Plotkin LI**, Vyas K, Kousteni S, O'Brien CA, Manolagas SC, Bellido T. The estrogen receptors (ER α and ER β) play an essential role in osteocyte mechanotransduction: Requirement of membrane localization and caveolin-1, but not DNA binding. 27th Annual Meeting of the American Society for Bone and Mineral Research. Nashville, TN, USA. *Journal of Bone and Mineral Research* 20 (Suppl. 1):S30, 2005.*
61. O'Brien CA, Fu Q, **Plotkin LI**, Bellido T, Goellner JJ, Jilka RL, Weinstein RS, Manolagas SC Transgenic expression of the diphtheria toxin receptor, otherwise known as heparin-binding EGF-like growth factor, in osteoblasts and osteocytes reduces bone mass and strength. 27th Annual Meeting of the American Society for

Bone and Mineral Research. Nashville, TN, USA. *Journal of Bone and Mineral Research* 20 (Suppl. 1):S89, 2005.

62. **Plotkin LI**, Vyas K, Gortazar AR, Manolagas SC, Bellido T. β arrestin complexes with connexin (Cx) 43 and anchors ERKs outside the nucleus: a requirement for the Cx43/ERK-mediated anti-apoptotic effect of bisphosphonates in osteocytes. 28th Annual Meeting of the American Society for Bone and Mineral Research. Philadelphia, PA, USA. *Journal of Bone and Mineral Research* 21 (Suppl. 1):S65, 2006.*
63. **Plotkin LI**, Vyas K, Aguirre JI, Stewart SA, Shelton RS, Wynne RA, Crawford JA, Warren AD, Webb W, Wiggins C, Weinstein RS, Manolagas SC, Bellido T. Deletion of connexin 43 from osteoblasts and osteocytes makes them refractory to the protective effect of bisphosphonates against glucocorticoid-induced apoptosis in mice. 28th Annual Meeting of the American Society for Bone and Mineral Research. Philadelphia, PA, USA. *Journal of Bone and Mineral Research* 21 (Suppl. 1):S291, 2006.
64. O'Brien CA, **Plotkin LI**, Vyas K, Cazer PE, Gortazar AR, Goellner JJ, Chen J, Shelton R, Weinstein RS, Schipani E, Jilka RL, Manolagas SC, Bellido T. Activation of PTH Receptor 1 specifically in osteocytes suppresses Sost expression and increases bone mass in transgenic mice. 28th Annual Meeting of the American Society for Bone and Mineral Research. Philadelphia, PA, USA. *Journal of Bone and Mineral Research* 21 (Suppl. 1):S4, 2006.
65. Boland RL, Morelli S, Santillan G, Scodelaro P, Colicheo A, de Boland AR, Vyas K, **Plotkin LI**, Bellido T. Connexin 43 is required for bisphosphonate-induced survival of osteoblastic cells but not for bisphosphonate binding. 28th Annual Meeting of the American Society for Bone and Mineral Research. Philadelphia, PA, USA. *Journal of Bone and Mineral Research* 21 (Suppl. 1):S292, 2006.
66. O'Brien CA, **Plotkin LI**, Vyas K, Galli C, Cazer P, Gortazar AR, Goellner JJ, Chen J, Shelton RS, Weinstein RS, Schipani E, Glatt V, Bouxsein M, Jilka RL, Manolagas SC, Bellido T. Activation of PTH receptor 1 specifically in osteocytes suppresses sost expression and increases bone mass in transgenic mice. 89th Annual Meeting of the Endocrine Society, Toronto, Canada, 2007.*
67. **Plotkin LI**, Vyas K, Manolagas SC, Bellido T. Glucocorticoids counteract focal adhesion kinase-mediated osteocyte survival by activating Pyk2: evidence for inside-out signaling leading to cell detachment-induced apoptosis or anoikis. 89th Annual Meeting of the Endocrine Society, Toronto, Canada, 2007.
68. **Plotkin LI**, J. Goellner, Vyas K, Shelton RS, R. A. Wynne, Weinstein RS, Manolagas SC, Bellido T. A bisphosphonate analog that lacks anti-remodeling activity prevents osteocyte and osteoblast apoptosis *in vivo*. 29th Annual Meeting of the American

Society for Bone and Mineral Research. Honolulu, HI, USA. *Journal of Bone and Mineral Research* 22 (Supl. 1):S4, 2007.*

69. **Plotkin LI**, Vyas K, Manolagas SC, Bellido T. The small GTPase RhoA and its effector kinase ROCK mediate actin cytoskeleton reorganization leading to osteocyte anoikis by glucocorticoids. 29th Annual Meeting of the American Society for Bone and Mineral Research. Honolulu, HI, USA. *Journal of Bone and Mineral Research* 22 (Supl. 1):S107, 2007.
70. I. Pavel, M. Mahmood, Vyas K, M. Whitlow, **Plotkin LI**, Manolagas SC, A. S. Biris, Bellido T. Nanoprobng osteocytic sub-cellular compartments by surface-enhanced raman spectroscopy. 29th Annual Meeting of the American Society for Bone and Mineral Research. Honolulu, HI, USA. *Journal of Bone and Mineral Research* 22 (Supl. 1):S376, 2007.
71. Gortazar AR, Aguirre JI, **Plotkin LI**, O'Brien CA, Manolagas SC, Bellido T. A new function of the estrogen receptor independent of its ligand is essential for the transduction of mechanical signals in osteocytes and osteoblasts. XII Meeting of the Spanish Society for Bone and Mineral Metabolism Research, Valencia, Spain, 2007.*
72. **Plotkin LI**, Vyas K, Aguirre JI, Weinstein RS, Manolagas SC, Bellido T. *In Vivo* requirement of Cx43 for the prevention of glucocorticoid-induced osteocyte and osteoblast apoptosis by bisphosphonates. International Gap Junction Conference, Helsingør, Denmark, 2007.
73. **Plotkin LI**, Vyas K, Gortazar AR, Manolagas SC, Bellido T. β -arrestin interacts with Cx43 and anchors ERKs in the cytoplasm: a requirement for Cx43/ERK-mediated anti-apoptosis by bisphosphonates in osteocytes. International Gap Junction Conference, Helsingør, Denmark, 2007.
74. **Plotkin LI**, Frera G, Vyas K, Manolagas SC, Bellido T. Association between Cx43 and β -arrestin is required for cAMP-dependent osteoblast survival induced by PTH. 30th Annual Meeting of the American Society for Bone and Mineral Research. Montreal, Canada. *Journal of Bone and Mineral Research* 23 (Supl. 1):S64, 2008.*
75. O'Brien CA, Galli C, **Plotkin LI**, Vyas K, Cazer P, Goellner JJ, S. Berryhill, W. Webb, Robling A, Bouxsein M, Schipani E, Turner CH, Weinstein RS, Jilka RL, Manolagas SC, Bellido T. PTH receptor signaling in osteocytes increases bone mass and the rate of bone remodeling through Wnt/LRP5-dependent and -independent mechanisms, respectively. 30th Annual Meeting of the American Society for Bone and Mineral Research. Montreal, Canada. *Journal of Bone and Mineral Research* 23 (Supl. 1):S12, 2008.*
76. Martin-Millan M, **Plotkin LI**, Vyas K, Frera G, Gortazar AR, Almeida M, Manolagas SC, Bellido T. Kinase activation and osteocyte survival promoted by mechanical stimulation require LRP5/6 signaling and beta-catenin accumulation, but not beta-

catenin/TCF-dependent transcription. 30th Annual Meeting of the American Society for Bone and Mineral Research. Montreal, Canada. *Journal of Bone and Mineral Research* 23 (Supl. 1):S400, 2008.

77. Almeida M, Ambrogini E, Martin-Millan M, Han L, Warren A, Shelton RS, **Plotkin LI**, Bellido T, O'Brien CA, Jilka RL, Weinstein RS, Manolagas SC. Induction of oxidative stress and diversion from TCF- to FOXO-mediated transcription by glucocorticoids or TNF α in osteoblastic cells. 30th Annual Meeting of the American Society for Bone and Mineral Research. Montreal, Canada. *Journal of Bone and Mineral Research* 23 (Supl. 1):S170, 2008.
78. **Plotkin LI**, Bivi N, Bellido T. Increased osteocyte apoptosis and decreased strength in cortical, but not trabecular, bone of mice lacking Cx43 in osteocytes and osteoblasts. International Gap Junction Conference, Sedona, AZ, USA, 2009.*
79. Bivi N, Lezcano V, Bellido T, **Plotkin LI**. Cx43 is required for the survival effect of PTH on osteoblasts: role of the interaction of Cx43 with β -arrestin. International Gap Junction Conference, Sedona, AZ, USA, 2009.*
80. Rhee Y, Farrow E, Lee R, Bivi N, Lezcano V, **Plotkin LI**, White KE, Bellido T FGF23 gene expression is upregulated by PTH receptor activation in osteocytes in vitro and in vivo: a parathyroid-bone link influencing the endocrine function of osteocytes. 39th IBMS Sun Valley Workshop: Musculoskeletal Biology. Sun Valley, ID, USA, 2009. (Alice L. Jee Young Investigator Award).
81. Lezcano V, Bivi N, Bellido T, **Plotkin LI**. Connexin 43 modulates the anti-apoptotic signal induced by PTH in osteoblastic cells through its interaction with β -arrestin. XXVI Annual Meeting of the Argentinean Society for Osteology and Mineral Metabolism. Buenos Aires, Argentina. *Actualizaciones en Osteología* 5:127, 2009.*
82. Bivi N, Aguirre JI, Vyas K, M. R. Allen, Bellido T, **Plotkin LI**. Increased Osteocyte apoptosis and bone resorption, and decreased strength of cortical but not trabecular bone in mice lacking Connexin43 in osteoblasts and osteocytes. 31st Annual Meeting of the American Society for Bone and Mineral Research. Denver, CO, USA. *Journal of Bone and Mineral Research* 24 (Supl. 1):S13, 2009.* (Young investigator award).
83. Bivi N, Lezcano V, Bellido T, **Plotkin LI**. Phosphorylation of Connexin43 is required for its interaction with β -arrestin and promotion of parathyroid hormone survival signaling: a scaffolding function of the cytoplasmic domain of Connexin43 that does not involve channel activity. 31st Annual Meeting of the American Society for Bone and Mineral Research. Denver, CO, USA. *Journal of Bone and Mineral Research* 24 (Supl. 1):S56, 2009.*
84. Rhee Y, Farrow E, Lee R, Bivi N, Lezcano V, **Plotkin LI**, White KE, Bellido T. FGF23 gene expression is upregulated by PTH receptor activation in osteocytes in vitro and in vivo: a parathyroid-bone link influencing the endocrine function of

osteocytes. 31st Annual Meeting of the American Society for Bone and Mineral Research. Denver, CO, USA. *Journal of Bone and Mineral Research* 24 (Supl. 1):S13, 2009.*

85. Rhee Y, Allen MR, Condon K, **Plotkin LI**, Lezcano V, Vyas K, O'Brien CA, Burr D, Bellido T. PTH receptor signaling in osteocytes governs periosteal bone formation and intra-cortical remodeling: divergent role of sost and the Wnt pathway. 31st Annual Meeting of the American Society for Bone and Mineral Research. Denver, CO, USA. *Journal of Bone and Mineral Research* 24 (Supl. 1):S78, 2009.* (Young investigator award).
86. Gortazar AR, Martín-Millán M, **Plotkin LI**, Bellido T. ERK activation and osteocyte survival induced by mechanical stimulation requires LRP5/6 expression and β -catenin accumulation, but not TCF-mediated transcription. XIV Meeting of the Spanish Society for Bone and Mineral Metabolism Research, Santander, Spain, 2009.
87. Bivi N, Farlow N, Nelson M, Condon K, J. Li, Allen MR, Bellido T, **Plotkin LI**. Cx43 deletion in osteocytes results in cortical osteocyte apoptosis, periosteal expansion and reduced bone material stiffness. 40th IBMS Sun Valley Workshop: Musculoskeletal Biology. Sun Valley, ID, USA, 2010. (Harold M. Frost Award).*
88. Bivi N, Nelson M, Lee R, Benson JD, Condon K, J. Li, Allen MR, Bellido T, **Plotkin LI**. Cx43 in Osteocytes, but not in Osteoblasts, Is Required to Preserve Osteocyte Viability, Bone Geometry and Material Stiffness. 32nd Annual Meeting of the American Society for Bone and Mineral Research. Toronto, Canada. *Journal of Bone and Mineral Research* 25 (Supl. 1):S112, 2010.
89. Rhee Y, Allen MR, **Plotkin LI**, Bivi N, Lee R, Benson JD, Lezcano V, Ronda AC, Bellido T. Resorption is an essential component of bone anabolism induced by active PTH receptor signaling in osteocytes. 32nd Annual Meeting of the American Society for Bone and Mineral Research. Toronto, Canada. *Journal of Bone and Mineral Research* 25 (Supl. 1):S13, 2010.*
90. Tu X, Rhee Y, Lee R, Benson JD, Condon K, Bivi N, **Plotkin LI**, Turner CH, Robling AG, Bellido T. Downregulation of Sost/sclerostin expression is required for the osteogenic response to mechanical loading. 32nd Annual Meeting of the American Society for Bone and Mineral Research. Toronto, Canada. *Journal of Bone and Mineral Research* 25 (Supl. 1):S87, 2010 (selected for oral poster session).
91. Bivi N, Condon K, Benson J, Farlow N, Passeri G, Bellido T, **Plotkin LI**. Connexin 43 controls osteocyte viability and osteocytic gene expression in a cell autonomous fashion and regulates endocortical resorption and periosteal bone formation. 93rd Annual Meeting of the Endocrine Society, Boston, MA, USA, 2011.
92. Bivi N, Condon K, Benson J, Farlow N, Passeri G, Bellido T, **Plotkin LI**. Cx43 is required in a cell autonomous fashion to maintain osteocyte viability and to control the

expression of osteocytic genes that regulate osteoclast and osteoblast function. International Gap Junction Conference, Ghent, Belgium. 2011.*

93. Bivi N, Farlow N, Brun LR, Benson J, Condon K, Robling A, Bellido T, **Plotkin LI**. Unexpected enhanced response to mechanical loading of mice lacking Cx43 exclusively in osteocytes. 33rd Annual Meeting of the American Society for Bone and Mineral Research. San Diego, CA, USA. *Journal of Bone and Mineral Research* 26 (Supl. 1):S11, 2011.*
94. Tu X, Edwards R, Olivos N, Benson J, Galli C, Pellegrini GG, Bivi N, **Plotkin LI**, Bellido T. Conditional deletion of the parathyroid hormone (PTH) receptor 1 from osteocytes results in decreased bone resorption and a progressive increase in cancellous bone mass. 33rd Annual Meeting of the American Society for Bone and Mineral Research. San Diego, CA, USA. *Journal of Bone and Mineral Research* 26 (Supl. 1):S16, 2011.*
95. Tu X, Pellegrini GG, Galli C, Benson J, Condon K, Bivi N, **Plotkin LI**, Robling AG, Bellido T. PTH receptor 1 expression in osteocytes is indispensable for the anabolic effect of mechanical loading in mice. 33rd Annual Meeting of the American Society for Bone and Mineral Research. San Diego, CA, USA. *Journal of Bone and Mineral Research* 26 (Supl. 1):S24, 2011.*
96. Brun LR, Bivi N, Farlow N, Condon K, Robling AG, Bellido T, **Plotkin LI**. Inesperada respuesta positiva a la carga mecánica en ratones deficientes de Cx43 exclusivamente en osteocitos. XXVIII Annual Meeting of the Argentinean Society for Osteology and Mineral Metabolism. Buenos Aires, Argentina. *Actualizaciones en Osteología* 7:131, 2011. Selected as finalist for the 2011 Argentinean Society for Osteology and Mineral Metabolism Basic Science Award.*
97. Pacheco-Costa R, Bivi N, Fang, J, Condon KW, Burt JM, Allen MR, Bellido T., Reginato RD, **Plotkin LI**. Deletion of connexin37, a connexin preferentially expressed in osteocytes versus osteoblasts, increases bone mass and reduces osteoclasts by regulating osteocytic expression of RANKL and OPG. 34th Annual Meeting of the American Society for Bone and Mineral Research. Minneapolis, MN, USA. *Journal of Bone and Mineral Research* 27 (Supl. 1):S289, 2012.
98. Pacheco-Costa R, Brun L, Southern D, Reginato RD, Bivi N, Bellido T, **Plotkin LI**. Altered expression of apoptosis-associated miRNAs that regulate IGF-1 survival signaling underlies the cell autonomous requirement of Cx43 for osteocyte survival. 34th Annual Meeting of the American Society for Bone and Mineral Research. Minneapolis, MN, USA. *Journal of Bone and Mineral Research* 27 (Supl. 1):S167, 2012.
99. Ben-Awadh A, Olivos N, Bivi N, Allen MR, **Plotkin LI**, Tu X, Bellido T. Direct regulation of the RANKL gene by PTH in osteocytes is required to stimulate bone resorption in the adult skeleton. 34th Annual Meeting of the American Society for

Bone and Mineral Research. Minneapolis, MN, USA. *Journal of Bone and Mineral Research* 27 (Supl. 1):S14 2012. (Young investigator award).*

100. Pacheco Da Costa R, Brown DM, Hassan I, Bolarinwa S, Cregor M, Reginato R, Bruzzaniti A, Bellido T, Allen M, **Plotkin LI**. High Bone Mass in Mice Lacking Cx37 Due to a Cell-autonomous Defect in Osteoclast Differentiation and Fusion. 35th Annual Meeting of the American Society for Bone and Mineral Research. Minneapolis, MN, USA. *Journal of Bone and Mineral Research* 28 (Supl. 1):S57 2013. Plenary Poster.
101. Pacheco Da Costa R, Hassan I, Tu X, Reginato RD, Katchburian E, Bellido T, **Plotkin LI**. Cx43 Scaffolding Cytoplasmic Domain Restrains Bone Resorption but is Dispensable for the Anabolic Action of Intermittent PTH Administration. 35th Annual Meeting of the American Society for Bone and Mineral Research. Minneapolis, MN, USA. *Journal of Bone and Mineral Research* 28 (Supl. 1):S57 2013. Plenary Poster.
102. Hasan I, Pacheco Da Costa R, Kim W, Reginato RD, Bellido T, **Plotkin LI**. Deletion of Cx43 in osteocytic cells increases autophagy: a potential mechanism for accumulation of empty lacunae in mice lacking Cx43 in osteoblastic cells. 35th Annual Meeting of the American Society for Bone and Mineral Research. Minneapolis, MN, USA. *Journal of Bone and Mineral Research* 28 (Supl. 1):S412 2013.
103. Delgado-Calle J, Tu X, Sato A, Cregor M, McAndrews K, **Plotkin LI**, Bellido T. PTH upregulates RANKL and MMP13 expression through direct actions on osteocytes, but MMP13 is derived from non-osteocytic cells. 35th Annual Meeting of the American Society for Bone and Mineral Research. Minneapolis, MN, USA. *Journal of Bone and Mineral Research* 28 (Supl. 1):S61 2013. Plenary Poster.
104. Tu X, McAndrews K, Cregor M, Peacock M, Taketo MM, **Plotkin LI**, Bellido, T. Bone gain with unexpected elevated bone resorption by activating canonical Wnt/bcatenin signaling in osteocytes. 35th Annual Meeting of the American Society for Bone and Mineral Research. Minneapolis, MN, USA. *Journal of Bone and Mineral Research* 28 (Supl. 1):S20 2013.*
105. Tu X, McAndrews K, Delgado-Calle J, Olivos N, Ben-Awadh A, Kim W, Pacheco-Costa R, Richardson D, Peacock M, **Plotkin LI**, Bellido, T. Osteocytic PTH receptor is required for bone anabolism induced by intermittent PTH administration, but is dispensable for bone resorption and the loss of bone induced by chronic PTH elevation. 35th Annual Meeting of the American Society for Bone and Mineral Research. Minneapolis, MN, USA. *Journal of Bone and Mineral Research* 28 (Supl. 1):S233 2013. Oral Poster.
106. Sato A, **Plotkin LI**, Bellido T. Prevention of glucocorticoid induced-apoptosis of osteoblasts and osteocytes by protecting against endoplasmic reticulum (ER) stress. 35th Annual Meeting of the American Society for Bone and Mineral Research.

- Minneapolis, MN, USA. *Journal of Bone and Mineral Research* 28 (Supl. 1):S403 2013.
107. Pacheco-Costa R, Katchburian E, Davis H, **Plotkin LI**, Reginato R. Absence of Cx37 leads to bone matrix modifications in mice: a potential explanation for why reduced cortical thickness is not followed by decreased mechanical strength. 36th Annual Meeting of the American Society for Bone and Mineral Research. Houston, TX, USA. *Journal of Bone and Mineral Research* 29 (Supl. 1):S69 2014.
108. Gortazar A, Portoles MT, Matesanz MC, Linares J, Feito MJ, Arcos D, Vallet M, **Plotkin LI**, Esbrit, P. Mechanical loading and high glucose modify the chemokine secretion profile of osteocytes affecting osteoclast differentiation and activity. 36th Annual Meeting of the American Society for Bone and Mineral Research. Houston, TX, USA. *Journal of Bone and Mineral Research* 29 (Supl. 1):S172 2014.
109. Pacheco-Costa R, Hassan I, Sorenson C, Davis HM, Hammond MM, Reginato RD, Katchburian E, Wallace JA, Bellido T, **Plotkin LI**. Cx43 scaffolding c-terminus intracellular domain is required for achieving proper bone architecture and strength, but it does not mediate the effect of osteocytic Cx43 on cortical bone. 36th Annual Meeting of the American Society for Bone and Mineral Research. Houston, TX, USA. *Journal of Bone and Mineral Research* 29 (Supl. 1):S221 2014.
110. Delgado-Calle J, Anderson J, **Plotkin LI**, Roodman GD, Bellido T. Cell-to-cell crosstalk between multiple myeloma cells and osteocytes activates notch signaling and triggers osteocyte apoptosis. 36th Annual Meeting of the American Society for Bone and Mineral Research. Houston, TX, USA. *Journal of Bone and Mineral Research* 29 (Supl. 1):S230 2014.
111. **Plotkin LI**, Gortazar A, Condon K, Gabilondo H, Maycas M, Bellido T. Prevention of osteocyte apoptosis and the increase in osteocytic RANKL are not sufficient to restrain osteoclastic bone resorption and stop bone loss induced by reduced mechanical forces. 36th Annual Meeting of the American Society for Bone and Mineral Research. Houston, TX, USA. *Journal of Bone and Mineral Research* 29 (Supl. 1):S289 2014.
112. Delgado-Calle J, **Plotkin LI**, Bellido T, Roodman GD. Interactions between multiple myeloma cells and osteocytes alter osteocytic gene expression: evidence for osteocyte-driven dysregulation of bone remodeling in multiple myeloma. 36th Annual Meeting of the American Society for Bone and Mineral Research. Houston, TX, USA. *Journal of Bone and Mineral Research* 29 (Supl. 1):S374 2014.
113. Pacheco-Costa R, Hassan I, Katchburian E, Davis H, **Plotkin LI**, Reginato R. Deletion of Connexin 43 in osteocytes blunts the response to intermittent PTH administration in the bone matrix. 36th Annual Meeting of the American Society for Bone and Mineral Research. Houston, TX, USA. *Journal of Bone and Mineral Research* 29 (Supl. 1):S378 2014.

114. Pacheco-Costa R, Sorenson C, Hon MC, Davis HM, Hassan I, Reginato RD, Katchburian E, Allen MR, Bellido T, **Plotkin LI**. Cx43 scaffolding CT intracellular domain is required for achieving proper bone architecture and for some, but not all, anabolic actions of intermittent PTH administration. 2015 International Gap Junction Meeting. Valparaiso, Chile.*
115. Davis HM, Atkinson E, Harris J, Pacheco-Costa R, Gortazar AR, Ivan M, Bruzzaniti A, Bellido T, **Plotkin LI**. Reduction in microRNA21 promotes apoptosis and increases RANKL in osteocytes: a mechanism for enhanced resorption in the absence of Cx43 in osteoblastic cells and with aging. 37th Annual Meeting of the American Society for Bone and Mineral Research. Seattle, WA, USA. *Journal of Bone and Mineral Research* 30 (Supl. 1):S101, 2015.
116. Sato AY, Au E, Richardson D, Bivi N, Cregor M, McAndrews K, Davis HM, Zimmers T, **Plotkin LI**, Bellido T. Glucocorticoids induce bone and muscle atrophy by distinct mechanisms upstream of atrogen1 and MuRF1. 37th Annual Meeting of the American Society for Bone and Mineral Research. Seattle, WA, USA. *Journal of Bone and Mineral Research* 30 (Supl. 1):S1, 2015.*
117. Sato AY, Cregor M, Tzeggai J, McAndrews K, Delgado-Calle J, Robling AG, **Plotkin LI**, Bellido T. Sost/sclerostin deficiency protects the murine skeleton from glucocorticoid-induced bone loss by inhibiting bone resorption. 37th Annual Meeting of the American Society for Bone and Mineral Research. Seattle, WA, USA. *Journal of Bone and Mineral Research* 30 (Supl. 1):S107, 2015.
118. Delgado-Calle J, Anderson J, Cregor MD, Mohammad KS, **Plotkin LI**, Bellido T, and Roodman GD. Bidirectional Notch signaling activated by interactions between multiple myeloma cells and osteocytes drives tumor cell proliferation and osteoclast recruitment. 37th Annual Meeting of the American Society for Bone and Mineral Research. Seattle, WA, USA. *Journal of Bone and Mineral Research* 30 (Supl. 1):S269, 2015.
119. Pellegrini GG, Cregor M, McAndrews K, Delgado-Calle J, Sato AY, Davis HM, **Plotkin LI**, Burr D, Weaver C, Bellido T. Nrf2 mediates gender specific mechanisms on bone accrual and maintenance. 37th Annual Meeting of the American Society for Bone and Mineral Research. Seattle, WA, USA. *Journal of Bone and Mineral Research* 30 (Supl. 1):S298, 2015.
120. Maycas M, McAndrews KA, Sato AY, Pellegrini GG, Brown DM, Allen MR, **Plotkin LI**, Esbrit P, Gortazar A, Bellido T. PTHrP-derived Peptides Restore Bone Mass and Strength in Diabetic Mice: Additive Effect of Mechanical Loading. 37th Annual Meeting of the American Society for Bone and Mineral Research. Seattle, WA, USA. *Journal of Bone and Mineral Research* 30 (Supl. 1):S67, 2015.
121. Hiasa M, Okui T, Nagata Y, Allette YM, Ripsch MS, Delgado-Calle J, Bellido T, Roodman GD, Plotkin LI, White F, Yoneda T. Osteocytes are an Important Mediator of Bone Pain in Myeloma. 37th Annual Meeting of the American Society for Bone and Mineral Research. Seattle, WA, USA. *Journal of Bone and Mineral Research* 30 (Supl. 1):S354, 2015.

122. Pacheco-Costa P, Hassan I, **Plotkin LI**. Increased Wnt/ β -catenin Signaling and Decreased Osteoclastogenic Potential of Osteocytic Cells Lacking Cx37. 38th Annual Meeting of the American Society for Bone and Mineral Research. Atlanta, GA, USA. *Journal of Bone and Mineral Research* 31 (Supl. 1):S86, 2016.
123. Pacheco-Costa R, Atkinson E, Davis H, Byiringiro I, Thompson R, Bellido T, **Plotkin LI**. Pharmacological Inhibition of ATP Release Through Pannexin-1 Channels Increases Bone Mass and Reduces Bone Resorption in Aging Mice. 38th Annual Meeting of the American Society for Bone and Mineral Research. Atlanta, GA, USA. *Journal of Bone and Mineral Research* 31 (Supl. 1):S375, 2016.
124. Atkinson E, Sanchez Z, Porter C, Bellido T, **Plotkin LI**. MLO-Y4 Osteocytic Cell Sub-clones Express Distinct Gene Expression Patterns Characteristic of Different Stages of Osteocyte Differentiation. 38th Annual Meeting of the American Society for Bone and Mineral Research. Atlanta, GA, USA. *Journal of Bone and Mineral Research* 31 (Supl. 1):S349, 2016.
125. Davis H, Atkinson E, Pacheco-Costa R, Lopez D, Aref M, Brown D, Harris M, Harris S, Allen MR, Bellido T, **Plotkin LI**. Osteocyte Specific Cx43 Overexpression Improves Cortical Bone Mass and Strength, but Reduces Cancellous Bone in old Mice. 38th Annual Meeting of the American Society for Bone and Mineral Research. Atlanta, GA, USA. *Journal of Bone and Mineral Research* 31 (Supl. 1):S318, 2016.
126. Davis H, Pacheco-Costa R, Atkinson E, Ivan M, Bruzzaniti A, Bellido T, **Plotkin LI**. Reduced microRNA21 and Enhanced HMGB1 Release: a Mechanistic Explanation for Increased Osteocyte Apoptosis and Resorption in the Absence of Cx43 and with Aging. 38th Annual Meeting of the American Society for Bone and Mineral Research. Atlanta, GA, USA. *Journal of Bone and Mineral Research* 31 (Supl. 1):S270, 2016.
127. Pellegrini GG, Morales CC, Wallace TC, **Plotkin LI**, Bellido T. Antioxidant Avenanthramides Prevent Osteoblast and Osteocyte Apoptosis and Induce Osteoclast Apoptosis by Nrf2-Independent Mechanisms. 38th Annual Meeting of the American Society for Bone and Mineral Research. Atlanta, GA, USA. *Journal of Bone and Mineral Research* 31 (Supl. 1):S271, 2016.
128. Pellegrini GG, Cregor M, Morales CC, McAndrews K, **Plotkin LI**, Burr D, Weaver CM, Bellido T. The antioxidant endogenous response in bone is regulated by Nrf2 in a gender specific manner. 38th Annual Meeting of the American Society for Bone and Mineral Research. Atlanta, GA, USA. *Journal of Bone and Mineral Research* 31 (Supl. 1):S37, 2016.*
129. Lezcano V, **Plotkin LI**, Morelli S. Beneficial effects of low doses of the phytoestrogen quercetin on osteoblastic cells. 38th Annual Meeting of the American Society for Bone and Mineral Research. Atlanta, GA, USA. *Journal of Bone and Mineral Research* 31 (Supl. 1):S223, 2016.
130. Delgado-Calle J, Hancock B, McAndrews K, **Plotkin LI**, Bellido T. Blockade of the activity of the osteocytic PTH receptor target gene MMP14: a therapeutic tool to prevent bone loss and potentiate bone gain induced by PTH. 38th Annual Meeting of the American Society for Bone and Mineral Research. Atlanta, GA, USA. *Journal of*

- Bone and Mineral Research* 31 (Supl. 1):S46, 2016.*
131. Delgado-Calle J, Anderson J, Cregor MD, Zhou D, **Plotkin LI**, Bellido T, Roodman GD. Genetic Sost deletion or pharmacological inhibition of sclerostin prevents bone loss and decreases osteolytic lesions in immunodeficient and immunocompetent mice. 38th Annual Meeting of the American Society for Bone and Mineral Research. Atlanta, GA, USA. *Journal of Bone and Mineral Research* 31 (Supl. 1):S30, 2016.*
 132. Delgado-Calle J, Pacheco-Costa R, Tu X, McAndrews K, **Plotkin LI**, Bellido T. The bone anabolic effects of intermittent administration of PTH are independent of Sost/Sclerostin downregulation. 38th Annual Meeting of the American Society for Bone and Mineral Research. Atlanta, GA, USA. *Journal of Bone and Mineral Research* 31 (Supl. 1):S6, 2016.*
 133. Sato A, Cregor M, Condon KW, **Plotkin LI**, Bellido T. Pyk2 deficiency protects from glucocorticoid-induced bone resorption and osteoblast and osteocyte apoptosis, but not from the decrease in bone formation. 38th Annual Meeting of the American Society for Bone and Mineral Research. Atlanta, GA, USA. *Journal of Bone and Mineral Research* 31 (Supl. 1):S37, 2016.*
 134. Hiasa M, Okui T, Delgado-Calle J, Bellido T, Roodman GD, White F, **Plotkin LI**, Yoneda T. Osteocytes mediate bone pain through cell-cell communication with sensory neurons via connexin 43. 38th Annual Meeting of the American Society for Bone and Mineral Research. Atlanta, GA, USA. *Journal of Bone and Mineral Research* 31 (Supl. 1):S40, 2016.*
 135. Pacheco-Costa R, Atkinson EG, Dilley JE, Davis HM, Herrera C, Byringiro I, Thompson RJ, Bellido T, **Plotkin LI**. Distinct cellular and age-related mechanisms of genetic and pharmacologic pannexin1 inhibition resulting in high bone mass. 2017 International Gap Junction Meeting Glasgow, UK.*
 136. Pacheco-Costa R, Atkinson E, Dilley J, Davis H, Herrera C, Thompson R, Bellido T, **Plotkin LI**. Absence of pannexin-1 in osteocytes leads to high bone mass due to distinct cellular mechanisms in cancellous versus cortical bone, and in young versus old mice. 39th Annual Meeting of the American Society for Bone and Mineral Research. Denver, CA, USA. *Journal of Bone and Mineral Research* 32 (Supl. 2):S3, 2017.*
 137. Davis HM, Pacheco-Costa R, Aguilar-Perez A, Herrera C, Smith G, Lugo J, **Plotkin LI**. Similar increase in bone resorption and decrease in bone mass but opposite effects in osteocytic gene expression in female versus male mice with FMR1 deletion, a model of fragile X syndrome. 39th Annual Meeting of the American Society for Bone and Mineral Research. Denver, CA, USA. *Journal of Bone and Mineral Research* 32 (Supl. 2):S70, 2017. Plenary Poster.
 138. Pacheco-Costa R, Davis HM, Atkinson EG, Dilley J, Herrera C, Condon KW, Ivan M, Bellido T, **Plotkin LI**. Unexpected decrease in osteoclast number and bone resorption with increased osteocyte apoptosis in the absence of osteocytic miR21. 39th Annual Meeting of the American Society for Bone and Mineral Research. Denver, CA, USA. *Journal of Bone and Mineral Research* 32 (Supl. 2):S90, 2017.

139. Davis HM, Schartz ND, Herrera C, Pacheco-Costa R, Wyatt SK, Brewster AL, Plotkin LI. Low bone mass and strength in juvenile rats with acquired epilepsy. 39th Annual Meeting of the American Society for Bone and Mineral Research. Denver, CA, USA. *Journal of Bone and Mineral Research* 32 (Supl. 2):S261, 2017.
140. Sato AY, Cregor M, McAndrews K, Condon KW, **Plotkin LI**, Bellido T. Life-long genetic Pyk2 deletion or short-term pharmacologic inhibition of Pyk2 prevents the increase in resorption by glucocorticoids and preserves bone mass and strength by promoting osteoclast apoptosis. 39th Annual Meeting of the American Society for Bone and Mineral Research. Denver, CA, USA. *Journal of Bone and Mineral Research* 32 (Supl. 2):S9, 2017.*
141. Davis HM, Aref MW, Aguilar-Perez A, Pacheco-Costa R, Allen K, Valdez S, Herrera C, Atkinson EG, Mohammad A, Lopez D, Harris MA, Harris SE, Alen M, Bellido T, **Plotkin LI**. Cx43 overexpression in osteocytes prevents osteocyte apoptosis and preserves cortical bone quality in aging mice. Oral presentation at the Advances in Mineral Metabolism meeting, Snowmass, CO, April, 2018.*
142. Essex A, Davis HM, Valdez S, Pin F, **Plotkin LI**, Davus A. Rescuing age-associated decline in muscle mass by inhibition of the receptor for advanced glycosylation end products, RAGE. 40th Annual Meeting of the American Society for Bone and Mineral Research. Montreal, Quebec, Canada. *Journal of Bone and Mineral Research* 33 (Suppl. 2):S188, 2018. Late Breaking Abstract.
143. Davis HM, Valdez S, Aguilar-Perez A, Aref MW, Deosthale PJ, Essex A, Allen MR, White F, Windle J, **Plotkin LI**. Short-term pharmacologic inhibition of RAGE suppresses bone turnover and muscle atrophy in aging. 40th Annual Meeting of the American Society for Bone and Mineral Research. Montreal, Quebec, Canada. *Journal of Bone and Mineral Research* 33 (Suppl. 2):S83, 2018. Plenary Poster.
144. Davis HM, Pacheco-Costa R, Aref MW, Valdez S, Essex A, Atkinson EG, Dilley JE, Herrera C, Deosthale P, Ivan M, Allen MR, Bellido T, Plotkin LI. Sex divergent role of osteocytic miR21 in the maintenance of osteocyte viability and regulation of bone turnover. 40th Annual Meeting of the American Society for Bone and Mineral Research. Montreal, Quebec, Canada. *Journal of Bone and Mineral Research* 33 (Suppl. 2):S98, 2018. Plenary Poster.
145. Davis HM, Valdez S, Gomez LJ, Bruzzaniti A, **Plotkin LI**. Autocrine actions of high mobility group box1 protein (HMGB1) on osteocytes and osteoclasts regulate osteoclastogenesis. 40th Annual Meeting of the American Society for Bone and Mineral Research. Montreal, Quebec, Canada. *Journal of Bone and Mineral Research* 33 (Suppl. 2):S95 2018. Plenary Poster.
146. Nelson JH, Davis HM, McAndrews K, Cregor MD, Thompson WR, **Plotkin LI**, Robling AG, Bellido T, Delgado-Calle J. Sclerostin regulates adipocyte fate and mediates paracrine and endocrine signaling between osteocytes and fat. 40th Annual Meeting of the American Society for Bone and Mineral Research. Montreal, Quebec, Canada. *Journal of Bone and Mineral Research* 33 (Suppl. 2):S260, 2018.
147. Aguilar-Perez A, Pacheco-Costa R, Atkinson EG, Deosthale P, Gomez LJ, Dilley JE,

- Davis HM, Herrera C, Thompson R, Allen MR, Liu Z, Bruzzaniti A, Zimmers T, **Plotkin LI**. Critical sex- and age-dependent role of osteocytic pannexin1 on bone and muscle mass and strength. 40th Annual Meeting of the American Society for Bone and Mineral Research. Montreal, Quebec, Canada. *Journal of Bone and Mineral Research* 33 (Suppl. 2):S334, 2018.
148. Buvinic S, Balanta-Melo J, Toro-Ibacache V, Torres-Quintana MA, Kupczik K, **Plotkin LI**. The osteocyte apoptosis inhibitor IG9402 prevents bone loss of the mouse mandibular condyle during masseter muscle atrophy. 40th Annual Meeting of the American Society for Bone and Mineral Research. Montreal, Quebec, Canada. *Journal of Bone and Mineral Research* 33 (Suppl. 2):S335, 2018.
149. Sato AY, Plotkin, LI, Bellido T Interference with atrophy signaling prevents GC actions on bone and muscle *in vitro* and *ex vivo*. 40th Annual Meeting of the American Society for Bone and Mineral Research. Montreal, Quebec, Canada. *Journal of Bone and Mineral Research* 33 (Suppl. 2):S355, 2018.
150. Sato AY, Pellegrini GG, Cregor M, McAndrews K, Atkinson E, Choi RB, Maiz M, **Plotkin LI**, McCabe LD, McCabe GP, Peacock M, Weaver CM, Burr D, Bellido T. Distinct mechanisms regulate the response of female and male skeletons to sex steroid deficiency and to the bone protective effects of blueberry containing diets. 40th Annual Meeting of the American Society for Bone and Mineral Research. Montreal, Quebec, Canada. *Journal of Bone and Mineral Research* 33 (Suppl. 2):S296, 2018.
151. **Plotkin LI**, Deosthale P, Hong JM, Sidhu H, Essex AL, Bruzzaniti A. Pannexin1 deletion from TRAP-expressing cells results in increased osteoclast differentiation and function, and reduced bone mass only in female mice. 2019 International Gap Junction Meeting Victoria, British Columbia, Canada, 2019.*
152. Essex A, Davis H, Deosthale P, Bonetto A, **Plotkin LI**. Lack of osteocytic-miR21 promotes skeletal muscle mass growth in a sex-specific manner. 41st Annual Meeting of the American Society for Bone and Mineral Research. Orlando, Florida. *Journal of Bone and Mineral Research* 34 (Suppl. 2):S194, 2019.
153. **Plotkin LI**, Deosthale P, Hong JM, Sidhu H, Essex A, Bruzzaniti A. Sex-specific increases in osteoclast differentiation and function by Pannexin1 channel deletion in TRAP-expressing cells. 41st Annual Meeting of the American Society for Bone and Mineral Research. Orlando, Florida. *Journal of Bone and Mineral Research* 34 (Suppl. 2):S236, 2019.
154. Hong JM, Godfrey D, Holland R, Kim S-K, Deosthale P, **Plotkin LI**, Allen MR, Bruzzaniti A. Kalirin regulates bone mass through effects on osteoblast activity, osteocyte morphology and intercellular communication. 41st Annual Meeting of the American Society for Bone and Mineral Research. Orlando, Florida. *Journal of Bone and Mineral Research* 34 (Suppl. 2):S330, 2019.
155. Essex AL, Deosthale PJ, Wagner A, Damrath J, Wallace J, Willis M, Bonetto A, **Plotkin LI**. Beyond the Brain: Neurodegeneration risk-factor TREM2 R47H mutation causes distinct sex-dependent bone and cardiovascular phenotype in the

- absence of neuropathology. 42nd Annual Meeting of the American Society for Bone and Mineral Research. Virtual meeting. *Journal of Bone and Mineral Research*, in press, 2020.*
156. Jerez S, Dudakovic A, Denbeigh JM, Deosthale PJ, Paradise SR, Gluscevic M, Zan P, Pichurin O, Khani F, Thaler R, **Plotkin LI**, Wijnen AJ. MicroRNA-101, which Inhibits the Epigenetic Suppressor Ezh2, Increases Trabecular Bone Volume in Male Mice. 42nd Annual Meeting of the American Society for Bone and Mineral Research. Virtual meeting. *Journal of Bone and Mineral Research*, in press, 2020.
 157. D'Andrea F, Sanz N, Lombarte M, Rico MJ, Rozados VR, Scharovsky OG, Di Loreto VE, **Plotkin LI**, Brun LR. Effect of Yerba Mate (*Ilex paraguariensis*) on Osteocytic Cells. 42nd Annual Meeting of the American Society for Bone and Mineral Research. Virtual meeting. *Journal of Bone and Mineral Research*, in press, 2020.
 158. Davis A, Essex AL, Deosthale P, Wallace J, Bonetto A, **Plotkin LI**. Genetic Mutations in TREM2 as a Link Between Neurodegeneration and Bone. Annual Biomedical Research Conference for Minority Students (ABRCMS) 2020: The Virtual Experience, 2020.
 159. Davis A, Essex AL, Deosthale P, Wallace J, Bonetto A, **Plotkin LI**. Genetic Mutations in TREM2 as a Link Between Neurodegeneration and Bone. Advocates for Inclusion in Medicine and Science - American Physician Scientists Association (AIMS-APSA) South Atlantic Meeting, 2020.*