

# CURRICULUM VITAE

Lilian I. Plotkin, PhD  
Associate Professor  
Department of Anatomy & Cell Biology  
Indiana University School of Medicine

## EDUCATION

School of Pharmacy and Biochemistry, National University of Buenos Aires	Biochemist	1981-1987
School of Pharmacy and Biochemistry, National University of Buenos Aires	Ph.D. in immunology	1991-1996
University of Arkansas for Medical Sciences	Postdoctoral fellow	1998-2002

## ACADEMIC APPOINTMENTS

2014-present	Associate Professor, Department of Anatomy and Cell Biology, Indiana University School of Medicine, Indianapolis, Indiana (as of 07/01/2014).
2008-present	Graduate Faculty, Indiana University School of Medicine.
2008-2014	Assistant Professor, Department of Anatomy and Cell Biology, Indiana University School of Medicine, Indianapolis, Indiana.
2005-2008	Research Assistant Professor, Division of Endocrinology and Metabolism and UAMS Center for Osteoporosis and Metabolic Bone Diseases, Department of Internal Medicine, University of Arkansas for Medical Sciences, Little Rock, Arkansas.
2002-2005	Research Instructor, Division of Endocrinology and Metabolism and UAMS Center for Osteoporosis and Metabolic Bone Diseases, Department of Internal Medicine, University of Arkansas for Medical Sciences, Little Rock, Arkansas.
1998-2002	Postdoctoral Research Fellow, Division of Endocrinology and Metabolism and UAMS Center for Osteoporosis and Metabolic Bone Diseases, Department of Internal Medicine, University of Arkansas for Medical Sciences, Little Rock, Arkansas. <i>Molecular mechanisms of bisphosphonate action on osteoblastic cells.</i>
1991-1993	Teaching Assistant, Immunology and Immunochemistry and Monoclonal Antibodies, Dept. of Immunology, School of Pharmacy and Biochemistry, National University of Buenos Aires.
1989-2000	Research Assistant, Instituto de Estudios de la Inmunidad Humoral,

National Research Council of Argentina (CONICET) (leave of absence from 1998 to 2000).

1987-2001 Teaching Assistant, Immunology, Dept. of Immunology, School of Pharmacy and Biochemistry, National University of Buenos Aires (leave of absence from 1998 to 2001).

### **OTHER APPOINTMENTS AND PROFESSIONAL CONSULTANTSHIPS**

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

### **TEACHING ASSIGNMENTS**

2013-2014 Spring: G751 Advanced Concepts in Cytosolic and Nuclear Signal Transduction.

2012 Invited lecturer, Frontiers in Translational Medicine course for medical students, School of Medicine, University San Pablo CEU, Madrid, Spain, July 10-20, 2012. "Cell autonomous requirement of Cx43 function in osteocytes for the control of viability and local regulation of bone remodeling"

2009-present Spring: D504/D851 Medical/Graduate Histology.

2009-present Fall (every other year): G819, Basic Bone Biology.

2006 Lecturer, Basic Science Tutorial for Endocrinology Clinical Fellows, Division of Endocrinology, Department of Internal Medicine, UAMS.

2005-2007 Lecturer, Medical Physiology Endocrine Case Conference for first year medical students, Department of Physiology, UAMS.

2004-2006 Lecturer, Graduate Cellular Endocrinology Course, Department of Physiology, UAMS. "Cytokines - Jak/STAT Pathways".

1991-1998 Teaching Assistant in Immunology and Immunochemistry and Monoclonal Antibodies, Dept. of Immunology, School of Pharmacy and Biochemistry, National University of Buenos Aires.

1987-2001 Teaching Assistant in Immunology, Dept. of Immunology, School of Pharmacy and Biochemistry, University of Buenos Aires.

## **STUDENT/PROFESSIONAL MENTORING**

### **Research Assistant Professors**

2011-2012 Nicoletta Bivi, Ph.D.

### **Postdoctoral fellows**

2017-present Alexandra Aguilar-Perez

2015-present Rafael Pacheco da Costa

- Recipient of a scholarship from the CNPq - Conselho Nacional de Desenvolvimento Científico e Tecnológico, of the Ministry of Science, Technology and Innovation of Brazil.

2011 Lucas Brun, M.D., Ph.D. Visiting post-doctoral fellow (2 months).

- Pre-selected for the 2011 Best Scientific Basic Abstract for the Annual Meeting of the Argentinean Society for Osteology and Mineral Metabolism.

2008-2011 Nicoletta Bivi, Ph.D.

- Recipient of a Young Investigator Award from the American Society for Bone and Mineral Research in 2009.
- Recipient of an Alice L. Jee Memorial Young Investigator Award and an ASBMR/Harold M. Frost Young Investigator Award for the 40<sup>th</sup> International Bone and Mineral Society Sun Valley Workshop: Musculoskeletal Biology in 2010.
- Recipient of a Young Investigator Travel Grant from the American Society for Bone and Mineral Research in 2011.

### **Graduate students**

2015-present Hannah M. Davis

- Recipient of a Young Investigator Travel Award from the Annual Meeting of the American Society for Bone and Mineral Research in 2015

2011-2013 Rafael Pacheco da Costa

- Recipient of a scholarship from the CAPES Foundation (Ministry of Education, Brazil) to conduct part of his doctoral thesis at Indiana University.
- Recipient of a Young Investigator Travel Award from the Annual Meeting of the American Society for Bone and Mineral Research in 2013

## **Undergraduate students**

- 2016-present Carmen Herrera  
- 2016-2017 IUPUI, Life-Health Sciences Internship Program – 2 semesters
- 2015-2016 Christian Porter  
- 2015-2016 IUPUI, Life-Health Sciences Internship Program – 2 semesters
- 2014-2016 Emily Atkinson,  
- 2014-2015 IUPUI, Life-Health Sciences Internship Program – 2 semesters  
- 2015 CTSI- Clinical and Transitional Sciences Institute Award – 8 weeks  
- 2015 Recipient of an LHSI Travel Award and an Undergraduate Education Enhancement Grant to attend the 2015 ASBMR Annual Meeting
- 2010-2014 Iraj Hassan, IUPUI, Work Study Program.  
- 2011 Undergraduate Research Opportunities Program (UROP) Award from Indiana University  
- 2012 Ronald E. McNair Post-baccalaureate Achievement Program from the U.S. Department of Education  
- 2013 CTSI- Clinical and Transitional Sciences Institute Award  
*Recipient of awards to attend to the following conferences:*  
- 2012 Annual Biomedical Research Conference for Minority Students, San Jose, California  
- 2013 National Council for Undergraduate Research Conference, LaCrosse, Wisconsin

## **Students hosted for research rotations**

- 2015 David A. Lopez, first year medical student, MSA Student Research Program in Academic Medicine – 12 weeks
- 2015 Zuleima Sanchez, summer student, High School Summer Research

- Internship (SEED) Program – 8 weeks.
- 2014 Mary Catherine Hon, first year medical student, MSA Student Research Program in Academic Medicine – 12 weeks.
- 2014 Julia Harris, undergraduate student, Women in Science Internship, IUPUI Women in Science and IBMG programs – 8 weeks.
- 2014 Delfina Sánchez-Pernisola, summer student, High School Summer Research Internship (SEED) Program – 8 weeks.
- 2013 Chad Sorenson, third year medical student – 4 weeks.
- 2012 Surajudeen Bolarinwa, first year medical student, MSA Student Research Program in Academic Medicine – 12 weeks.
- 2011 Thomas Murphy, first year medical student, MSA Student Research Program in Academic Medicine – 12 weeks.
- 2010 Nathan Farlow, first year medical student, MSA Student Research Program in Academic Medicine – 12 weeks.
- 2010 Yovanie Biggerstaff, summer student, High School Summer Research Internship (SEED) Program (co-mentor with M. Allen) – 8 weeks.

### **Thesis Committees for Graduate Students**

- 2015 Examiner for Ph.D. Thesis for Krishanthi Gunaratnam, University of Sydney, Australia
- 2014-present Whitney Bullock Ph.D. student, Anatomy and Cell Biology. Role: Member (Chair: A. Robling).
- 2012-present Sara Rachles, Masters student, Anatomy and Cell Biology. Role: Member (Chair: A. Robling).
- 2012-present Amy Sato, Ph.D. student, Anatomy and Cell Biology. Role: Member (Chair: T. Bellido).
- 2011-2014 Ling Li, Ph.D. student, Anatomy and Cell Biology. Role: Member (Chair: F-C. Yang).
- 2011-2012 Abdullah Ben-Awadh, Masters student, Anatomy and Cell Biology. Role: Member (Chair: T. Bellido).
- 2010-2011 Takeisha Farmer, Ph.D. student, Anatomy and Cell Biology. Role: Member (Chair: A. Robling).

### **HONORS AND AWARDS**

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

- 2012 Overseas Conference Grant Award from the Office of the Vice President for International Affairs (OVPIA) at Indiana University
- 2010 Overseas Conference Grant Award from the Office of the Vice President for International Affairs (OVPIA) at Indiana University
- 2002 Young Investigator Award, 23<sup>rd</sup> Annual Meeting of the American Society for Bone and Mineral Research. San Antonio, TX, USA.
- 2001 Alice L. Jee Memorial Young Investigator Award. 31<sup>st</sup> International Sun Valley Hard Tissue Workshop. Sun Valley, Idaho, USA.
- 1999 Second Best 1998 Scientific Paper Award. Argentinean Journal of Endocrinology and Metabolism. **Plotkin, L.I.**, Sarli, M., Sgarlata, C., Zanchetta, R.J., Plotkin, H., Leoni, J., Mathov, I. Serum levels of Insulin-like Growth Factor Binding Protein-3 (IGFBP-3) and Insulin-like Growth Factor (IGF-I) in patients with osteoporosis. Argentinean Journal of Endocrinology and Metabolism 35:169-178, 1998.
- 1998 Travel Award 1998 American Society for Bone and Mineral Research-International Bone and Mineral Society joint Meeting.

### SCIENTIFIC SOCIETIES

- 2016-present Argentinean Association for Osteology and Mineral Metabolism
- 2011-present International Bone and Mineral Society
- 2010-2012 Endocrine Society
- 2009-present American Association for the Advancement of Science.
- 1999-2001 American Association for the Advancement of Science.
- 1998-present American Society for Bone and Mineral Research.
- 1989-1997 Argentinean Immunology Society.

### ONGOING RESEARCH GRANTS

R01-AR059357 09/01/2011-08/31/2017

NIH/NIAMS

FAK/Pyk2 signaling pathway and bone formation.

Role: **Co-Investigator**, PI: T. Bellido, IUSM. The goal of this project is to address the hypothesis that there is an antagonistic interplay between mechanical forces and GC governed by FAK/Pyk2 signaling, which regulates the Wnt/ $\beta$ -catenin pathway, bone formation, and osteoblast/osteocyte survival.

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Department of Veterans Affairs 04/01/2013-03/31/2017  
Osteocyte control of bone remodeling through the PTH receptor  
Role: **co-Investigator**, PI: T. Bellido, IUSM. The purpose of this application is to investigate the hypothesis that direct effects of PTH on osteocytes increase RANKL and MMPs, which in turn act as osteocyte-derived factors to increase osteoclast formation and bone resorption.

R01- AR067210 04/01/2015-03/31/2020  
NIH/NIAMS  
Osteocyte apoptosis and regulation of bone resorption with aging.  
Role: **Principal Investigator**. The objective of this application is to investigate the molecular mechanisms by which increased osteocyte apoptosis in Cx43-deficient and old mice results in targeted bone resorption.

R01-CA209882 04/01/2017-03/31/2022  
NIH/NCI  
Contribution of Osteocytes to the Musculoskeletal Effects of Multiple Myeloma  
Role: **co-Investigator**, Co-PIs G.D. Roodman, T. Bellido, IUSM. This proposal will test the hypothesis that myeloma cell-osteocyte (MM-Ot) interactions are major contributors to osteolytic cancer in bone (OCIB) through increasing tumor growth and bone resorption, decreasing bone formation, and inducing muscle dysfunction.

No number 02/01/2017-01/31/2018  
IUPUI Office of the Vice Chancellor for Research – Research Support Funds Grant  
Bone defects in FMR1 deficient mice, a model of autism. Role: **Principal Investigator**. The purpose of this study is to characterize the basis for the reduced bone mass observed in mice lacking FRM1, the gene responsible for fragile X syndrome.

## **PREVIOUS RESEARCH GRANTS**

- 2013-2014 “Control of IGF1-induced osteocyte survival by Cx43 and miRNAs”  
Role: **Principal Investigator**. Agency Indiana University School of Medicine – Biomedical Research Grant
- 2013-2014 “HMGB1 and osteoclast recruitment and differentiation induced by deletion of Cx43 in osteocytes” Role: **Principal Investigator**. Agency: Indiana University School of Medicine – Office of the Vice Chancellor for research. Developing Diverse Researchers with InVestigative Expertise (DRIVE) grant
- 2012-2013 “Role of osteoblastic Cx37 on bone resorption in bone”. Role: Role: **Principal Investigator**. Agency: Indiana CTSI

- 2008-2013 “Connexin43 hemichannels and signaling in bone”. Role: **Principal Investigator**. Agency: NIH/NIAMS
- 2010-2013 “Indiana Center for Translational Musculoskeletal Research” Role: **Center Faculty**. PI: S. Warden, IUPUI. Agency: IUPUI Office of the Vice Chancellor for Research
- 2011-2012 “Opposing actions of mechanical forces and glucocorticoids in bone”. Role: **Principal Investigator**. Agency: Ralph W. and Grace M. Showalter Research Trust Fund.
- 2007-2012 “Osteocyte control of bone formation via Sost”. Role: **Co-Investigator**. PI: T. Bellido, IUSM. Agency: NIH/NIDDK.
- 2009-2011 “Prevention of osteoblast and osteocyte apoptosis in the absence of anti-resorptive effects by bisphosphonates”. Role: **Co-Principal Investigator** (with T. Bellido, IUSM). Agency: Procter & Gamble.
- 2009-2011 “IUSM Initiative for Maximizing Graduate Student Diversity.” Role: **Mentor**, PI: Hal E. Broxmeyer. Agency: NIH Graduate Student Diversity (IMGSD) Harper’s program.
- 2009-2010 “Influence of bone turnover rate and binding affinity on bisphosphonate skeletal distribution”. Role: **Co-Principal Investigator** (with M. Allen, IUSM). Agency: Procter & Gamble.
- 2005-2009 “Bisphosphonate binding to connexin43 expressing cells.” Role: **Research Scientist**. PI: T. Bellido). Agency: NIH/FIRCA.
- 2006-2008 “Mechanical forces, osteocyte viability, and bone strength in old age.” Role: **Co-Investigator**. Project Leader: Teresita Bellido – Project 4 – Program Project (PI: Manolagas). Agency: NIH/NIA.
- 2006-2008 “Glucocorticoids, osteocytes and bone strength in age-related osteoporosis.” Role: **Co-Investigator**. Project Leader: Robert S. Weinstein – Project 3 – Program Project. (PI: Manolagas). Agency: NIH/NIA.
- 2007 “The Role of Connexin 43 in the Anabolic Effect of Parathyroid Hormone.” Role: **Principal Investigator**. Agency: National Osteoporosis Foundation/Mazess Research Grant.
- 2005 “Osteoblast/osteocyte specific bisphosphonates and bone resorption.” Role: **Principal Investigator**. Pilot Study Grant Program, College of Medicine, University of Arkansas for Medical Sciences.
- 2005 “Connexin43 hemichannels and anti-apoptosis by bisphosphonates in osteoblastic cells.” Role: **Principal Investigator**. Research Seed Money Grant Program, Department of Internal Medicine, University of Arkansas for Medical Sciences.



- 2003 “Connexin43, bisphosphonates and apoptosis of osteoclasts and myeloma cells.” Role: **Principal Investigator**. Individual Allocation from American Cancer Society Institutional Research Grant.
- 2000-2002 Postdoctoral Research Fellowship, National Research, Council of Argentina (CONICET), Argentina.
- 1996 “Analysis of the effect of 1-derivatives of vitamin D on cultures of fibroblasts from patients with osteoporosis.” Role: **Principal Investigator**. Grant from Alberto J. Roemmers Foundation for young researchers (Medical Research), Argentina
- 1993 “Analysis of the immune response against *Pityrosporum ovale* in patients with psoriasis.” Role: **Principal Investigator**. Grant from Alberto J. Roemmers Foundation for Young Researchers (Medical Research), Argentina.

## **PROFESSIONAL SERVICE**

### **A) Editorial Boards**

- 2015-present Journal of Bone and Mineral Metabolism (Associate Editor)
- 2015-present Actualizaciones en Osteología (Associate Editor)
- 2014-present Revista de Osteoporosis y Metabolismo Mineral (member)
- 2013-present Endocrinology and Metabolism (member)
- 2012-2015 Cell Biology: Research & Therapy (member)
- 2011-present Bone (member)
- 2011-2015 Actualizaciones en Osteología (member)

### **B) Journal review**

*Ad Hoc* Reviewer since 2003 for:  
 Journal of Bone and Mineral Research  
 Bone  
 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

### **C) Grant review**

#### **National:**

- 2016-2017 Scientific reviewer, American Society for Bone and Mineral Research Rising Star Award.
- 2016 Scientific Reviewer, Special Emphasis Panel, NIH-NIDDK P01 application.
- 2015 Scientific reviewer, American Society for Bone and Mineral Research Grant in Aid Program.
- 2015 Scientific reviewer, Kentucky Science & Engineering Foundation.
- 2014 Scientific reviewer, American Society for Bone and Mineral Research Grant in Aid Program.
- 2013 Scientific reviewer, 2013 Pennsylvania Final Performance Review, 09-10 Cycle B. Pennsylvania Department of Health (PA DOH). Research projects funded by the PA DOH Master Tobacco Settlement.
- 2012 Scientific reviewer, 2012 Pennsylvania Final Performance Review, 09-10 Cycle B. Pennsylvania Department of Health (PA DOH). Research projects funded by the PA DOH Master Tobacco Settlement.
- 2012 Scientific reviewer, October 2012 Skeletal Biology Structure & Regeneration (SBSR) Study Section, NIH.
- 2012 Scientific reviewer, 2012 Peer Reviewed Medical Research Program (PRMRP) - Osteoporosis and Related Bone Disease, Discovery Award competition. US Army Medical Research and Materiel Command

(USAMRMC).

- 2010 Scientific reviewer, 2010 Peer Reviewed Medical Research Program (PRMRP) - Osteoporosis and Related Bone Diseases-O study section. US Army Medical Research and Materiel Command (USAMRMC).
- 2010 Scientific reviewer, 2010 Pennsylvania Final Performance Review, 09-10 Cycle B. Pennsylvania Department of Health (PA DOH). Research projects funded by the PA DOH Master Tobacco Settlement.
- 2010 Scientific reviewer, pre-proposals for the Investigator-Initiated Research Awards (IIRAs), 2010 Peer Reviewed Medical Research Program (PRMRP). Osteoporosis and Related Bone Disease study section. US Army Medical Research and Materiel Command (USAMRMC).
- 2009 Scientific reviewer, 2009 Peer Reviewed Medical Research Program (PRMRP) - Osteoporosis and Related Bone Diseases-O study section. US Army Medical Research and Materiel Command (USAMRMC).

**International:**

- 2009-2017 Scientific reviewer, Ministry of Labor, Health and Social Policies, Department of Innovation, General Directorate for Health and Technologies Research, **Italy** (contacted through the NIH).
- 2004-2016 Scientific reviewer, National Agency for the Advancement of Science and Technology, National Grant Competition, **Argentina**.
- 2015-2016 Scientific reviewer, Russian Science Foundation, Russian International Affairs Council, **Russia**
- 2014 Scientific reviewer, musculoskeletal panel, NASA Research and Education Support Service - International Life Sciences Research Announcement (ILSRA), a collaboration between the spaceflight agencies from **Japan, USA, EU, and Canada**.
- 2014 Scientific reviewer, Project Grant, Diabetes UK, **United Kingdom**.
- 2013 Scientific reviewer, Research Training Fellowship, the Wellcome Trust, **United Kingdom**.
- 2011 Scientific Reviewer, 2012 National Research Funding Competition, National Commission for Scientific and Technological Development (CONICYT) and the Superior Council of the National Fund for Scientific & Technological Development (FONDECYT), **Chile**.

#### **D) Abstract review**

- 2016 1<sup>st</sup> Argentinean Osteology Meeting AAOMM-SAO
- 2015 American Society for Bone and Mineral Research. 2015 Annual Meeting
- 2013 International Bone and Mineral Society and the Japanese Society for Bone and Mineral Research. 2013 IBMS-JSBMR Joint meeting
- 2013 American Society for Bone and Mineral Research. 2013 Annual Meeting
- 2012 39<sup>th</sup> Annual Congress European Calcified Tissue Society
- 2012 94<sup>th</sup> Annual Meeting of the Endocrine Society
- 2011 3rd Joint Meeting of the European Calcified Tissue Society and the International Bone and Mineral Society
- 2010 37<sup>th</sup> Annual European Symposium on Calcified Tissues

#### **E) Awards review**

- 2012 Harold Frost Young Investigator Award
- 2011 Harold Frost Young Investigator Award

#### **F) Session Moderator/Chair at Scientific Meetings**

- 2015 Chair, platform session 10: Connexins in inherited and acquired diseases. International Gap Junction Conference.
- 2011 Moderator, Concurrent Oral Session 40: Skeletal Loading and Bone Quality, American Society for Bone and Mineral Research 33<sup>rd</sup> Annual Meeting.
- 2011 Chair, Symposium session: Mechanotransduction in Bone. Endocrine Society 2011 ENDO Meeting.
- 2009 Moderator, Concurrent Oral Session 42: Osteocytes II: Wnt Pathway, American Society for Bone and Mineral Research 31<sup>st</sup> Annual Meeting.

#### **G) Departmental Service**

- 2009-present Graduate Studies Committee (member)

## H) University Service

2015-present IACUC (member)

2015-present Graduate Oversight Committee (member -representative of the Department of Anatomy and Cell Biology)

2009-present Electron Microscopy Advisory Committee (member)

## I) National Societies Service

2013-present Diversity in Bone and Mineral Research Subcommittee (member), American Society for Bone and Mineral Research.

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

2011-2014 Membership Engagement Committee (member), American Society for Bone and Mineral Research.

2005-2008 Advocacy Committee (member), American Society for Bone and Mineral Research.

## SCIENTIFIC PUBLICATIONS

### Peer-reviewed articles

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, Fossatti CA, Margni R, Leoni J. N-Glycanase treatment of F(ab')<sub>2</sub> 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 Veneorology** 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 A<sub>2</sub>: 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 $\mu$  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 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.
12. **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.
13. Plotkin H, **Plotkin LI**, Plotkin R. Use of bisphosphonates for treatment of patients with juvenile forms of osteoporosis. **Osteology** 3:184-187, 2000.
14. 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.

15. 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.
16. **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.
17. **Plotkin LI**, Manolagas SC, Bellido T. Transduction of cell survival signals by connexin43 hemichannels. **Journal of Biological Chemistry** 277:8648-8657, 2002.
18. 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.
19. 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.
20. Ahuja SS, Zhao S, Bellido T, **Plotkin LI**, Sato N, Bonewald L. CD40Ligand blocks apoptosis induced by tumor necrosis factor  $\alpha$ , glucocorticoid and etoposide in the osteocyte-like cell line MLO-Y4. **Endocrinology** 144:1761-1769, 2003.
21. 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.
22. 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.
23. 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.
24. 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.
25. **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.
26. **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.
  27. 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.
  28. 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**).
  29. **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**).
  30. **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.
  31. 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.
  32. 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.
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- response to PTH in cortical bone of mice lacking Cx43 cytoplasmic C-terminus domain. **Bone** 81:632-643, 2015.
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  63. 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** doi: 10.1002/jbmr.3011, 2016.
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  67. 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** doi: 10.1111/ace.12586

### **Invited reviews, editorials, and letters to the editor**

1. 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.
2. 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.
3. 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.
4. **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.
5. **Plotkin LI**. Connexin 43 and bone: not just a gap junction protein. **Actualizaciones en Osteología** 7:79-90, 2011.
6. Bellido T, **Plotkin LI**. Novel actions of bisphosphonates in bone: Preservation of osteoblast and osteocyte viability. **Bone** 49:50-55, 2011.
7. **Plotkin LI.**, Bellido, T. Beyond gap junctions: Connexin43 and bone cell signaling. **Bone** 52:157-166, 2013.
8. **Plotkin LI**. Apoptotic osteocytes and the control of targeted bone resorption. **Current Osteoporosis Reports** 12:121-126, 2014.
9. **Plotkin LI**. Connexin 43 hemichannels and intracellular signaling in bone cells. **Frontiers in Physiology** 5:1-8, 2014.
10. **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.
11. **Plotkin LI**, Bellido T. Comment on Osteocytes: Masters Orchestrators of Bone. **Calcified Tissue International**, 95:382-383, 2014.
  12. **Plotkin LI**, Speacht T, Donahue HJ. Cx43 and mechanotransduction in bone. **Current Osteoporosis Reports** 13:67-72, 2015.
  13. **Plotkin LI**, Stains JP. Connexins and pannexins in the skeleton: gap junctions, hemichannels and more. **Cellular and Molecular Life Sciences** 72:2853-2867, 2015.
  14. 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.
  15. **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.
  16. **Plotkin LI**, Bellido T. Osteocytic signaling pathways as therapeutic targets for bone fragility. **Nature Reviews Endocrinology**, doi:10.1038/nrendo.2016.71, 2016.
  17. **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.
  18. **Plotkin LI**, Pacheco-Costa R, Davis HM. microRNAs and connexins in bone: interaction and mechanisms of delivery. **Current Molecular Biology Reports** *in press* 2017.

## Book chapters

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. Bellido T, **Plotkin LI**, Bruzzaniti A. Bone Cells. **In Basic and Applied Bone Biology** (D.B. Burr and M.R. Allen, editors), Elsevier, 27-46, 2013.
4. **Plotkin LI**, Bivi N. Local regulation of bone cell function. **In Basic and Applied Bone Biology** (D.B. Burr and M.R. Allen, editors), Elsevier, 47-74, 2013.

## Special contributions

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

## INVITED SEMINARS AND LECTURES

1. Seminars of the Department of Microbiology, Immunology and Biotechnology, School of Pharmacy and Biochemistry, University of Buenos Aires, Buenos Aires, Argentina. “Analysis of the humoral immune response of patients with psoriasis.” 06/94.
2. 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 lipolytic system of *P. ovale*: its potential participation in the inflammatory manifestations of psoriasis.” 09/95.
3. Seminars of the Instituto de Estudios de la Inmunidad Humoral (IDEHU), Immunology, School of Pharmacy and Biochemistry, University of Buenos Aires, Buenos Aires, Argentina. “Mechanism that mediate inflammation.” 10/95.
4. Seminars of the Instituto de Estudios de la Inmunidad Humoral (IDEHU), Immunology, 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 A<sub>2</sub> produced by *Malassezia furfur*: a potential pathophysiological mechanism.” 04/96.
5. 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.” 05/97.
6. Endocrinology Grand Rounds, UAMS, Little Rock, AR. “Survival signals induced by bisphosphonates in osteocytes.” 03/00.
7. Endocrinology Grand Rounds, UAMS, Little Rock, AR. “CRM1/Exportin1-mediated nuclear export is required for the pro-survival effect of bisphosphonates on osteocytes: evidence for cytoplasmic-restricted signaling by ERKs.” 10/02.
8. Endocrinology Grand Rounds, UAMS, Little Rock, AR. “Transcription-independent inhibition of caspases by C/EBP $\beta$  in osteocytes: an anti-apoptotic signaling cascade uniquely activated by bisphosphonates.” 10/03.
9. VI International Symposium of Osteoporosis (SIO 2003) & III Symposium of Mercosur Metabolic Bone and Mineral Disease. “Comparative analysis of the mechanism of action of: PTH - Angels – Estrogens and Molecular basis for the action of bisphosphonates on osteocytes.” Mar del Plata, Buenos Aires, Argentina. 09/03.

10. Invited lecture. School of Dentistry, Dept. of Oral Biology and Dept. of Biological Sciences, University of Missouri at Kansas City. "Prevention of osteocyte apoptosis by bisphosphonates: a mechanism mediated by Cx43 hemichannels and transcription independent functions of ERKs." 02/05.
11. Department of Internal Medicine Research Conference, UAMS, Little Rock, AR. "Glucocorticoid excess disrupts the canalicular circulation: potential mechanism of the disparity between bone density and strength in glucocorticoid induced osteoporosis and osteonecrosis." 10/05.
12. Invited lecture. Fundación Jiménez Díaz, Madrid, Spain. "Molecular mechanism of action of bisphosphonates on osteocytes." 08/07.
13. Invited lecture. Department of Anatomy and Cell Biology, Indiana University School of Medicine, Indianapolis, IN. "Connexin 43 and kinase activation: a novel paradigm of signal transduction activated by bisphosphonates in osteocytes and osteoblasts." 11/07.
14. Invited lecture. Eli Lilly and Company, Indianapolis, IN. "Why keep osteocytes alive and how?" 02/09.
15. Invited lecture. Medical & Molecular Genetics Research Club, Indiana University School of Medicine, Indianapolis, IN. "Prevention of osteocyte and osteoblast apoptosis by bisphosphonates: unraveling a new paradigm of signal transduction mediated by Cx43" 05/09.
16. Invited speaker, Boston Area DiscoverX Technology Symposium, Cambridge, MA. "Cx43- $\beta$ -arrestin association and the activation of cAMP-mediated survival signaling by parathyroid hormone in osteoblasts" 06/09.
17. Invited speaker. 36th European Symposium on Calcified Tissues, Vienna, Austria. Workshop 4: New roles for estrogen receptors: New insights into sex hormones and bone 05/09.
18. Invited speaker, XXVI Reunión Anual 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" 08/09.
19. Invited speaker, 31<sup>st</sup> Annual Meeting of the American Society for Bone and Mineral Research, Denver, CO. Plenary Symposium III: 40th Anniversary of Bisphosphonates - Yesterday, Today and Tomorrow. "Novel bisphosphonate actions on bone: preservation of osteocyte and osteoblast viability" 09/09.
20. Invited lecture. Endocrine Research Conference, Indiana University School of Medicine, Indianapolis, IN. "Connexin43 and osteocyte viability" 03/10.
21. 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” 05/10.

22. 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” 05/10.
23. 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” 6/12.
24. Invited speaker, Seminar series at the Center for Applied Medical Research, University of Navarra, Pamplona, Spain. "Cx43, osteocyte apoptosis and bone remodeling" 7/12.
25. Invited speaker. Biomedical Engineering Seminar Series, Purdue University, Indianapolis, IN, USA. “Connexins, Osteocyte Survival and Regulation of Osteoclastogenesis: Novel pathways with Therapeutic Potential” 1/13.
26. Invited speaker, 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” 7/13.
27. 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?” 11/13.
28. Invited speaker, Federal University of São Paulo School of Medicine. São Paulo, Brazil. “Control of bone resorption by apoptotic osteocytes” 9/14.
29. Invited speaker, VA Research Seminar, Richard L. Roudebush VA Medical Center, Indianapolis, IN, USA. “Connexins in bone: gap junctions, hemichannels, and more” 7/15.
30. Invited speaker, 1<sup>er</sup> 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” 10/16

#### **PRESENTATION AT SCIENTIFIC MEETINGS** (\* selected for oral presentation)

1. L. Morelli, **L.I. Plotkin**, R. Stumpo, C.A. Fossati, J. Leoni, R.A. Margni. 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. L. Morelli, I. Mathov, **L.I. Plotkin**, C.A. Fossati, R.A. Margni. 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. L. Morelli, **L.I. Plotkin**, I. Mathov, C.A. Fossati, R.A. Margni. 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. I. Mathov, **L.I. Plotkin**, C.A. Fossati, R.A. Margni, J. Leoni. Immunochemical studies of primary interaction on murine IgG<sub>3</sub> 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. **L.I. Plotkin**, I. Mathov, C.A. Fossati, J. Leoni, R.A. Margni. Evidence of Fc-Fc association in secondary interaction on murine IgG<sub>3</sub> 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. **L.I. Plotkin**, J. Leoni, R. Galimberti, L. Squiquera. 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. C. Abatángelo, **L.I. Plotkin**, I. Mathov, J. Leoni. 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. I. Mathov, **L.I. Plotkin**, C.A. Fossati, R.A. Margni, J. Leoni. Effect of the differential glycosilation in the immunochemical and functional properties of murine IgG<sub>3</sub> monoclonal antibodies. Proceedings of the III Latin American Congress of Immunology. Santiago, Chile, 1993.
9. L. Squiquera, **L.I. Plotkin**, R. Galimberti, J. Leoni. Sera from patients with psoriasis react with a 120 kD soluble protein from *Pityrosporum ovale* periplasma. 54<sup>th</sup> Annual Meeting of the Society of Investigative Dermatology. Washington D.C., USA. *Journal of Investigative Dermatology* 100 576, 1993.
10. C. Abatangelo, **L.I. Plotkin**, V. Marcote, J. Leoni. 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. **L.I. Plotkin**, L. Squiquera, R. Galimberti, J. Leoni. 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. C. Abatangelo, **L.I. Plotkin**, I. Mathov, V. Marcote, J. Leoni. 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. I. Mathov, **L.I. Plotkin**, R. Margni, J. Leoni. Acquisition of the precipitating capacity through the elimination of carbohydrates molecules from murine IgG<sub>3</sub> 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. **L.I. Plotkin**, J. Leoni, R. Galimberti, L. Squiquera. 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. L. Squiquera, **L.I. Plotkin**, R. Galimberti, J. Leoni. 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. L. Squiquera, **L.I. Plotkin**, R. Galimberti, J. Leoni. 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.\*
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84. Y. Rhee, E. Farrow, R. Lee, N. Bivi, V. Lezcano, **L.I. Plotkin**, K.E. White, T. Bellido. 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. 31<sup>st</sup> 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. Y. Rhee, M.R. Allen, K. Condon, **L.I. Plotkin**, V. Lezcano, K. Vyas, C.A. O'Brien, D. Burr, T. Bellido. PTH receptor signaling in osteocytes governs periosteal bone formation and intra-cortical remodeling: divergent role of *sost* and the Wnt pathway. 31<sup>st</sup> 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. A.R. Gortazar, M. Martín Millán, **L.I. Plotkin**, T. Bellido. ERK activation and osteocyte survival induced by mechanical stimulation requires LRP5/6 expression and  $\beta$ -catenin accumulation, but not TCF-mediated transcription. XIV Meeting of the Spanish Society for Bone and Mineral Metabolism Research, Santander, Spain, 2009.
87. N. Bivi, N. Farlow, M. Nelson, K. Condon, J. Li, M.R. Allen, T. Bellido, **L.I. Plotkin**. Cx43 deletion in osteocytes results in cortical osteocyte apoptosis, periosteal expansion and reduced bone material stiffness. 40<sup>th</sup> IBMS Sun Valley Workshop: Musculoskeletal Biology. Sun Valley, ID, USA, 2010. (Harold M. Frost Award).\*

88. N. Bivi, M. Nelson, R. Lee, J.D. Benson, K. Condon, J. Li, M.R. Allen, T. Bellido, **L.I. Plotkin**. Cx43 in Osteocytes, but not in Osteoblasts, Is Required to Preserve Osteocyte Viability, Bone Geometry and Material Stiffness. 32<sup>nd</sup> 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. Y. Rhee, M.R. Allen, **L.I. Plotkin**, N. Bivi, R. Lee, J.D. Benson, V. Lezcano, A.C Ronda, T. Bellido. Resorption is an essential component of bone anabolism induced by active PTH receptor signaling in osteocytes. 32<sup>nd</sup> 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. X. Tu, Y. Rhee, R. Lee, J.D. Benson, K. Condon, N. Bivi, **L.I. Plotkin**, C.H. Turner, A.G. Robling, T. Bellido. Downregulation of Sost/sclerostin expression is required for the osteogenic response to mechanical loading. 32<sup>nd</sup> 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. N. Bivi, K. Condon, J. Benson, N. Farlow, G. Passeri, T. Bellido, **L.I. Plotkin**. Connexin 43 controls osteocyte viability and osteocytic gene expression in a cell autonomous fashion and regulates endocortical resorption and periosteal bone formation. 93<sup>rd</sup> Annual Meeting of the Endocrine Society, Boston, MA, USA, 2011.
92. N. Bivi, K. Condon, J. Benson, N. Farlow, G. Passeri, T. Bellido, **L.I. Plotkin**. 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. N. Bivi, N. Farlow, L. Brun, J. Benson, K. Condon, A. Robling, T. Bellido, **L.I. Plotkin**. Unexpected enhanced response to mechanical loading of mice lacking Cx43 exclusively in osteocytes. 33<sup>rd</sup> 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. X. Tu, R. Edwards, N. Olivos, J. Benson, C. Galli, G. Pellegrini, N. Bivi, **L.I. Plotkin**, T. Bellido. Conditional deletion of the parathyroid hormone (PTH) receptor 1 from osteocytes results in decreased bone resorption and a progressive increase in cancellous bone mass. 33<sup>rd</sup> 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. X. Tu, G. Pellegrini, C. Galli, J. Benson, K. Condon, N. Bivi, **L.I. Plotkin**, A.G. Robling, T. Bellido. PTH receptor 1 expression in osteocytes is indispensable for the anabolic effect of mechanical loading in mice. 33<sup>rd</sup> 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 A, 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. 34<sup>th</sup> 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. 34<sup>th</sup> 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. 34<sup>th</sup> 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” 35<sup>th</sup> 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” 35<sup>th</sup> 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” 35<sup>th</sup> 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” 35<sup>th</sup> 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” 35<sup>th</sup> 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” 35<sup>th</sup> 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” 35<sup>th</sup> 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.” 36<sup>th</sup> 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.” 36<sup>th</sup> 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.” 36<sup>th</sup> 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.” 36<sup>th</sup> 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.” 36<sup>th</sup> 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.” 36<sup>th</sup> 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.” 36<sup>th</sup> 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. 37<sup>th</sup> 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 atrogin1 and MuRF1. 37<sup>th</sup> 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. 37<sup>th</sup> 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. 37<sup>th</sup> 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. 37<sup>th</sup> 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. 37<sup>th</sup> 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. 37<sup>th</sup> 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/ $\beta$ -catenin Signaling and Decreased Osteoclastogenic Potential of Osteocytic Cells Lacking Cx37. 38<sup>th</sup> 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. 38<sup>th</sup> 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. 38<sup>th</sup> 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. 38<sup>th</sup> 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. 38<sup>th</sup> 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. 38<sup>th</sup> 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. 38<sup>th</sup> 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. 38<sup>th</sup> 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. 38<sup>th</sup> 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. 38<sup>th</sup> 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. 38<sup>th</sup> 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. 38<sup>th</sup> 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. 38<sup>th</sup> 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.\*