

**CURRICULUM VITAE
ROBERTO CIVITELLI, M.D.**

DATE: August 20, 2020

PERSONAL INFORMATION:

Date of Birth: October 28, 1955
Place of Birth: Poggibonsi, Siena, Italy

CITIZENSHIP: USA, Italy

ADDRESS AND TELEPHONE NUMBERS:

Office: Washington University School of Medicine
Division of Bone and Mineral Diseases; Campus Box 8301
660 S. Euclid Ave.
St. Louis, MO. 63110
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E-mail: civitellir@wustl.edu

Clinical: Washington University School of Medicine
Center for Advanced Medicine
4921 Parkview
St. Louis, MO 63110

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Frontenac, Missouri 63131
Phone: (314) 966-9899

PRESENT POSITION:

Division Chief, Bone and Mineral Diseases, Department of Internal Medicine;
Director, Skeletal Disorders Training Program (T32),
Washington University School of Medicine, St. Louis, MO.

EDUCATION:

Undergraduate/Graduate:

11/1974 - 06/1980: Laurea in Medicina e Chirurgia (Degree in Medicine and Surgery
Diploma, undergraduate/graduate combined program)
Siena University, School of Medicine, Siena Italy
Date of graduation: 06/23/1980; Grade: 110/110 with laude

Postgraduate:

11/1980 - 7/1985: School of Specialization in Internal Medicine,
Siena University, School of Medicine, Siena Italy
Date of graduation: 6/15/1985; Grade: 70/70 with laude

7/1985 - 6/1989: Fellowship in Endocrinology and Metabolism,
Division of Bone and Mineral Metabolism
The Jewish Hospital of St. Louis,
Washington University Medical Center; director: Louis V. Avioli, M.D.



ACADEMIC POSITIONS / EMPLOYMENT:

7/1989 – 6/1995: Assistant Professor of Medicine, Washington University
7/1995 – 6/2000: Associate Professor of Medicine, Washington University
7/1996 – 6/2000: Associate Professor of Orthopaedic Surgery, same Institution
7/1996 – 6/2000: Assistant Professor of Cell Biology and Physiology, same Inst.
7/2000 – present: Professor of Medicine, with joint appointments as Professor of Orthopaedic Surgery
and Professor of Cell Biology and Physiology
Washington University School of Medicine, St. Louis

UNIVERSITY AND HOSPITAL APPOINTMENTS AND COMMITTEES:

Internal Medicine Computer Support Services Committee, 1998-1999
Faculty Practice Plan: Musculoskeletal Center Planning Committee, 1998-1999
Sydney M. and Stella H. Schoenberg Chair in Medicine, August 2003

MEDICAL LICENSURE AND BOARD CERTIFICATION:

Missouri: 36936 MD
Italian Board of Internal Medicine: 1985
ECFMG (FMGEMS): 1985
FLEX: 1988

MILITARY SERVICE:

Medical Officer of the Italian Army
Grade: Complement Lieutenant

HONORS AND AWARDS:

Elizabeth Winston Lanier Kappa Delta Award for Outstanding Orthopedic Research, 1991
The American Academy of Orthopaedic Surgeons
John M. Kinney International Award for Nutrition and Metabolism, 1992
The Fuller Albright Young Investigator Award, 1994
The American Society for Bone and Mineral Research
Outstanding Faculty Mentor Award, 2011 – 2012
Washington University School of Arts and Sciences
Shirley Hohl Service Award, 2017
The American Society for Bone and Mineral Research

EDITORIAL RESPONSIBILITIES:

Editorial Boards:
Calcified Tissue International: 1/1991 - 12/1999
The Journal of Clinical Endocrinology and Metabolism: 1/1992 - 12/1995
The Journal of Bone and Mineral Research: 1/1994 – 7/2014
The Journal of Laboratory and Clinical Medicine: 1/1996 - 12/1999
Editor: Calcified Tissue International: 1/2000 – 7/2013
Editor Emeritus: Calcified Tissue International 8/2013 – present
Editor-In-Chief: Journal of Bone and Mineral Research 1/2018-12/2022

PROFESSIONAL SOCIETIES AND ORGANIZATIONS:

American Society for Bone and Mineral Research, since March 1986
International Bone and Mineral Society, 1986-2015
American Federation for Medical Research, 1987-1998

American Society for Cell Biology, since February 1989
The Endocrine Society, since July 1989
The American Physiological Society, 1995-2005
American Society for Clinical Investigation, since May 1998
The International Society for Clinical Densitometry, since 2000
Association of American Physicians, since April 2005

MAJOR INVITED PROFESSORSHIPS AND LECTURESHIPS:

Merck Sharp & Dohme Research Laboratories, West Point, PA,
Visiting Professor, March 19, 1992.
University of Toronto, Dept. of Cellular Biology and Physiology, Toronto, Ont.
Visiting Professor, February 10, 1993.
Harvard Medical School, Beth-Israel and Massachusetts General Hospitals, Boston, MA.
Visiting Professor, June 12 and 13, 1995.
University of California San Francisco, and VA Medical Center, San Francisco, CA
Visiting Professor, May 1, 1996.
PennState University, The Milton S. Hershey Medical Center, Hershey, PA
Visiting Professor, October 22, 1997.
University of Massachusetts at Worcester, MA.
Visiting Professor, April 14, 1998.
University of Kentucky Medical Center, Lexington, KY
Medicine Grand Rounds, October 18, 2000.
Yale University School of Medicine, New Haven, CT
Endocrine Grand Rounds, November 2, 2000.
University of Arkansas for Medical Sciences, Osteoporosis and Metabolic Disease Ctr.
Medicine Grand Rounds, Endocrine Grand Rounds, December 7 and 8, 2000
Emory University Medical School, Atlanta, GA
Visiting Professor, January 10, 2001.
University of Virginia, Charlottesville, VA
Endocrine Grand Rounds, January 16, 2001
University of Connecticut Health Science Center, Farmington, CT
Visiting Professor, February 21, 2001.
Northwestern University, Chicago, IL.
Visiting Professor, October 24, 2002.
The Korean Society of Endocrinology, 2002 annual meeting, Jeju, Korea
Keynote Speaker, November 2, 2002
University of Massachusetts at Worcester, MA.
Visiting Professor, October 14, 2003.
University of Louisville, Kentucky
Visiting Professor, November 3, 2004.
Baylor College of Medicine, Houston, TX
Visiting Professor, December 3, 2004.
Wake Forest University, Winston-Salem, NC
Visiting Professor, July 11, 2005.
Skeletal Tissue Engineering Group Amsterdam (STEGA) Symposium,
Keynote speaker, November 25, 2005, Amsterdam, The Netherlands.
Southern Illinois University, Urbana-Champaign, IL;
Visiting Professor, December 7, 2005.

Italian Society for Osteoporosis and Mineral Metabolism, Siena, Italy
Invited Speaker; November 16-18th, 2006

University of Pennsylvania, Philadelphia, PA
Visiting Professor, January 11, 2006.

Secondary Osteoporosis and Endocrine Disorders
Invited speaker; Ancona, Italy, October 4, 2006.

Spanish Society of Rheumatology, Salamanca, Spain
Keynote speaker, October 7, 2006.

Emory University, Atlanta, GA
Visiting Professor, December 18-19, 2006.

University of Louisville, Louisville, KY
Endocrine Grand Rounds, January 10, 2007.

University of North Carolina, Chapel Hill, NC
Visiting Professor, January 18, 2007.

Skeletal Endocrinology, Second Meeting; Brescia, Italy
Invited speaker, March 3, 2007.

DIBIT – San Raffaele Hospital and Research Institute, Milan, Italy
Visiting Professor, March 5, 2007.

Cleveland Clinic, Cleveland, OH
Endocrine Grand Rounds, March 23, 2007.

European Calcified Tissue Society, 34th Annual Meeting, Copenhagen, Denmark,
Invited Speaker, May 8, 2007.

Korean Society of Molecular Biology and Biochemistry, annual meeting, Seoul, Korea
Invited Speaker, May 8, 2008.

Osteoporosis in Endocrinopathies, Ancona, Italy
Invited speaker; September 25, 2008.

University of Texas Health Science Center, San Antonio, TX
Visiting Professor; November 13, 2008.

Santa Fe Bone Club; University of New Mexico, Santa Fe, NM
Keynote Speaker, February 5, 2009

Bone Densitometry and Osteoporosis Course, Parma, Italy
Invited Speaker, June 18, 2009

University of Michigan Health System, Ann Arbor, MI
Visiting Professor, July 22-23, 2009

Accademia di Medicina di Torino, Italy
Keynote Lecturer, November 17, 2009

Italian Society for Osteoporosis and Metabolic Bone Diseases, Torino, Italy
Invited Speaker, November 18- 21, 2009.

ASBMR, 32nd annual meeting, Toronto, Ontario, Canada
State-of-the-Art Lecture, October 16, 2010.

Osteoporosis in Endocrinopathies, 3rd Symposium, Ancona, Italy
Keynote Lecture; October 22, 2010.

University of Bari, Italy; Symposium in honor of Mone Zaidi, MD, PhD
Keynote Lecture; November 30, 2010.

St. Luke's Hospital, St. Louis, MO
Medicine Grand Rounds; December 7, 2010.

IBMS Sun Valley Workshop; Musculoskeletal Biology, Sun Valley, ID
Invited Speaker, August 3, 2011.

Int'l Symposium – The Discovery of a New Endocrine Gland: The Bone, Rome, Italy
Invited Lecture; October 29, 2011.

Italian Society for Osteoporosis and Metabolic Bone Disorders, Rome, Italy
Invited Lecture, November 18, 2011.

Washington University Continuing Medical Education, St. Louis, MO
Chair: Osteoporosis Management, April 14, 2012

The Endocrine Society Annual Meeting, Houston, TX
Chair, Meet-the-Professor Session, June 26, 2012.

New Mexico VA Health Care System, Albuquerque, NM
Visiting Professor; September 19, 2012.

University of Alabama, Birmingham, AL
Visiting Professor; January 18, 2013

European Congress on Osteoporosis and Osteoarthritis, Rome, Italy
Meet-The-Expert Session; April 20, 2013

Washington University Continuing Medical Education, St. Louis, MO
Chair: Update on Osteoporosis and Fracture Prevention; April 4, 2013

CME Optimizing Clinical Outcomes in Osteoporosis, New York, NY
Invited Speaker; May 18, 2013

International Chinese Musculoskeletal Research Conference, Suzhou, China
Invited Speaker; May 21- 23, 2013

Northwestern Polytechnical University, Xian, China
Invited Lecture; May 24, 2013

International Gap Junction Conference, Charleston, SC
Session Chair; July 18, 2013

Chonnam National University, Gwangju, Korea
Invited Speaker; September 4, 2013

Seoul National University, Seoul, Korea
Invited Speaker; September 5, 2013

Asian Federation of Osteoporosis Societies 3rd Scientific Meeting, Seoul, Korea
Invited Lecture; September 7 – 8, 2013

Italian Society for Osteoporosis and Metabolic Bone Disorders/American Society for Bone and Mineral Research Joint Program, Bologna, Italy
Invited Speaker; November 15, 2013

University of Rochester, New York, NY
Endocrine Grand Rounds; January 10, 2014

Anderson Hospital Continuing Medical Education, Maryville, IL
Invited Lecture; March 12, 2014

Sarcopenia and Bone; Rome, Italy
Invited Speaker; April 1, 2014

World Congress on Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (IOF-ESCEO-WCO), Seville, Spain
Invited Speaker; April 4, 2014

Advances in Mineral Metabolism, Snowmass, CO
Invited Speaker; April 7, 2014

Washington University Continuing Medical Education, Update of Osteoporosis and Fracture Prevention; St. Louis, MO
Chair and Speaker; May 3, 2014

American Society for Bone and Mineral Research Primer Course, Rio de Janeiro, Brazil
Invited Speaker; August 30, 2014

European Diabetes and Bone Meeting; Rome, Italy
Invited Speaker; November 7, 2014

Italian Society for Osteoporosis and Metabolic Bone Disorders/American Society for Bone and Mineral Research Joint Program, Rome, Italy
Invited Speaker; November 13, 2014

Academia de Medicina di Torino, Torino, Italy
Invited Speaker; November 18, 2014

Symposium for Tissue Regeneration and Clinical Applications, Hong Kong, China
Invited Speaker; April 8, 2015

2nd Annual International Chinese Musculoskeletal Research Society Conference, Changsha, China
Invited Speaker; April 10, 2015

European Calcified Tissue Society-International Bone and Mineral Society Joint Meeting, Rotterdam, The Netherlands
Invited Speaker; April 26, 2015

Washington University Continuing Medical Education, Update of Osteoporosis and Fracture Prevention; St. Louis, MO
Chair and Speaker; May 9, 2015

Washington Bone Club, Bethesda, MD
Invited Speaker; May 21, 2015

American Society for Bone and Mineral Research 2nd Primer Course, Rio de Janeiro, Brazil
Invited Lecturer; August 22, 2015

Italian Society for Osteoporosis and Metabolic Bone Disorders/American Society for Bone and Mineral Research Joint Program, Bologna, Italy
Invited Speaker; November 12, 2015

Update on Osteoporosis CME Program, Rome, Italy
Invited Speaker; December 5, 2015

The Croucher Foundation Advanced Study Institute Integrative Approaches to Understanding Disorders of the Skeleton, Hong Kong, China
Invited Speaker; January 11-12, 2016

University of Pennsylvania, Philadelphia, PA
Visiting Professor; January 19, 2016

Medicine Grand Rounds, Washington University School of Medicine, St. Louis, MO
Invited Speaker; March 24, 2016

Johns Hopkins School of Medicine, Baltimore, MD
Invited Speaker; April 6, 2016

Chronic Kidney Disease and Metabolic Bone Disease: Past, Present, Future; Washington University School of Medicine, St. Louis, MO
Chair and Presenter; April 8, 2016

Washington University Continuing Medical Education, Update on Osteoporosis and Fracture Prevention; St. Louis, MO
Chair and Speaker; April 30, 2016

Brazilian Orthopedic Association for Bone Metabolism (ABOOM) XII Metabolic Bone Diseases Orthopedic Meeting; Fortaleza, Brazil
Invited Speaker; June 16, 2016

Medicine Grand Grounds, St. Lukes Hospital, Chesterfield, MO
Invited Speaker; September 9, 2016

Congresso Brasileiro de Densitometria Oseoporose e Osteometabolismo (BRADOO), Joinville, Brazil
Invited Speaker; October 30, 2016
Western University, London, Ontario, Canada
Invited Speaker; November 15, 2016
Medical University of South Carolina, Charlottesville, SC
Invited Speaker; February 9, 2017
Washington University Continuing Medical Education, Update on Osteoporosis and Fracture Prevention,
St. Louis, MO
Chair and Speaker; April 29, 2017
Innovation and Technology: The New Frontier for Human Health, Campus Bio-Medico University Rome,
Italy
Visiting Professorship; May 18 - 25, 2017
Anderson Hospital Continuing Medical Education Medicine Update, Maryville, IL
Invited Speaker; March 7, 2018
Baylor College of Medicine Grand Rounds, Houston, TX;
Visiting Professor; April 12-13, 2018
Washington University Continuing Medical Education, Update on Osteoporosis and Fracture Prevention,
St. Louis, MO
Chair and Speaker; April 14, 2018
Korean Society of Bone and Mineral Research 6th Symposium on Bone Health, Seoul, Korea
Invited Speaker and Meet the Editor Workshop; May 11-12, 2018
Australian and New Zealand Bone and Mineral Society Annual Scientific Meeting, Queenstown, New
Zealand
Invited Speaker and Session Chair; September 2-5, 2018
Italian Society for Osteoporosis and Metabolic Bone Disorders/American Society for Bone and Mineral
Research Joint Program, Naples, Italy
Invited Speaker and Session Chair; October 25-27, 2018
Washington University Continuing Medical Education, Update on Osteoporosis and Fracture Prevention,
St. Louis, MO
Chair and Speaker; April 13, 2019
Korean Society of Bone and Mineral Research 7th Symposium on Bone Health, Seoul Korea, Seoul, Korea
Invited Speaker and Meet the Editor Workshop; May 30-June 1, 2019

CONSULTING RELATIONSHIPS AND BOARD MEMBERSHIPS:

Grant Reviewer

NIH-NIA *ad hoc* Study Section: Trophic Factors for the Prevention of Physical Frailty, March 1992
NIH: Musculoskeletal and Dental Sciences IRG: General Medicine B Study Section, permanent member,
August 26, 1997 - June 30, 2001.
NASA: International Space Life Sciences Peer Review, Cellular and Molecular Biology panel member, 1997
and 1998.
NIH-NIAMS *ad hoc* Study Section: Musculoskeletal Core Centers, November 1998
NIH-Musculoskeletal and Dental Sciences Special Emphasis Panel: Bioengineering Research Partnerships,
March 2000.
NASA-NPRS: International Bone Biology Flight Panel, October 2001.
NASA Peer Review - Bone Biology Panel Chair, November 3-4, 2003; November 17-18, 2004.
NIH: Skeletal Biology Structure and Regeneration Study Section, *ad hoc* member, October 2004; October
2007; February 2009.
United Kingdom Medical Research Council, reviewer; 2008.

Germany Ministry of Education and Research (Bundesministerium für Bildung und Forschung),
Musculoskeletal Disease Consortia, review panel member; 2009.
Italy Ministry of Health (Ministero della Salute), grant reviewer; 2010.
NIH-NIDCR: Special Grants Review Committee, permanent member; 2010-2012.
Danish Council for Strategic Research, permanent member, 2012-present
NIH-NIAMS: AMS Review Committee, ad hoc member, 2011, 2013, 2014
Netherlands Organization for Scientific Research (Nederlandse Organisatie voor Wetenschappelijk
Onderzoek), grant reviewer, 2013
Health Research Council of New Zealand, grant reviewer, 2014
NCI: Omnibus Review Committee, ad hoc member, 2014, 2015
NIH-NIAMS: AMSC Clinical Trial Review Committee member; 2015-2019
FDA: Clinical Trial Grant Application Review Panel for the Office of Orphan Products Development, ad hoc
member, 2018

Scientific Advisory and Professional Society Service

Missouri Osteoporosis Foundation:
Member of the Advisory Board; 1999 – present.
American Society for Bone and Mineral Research:
Publications Committee; 1998 – 2001.
Member of the Board of Councilors; 2006 – 2009.
President-Elect, President, Past-President; 2012 – 2015.
Federation of American Societies for Experimental Biology:
Publications and Communication Committee, 2003 – 2005.
Board of Directors, 2015- 2017
American College of Rheumatology
Committee for Glucocorticoid-Induced Osteoporosis Recommendations; 2015

RESEARCH SUPPORT:

ACTIVE

a. Governmental

1. 1R01 CA243383-01 (Civitelli) 07/01/20 – 06/30/25
NIH/NCI
N-Cadherin in Extracellular Osteolineage Cells Maintains Tumor Growth
The objective of this project is to determine the role of N-cadherin in osteolineage cells present in extracellular tumors for cancer growth and metastasis, and to identify molecular targets in these newly identified tumor microenvironment cells that can be used to control such growth.
2. T32 AR060719 (Civitelli) 05/01/16 – 04/30/21
NIH-NIAMS
Skeletal Disorders Training Program
The goals of this project are to establish the infrastructure and provide salary support for training the next generation of scientists and physicians focused on skeletal disorders.
3. R01 AR073017-02 (Peterson) 07/01/18 – 06/30/22
NIH-NIAMS
Genetic Factors of Bone Loss in Older Adults Taking Antidepressants
The major goal of this research is to demonstrate the effects of antidepressants, usually serotonin reuptake inhibitors (SRIs), on bone loss and the genetic modifiers. It will clarify whether, why, and in whom

SRIs lead to osteoporosis, improve patient care and health outcomes for older adults, and identify novel treatment targets for bone health.

4. P30 AR074992-01 (Silva) 04/01/19 – 03/31/24

NIH-NIAMS

Resource Based Center for Musculoskeletal Biology and Medicine (Overall Application)

The overall objective of the Center is to support the Research Community in the development, implementation and evaluation of animal models for musculoskeletal biology and medicine.

b. Non-Governmental

1. 4843 (Civitelli) 07/01/09 – 06/30/21

BJHF Endowed Chair

Sydney M. and Stella H. Shoenberg Endowed Chair

The purpose of this funding is to support unsponsored research activity of the Chairholder, income remaining to support unsponsored research in the Chairholder's department.

PAST

1. "Osteoblast Regulation by Stretch via Gap Junctions"

Principal Investigator: Roberto Civitelli, M.D.

Agency: NASA-Life Sciences Division

Type: Ground Research Project (NRA 99-HEDS-02-110)

Funding Period: 7/1/2000 – 6/30/2004

2. "Celiac Disease in Osteoporosis"

Co-Investigator (Principal Investigator: William Stenson, M.D.)

Agency: National Institute of Diabetes, Digestive and Kidney Diseases

Funding Period: 7/1/2000 – 6/30/2005

3. "Cadherin Regulation of Osteoblast Function"

Principal Investigator: Roberto Civitelli, M.D.

Agency: National Institute of Arthritis, Musculoskeletal and Skin Diseases

Funding Period: 7/1/2001 – 6/30/2006

4. "Role of Connexin43 in Risedronate Prevention of Estrogen Dependent Bone Loss in Mice"

Principal Investigator: Roberto Civitelli, M.D.

Sponsor: Procter & Gamble Pharmaceuticals

Funding Period: 6/01/2006 – 12/31/2009

5. "Regulation of Osteogenesis by Cadherins"

Principal Investigator: Roberto Civitelli, M.D.

Sponsor: Endocrine Society

Funding Period: 2/01/2007 – 01/31/2008

6. "Bone-active treatments for chronic periodontitis"

Co-Investigator (Principal Investigator: Charles Hildebolt, D.D.S., Ph.D.)

Agency: National Institute of Dental and Craniofacial Diseases

Funding Period: 3/1/2007 – 2/28/2009

7. "Regulation of Osteogenesis by Cadherins"
Principal Investigator: Roberto Civitelli, M.D.
Sponsor: American Society for Bone and Mineral Research
Funding Period: 2/01/2008 – 1/31/2009
8. "Smad4/ β -catenin Signaling Cross-Talk for Osteoblastogenesis"
Principal Investigator: Roberto Civitelli, M.D.
Agency: National Institute of Arthritis, Musculoskeletal and Skin Diseases
Funding Period: 2/01/2010 - 1/31/2016
9. "Cadherin Mediated Cell-Cell Interactions in the Bone Microenvironment"
Principal Investigator: Roberto Civitelli, M.D.
Agency: National Institute of Arthritis, Musculoskeletal and Skin Diseases
Funding Period: 7/1/2010 - 6/30/2015
10. "Calorie Restriction and Metabolic Health"
Co-Investigator (Principal Investigators: Bettina Mittendorfer, Ph.D., and Samuel Klein, M.D.)
Agency: National Institute of Diabetes and Digestive and Kidney Diseases
Funding Period: 9/21/2011 - 7/31/2016
11. "Connexin43 in Bone Remodeling"
Principal Investigator: Roberto Civitelli, M.D.
Agency: National Institute of Arthritis, Musculoskeletal and Skin Diseases
Funding Period: 9/1/2013 – 8/31/2019
12. "Characterization and Tumorigenic Action of Osteolineage Cells in the Breast Cancer Microenvironment"
Multiple Principal Investigators: Roberto Civitelli, M.D., Roberta Faccio, Ph.D.
Agency: Washington University – Siteman Investment Program
Funding Period: 7/01/2017 – 6/30/2019

CLINICAL TITLE AND RESPONSIBILITIES:

Professor of Medicine, Attending Physician in the Department of Medicine,
Director: Clinical Research Unit, Division of Bone and Mineral Diseases
Washington University School of Medicine

TEACHING TITLE AND RESPONSIBILITIES:

Director: Skeletal Disorders Training Program (2011-2021)
Attending Physician: Acute Medicine Teaching Rounds
Division of Biology and Biomedical Sciences, Cellular and Molecular Biology Program
Mentor: Valerie Salazar (graduated 2011); Leila Revollo (graduated 2014).
Thesis Committee Member: Matthew Christopher (2007); Hilary Luderer (2008); Jesse Otero (2009) Adam Greenbaum (2012); Emel Esen (2013); Teerawit Supakorndej (2014); Heather Zannit (2016); Jingzhu Zhang (2017); Evan Buettman (2019); Taylor Comte (2021); Chris Chermide-Scabbo (2021).

BIBLIOGRAPHY:

Peer-reviewed Manuscripts:

1. Nami R, Francini G, **Civitelli R**, Bianchini C, Bernini M, Zacchei F, Gennari C: Effetti dell'infusione endovenosa di PTH umano sui valori di pressione arteriosa nel soggetto normoteso. *Bollettino della Societa' Italiana di Cardiologia*, 1983; XXVIII(7): 595-604
2. Gennari C, Chierichetti SM, Piolini M, Vibelli C, Agnusdei D, **Civitelli R**, Gonnelli S: Analgesic activity of salmon and human calcitonin against cancer pain: a double-blind, placebo-controlled clinical study. *Curr Ther Res*. 1985; 38: 298-308
3. Hruska KA, Moskowitz D, Esbrit P, **Civitelli R**, Westbrook S, Huskey M: Stimulation of inositol triphosphate and diacylglycerol production in renal tubular cells by parathyroid hormone. *J Clin Invest*. 1987; 79: 230-239
4. Reid IR, **Civitelli R**, Westbrook SL, Avioli LV, Hruska KA: Cytoplasmic pH regulation in canine renal proximal tubule cells. *Kidney Int*. 1987; 31: 1113-1120
5. **Civitelli R**, Reid IR, Halstead LR, Avioli LV, Hruska KA: Membrane potential and cation content of osteoblast-like cells (UMR 106) assessed by fluorescent dyes. *J Cell Physiol*. 1987; 131: 434-441
6. Reid IR, **Civitelli R**, Halstead LR, Avioli LV, Hruska KA: Parathyroid hormone acutely elevates intracellular calcium in osteoblast-like cells. *Am J Physiol*. 1987; 253: E45-E51
7. **Civitelli R**, Agnusdei D, Nardi P, Zacchei F, Avioli LV, Gennari C: Effects of one-year treatment with estrogens on bone mass, intestinal calcium absorption and 25-hydroxyvitamin D- α -hydroxylase reserve in postmenopausal osteoporosis. *Calcif Tissue Int*. 1988; 42: 77-86
8. Pacifici R, **Civitelli R**, Rifas L, Halstead LR, Avioli LV: Does interleukin-1 elevate intracellular calcium in rat osteoblast-like cells (UMR-106)? *J Bone Min Res*. 1988; 3: 107-111
9. Reid IR, **Civitelli R**, Avioli LV, Hruska KA: Parathyroid hormone depresses cytosolic pH and DNA synthesis in osteoblast-like cells. *Am J Physiol*. 1988; 255:E9-E15
10. **Civitelli R**, Gonnelli S, Zacchei F, Bigazzi S, Vattimo A, Avioli LV, Gennari C: Bone turnover in postmenopausal osteoporosis: effect of calcitonin treatment. *J Clin Invest*. 1988; 82: 1268-1274
11. **Civitelli R**, Reid IR, Westbrook S, Avioli LV, Hruska KA: Parathyroid hormone elevates inositol polyphosphates and diacylglycerol in a rat osteoblast-like cell line. *Am J Physiol*. 1988; 255:E660-E667
12. Sugimoto T, **Civitelli R**, Ritter C, Slatopolsky E, Morrissey J: Regulation of cytosolic pH in bovine parathyroid cells: Effect of fluoride. *Endocrinology* 1989; 124: 149-156
13. Karpinski E, Wu L, **Civitelli R**, Avioli LV, Hruska KA, Pang PKT: A dihydropyridine-sensitive calcium channel in rodent osteoblastic cells. *Calcif Tissue Int*. 1989; 45:54-57
14. **Civitelli R**, Fedde KN, Harter J, Halstead LR, Gennari C, Avioli LV: Effect of l-lysine on cytosolic calcium homeostasis in cultured human normal fibroblasts. *Calcif Tissue Int*. 1989; 45:193-197

15. **Civitelli R**, Hruska KA, Jeffrey JJ, Kahn AJ, Avioli LV, Partridge NC: Second messenger signaling in the regulation of collagenase production by osteogenic sarcoma cells. *Endocrinology* 1989; 124:2928-2934
16. **Civitelli R**, Martin TJ, Fausto A, Gunsten SL, Hruska KA, Avioli LV: Parathyroid hormone-related peptide transiently increases cytosolic calcium in osteoblast-like cells. Comparison with PTH. *Endocrinology* 1989; 125:1204-1210
17. **Civitelli R**, McAlister W, Teitelbaum S, Whyte MP: Osteosclerosis with ectodermal dysplasia; clinical, laboratory, radiologic, and histopathologic characterization with review of the literature. *J Bone Min Res.* 1989; 4:863-875
18. **Civitelli R**, Teitelbaum SL, Hruska KA, Lacey DL: Interleukin-1 stimulates the Na⁺/H⁺ antiport in a murine T cell. *J Immunol.* 1989; 143:4000-4008
19. **Civitelli R**, Hruska KA, Shen V, Avioli LV: Cyclic AMP-dependent and calcium-dependent signals in parathyroid hormone function. *Exp Gerontol.* 1990; 25:223-231
20. Gennari C, Gonnelli S, Agnusdei D, **Civitelli R**: Biological activity of different calcitonins in men. *Exp Gerontol.* 1990; 25:339-347
21. Gennari C, Agnusdei D, Nardi P, **Civitelli R**: Estrogen preserves a normal intestinal responsiveness to 1,25(OH)₂D₃ in oophorectomized women. *J Clin Endocrinol Metab.* 1990; 71:1288-1293
22. **Civitelli R**, Kim YS, Gunsten SL, Fujimori A, Huskey M, Avioli LV, Hruska KA: Nongenomic activation of the Ca²⁺ message system by vitamin D metabolites in osteoblast-like cells. *Endocrinology* 1990; 127:2253-2262
23. Agnusdei D, **Civitelli R**, Camporeale A, Gennari C: Calcitonin and estrogens. *J Endocrinol Invest.* 1990; 13:625-630
24. Villareal D, **Civitelli R**, Chines A, Avioli LV: Subclinical vitamin D deficiency in postmenopausal women with low bone mass. *J Clin Endocrinol Metab.* 1991; 72:628-634
25. Villareal D, **Civitelli R**, Gennari C, Avioli LV: Is there an effective treatment for glucocorticoid-induced osteoporosis? *Calcif Tissue Int.* 1991; 49:141-142
26. Fujimori A, Cheng S-L, Avioli LV, **Civitelli R**: Dissociation of second messenger activation by parathyroid hormone fragments in osteosarcoma cells. *Endocrinology* 1991; 128:3032-3039
27. **Civitelli R**, Miyauchi A, Hruska KA: Monitoring cytosolic calcium in parathyroid hormone target cells: Osteoblasts and kidney epithelia. *J Tiss Cult Meth.* 1991; 13:217-228
28. Fujimori A, Cheng S-L, Avioli LV, **Civitelli R**: Structure-function relationship of parathyroid hormone: Activation of phospholipase C, protein kinase A and C in osteosarcoma cells. *Endocrinology* 1992; 130:29-36
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