# **CURRICULUM VITAE**

### **John Wysolmerski, MD**

**Version Date:** 2/22/2024

## **Contact Information:**

Address: TAC S141D

Section of Endocrinology and Metabolism

Department of Internal Medicine

Yale School of Medicine

New Haven, CT

Phone: 203-785-7447

Email: john.wysolmerski@yale.edu

## **Education:**

09/1978 - 05/1982 BS, Yale University, Biology, New Haven, CT

09/1982- 05/1986 MD, Yale University, New Haven, CT

## **Career/Academic Appointments:**

07/1986 - 06/1989 Intern & Resident, Internal Medicine, Tufts New England Medical School, Boston, MA

08/1989 - 08/1990 Assistant Director, Ambulatory Clinic, Faulkner Hospital, Boston, MA

08/1989 - 08/1990 Clinical Instructor in Medicine, Internal Medicine, Tufts University Medical School, Boston, MA

07/1990 - 06/1993 Postdoctoral Fellow, Endocrinology (Medicine), Yale School of Medicine, New Haven, CT

07/1990 - 06/1993 Fellow, Endocrinology, Yale University School of Medicine, New Haven, CT

07/1993 - 06/1994 Instructor, Endocrinology (Medicine), Yale School of Medicine, New Haven, CT

07/1994 - 06/1995 Associate Research Scientist, Endocrinology (Medicine), Yale School of Medicine, New Haven, CT

07/1995 - 06/2000 Assistant Professor, Endocrinology (Medicine), Yale School of Medicine, New Haven, CT

07/2000 - 06/2005 Associate Professor on Term, Endocrinology (Medicine), Yale School of Medicine, New Haven, CT

07/2004 - 06/2008 Associate Professor Tenure, Endocrinology (Medicine), Yale School of Medicine, New Haven, CT

07/2008 - Present Professor, Endocrinology (Medicine), Yale School of Medicine, New Haven, CT

08/2018 - 06/2021 Interim Section Chief, Endocrinology (Medicine), Yale School of Medicine, New Haven, CT

06/2021 - Present Section Chief, Endocrinology (Medicine), Yale School of Medicine, New Haven, CT

## **Administrative Positions:**

2011 - 2021 Associate Chief for Research, Endocrinology, Yale School of Medicine, New Haven, CT

2011 - 2022 Associate Program Director for Physician-Scientist Programs, Yale Internal Medicine Residency, Yale School of Medicine, New Haven, CT

## **Board Certification:**

1989 AB of Internal Medicine, Internal Medicine

1993 AB of Internal Medicine, Endocrinology and Metabolism

## **Professional Honors & Recognition:**

### **International/National/Regional**

1983 NIH Medical Student Research Fellowship, NIH

1993 Young Investigator Award, American Society for Bone and Mineral Research

1993 Merck Senior Fellow Award, The Endocrine Society

2000 2000 Young Investigator Award, Advances in Mineral Metabolism

2001 Most Outstanding Abstract of Yearly Meeting, American Society for Bone and Mineral Metabolism

2001 Cissy Hornung Research Award, CT Chapter of the American Cancer Society

2002 ASCI Membership, ASCI

2002 Sir William Osler Young Investigator Award, Interurban Clinical Club

2006 The Anast Lectureship, Boston Children's Hospital and Brigham and Woman's Hospital

2007 Interurban Clinical Club Councilor, Interurban Clinical Club

2010 President of Interurban Clinical Club, Interurban Clinical Club

2012 Appointed as Standing Member, ICER Study Section, NIH

2013 Co-Chair, Mammary Gland Biology Gordon Research Conference

2016 Tyler Memorial Lectureship, University of Utah Department of Internal Medicine

2023 Co-Chair, 4th International Symposium on the Calcium Sensing Receptor

2023 Jack A. Elias Advances in Biomedical Sciences Lectureship

### **Yale University/Yale School of Medicine/Hospital System**

1986 Alpha Omega Alpha Honor Society, Yale Medical School

## **Grants/Clinical Trials History:**

### **Current Grants**

Agency: NIH/NICHD

I.D.#: 2 R01 HD076248-06

Title: PMCA2 regulates mammary gland involution and breast cancer

Role: Principal Investigator

Project period: 9/18/2020 - 6/30/2025

Agency: NIH/NICHD

I.D.#: 1 R01 HD100468-01

Title: Heterodimerization of the Calcium-Sensing Receptor with the GabaB Receptors in the Breast

Role: Principal Investigator

Project period: 9/1/2020 - 7/31/2025

Agency: NIH/NICHD

I.D.#: 1R21HD111764-01A1

Title: Milk Butyrophilin and Immune Tolerence

M.P.I.: Wysolmerski JJ and Kang I

Role: Co-Principal Investigator

Agency: NIH/NIDDK

I.D.#: 2 T32 DK007058-50

Title: Diabetes Mellitus and Disorders of Metabolism

Role: Principal Investigator

Project period: 7/1/2024 - 6/30/2029

## **Invited Speaking Engagements, Presentations, Symposia & Workshops**

## **Not Affiliated With Yale:**

### **International/National**

1. "Invited Research Presentation", Conference on Breast Development, Physiology and Cancer, National Institutes of Health, Bethesda, March 1997 (Lecture)
2. "Invited Research Presentation", Mammary Gland Biology Gordon Conference, Gordon Research Conferences, Plymouth, April 1997 (Lecture)
3. "Oral Research Presentation", Department of Defense Breast Cancer Research Program Meeting, Department of Defense, Washington, D.C., November 1997 (Oral Presentation)
4. "Invited Symposium Presentation", Symposium on Signaling Molecules in Breast Cancer, 1999 Meeting of the Endocrine Society, San Diego, June 1999 (Lecture)
5. "Invited Research Presentation", Mammary Gland Biology Gordon Conference, Gordon Research Conferences, Henniker, August 1999 (Lecture)
6. "Invited Research Presentation", Program in Cell, Molecular and Developmental Biology Research Seminar Series, Sackler School of Graduate Biomedical Sciences, Tufts University, Boston, October 1999 (Lecture)
7. "Research Presentation", Advances in Mineral Metabolism, AIMM-ASBMR John Haddad Young Investigator Meeting, Snowmass, September 2000 (Lecture)
8. "Invited Research Presentation", Department of Cell Biology Research Seminar, University of Cincinatti, Cincinnati, October 2000 (Lecture)
9. "Invited Research Presentation", Department of Cell Biology Research Seminar, Baylor College of Medicine, Houston, November 2000 (Lecture)
10. "Invited Research Presentation", PPP 4: International Symposium on the Basic and Clinical Aspects of PTH and PTHrP, University of Cincinatti, Cincinnati, March 2001 (Lecture)
11. "Invited Research Presentation", Department of Cell Biology Research Seminar, NYU School of Medicine, New York, October 2001 (Lecture)
12. "Invited Research Presentation", Endocrinology Grand Rounds, University of Texas, San Antonio, March 2001 (Lecture)
13. "Invited Case Presentation", New England Bone Club Annual Meeting, New England Bone Club, Scarborough, April 2001 (Other)
14. "Invited Research Presentation", The Skin and its Cells, Cutaneous Biology Research Center, Massachusetts General Hospital/Harvard Medical School, Boston, September 2001 (Lecture)
15. "Invited Research Presentation", Cell Biology, Development and Cancer Seminar Series, University of Colorado Health Sciences Center, Denver, February 2002 (Lecture)
16. "Invited Research Presentation", Research Seminar, Environmental Protection Agency, Durham, March 2002 (Lecture)
17. "Invited Research Presentation", PPP 5: International Symposium on the Basic and Clinical Aspects of PTH and PTHrP, University of Pittsburgh, Pittsburgh, July 2002 (Lecture)
18. "Invited Research Presentation", Mammary Gland Biology Gordon Conference, Gordon Research Conferences, Barga, August 2002 (Lecture)
19. "Research and Clinical Presentation", Endocrinology Grand Rounds, Massachusetts General Hospital and Harvard Medical School, Boston, October 2002 (Lecture)
20. "Research and Clinical Presentation", Endocrinology Grand Rounds, Dartmouth-Hitchcock Medical Center, Lebanon, March 2003 (Lecture)
21. "Research presentation", PPP 6: International Symposium on the Basic and Clinical Aspects of PTH and PTHrP, McGill University, Montreal, April 2003 (Lecture)
22. "Invited Research Presentation", Epithelial and Keratinization Gordon Research Conference, Gordon Research Conferences, Tilton, April 2003 (Lecture)
23. "Invited Research Presentation", Special Conference on Advances in Breast Cancer Research; Genetics, Biology, and Clinical Implications, American Association for Cancer Research, Huntington Beach, June 2003 (Lecture)
24. "Invited Research Seminar", Lactation and Mammary Gland Biology Seminar Series, Department of Animal Sciences, University of Vermont, Burlington, November 2003 (Lecture)
25. "Research Presentation", PPP 7: International Symposium on the Basic and Clinical Aspects of PTH and PTHrP, INSERM, Paris, April 2004 (Lecture)
26. "Overview of Embryonic Mammary Development", Mammary Gland Biology Gordon Conference, Gordon Research Conferences, Barga, June 2004 (Lecture)
27. "Speaker", Workshop for Career Options for Scientists, Annual Meeting of the American Society for Bone and Mineral Research, Seattle, September 2004 (Oral Presentation)
28. "Research Seminar", Endocrinology Research conference, University of Pittsburgh School of Medicine, Pittsburgh, October 2004 (Lecture)
29. "Research Presentation", Bone Research Conference, Washington University St. Louis School of Medicine, St. Louis, March 2005 (Lecture)
30. "Clinical and Research Presentation", Medical Grand Rounds, New England Medical Center and Tufts University School of Medicine, Boston, April 2005 (Lecture)
31. "Research presentation", Mammary Gland Biology Gordon Conference, Gordon Research Conferences, at Salve Regina University, Newport, April 2005 (Lecture)
32. "Research presentation", Advances in Mineral Metabolism, AIMM-ASBMR John Haddad Young Investigator Meeting, Snowmass, September 2005 (Lecture)
33. "Research presentation", Endocrine Research Seminar, UCSF School of Medicine, San Francisco, October 2005 (Lecture)
34. "Research Presentation", Newfoundland Bone Conference, Memorial University School of Medicine, St. John's, January 2006 (Lecture)
35. "PTHrP and Mammary Development", Duhring Lecture, Department of Dermatology, University of Pennsylvania School of Medicine, Philadelphia, February 2006 (Lecture)
36. "Research Presentation", The Anast Lecture, Endocrine Grand Rounds, Boston Children’s Hospital and Brigham and Women’s Hospital, Boston, April 2006 (Lecture)
37. "Research Presentation on PTHrP and Embryonic Mammary Development", Signaling to Structures: Skin Appendages, Development and Diseases, 2006 Montagna Symposium on the Biology of the Skin, Lincoln City, October 2006 (Lecture)
38. "Research Presentation", Endocrine Grand Rounds, University of Arkansas for Medical Sciences, Little Rock, November 2006 (Lecture)
39. "Research Presentation", Endocrine Grand Rounds, University of Arkansas for Medical Sciences, Little Rock, November 2006 (Lecture)
40. "PTHrP and Bone Loss During Lactation", Meet the Professor Session, American Society for Bone and Mineral Research, Honolulu, September 2007 (Lecture)
41. "Research Presentation", PPP 10: International Symposium on PTH and PTHrP, University of Pittsburgh School of Medicine, Pittsburgh, October 2007 (Lecture)
42. "PTHrP and Bone Loss During Lactation", Endocrine Grand Rounds, Columbia Medical School, New York, September 2007 (Lecture)
43. "PTHrP induces bone loss during Lactation", Advances in Mineral Metabolism, AIMM-ASBMR John Haddad Young Investigator Meeting, Snowmass, October 2008 (Lecture)
44. "Bone Loss and Recovery during and after Lactation", PPP 11: International Symposium on PTH and PTHrP, University of Strasbourg, Faculty of Medicine, Strasbourg, February 2009 (Lecture)
45. "research presentation", Breast Cancer Research Seminar, Baylor College of Medicine, Houston, March 2009 (Lecture)
46. "Interactions between breast, bone, and brain regulate mineral and skeletal metabolism during lactation", Third New York Skeletal Biology and Medicine Meeting, New York Academy of Medicine, New York, April 2009 (Lecture)
47. "clinical and research presentation", Medical Grand Rounds, Methodist Hospital, Baylor College of Medicine, Houston, March 2009 (Lecture)
48. "Research presentation", Bone Biology Program Seminar, Vanderbilt Medical School, Nashville, June 2010 (Lecture)
49. "research presentation", Advances in Mineral Metabolism, AIMM-ASBMR John Haddad Young Investigator Meeting, Snowmass, September 2010 (Lecture)
50. "Calcium Signaling in Breast Cancer", Fourth New York Skeletal Biology and Medicine Meeting, Mt. Sinai School of Medicine, New York, April 2011 (Lecture)
51. "Got Milk? Got Breast Cancer? The Role of Calcium Pumps during Milk Production and in Breast Cancer", Mammary Gland Biology Gordon conference, Gordon Research Conferences, at Salve Regina University, Newport, June 2011 (Lecture)
52. "The CaSR and PTHrP in normal mammary gland biology and in breast cancer", VA Bone Biology Conference, San Francisco VA Hospital/University of California, San Francisco, August 2011 (Lecture)
53. "Research Seminar", Baylor Bone Program Research Seminar, MD Anderson Cancer Hospital and Baylor College of Medicine, Houston, August 2011 (Lecture)
54. "research and clinical presentation", Medical Grand Rounds, Dartmouth Medical School, Hanover, September 2011 (Lecture)
55. "research presentation", Endocrine Grand Rounds, Dartmouth Medical School, Hanover, September 2011 (Lecture)
56. "Lactation and Involution Overview", Mammary Gland Biology Gordon conference, Gordon Research Conferences, Barga, June 2012 (Other)
57. "Bone and Mineral Metabolism during Lactation: Lessons for Breast Cancer", Massachusetts General Hospital, Harvard Medical School, Harvard Dental School Bone Research Workshop Series, Harvard Dental School, Boston, September 2012 (Lecture)
58. "Calcium Metabolism During Lactation and its Emerging Links to Breast Cancer", UAMS Physiology and Biophysics Seminar, University of Arkansas Health Sciences Center, Little Rock, April 2013 (Lecture)
59. "Calcium Metabolism During Lactation: Emerging Lessons for Breast Cancer", Breakthrough Breast Cancer External Seminar Series, Patterson Institute for Cancer Research, University of Manchester, Manchester, July 2013 (Lecture)
60. "Got Milk, Got Breast Cancer? – How Understanding Milk Calcium Secretion Provides Insight into the Pathogenesis of Breast Cancer", Department of Biology Research Seminar, Pomona College, Pomona, October 2013 (Lecture)
61. "Calcium Metabolism during Lactation: Emerging Connections to Breast Cancer", Research Seminar, Diabetes, Obesity and Metabolism Institute, Icahn School of Medicine at Mt Sinai, New York, May 2013 (Lecture)
62. "Calcium and Bone Metabolism during Lactation: Connections to Osteoporosis and Breast Cancer", Reproductive Biology Seminar Series, University of Texas Southwestern, Dallas, December 2013 (Lecture)
63. "Calcium and Bone Metabolism during Lactation: Lessons for Breast Cancer", Endocrine Grand Rounds, New York University School of Medicine, New York, January 2014 (Lecture)
64. "The CaSR in the Normal Breast and in Breast Cancer", 2nd International Symposium on the Calcium-Sensing Receptor (CaSR), The Endocrine Society and the University of California San Francisco, San Diego, March 2015 (Lecture)
65. "Osteocytes Remove and Replace Perilacunar Mineral During Reproductive Cycles", 45th International Sun Valley Workshop on Musculoskeletal Biology, Orthopedic Research Society, Sun Valley, August 2015 (Lecture)
66. "Calcium and Bone Metabolism During Lactation; Connections to Breast Cancer", Endocrine Grand Rounds, Massachusetts General Hospital, Harvard Medical School, Boston, February 2016 (Lecture)
67. "Hypercalcemia and Malignancy: What’s Old and What’s New", Tyler Memorial Lectureship – Medical Grand Rounds, University of Utah School of Medicine, Salt Lake City, April 2016 (Lecture)
68. "Calcium Handling During Lactation: Lessons for Breast Cancer?", Tyler Memorial Lectureship – Research Seminar, University of Utah School of Medicine, Salt Lake City, April 2016 (Lecture)
69. "Post-Menopausal Osteoporosis: A Disease of Lactation?", Tyler Memorial Lectureship – Endocrine Grand Rounds, University of Utah School of Medicine, Salt Lake City, April 2016 (Lecture)
70. "HHM: PTHrP and beyond", Research Seminar, XOMA Corporation, Berkeley, June 2016 (Lecture)
71. "Calcium and Bone Metabolism During Lactation: Connections to Breast Cancer", Research Seminar, Regeneron Pharmaceuticals, Tarrytown, January 2017 (Lecture)
72. "PTHrP and the Breast", Symposium on Thirty Years of PTHrP: Villain to Hero, The Endocrine Society 99th Annual Meeting, Orlando, April 2017 (Lecture)
73. "CaSR actions on PTHrP in breast cancer", 3rd International Symposium on the Calcium-Sensing Receptor (CaSR), University of Florence, Medical University of Vienna, University of Oxford, University of California San Francisco, Florence, May 2017 (Lecture)
74. "PTHrP and HHM: Anything New to Learn from an Old Story", Advances in Mineral Metabolism, AIMM-ASBMR John Haddad Young Investigator Meeting, Snowmass, April 2018 (Lecture)
75. "Regulation of FGF23 in a Mouse Model of HHM", Advances in Mineral Metabolism, AIMM-ASBMR John Haddad Young Investigator Meeting, Snowmass, April 2019 (Lecture)
76. "Calcium Handling by the Mammary Gland in Lactation and Breast Cancer", Reproductive Sciences Research Seminar, University of Colorado Anschutz Medical Campus, Denver, October 2022 (Lecture)
77. "Post-Menopausal Osteoporosis – A Disease of Lactation?", OB/GYN Grand Rounds, University of Colorado Anschutz Medical Campus, Denver, October 2022 (Lecture)
78. “Intracellular Calcium Links Milk Stasis to Early Mammary Involution” 2023 Mammary Gland Biology Gordon Conference, May 28, 2023, West Dover, VT
79. “Cancer-Associated Hypercalcemia Signals Through the Hindbrain to cause Anorexia”, 4th International Symposium on the Extracellular Calcium-Sensing Receptor, June 14, 2023, Chicago,
80. “New twists in an old story: PTHrP, Hypercalcemia and Breast Cancer”, The Lawrence Family Bone Disease Program of Texas, UT Health Houston, Baylor College of Medicine and MD Anderson Cancer Center, Houston, Texas. April 5, 2024
81. “New twists in an old story: PTHrP, Hypercalcemia and Breast Cancer”, Endocrine Grand Rounds, Stanford Medical School, Palo Alto, California. October 16, 2024

### **Regional**

1. "Invited Clinical Case Discussion", New England Bone Club Annual Meeting, New England Bone Club, Sturbridge, May 1996 (Other)
2. "Invited Research Presentation", Interurban Clinical Club Fall Meeting, Interurban Clinical Club Meeting held at Yale Medical School, New Haven, October 1997 (Lecture)
3. "Invited Case Presentation", Connecticut Endocrine Society Annual Meeting, Connecticut Endocrine Society, New Haven, October 2001 (Other)
4. "Invited Research Presentation", Sir William Osler Young Investigator Award Lecture, Interurban Clinical Club Meeting held at Yale Medical School, New Haven, October 2002 (Lecture)
5. "Invited Research Seminar", Molecular Medicine Program Seminar Series, University of Connecticut School of Medicine, Farmington, October 2003 (Lecture)
6. "Clinical presentation", Rheumatology Grand Rounds, Yale School of Medicine, New Haven, April 2004 (Lecture)
7. "Research presentation", PPP 8: International Symposium on the Basic and Clinical Aspects of PTH and PTHrP, Yale School of Medicine, New Haven, November 2005 (Lecture)
8. "Hyperparathyroidism", Medical Grand Rounds, Yale School of Medicine, New Haven, March 2006 (Lecture)
9. "Research Presentation", Endocrine Grand Rounds, Yale School of Medicine, New Haven, October 2006 (Lecture)
10. "research update", Breast Cancer Research Program Seminar, Yale Cancer Center, Yale Medical School, New Haven, March 2007 (Lecture)
11. "PTHrP and Bone Loss During Lactation", Endocrine Grand Rounds, Yale Medical School, New Haven, April 2008 (Lecture)
12. "PTHrP and Embryonic Mammary Development", Molecular, Cellular and Developmental Biology Department Seminar, Yale University, New Haven, April 2009 (Lecture)
13. "PTHrP and Embryonic Mammary Development", Yale Stem Cell Center Retreat, Yale Medical School, New Haven, April 2010 (Lecture)
14. "Osteoporosis", Medical Grand Rounds, St. Raphael’s Hospital, New Haven, August 2010 (Lecture)
15. "Osteoporosis in Cancer Patients: The Smilow Bone Health Program", Yale Cancer Center Grand Rounds, Yale Cancer Center, Yale Medical School, New Haven, December 2011 (Lecture)
16. "What Does Milk Calcium Transport Have to do with Breast Cancer", Yale Cancer Center Retreat, Yale Medical School, New Haven, August 2012 (Lecture)
17. "Calcium Metabolism during Lactation: Some Connections to Breast Cancer", Smilow Breast Cancer Research Conference, Yale Cancer Center, Yale Medical School, New Haven, May 2013 (Lecture)
18. "Getting Calcium into Milk: Unexpected Lessons for Breast Cancer", 211th Interurban Clinical Club Meeting, Interurban Clinical Club, New Haven, April 2015 (Lecture)
19. "Calcium Handling by the Lactating Breast: Surprising Connections to Breast Cancer", Biomedical Research Seminar, Department of Internal Medicine, Yale School of Medicine, New Haven, June 2015 (Lecture)
20. "Humoral Hypercalcemia of Malignancy: Clinical and Research Updates", Amatruda Lecture – Medical Grand Rounds, Waterbury Hospital, Waterbury, December 2015 (Lecture)
21. "It Could Have Been Called Mammogenin: Fun Facts About PTHrP and Other Calcium- Related Molecules in Breast Cancer", Research Seminar, Breast Cancer Research Group, Yale Cancer Center, Yale Medical School, New Haven, January 2017 (Lecture)
22. "Paget’s Disease of the Bone", Rheumatology Grand Rounds, Yale Medical School, New Haven, November 2017 (Lecture)
23. "Hypercalcemia in Malignancy: An Update", Endocrine Grand Rounds, Yale Medical School, New Haven, October 2022 (Lecture)
24. “Are Osteoporosis and Hypercalcemia of Malignancy Diseases of Lactation”, Jack A Elias Advances in Biomedical Sciences Lectureship, Medical Grand Rounds, September 28, 2023, Yale Medical School, New Haven, CT
25. “Hypercalcemia and Malignancy: Anything New for an Old Story”, Medical Grand Rounds, Oct. 5, 2023, Department of Internal Medicine, Bridgeport Hospital, Bridgeport, CT
26. “Dietary Fatty Acids and Breast Cancer Progression”, Metabolism and Cancer Symposium, Yale Comprehensive Cancer Center, Nov. 1, 2023, Yale Medical School, New Haven, CT.

### **Virtual Location**

1. "Calcium and Bone Metabolism in Osteoporosis and Breast Cancer: Echoes of Lactation?", Endocrine Grand Rounds, Yale Medical School, July 2020 (Lecture)
2. "Defining the effects of dietary fatty acids in breast and pancreatic cancer", Cancer Signaling Networks Research Program Workshop, Yale Comprehensive Cancer Center, Yale Medical School, November 2020 (Lecture)
3. "ErbB2 and Breast Cancer: What’s Calcium Got to do With It?", New Frontiers in RTK Signaling and Therapeutics; a Joint CSN and DT program retreat, Yale Comprehensive Cancer Center, January 2022 (Lecture)

## **Peer-Reviewed Presentations & Symposia Given at Meetings Not Affiliated With Yale:**

### **International/National**

1. "Oral Presentation", 1993Annual Meeting of the American Society for Bone and Mineral Research, American Society for Bone and Mineral Research, Tampa, September 1993 (Oral Presentation)
2. "Oral Presentation", 1994 Annual Meeting of the American Society for Bone and Mineral Research, American Society for Bone and Mineral Research, Kansas City, September 1994 (Oral Presentation)
3. "Oral Presentation", 1996 Annual Meeting of the American Society for Bone and Mineral Research, American Society for Bone and Mineral Research, Seattle, September 1996 (Oral Presentation)
4. "Oral Research Presentation", 1997 Meeting of the Endocrine Society, The Endocrine Society, Minneapolis, June 1997 (Oral Presentation)
5. "Oral Research Presentation", 1998 Joint Meeting of the American Society for Bone and Mineral Research and The International Bone and Mineral Society, American Society for Bone and Mineral Research, San Francisco, September 1998 (Oral Presentation)
6. "Two Oral Presentations", 1999 Annual Meeting of the American Society for Bone and Mineral Research, American Society for Bone and Mineral Research, St. Louis, September 1999 (Oral Presentation)
7. "Oral Presentation", 2000 Annual Meeting of the American Society for Bone and Mineral Research, American Society for Bone and Mineral Research, Toronto, September 2000 (Oral Presentation)
8. "Research Presentation", State of the Art Symposium Speaker: Hormone Action on Non-Traditional Targets, Annual Meeting of the American Society for Bone and Mineral Research, Seattle, September 2004 (Oral Presentation)
9. "Clinical Case Presentation", New England Bone Club, University of Maine Medical Center and New England Bone Club, Scarborough, October 2005 (Oral Presentation)
10. "research presentation", Symposium on Signaling in Mammary Gland Proliferation, The Endocrine Society Annual Meeting, Boston, June 2011 (Oral Presentation)
11. "Overexpression of PTHrP in Transgenic Mammary Tumors Causes Hypercalcemia and Rapid Fat Wasting but does not Increase Energy Expenditure", American Society of Bone and Mineral Research 2018 Annual Meeting, American Society for Bone and Mineral Research, Montreal, September 2018 (Oral Presentation)

## **Professional Service:**

### **Peer Review Groups/Grant Study Sections**

2012 - 2018 Standing Member of ICER Study Section, NIH

2011 Ad-Hoc Reviewer, ICER Study Section, NIH

2010 DOD Breast Cancer Research Program, Endocrine Review Panel

2009 Ad-Hoc Reviewer for Canadian Cancer Society

2009 Reviewer for ARRA Challenge Grants

2007 Ad-Hoc Member, Skeletal Biology Structure and Regeneration (SBSR) Study Section

2001 External Review Committee for Mammary Gland Biology Program, NCI Basic Research Laboratory, NIH

**Professional Society Service**

2024 Board of Directors, Advances in Mineral Metabolism Meeting

2024 Women’s Health Initiative Working Group, American Society for Bone and Mineral Research

2024 Member Advocacy Committee, American Society for Bone and Mineral Research

**Journal Service**

6/07 - 2020 Editorial Board, Bone

9/05 – 2012 Editorial Board, FASEB Journal

1/04 – 12/09 Editorial Board, Journal of Bone and Mineral Research

1/05 – 2018 Editorial Board, Endocrinology

11/99 – present Associate Editor, Journal of Mammary Gland Biology and Neoplasia

### **Yale University / Hospital System**

#### **University**

* 1. Yale College Health Professions Advisory Board

2001 Member, Yale College, Yale College Freshman Advisor

2003-2005 Yale University United Way Coordinating Committee

2010-2012 Yale Center for Small Molecule Discovery Advisory Committee

#### **Medical School**

1999 - 2007 Member, Internal Medicine, Internship Selection Committee

2003-2004 Cancer Center Search Committee for Head of Medical Oncology

2003-2004 Department of Internal Medicine Space Committee

2005 - 2008 Member, Yale Medical School, Funds and Fellowship Committee, Chair 2006-2008

2006-2007 Hematology Section Chief Search Committee

2010-2019 Internal Scholar Review Committee

2017-2019 Internal Medicine Appointments and Promotions Committee

2017-present Iva Dostanic Award Committee

2020-present Internal Medicine Department Compensation Committee

2021-present LionHeart Grant Review Committee, Yale Cancer Center

**Thesis Committees/Reviews**

*Served on Following Thesis Committees:*

Elayne Provost, Department of Pathology, obtained Ph.D. in 2004

Diego Correa, Department of Cellular and Molecular Physiology, obtained Ph.D. in 2009

Allison Welsh, Department of Pathology, obtained Ph.D. in 2011

Mike Ran Zou, Department of Pathology, obtained Ph.D. in 2014

Halle Wimberley, Department of Pathology, obtained Ph.D. in 2014

Cristiana Pineda, Department of Genetics, Served on Qualifying Committee, 2014.

Rachel Zwick, Department of Molecular, Cellular and Developmental Biology, obtained Ph.D in 2018

Wesley Cai, Department of Pathology, obtained PhD in 2020

Maria Korah, Sections of Endocrinology and Human Translational Immunology, MD/MHS obtained in 2020

Ilze Mari Olivi Gomez, Served on Qualifying Committee, 2022

*External Thesis Reviewer for:*

Keri Buckle, Master of Science Thesis, Memorial University of Newfoundland, 2005.

Nicholas Fleming, Ph.D. Thesis, University of Melbourne, 2008

Neva Fudge, Mater of Science Thesis, Memorial University of Newfoundland, 2010

Kimberly Edwards, Ph.D. thesis, University of Sydney, Australia, 2017

Souvik Das, Ph.D. Thesis, Universite de Picardie Jules Verne, 2020

## **Bibliography:**

### **Peer-Reviewed Original Research**

1. Burtis WJ, Wu T, Bunch C, **Wysolmerski JJ**, Insogna KL, Weir EC, Broadus AE, Stewart AF. Identification of a novel 17,000-dalton parathyroid hormone-like adenylate cyclase-stimulating protein from a tumor associated with humoral hypercalcemia of malignancy. The Journal Of Biological Chemistry 1987, 262: 7151-6. [PMID: 3584110](https://pubmed.ncbi.nlm.nih.gov/3584110).
2. Vasavada RC, **Wysolmerski JJ**, Broadus AE, Philbrick WM. Identification and characterization of a GC-rich promoter of the human parathyroid hormone-related peptide gene. Molecular Endocrinology (Baltimore, Md.) 1993, 7: 273-82. [PMID: 8469240](https://pubmed.ncbi.nlm.nih.gov/8469240), [DOI: 10.1210/mend.7.2.8469240](https://doi.org/10.1210/mend.7.2.8469240).
3. **Wysolmerski JJ**, Broadus AE, Zhou J, Fuchs E, Milstone LM, Philbrick WM. Overexpression of parathyroid hormone-related protein in the skin of transgenic mice interferes with hair follicle development. Proceedings Of The National Academy Of Sciences Of The United States Of America 1994, 91: 1133-7. [PMID: 7508121](https://pubmed.ncbi.nlm.nih.gov/7508121), [PMCID: PMC521468](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC521468), [DOI: 10.1073/pnas.91.3.1133](https://doi.org/10.1073/pnas.91.3.1133).
4. **Wysolmerski JJ**, McCaughern-Carucci JF, Daifotis AG, Broadus AE, Philbrick WM. Overexpression of parathyroid hormone-related protein or parathyroid hormone in transgenic mice impairs branching morphogenesis during mammary gland development. Development (Cambridge, England) 1995, 121: 3539-47. [PMID: 8582268](https://pubmed.ncbi.nlm.nih.gov/8582268).
5. **Wysolmerski JJ**, Vasavada R, Foley J, Weir EC, Burtis WJ, Kukreja SC, Guise TA, Broadus AE, Philbrick WM. Transactivation of the PTHrP gene in squamous carcinomas predicts the occurrence of hypercalcemia in athymic mice. Cancer Research 1996, 56: 1043-9. [PMID: 8640759](https://pubmed.ncbi.nlm.nih.gov/8640759).
6. Foley J, **Wysolmerski JJ**, Broadus AE, Philbrick WM. Parathyroid hormone-related protein gene expression in human squamous carcinoma cells is repressed by mutant isoforms of p53. Cancer Research 1996, 56: 4056-62. [PMID: 8752179](https://pubmed.ncbi.nlm.nih.gov/8752179).
7. Foley J, Longely BJ, **Wysolmerski JJ**, Dreyer BE, Broadus AE, Philbrick WM. PTHrP regulates epidermal differentiation in adult mice. The Journal Of Investigative Dermatology 1998, 111: 1122-8. [PMID: 9856827](https://pubmed.ncbi.nlm.nih.gov/9856827), [DOI: 10.1046/j.1523-1747.1998.00428.x](https://doi.org/10.1046/j.1523-1747.1998.00428.x).
8. **Wysolmerski JJ**, Philbrick WM, Dunbar ME, Lanske B, Kronenberg H, Broadus AE. Rescue of the parathyroid hormone-related protein knockout mouse demonstrates that parathyroid hormone-related protein is essential for mammary gland development. Development (Cambridge, England) 1998, 125: 1285-94. [PMID: 9477327](https://pubmed.ncbi.nlm.nih.gov/9477327).
9. Dunbar ME, Young P, Zhang JP, McCaughern-Carucci J, Lanske B, Orloff JJ, Karaplis A, Cunha G, **Wysolmerski JJ**. Stromal cells are critical targets in the regulation of mammary ductal morphogenesis by parathyroid hormone-related protein. Developmental Biology 1998, 203: 75-89. [PMID: 9806774](https://pubmed.ncbi.nlm.nih.gov/9806774), [DOI: 10.1006/dbio.1998.9029](https://doi.org/10.1006/dbio.1998.9029).
10. Dunbar ME, Dann PR, Robinson GW, Hennighausen L, Zhang JP, **Wysolmerski JJ**. Parathyroid hormone-related protein signaling is necessary for sexual dimorphism during embryonic mammary development. Development (Cambridge, England) 1999, 126: 3485-93. [PMID: 10409496](https://pubmed.ncbi.nlm.nih.gov/10409496).
11. Foley J, **Wysolmerski JJ**, Missero C, King CS, Philbrick WM. Regulation of parathyroid hormone-related protein gene expression in murine keratinocytes by E1A isoforms: a role for basal promoter and Ets-1 site. Molecular And Cellular Endocrinology 1999, 156: 13-23. [PMID: 10612419](https://pubmed.ncbi.nlm.nih.gov/10612419), [DOI: 10.1016/s0303-7207(99)00151-3](https://doi.org/10.1016/s0303-7207(99)00151-3).
12. Foley J, King CS, Jiménez JA, **Wysolmerski JJ**, Philbrick WM. Activation of PTHrP gene expression in squamous carcinoma cell lines by mutant isoforms of the tumor suppressor p53. Oncology Research 2000, 12: 71-81. [PMID: 11132926](https://pubmed.ncbi.nlm.nih.gov/11132926).
13. Cayco AV, **Wysolmerski J**, Simpson C, Mitnick MA, Gundberg C, Kliger A, Lorber M, Silver D, Basadonna G, Friedman A, Insogna K, Cruz D, Bia M. Posttransplant bone disease: evidence for a high bone resorption state. Transplantation 2000, 70: 1722-8. [PMID: 11152104](https://pubmed.ncbi.nlm.nih.gov/11152104).
14. Foley J, Dann P, Hong J, Cosgrove J, Dreyer B, Rimm D, Dunbar M, Philbrick W, **Wysolmerski J**. Parathyroid hormone-related protein maintains mammary epithelial fate and triggers nipple skin differentiation during embryonic breast development. Development (Cambridge, England) 2001, 128: 513-25. [PMID: 11171335](https://pubmed.ncbi.nlm.nih.gov/11171335).
15. Dunbar ME, Dann P, Brown CW, Van Houton J, Dreyer B, Philbrick WP, **Wysolmerski JJ**. Temporally regulated overexpression of parathyroid hormone-related protein in the mammary gland reveals distinct fetal and pubertal phenotypes. The Journal Of Endocrinology 2001, 171: 403-16. [PMID: 11739006](https://pubmed.ncbi.nlm.nih.gov/11739006).
16. Cruz DN, **Wysolmerski JJ**, Brickel HM, Gundberg CG, Simpson CA, Mitnick MA, Kliger AS, Lorber MI, Basadonna GP, Friedman AL, Insogna KL, Bia MJ. Parameters of high bone-turnover predict bone loss in renal transplant patients: a longitudinal study. Transplantation 2001, 72: 83-8. [PMID: 11468539](https://pubmed.ncbi.nlm.nih.gov/11468539), [DOI: 10.1097/00007890-200107150-00017](https://doi.org/10.1097/00007890-200107150-00017).
17. **Wysolmerski JJ**, Cormier S, Philbrick WM, Dann P, Zhang JP, Roume J, Delezoide AL, Silve C. Absence of functional type 1 parathyroid hormone (PTH)/PTH-related protein receptors in humans is associated with abnormal breast development and tooth impaction. The Journal Of Clinical Endocrinology And Metabolism 2001, 86: 1788-94. [PMID: 11297619](https://pubmed.ncbi.nlm.nih.gov/11297619), [DOI: 10.1210/jcem.86.4.7404](https://doi.org/10.1210/jcem.86.4.7404).
18. **Wysolmerski JJ**, Dann PR, Zelazny E, Dunbar ME, Insogna KL, Guise TA, Perkins AS. Overexpression of parathyroid hormone-related protein causes hypercalcemia but not bone metastases in a murine model of mammary tumorigenesis. Journal Of Bone And Mineral Research : The Official Journal Of The American Society For Bone And Mineral Research 2002, 17: 1164-70. [PMID: 12096830](https://pubmed.ncbi.nlm.nih.gov/12096830), [DOI: 10.1359/jbmr.2002.17.7.1164](https://doi.org/10.1359/jbmr.2002.17.7.1164).
19. Cruz DN, Brickel HM, **Wysolmerski JJ**, Gundberg CG, Simpson CA, Kliger AS, Lorber MI, Basadonna GP, Friedman AL, Insogna KL, Bia MJ. Treatment of osteoporosis and osteopenia in long-term renal transplant patients with alendronate. American Journal Of Transplantation : Official Journal Of The American Society Of Transplantation And The American Society Of Transplant Surgeons 2002, 2: 62-7. [PMID: 12095058](https://pubmed.ncbi.nlm.nih.gov/12095058), [DOI: 10.1034/j.1600-6143.2002.020111.x](https://doi.org/10.1034/j.1600-6143.2002.020111.x).
20. Abdalkhani A, Sellers R, Gent J, Wulitich H, Childress S, Stein B, Boissy RE, **Wysolmerski JJ**, Foley J. Nipple connective tissue and its development: insights from the K14-PTHrP mouse. Mechanisms Of Development 2002, 115: 63-77. [PMID: 12049768](https://pubmed.ncbi.nlm.nih.gov/12049768), [DOI: 10.1016/s0925-4773(02)00092-8](https://doi.org/10.1016/s0925-4773(02)00092-8).
21. VanHouten JN, **Wysolmerski JJ**. Low estrogen and high parathyroid hormone-related peptide levels contribute to accelerated bone resorption and bone loss in lactating mice. Endocrinology 2003, 144: 5521-9. [PMID: 14500568](https://pubmed.ncbi.nlm.nih.gov/14500568), [DOI: 10.1210/en.2003-0892](https://doi.org/10.1210/en.2003-0892).
22. VanHouten JN, Dann P, Stewart AF, Watson CJ, Pollak M, Karaplis AC, **Wysolmerski JJ**. Mammary-specific deletion of parathyroid hormone-related protein preserves bone mass during lactation. The Journal Of Clinical Investigation 2003, 112: 1429-36. [PMID: 14597768](https://pubmed.ncbi.nlm.nih.gov/14597768), [PMCID: PMC228471](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC228471), [DOI: 10.1172/JCI19504](https://doi.org/10.1172/JCI19504).
23. Kifor O, Moore FD, Delaney M, Garber J, Hendy GN, Butters R, Gao P, Cantor TL, Kifor I, Brown EM, **Wysolmerski J**. A syndrome of hypocalciuric hypercalcemia caused by autoantibodies directed at the calcium-sensing receptor. The Journal Of Clinical Endocrinology And Metabolism 2003, 88: 60-72. [PMID: 12519831](https://pubmed.ncbi.nlm.nih.gov/12519831), [DOI: 10.1210/jc.2002-020249](https://doi.org/10.1210/jc.2002-020249).
24. Chu EY, Hens J, Andl T, Kairo A, Yamaguchi TP, Brisken C, Glick A, **Wysolmerski JJ**, Millar SE. Canonical WNT signaling promotes mammary placode development and is essential for initiation of mammary gland morphogenesis. Development (Cambridge, England) 2004, 131: 4819-29. [PMID: 15342465](https://pubmed.ncbi.nlm.nih.gov/15342465), [DOI: 10.1242/dev.01347](https://doi.org/10.1242/dev.01347).
25. VanHouten J, Dann P, McGeoch G, Brown EM, Krapcho K, Neville M, **Wysolmerski JJ**. The calcium-sensing receptor regulates mammary gland parathyroid hormone-related protein production and calcium transport. The Journal Of Clinical Investigation 2004, 113: 598-608. [PMID: 14966569](https://pubmed.ncbi.nlm.nih.gov/14966569), [PMCID: PMC338258](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC338258), [DOI: 10.1172/JCI18776](https://doi.org/10.1172/JCI18776).
26. Hens JR, Wilson KM, Dann P, Chen X, Horowitz MC, **Wysolmerski JJ**. TOPGAL mice show that the canonical Wnt signaling pathway is active during bone development and growth and is activated by mechanical loading in vitro. Journal Of Bone And Mineral Research : The Official Journal Of The American Society For Bone And Mineral Research 2005, 20: 1103-13. [PMID: 15940363](https://pubmed.ncbi.nlm.nih.gov/15940363), [DOI: 10.1359/JBMR.050210](https://doi.org/10.1359/JBMR.050210).
27. Horwitz MJ, Tedesco MB, Sereika SM, Syed MA, Garcia-Ocaña A, Bisello A, Hollis BW, Rosen CJ, **Wysolmerski JJ**, Dann P, Gundberg C, Stewart AF. Continuous PTH and PTHrP infusion causes suppression of bone formation and discordant effects on 1,25(OH)2 vitamin D. Journal Of Bone And Mineral Research : The Official Journal Of The American Society For Bone And Mineral Research 2005, 20: 1792-803. [PMID: 16160737](https://pubmed.ncbi.nlm.nih.gov/16160737), [DOI: 10.1359/JBMR.050602](https://doi.org/10.1359/JBMR.050602).
28. Ardeshirpour L, Dann P, Pollak M, **Wysolmerski J**, VanHouten J. The calcium-sensing receptor regulates PTHrP production and calcium transport in the lactating mammary gland. Bone 2006, 38: 787-93. [PMID: 16377269](https://pubmed.ncbi.nlm.nih.gov/16377269), [DOI: 10.1016/j.bone.2005.11.009](https://doi.org/10.1016/j.bone.2005.11.009).
29. VanHouten JN, Yu N, Rimm D, Dotto J, Arnold A, **Wysolmerski JJ**, Udelsman R. Hypercalcemia of malignancy due to ectopic transactivation of the parathyroid hormone gene. The Journal Of Clinical Endocrinology And Metabolism 2006, 91: 580-3. [PMID: 16263810](https://pubmed.ncbi.nlm.nih.gov/16263810), [DOI: 10.1210/jc.2005-2095](https://doi.org/10.1210/jc.2005-2095).
30. Ardeshirpour L, Dann P, Adams DJ, Nelson T, VanHouten J, Horowitz MC, **Wysolmerski JJ**. Weaning triggers a decrease in receptor activator of nuclear factor-kappaB ligand expression, widespread osteoclast apoptosis, and rapid recovery of bone mass after lactation in mice. Endocrinology 2007, 148: 3875-86. [PMID: 17495007](https://pubmed.ncbi.nlm.nih.gov/17495007), [DOI: 10.1210/en.2006-1467](https://doi.org/10.1210/en.2006-1467).
31. Hens JR, Dann P, Zhang JP, Harris S, Robinson GW, **Wysolmerski J**. BMP4 and PTHrP interact to stimulate ductal outgrowth during embryonic mammary development and to inhibit hair follicle induction. Development (Cambridge, England) 2007, 134: 1221-30. [PMID: 17301089](https://pubmed.ncbi.nlm.nih.gov/17301089), [DOI: 10.1242/dev.000182](https://doi.org/10.1242/dev.000182).
32. VanHouten JN, Neville MC, **Wysolmerski JJ**. The calcium-sensing receptor regulates plasma membrane calcium adenosine triphosphatase isoform 2 activity in mammary epithelial cells: a mechanism for calcium-regulated calcium transport into milk. Endocrinology 2007, 148: 5943-54. [PMID: 17823248](https://pubmed.ncbi.nlm.nih.gov/17823248), [PMCID: PMC7108505](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7108505), [DOI: 10.1210/en.2007-0850](https://doi.org/10.1210/en.2007-0850).
33. Dann P, Hens JR, Troiano NW, **Wysolmerski J**, Kacena MA. J Histotech, Preservation of -galactosidase in decalcified murine bone specimens embedded in paraffin, 2008, 31:61-64
34. Mamillapalli R, VanHouten J, Zawalich W, **Wysolmerski J**. Switching of G-protein usage by the calcium-sensing receptor reverses its effect on parathyroid hormone-related protein secretion in normal versus malignant breast cells. The Journal Of Biological Chemistry 2008, 283: 24435-47. [PMID: 18621740](https://pubmed.ncbi.nlm.nih.gov/18621740), [PMCID: PMC2528989](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2528989), [DOI: 10.1074/jbc.M801738200](https://doi.org/10.1074/jbc.M801738200).
35. Hens J, Dann P, Hiremath M, Pan TC, Chodosh L, **Wysolmerski J**. Analysis of gene expression in PTHrP-/- mammary buds supports a role for BMP signaling and MMP2 in the initiation of ductal morphogenesis. Developmental Dynamics : An Official Publication Of The American Association Of Anatomists 2009, 238: 2713-24. [PMID: 19795511](https://pubmed.ncbi.nlm.nih.gov/19795511), [PMCID: PMC2862621](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2862621), [DOI: 10.1002/dvdy.22097](https://doi.org/10.1002/dvdy.22097).
36. VanHouten J, Sullivan C, Bazinet C, Ryoo T, Camp R, Rimm DL, Chung G, **Wysolmerski J**. PMCA2 regulates apoptosis during mammary gland involution and predicts outcome in breast cancer. Proceedings Of The National Academy Of Sciences Of The United States Of America 2010, 107: 11405-10. [PMID: 20534448](https://pubmed.ncbi.nlm.nih.gov/20534448), [PMCID: PMC2895115](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2895115), [DOI: 10.1073/pnas.0911186107](https://doi.org/10.1073/pnas.0911186107).
37. Mamillapalli R, **Wysolmerski J**. The calcium-sensing receptor couples to Galpha(s) and regulates PTHrP and ACTH secretion in pituitary cells. The Journal Of Endocrinology 2010, 204: 287-97. [PMID: 20032198](https://pubmed.ncbi.nlm.nih.gov/20032198), [PMCID: PMC3777408](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3777408), [DOI: 10.1677/JOE-09-0183](https://doi.org/10.1677/JOE-09-0183).
38. Coletta RD, McCoy EL, Burns V, Kawakami K, McManaman JL, **Wysolmerski JJ**, Ford HL. Characterization of the Six1 homeobox gene in normal mammary gland morphogenesis. BMC Developmental Biology 2010, 10: 4. [PMID: 20074369](https://pubmed.ncbi.nlm.nih.gov/20074369), [PMCID: PMC2823684](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2823684), [DOI: 10.1186/1471-213X-10-4](https://doi.org/10.1186/1471-213X-10-4).
39. Ardeshirpour L, Brian S, Dann P, VanHouten J, **Wysolmerski J**. Increased PTHrP and decreased estrogens alter bone turnover but do not reproduce the full effects of lactation on the skeleton. Endocrinology 2010, 151: 5591-601. [PMID: 21047946](https://pubmed.ncbi.nlm.nih.gov/21047946), [PMCID: PMC2999486](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2999486), [DOI: 10.1210/en.2010-0566](https://doi.org/10.1210/en.2010-0566).
40. Boras-Granic K, VanHouten J, Hiremath M, **Wysolmerski J**. Parathyroid hormone-related protein is not required for normal ductal or alveolar development in the post-natal mammary gland. PloS One 2011, 6: e27278. [PMID: 22087279](https://pubmed.ncbi.nlm.nih.gov/22087279), [PMCID: PMC3210770](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3210770), [DOI: 10.1371/journal.pone.0027278](https://doi.org/10.1371/journal.pone.0027278).
41. Kirby BJ, Ardeshirpour L, Woodrow JP, **Wysolmerski JJ**, Sims NA, Karaplis AC, Kovacs CS. Skeletal recovery after weaning does not require PTHrP. Journal Of Bone And Mineral Research : The Official Journal Of The American Society For Bone And Mineral Research 2011, 26: 1242-51. [PMID: 21308774](https://pubmed.ncbi.nlm.nih.gov/21308774), [PMCID: PMC3179289](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3179289), [DOI: 10.1002/jbmr.339](https://doi.org/10.1002/jbmr.339).
42. Liu XS, Ardeshirpour L, VanHouten JN, Shane E, **Wysolmerski JJ**. Site-specific changes in bone microarchitecture, mineralization, and stiffness during lactation and after weaning in mice. Journal Of Bone And Mineral Research : The Official Journal Of The American Society For Bone And Mineral Research 2012, 27: 865-75. [PMID: 22189918](https://pubmed.ncbi.nlm.nih.gov/22189918), [DOI: 10.1002/jbmr.1503](https://doi.org/10.1002/jbmr.1503).
43. Hiremath M, Dann P, Fischer J, Butterworth D, Boras-Granic K, Hens J, Van Houten J, Shi W, **Wysolmerski J**. Parathyroid hormone-related protein activates Wnt signaling to specify the embryonic mammary mesenchyme. Development (Cambridge, England) 2012, 139: 4239-49. [PMID: 23034629](https://pubmed.ncbi.nlm.nih.gov/23034629), [PMCID: PMC3478689](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3478689), [DOI: 10.1242/dev.080671](https://doi.org/10.1242/dev.080671).
44. Qing H\*, Ardeshirpour L\*, Pajevic PD, Dusevich V, Jähn K, Kato S, **Wysolmerski J**, Bonewald LF. Demonstration of osteocytic perilacunar/canalicular remodeling in mice during lactation. Journal Of Bone And Mineral Research : The Official Journal Of The American Society For Bone And Mineral Research 2012, 27: 1018-29. [PMID: 22308018](https://pubmed.ncbi.nlm.nih.gov/22308018), [PMCID: PMC3770147](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3770147), [DOI: 10.1002/jbmr.1567](https://doi.org/10.1002/jbmr.1567). \*Contributed Equally
45. Mamillapalli R, VanHouten J, Dann P, Bikle D, Chang W, Brown E, **Wysolmerski J**. Mammary-specific ablation of the calcium-sensing receptor during lactation alters maternal calcium metabolism, milk calcium transport, and neonatal calcium accrual. Endocrinology 2013, 154: 3031-42. [PMID: 23782944](https://pubmed.ncbi.nlm.nih.gov/23782944), [PMCID: PMC3749485](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3749485), [DOI: 10.1210/en.2012-2195](https://doi.org/10.1210/en.2012-2195).
46. Boras-Granic K, Dann P, Vanhouten J, Karaplis A, **Wysolmerski J**. Deletion of the nuclear localization sequences and C-terminus of PTHrP impairs embryonic mammary development but also inhibits PTHrP production. PloS One 2014, 9: e90418. [PMID: 24785493](https://pubmed.ncbi.nlm.nih.gov/24785493), [PMCID: PMC4006745](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4006745), [DOI: 10.1371/journal.pone.0090418](https://doi.org/10.1371/journal.pone.0090418).
47. Boras-Granic K, Dann P, **Wysolmerski JJ**. Embryonic cells contribute directly to the quiescent stem cell population in the adult mouse mammary gland. Breast Cancer Research : BCR 2014, 16: 487. [PMID: 25467960](https://pubmed.ncbi.nlm.nih.gov/25467960), [PMCID: PMC4308878](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4308878), [DOI: 10.1186/s13058-014-0487-6](https://doi.org/10.1186/s13058-014-0487-6).
48. Ardeshirpour L, Dumitru C, Dann P, Sterpka J, VanHouten J, Kim W, Kostenuik P, **Wysolmerski J**. OPG Treatment Prevents Bone Loss During Lactation But Does Not Affect Milk Production or Maternal Calcium Metabolism. Endocrinology 2015, 156: 2762-73. [PMID: 25961842](https://pubmed.ncbi.nlm.nih.gov/25961842), [PMCID: PMC4511126](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4511126), [DOI: 10.1210/en.2015-1232](https://doi.org/10.1210/en.2015-1232).
49. Kim W, Takyar FM, Swan K, Jeong J, VanHouten J, Sullivan C, Dann P, Yu H, Fiaschi-Taesch N, Chang W, **Wysolmerski J**. Calcium-Sensing Receptor Promotes Breast Cancer by Stimulating Intracrine Actions of Parathyroid Hormone-Related Protein. Cancer Research 2016, 76: 5348-60. [PMID: 27450451](https://pubmed.ncbi.nlm.nih.gov/27450451), [PMCID: PMC5026591](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5026591), [DOI: 10.1158/0008-5472.CAN-15-2614](https://doi.org/10.1158/0008-5472.CAN-15-2614).
50. Jeong J, VanHouten JN, Dann P, Kim W, Sullivan C, Yu H, Liotta L, Espina V, Stern DF, Friedman PA, **Wysolmerski JJ**. PMCA2 regulates HER2 protein kinase localization and signaling and promotes HER2-mediated breast cancer. Proceedings Of The National Academy Of Sciences Of The United States Of America 2016, 113: E282-90. [PMID: 26729871](https://pubmed.ncbi.nlm.nih.gov/26729871), [PMCID: PMC4725473](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4725473), [DOI: 10.1073/pnas.1516138113](https://doi.org/10.1073/pnas.1516138113).
51. Jeong J, Kim W, Kim LK, VanHouten J, **Wysolmerski JJ**. HER2 signaling regulates HER2 localization and membrane retention. PloS One 2017, 12: e0174849. [PMID: 28369073](https://pubmed.ncbi.nlm.nih.gov/28369073), [PMCID: PMC5378417](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5378417), [DOI: 10.1371/journal.pone.0174849](https://doi.org/10.1371/journal.pone.0174849).
52. Jeong J, VanHouten JN, Kim W, Dann P, Sullivan C, Choi J, Sneddon WB, Friedman PA, **Wysolmerski JJ**. The scaffolding protein NHERF1 regulates the stability and activity of the tyrosine kinase HER2. The Journal Of Biological Chemistry 2017, 292: 6555-6568. [PMID: 28235801](https://pubmed.ncbi.nlm.nih.gov/28235801), [PMCID: PMC5399107](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5399107), [DOI: 10.1074/jbc.M116.770883](https://doi.org/10.1074/jbc.M116.770883).
53. Zwick RK, Rudolph MC, Shook BA, Holtrup B, Roth E, Lei V, Van Keymeulen A, Seewaldt V, Kwei S, **Wysolmerski J**, Rodeheffer MS, Horsley V. Adipocyte hypertrophy and lipid dynamics underlie mammary gland remodeling after lactation. Nature Communications 2018, 9: 3592. [PMID: 30181538](https://pubmed.ncbi.nlm.nih.gov/30181538), [PMCID: PMC6123393](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6123393), [DOI: 10.1038/s41467-018-05911-0](https://doi.org/10.1038/s41467-018-05911-0).
54. Jeong J, Choi J, Kim W, Dann P, Takyar F, Gefter JV, Friedman PA, **Wysolmerski J**. Inhibition of ezrin causes PKCα-mediated internalization of erbb2/HER2 tyrosine kinase in breast cancer cells. The Journal Of Biological Chemistry 2019, 294: 887-901. [PMID: 30463939](https://pubmed.ncbi.nlm.nih.gov/30463939), [PMCID: PMC6341383](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6341383), [DOI: 10.1074/jbc.RA118.004143](https://doi.org/10.1074/jbc.RA118.004143).
55. Jeong J, Kim W, Hens J, Dann P, Schedin P, Friedman PA, **Wysolmerski JJ**. NHERF1 Is Required for Localization of PMCA2 and Suppression of Early Involution in the Female Lactating Mammary Gland. Endocrinology 2019, 160: 1797-1810. [PMID: 31087002](https://pubmed.ncbi.nlm.nih.gov/31087002), [PMCID: PMC6619491](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6619491), [DOI: 10.1210/en.2019-00230](https://doi.org/10.1210/en.2019-00230).
56. Lotinun S, Ishihara Y, Nagano K, Kiviranta R, Carpentier VT, Neff L, Parkman V, Ide N, Hu D, Dann P, Brooks D, Bouxsein ML, **Wysolmerski J**, Gori F, Baron R. Cathepsin K-deficient osteocytes prevent lactation-induced bone loss and parathyroid hormone suppression. The Journal Of Clinical Investigation 2019, 129: 3058-3071. [PMID: 31112135](https://pubmed.ncbi.nlm.nih.gov/31112135), [PMCID: PMC6668688](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6668688), [DOI: 10.1172/JCI122936](https://doi.org/10.1172/JCI122936).
57. Jeong J, Kadegowda AKG, Meyer TJ, Jenkins LM, Dinan JC, **Wysolmerski JJ**, Weigert R, Mather IH. The butyrophilin 1a1 knockout mouse revisited: Ablation of Btn1a1 leads to concurrent cell death and renewal in the mammary epithelium during lactation. FASEB BioAdvances 2021, 3: 971-997. [PMID: 34938960](https://pubmed.ncbi.nlm.nih.gov/34938960), [PMCID: PMC8664049](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8664049), [DOI: 10.1096/fba.2021-00059](https://doi.org/10.1096/fba.2021-00059).
58. Jeong J, Shin JH, Li W, Hong JY, Lim J, Hwang JY, Chung JJ, Yan Q, Liu Y, Choi J, **Wysolmerski J**. MAL2 mediates the formation of stable HER2 signaling complexes within lipid raft-rich membrane protrusions in breast cancer cells. Cell Reports 2021, 37: 110160. [PMID: 34965434](https://pubmed.ncbi.nlm.nih.gov/34965434), [PMCID: PMC8762588](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8762588), [DOI: 10.1016/j.celrep.2021.110160](https://doi.org/10.1016/j.celrep.2021.110160).
59. Grinman DY, Boras-Granic K, Takyar FM, Dann P, Hens JR, Marmol C, Lee J, Choi J, Chodosh LA, Sola MEG, **Wysolmerski JJ**. PTHrP induces STAT5 activation, secretory differentiation and accelerates mammary tumor development. Breast Cancer Research : BCR 2022, 24: 30. [PMID: 35440032](https://pubmed.ncbi.nlm.nih.gov/35440032), [PMCID: PMC9020078](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9020078), [DOI: 10.1186/s13058-022-01523-1](https://doi.org/10.1186/s13058-022-01523-1).
60. Niu I, Hsiao EC, Wustrack R, **Wysolmerski JJ**, Dann P, Masharani U. A Case of Hypercalcemia from PTHrP-Producing Fibromyxoid Sarcoma Responsive to Glucocorticoid Therapy. Calcif Tissue Int 2023, 113:246-253, PMID: 37358786, DOI: 10.1007/s00223-023-01099-8.
61. Jeong J, Lee J, Talaia G, Kim W, Song J, Hong, J, Yoo K, Gonzalez DG, Athonvarangkul D, Shin JH, Dann P, Haberman AM, Kim LK, Ferguson SM, Choi J, **Wysolmerski JJ.** Intracellular Calcium Links Milk Stasis to Lysosome Dependent Cell Death during Early Mammary Gland Involution. Cell Mol Life Sci 2024, 81:29. PMID: 38212474, DOI: 10.1007/s00018-023-05044-8.
62. Shin JH, Park J, Lim J, Jeong J, Dinesh RK, Maher SE, Hong JY, **Wysolmerski JJ,** Choi J, Bothwell ALM. Metastasis of colon cancer requires Dickopf-2 to generate cancer cells with Paneth cells properties.eLife-VOR-RA-2024-97279 2024, in press.

### **Peer-Reviewed Reviews, Practice Guidelines, Standards, and Consensus Statements**

1. **Wysolmerski JJ**, Broadus AE. Hypercalcemia of malignancy: the central role of parathyroid hormone-related protein. Annual Review Of Medicine 1994, 45: 189-200. [PMID: 8198376](https://pubmed.ncbi.nlm.nih.gov/8198376), [DOI: 10.1146/annurev.med.45.1.189](https://doi.org/10.1146/annurev.med.45.1.189).
2. Philbrick WM, **Wysolmerski JJ**, Galbraith S, Holt E, Orloff JJ, Yang KH, Vasavada RC, Weir EC, Broadus AE, Stewart AF. Defining the roles of parathyroid hormone-related protein in normal physiology. Physiological Reviews 1996, 76: 127-73. [PMID: 8592727](https://pubmed.ncbi.nlm.nih.gov/8592727), [DOI: 10.1152/physrev.1996.76.1.127](https://doi.org/10.1152/physrev.1996.76.1.127).
3. Dunbar ME, **Wysolmerski JJ**, Broadus AE. Parathyroid hormone-related protein: from hypercalcemia of malignancy to developmental regulatory molecule. The American Journal Of The Medical Sciences 1996, 312: 287-94. [PMID: 8969618](https://pubmed.ncbi.nlm.nih.gov/8969618), [DOI: 10.1097/00000441-199612000-00007](https://doi.org/10.1097/00000441-199612000-00007).
4. **Wysolmerski JJ**, Stewart AF. The physiology of parathyroid hormone-related protein: an emerging role as a developmental factor. Annual Review Of Physiology 1998, 60: 431-60. [PMID: 9558472](https://pubmed.ncbi.nlm.nih.gov/9558472), [DOI: 10.1146/annurev.physiol.60.1.431](https://doi.org/10.1146/annurev.physiol.60.1.431)
5. Dunbar ME, **Wysolmerski JJ**. Parathyroid hormone-related protein: a developmental regulatory molecule necessary for mammary gland development. Journal Of Mammary Gland Biology And Neoplasia 1999, 4: 21-34. [PMID: 10219904](https://pubmed.ncbi.nlm.nih.gov/10219904), [DOI: 10.1023/a:1018700502518](https://doi.org/10.1023/a:1018700502518).
6. Dunbar ME, **Wysolmerski JJ**. Mammary ductal and alveolar development: lesson learned from genetically manipulated mice. Microscopy Research And Technique 2001, 52: 163-70. [PMID: 11169864](https://pubmed.ncbi.nlm.nih.gov/11169864), [DOI: 10.1002/1097-0029(20010115)52:2<163::AID-JEMT1002>3.0.CO;2-R](https://doi.org/10.1002/1097-0029(20010115)52:2%3c163::AID-JEMT1002%3e3.0.CO;2-R).
7. **Wysolmerski JJ**. The evolutionary origins of maternal calcium and bone metabolism during lactation. Journal Of Mammary Gland Biology And Neoplasia 2002, 7: 267-76. [PMID: 12751891](https://pubmed.ncbi.nlm.nih.gov/12751891), [DOI: 10.1023/a:1022800716196](https://doi.org/10.1023/a:1022800716196).
8. Hens JR, **Wysolmerski JJ**. Key stages of mammary gland development: molecular mechanisms involved in the formation of the embryonic mammary gland. Breast Cancer Research : BCR 2005, 7: 220-4. [PMID: 16168142](https://pubmed.ncbi.nlm.nih.gov/16168142), [PMCID: PMC1242158](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1242158), [DOI: 10.1186/bcr1306](https://doi.org/10.1186/bcr1306).
9. **Wysolmerski J.** Calcium handling by the lactating breast and its relationship to calcium-related complications of breast cancer. Journal Of Mammary Gland Biology And Neoplasia 2005, 10: 101-3. [PMID: 16025217](https://pubmed.ncbi.nlm.nih.gov/16025217), [DOI: 10.1007/s10911-005-5393-1](https://doi.org/10.1007/s10911-005-5393-1).
10. DeMauro S, **Wysolmerski J.** Hypercalcemia in breast cancer: an echo of bone mobilization during lactation? Journal Of Mammary Gland Biology And Neoplasia 2005, 10: 157-67. [PMID: 16025222](https://pubmed.ncbi.nlm.nih.gov/16025222), [DOI: 10.1007/s10911-005-5398-9](https://doi.org/10.1007/s10911-005-5398-9).
11. **Wysolmerski, JJ**. Conversations between breast and bone: physiological bone loss during lactation as evolutionary template for osteolysis in breast cancer and pathological bone loss after menopause. *BoneKEy* **2007,** 4:209-225.
12. VanHouten JN, **Wysolmerski JJ**. Transcellular calcium transport in mammary epithelial cells. Journal Of Mammary Gland Biology And Neoplasia 2007, 12: 223-35. [PMID: 17999165](https://pubmed.ncbi.nlm.nih.gov/17999165), [DOI: 10.1007/s10911-007-9057-1](https://doi.org/10.1007/s10911-007-9057-1).
13. Boras-Granic K, **Wysolmerski JJ**. Wnt signaling in breast organogenesis. Organogenesis 2008, 4: 116-22. [PMID: 19279723](https://pubmed.ncbi.nlm.nih.gov/19279723), [PMCID: PMC2634257](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2634257), [DOI: 10.4161/org.4.2.5858](https://doi.org/10.4161/org.4.2.5858).
14. Cowin P, **Wysolmerski J.** Molecular mechanisms guiding embryonic mammary gland development. Cold Spring Harbor Perspectives In Biology 2010, 2: a003251. [PMID: 20484386](https://pubmed.ncbi.nlm.nih.gov/20484386), [PMCID: PMC2869520](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2869520), [DOI: 10.1101/cshperspect.a003251](https://doi.org/10.1101/cshperspect.a003251).
15. **Wysolmerski JJ**. Interactions between breast, bone, and brain regulate mineral and skeletal metabolism during lactation. Annals Of The New York Academy Of Sciences 2010, 1192: 161-9. [PMID: 20392232](https://pubmed.ncbi.nlm.nih.gov/20392232), [PMCID: PMC3777748](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3777748), [DOI: 10.1111/j.1749-6632.2009.05249.x](https://doi.org/10.1111/j.1749-6632.2009.05249.x).
16. Boras-Granic K, **Wysolmerski JJ**. PTHrP and breast cancer: more than hypercalcemia and bone metastases. Breast Cancer Research : BCR 2012, 14: 307. [PMID: 22546075](https://pubmed.ncbi.nlm.nih.gov/22546075), [PMCID: PMC3446368](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3446368), [DOI: 10.1186/bcr3129](https://doi.org/10.1186/bcr3129).
17. **Wysolmerski JJ**. Osteocytic osteolysis: time for a second look? BoneKEy Reports 2012, 1: 229. [PMID: 24363929](https://pubmed.ncbi.nlm.nih.gov/24363929), [PMCID: PMC3868715](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3868715), [DOI: 10.1038/bonekey.2012.229](https://doi.org/10.1038/bonekey.2012.229).
18. **Wysolmerski JJ**. Parathyroid hormone-related protein: an update. The Journal Of Clinical Endocrinology And Metabolism 2012, 97: 2947-56. [PMID: 22745236](https://pubmed.ncbi.nlm.nih.gov/22745236), [PMCID: PMC3431578](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3431578), [DOI: 10.1210/jc.2012-2142](https://doi.org/10.1210/jc.2012-2142).
19. Vanhouten JN, **Wysolmerski JJ**. The calcium-sensing receptor in the breast. Best Practice & Research. Clinical Endocrinology & Metabolism 2013, 27: 403-14. [PMID: 23856268](https://pubmed.ncbi.nlm.nih.gov/23856268), [PMCID: PMC3713417](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3713417), [DOI: 10.1016/j.beem.2013.02.011](https://doi.org/10.1016/j.beem.2013.02.011).
20. Hiremath M, **Wysolmerski J.** Parathyroid hormone-related protein specifies the mammary mesenchyme and regulates embryonic mammary development. Journal Of Mammary Gland Biology And Neoplasia 2013, 18: 171-7. [PMID: 23640717](https://pubmed.ncbi.nlm.nih.gov/23640717), [PMCID: PMC3696739](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3696739), [DOI: 10.1007/s10911-013-9283-7](https://doi.org/10.1007/s10911-013-9283-7).
21. Espina V, **Wysolmerski J**, Edmiston K, Liotta LA. Attacking breast cancer at the preinvasion stage by targeting autophagy. Women's Health (London, England) 2013, 9: 157-70. [PMID: 23477322](https://pubmed.ncbi.nlm.nih.gov/23477322), [PMCID: PMC3779365](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3779365), [DOI: 10.2217/whe.13.5](https://doi.org/10.2217/whe.13.5).
22. **Wysolmerski JJ**. Osteocytes remove and replace perilacunar mineral during reproductive cycles. Bone 2013, 54: 230-6. [PMID: 23352996](https://pubmed.ncbi.nlm.nih.gov/23352996), [PMCID: PMC3624069](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3624069), [DOI: 10.1016/j.bone.2013.01.025](https://doi.org/10.1016/j.bone.2013.01.025).
23. Kim W, **Wysolmerski JJ**. Calcium-Sensing Receptor in Breast Physiology and Cancer. Frontiers In Physiology 2016, 7: 440. [PMID: 27746743](https://pubmed.ncbi.nlm.nih.gov/27746743), [PMCID: PMC5043011](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5043011), [DOI: 10.3389/fphys.2016.00440](https://doi.org/10.3389/fphys.2016.00440).
24. Grinman D, Athonvarungkul D, **Wysolmerski J**, Jeong J. Calcium Metabolism and Breast Cancer: Echoes of Lactation? Current Opinion In Endocrine And Metabolic Research 2020, 15: 63-70. [PMID: 33299957](https://pubmed.ncbi.nlm.nih.gov/33299957), [PMCID: PMC7720883](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7720883), [DOI: 10.1016/j.coemr.2020.11.006](https://doi.org/10.1016/j.coemr.2020.11.006).
25. Guise TA, **Wysolmerski JJ**. Cancer-Associated Hypercalcemia. The New England Journal Of

Medicine 2022, 386: 1443-1451. [PMID: 35417639](https://pubmed.ncbi.nlm.nih.gov/35417639), [DOI: 10.1056/NEJMcp2113128](https://doi.org/10.1056/NEJMcp2113128).

1. Guise TA, **Wysolmerski JJ**. Cancer-Associated Hypercalcemia. Reply. The New England Journal Of Medicine 2022, 386: 2540. [PMID: 35767456](https://pubmed.ncbi.nlm.nih.gov/35767456), [DOI: 10.1056/NEJMc2206287](https://doi.org/10.1056/NEJMc2206287).
2. Athonvarangkul D and **Wysolmerski JJ.** Crosstalk within a brain-breast-bone axis regulates mineral and skeletal metabolism during lactation. Frontiers in Physiology, 2023, 14:1121579 PMID: 36875035, <https://doi.org/10.3389/fphys.2023.1121579>
3. Niu I, Hsiao EC, Wustrack R, **Wysolmerski JJ**, Dann P, Masharani U. A case of hypercalcemia from PTHrP-Producing fibromyxoid sarcoma responsive to glucocorticoid therapy. Calcif Tissue Int. **2023** Aug;113(2):246-253. PMID: 37358786, doi: 10.1007/s00223-023-01099-8.
4. Shin JH, Park J, Lim J, Jeong J, Dinesh RK, Maher SE, Kim J, Park S, Hong JY, **Wysolmerski J,** Choi J, Bothwell ALM. Metastasis of colon cancer requires Dickkopf-2 to generate cancer cells with Paneth cell properties. Elife, **2024**. 13:RP97279, PMID: 39535280, doi: 10.7554/eLife.97279.
5. Jeong J, Lee J, Talaia G, Kim W, Song J, Hong J, Yoo K, Gonzalez DG, Athonvarangkul D, Shin J, Dann P, Haberman AM, Kim LK, Ferguson SM, Choi J, **Wysolmerski J**. Intracellular calcium links milk stasis to lysosome-dependent cell death during early mammary gland involution Cell Mol Life Sci. **2024** Jan 12;81(1):29. PMID: 38212474, doi: 10.1007/s00018-023-05044-8.
6. Grinman DY, Takyar FM, Dann P, Shanabrough M, Brown S, Clemenceau A, Hens JR, Stutz B, Chodosh LA, Chang W, Shulman GI, Horvath T, **Wysolmerski JJ**. Cancer-associated hypercalcemia signals through the hindbrain to cause anorexia. bioRxiv **2024**.03.19.585694; doi: <https://doi.org/10.1101/2024.03.19.585694>
7. Jeong J, Lee J, Lim J, Shin J, Yoo K, Kim J, Tanaka Y, Seop Tae H, Kim LK, Park I, **Wysolmerski J**, Choi J. FOXA1 is required for ErbB2 expression and luminal differentiation in HER2-positive breast cancer. bioRxiv **2024**.04.16.589460; doi: <https://doi.org/10.1101/2024.04.16.589460>.
8. Jeong J, Yoo K, Lee J, Shin JH, Choi J, **Wysolmerski J**. Erbin interacts with NHERF1 and Ezrin to stabilize a membrane ErbB2 signaling complex in HER2-positive breast cancer. bioRxiv **2024**.10.01.616146; doi: https://doi.org/10.1101/2024.10.01.616146
9. Hens JR, Brown S, Licznerski P, Suarez J, Jonas E, **Wysolmerski JJ.** Development of a floxed Gabbr2 gene allows for widespread conditional disruption of GABBR2 and recapitulates the phenotype of germline Gabbr2 knockout mice. bioRxiv **2025**.01.23.634473; doi: https://doi.org/10.1101/2025.01.23.634473

Book Chapters

1. **Wysolmerski JJ**, Broadus AE. Hypercalcemia. **1996.** In: Molecular Endocrinology of Cancer. J Waxman, ed., Cambridge, Cambridge University Press
2. **Wysolmerski JJ**, Stewart AF. Martin TJ., Physiological actions of PTH and PTHrP V: epidermal, mammary, reproductive and pancreatic tissue, **2001.** in The Parathyroids: Basic and Clinical Concepts, 2nd Edition, JP Bilezekian, LG Raiszm FA Rodan, eds. Academic Press, San Diego, 275-292
3. **Wysolmerski JJ**, Stewart AF. Martin TJ., Physiological actions of PTH and PTHrP: epidermal, mammary, reproductive and pancreatic tissues., **2001**, in: Principals of Bone Biology, 2nd Edition, JP Bilezekian, LG Raisz, GA Rodan, eds. Academic Press, San Diego, 2001, 515-530.
4. VanHouten J, Wysolmerski, JJ. Endocrinology of breast development, lactation and galactorrhea. **2002,** In ENDOTEXT.ORG, A Arnold, GM Besser, M Blackman, G Burrow, J Caro, G Chrousos, L DeGroot, L Fitzpatrick, I Glodfine, R McLachlan, M New, R Rebar and A Vinik, eds. MDTEXT.COM Inc., South Dartmouth, MA,
5. VanHouten J, **Wysolmerski JJ**, Parathyroid hormone-related protein (PTHrP). **2003.** In Encyclopedia of Hormones. In Encyclopedia of Hormones. HL Henry and AW Norman, eds. Academic Press, San Diego
6. Golden L, Insogna K, **Wysolmerski J.**, Parathyroid Hormone, Parathyroid Hormone-Related Protein and Vitamin D Metabolites., **2003**. In Primer on the Metabolic Bone Diseases and Disorders of Mineral Metabolism, Fifth Edition. M. Favus, ed. American Society of Bone and Mineral Research, Washington, D.C., 155-166.
7. **Wysolmerski JJ**, Miscellaneous Causes of Hypercalcemia. **2003.** In Primer on the Metabolic Bone Diseases and Disorders of Mineral Metabolism, Fifth Edition. M. Favus, ed. American Society of Bone and Mineral Research, Washington, D.C., 260-266
8. **Wysolmerski JJ**, Miscellaneous Causes of Hypercalcemia. **2006**. In Primer on the Metabolic Bone Diseases and Disorders of Mineral Metabolism, Sixth Edition. M. Favus, ed. American Society of Bone and Mineral Research, Washington, D.C., 203-208.
9. **Wysolmerski J**, Insogna K., The parathyroid glands, hypercalcemia and hypocalcemia. **2007.** In Cecil Textbook of Medicine, 23rd Edition. Goldman and Ausiello, eds. Elsevier Press, Philadelphia, PA., pp1897-1906.
10. **Wysolmerski JJ**, Kovacs, CS, Stewart AF., Physiological actions of PTH and PTHrP: epidermal, mammary, reproductive and pancreatic tissues. **2008.** in Principals of Bone Biology, 3rd Edition, JP Bilezekian, LG Raisz, TJ Martin, eds. Academic Press, San Diego
11. **Wysolmerski J**, Insogna K., The parathyroid glands, hypercalcemia and hypocalcemia. **2011**. In Cecil Textbook of Medicine, 24th Edition. Goldman and Ausiello, eds. Elsevier Press, Philadelphia, PA.
12. Holt E and **Wysolmerski JJ**., Parathyroid hormone, parathyroid hormone-related protein and calcitonin. **2011.** In Vitamin D, 3rd Edition. Feldman D, Pike JW, Adams JS, eds.
13. Dumitru, C and Wysolmerski, JJ. Disorders of Calcium Metabolism. **2013.** In Seldin and Giebisch’s The Kidney: Physiology and Pathophysiology, Fifth Edition, Alpern R, Moe OW, Caplan M. eds. Academic Press - Elsevier, London, UK, , Chapter 66, pp 2273-2310.
14. **Wysolmerski JJ**., Parathyroid Hormone-Related Protein. **2013.** In Primer on the Metabolic Bone Diseases and Disorders of Mineral Metabolism, Eighth Edition. C. Rosen, ed. American Society of Bone and Mineral Research, Washington, D.C., Eighth Edition, Chapter 27, pp 215-223.
15. **Wysolmerski JJ**, Physiologic Actions of PTH and PTHrP V: Epidermal, Mammary, Reproductive and Pancreatic. **2015.** In The Parathyroids, Third Edition, Bilezikian JP, Marcus R, Silverberg SJ, Marcocci C, Levine M, Potts JT Jr. eds. Elsevier, London, UK Chapter 13, pp 203-221,
16. Swan K and **Wysolmerski JJ**., Hypercalcemia of Malignancy. **2016.** In Endocrinology: Adult and Pediatric, Seventh Edition, Jameson JL, DeGroot LJ, Giudice LC, Grossman A, deKretser D, Melmed S, Potts JT, Weir GC eds. Elsevier Saunders, Philadelphia, PA, Chapter 64.
17. Wysolmerski, JJ, Parathyroid Hormone-related Protein. **2016.** In Endocrinology: Adult and Pediatric, Seventh Edition, Jameson JL, DeGroot LJ, Giudice LC, Grossman A, deKretser D, Melmed S, Potts JT, Weir GC eds. Elsevier Saunders, Philadelphia, PA, Chapter 57.
18. **Wysolmerski JJ**., Parathyroid Hormone Parathyroid Hormone-Related Protein and Calcitonin. **2017.** In Vitamin D, 4th Edition, Feldman D, Pike JW, Bouillon R, Giovannucci E, Goltzman D, Hewison M eds. Elsevier Academic Press, Cambridge, MA, Chapter 46, pp849-870.
19. **Wysolmerski JJ** and Martin TJ., Parathyroid Hormone-Related Protein. **2019.** In Primer on the Metabolic Bone Diseases and Disorders of Mineral Metabolism, Ninth Edition. Bilezikian J editor, Wiley and Sons, Hoboken, NJ, Chapter 28, pp 212-220.
20. Takyar F and **Wysolmerski J.**, Parathyroid Hormone-Related Protein. **2019.** In Manual of Endocrinology and Metabolism 5th Edition. Lavin, N editor, Lippincort Press, Wolters Kluwer. Philadelphia, PA, Chapter 34, pp445-449.
21. 46. Sadovnikova A, **Wysolmerski JJ**, Hovey RC., The onset and maintenance of human lactation and its endocrine regulation. **2019.** In Maternal-Fetal and Neonatal Endocrinology: Physiology, Pathophysiology and Clinical Management, Kovacs KS and Deal CL, eds., Chapter 14, pp189-206.
22. Bergwitz C and **Wysolmerski JJ**. Normal Physiology of Bone and Mineral Homeostasis. **2022.** in Cecil Essentials of Medicine, 10th Edition. Chapter 74, Edward Wing and Fred Schiffman, eds. Elsevier, San Diego,
23. Grinman, DY and **Wysolmerski, JJ.** Parathyroid Hormone-Related Protein. **2022**. In DeGroot’s Endocrinology, Basic Science and Clinical Practice, 8th Edition. R. Paul Robertson, ed. Elsevier, Chapter 48.
24. Athonvarangkul, D and **Wysolmerski, JJ.** Hypercalcemia of Malignancy. **2022**. In DeGroot’s Endocrinology, Basic Science and Clinical Practice, 8th Edition. R. Paul Robertson, ed. Elsevier, Chapter 55.
25. Athonvarangkul, D and **Wysolmerski, JJ.** Parathyroid Hormone-Related Protein In Primer on the Metabolic Bone Diseases and Disorders of Mineral Metabolism, Tenth Edition. Bilezikian J editor, Wolters Kluwer, **in press.**