

CURRICULUM VITAE

**Masayoshi Yamaguchi, Ph.D.,
IOM, FAOE, DDG, DG**



Date of Birth: June 15, 1947, Japan

Present Position: Adjunct Professor (Adjunct Researcher)
Cancer Biology Program,
University of Hawai'i Cancer Center,
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Permanent residence (A210091783) was permitted by Department of Homeland Security, U.S. Citizenship and Immigration, the United States of America (October 24, 2011)

Education:

April 1, 1967 Shizuoka College of Pharmacy
B.S. Pharmaceutical Sciences (~March 31, 1971)
April 1, 1971 Shizuoka College of Pharmacy
Graduate School of Pharmaceutical Sciences
M.S. Pharmaceutical Sciences (~March 31, 1973)
April 1, 1973 Shizuoka College of Pharmacy
Graduate School of Pharmaceutical Sciences
Ph.D. Pharmaceutical Sciences (~September 28, 1976)

National Qualification: Pharmacist (Japan, Registered No. 354325, April, 1971;
~ present)

Clinical Inspector (Japan, Registered No. 141855, September, 1971; ~ present)

Principal Positions Held:

- April 1, 1973 Research Associate, Shizuoka College of Pharmacy,
Department of Biochemical Toxicology, Shizuoka, Japan
(~ March 31, 1986)
- July 1, 1981 Visiting Lecturer, University of Pennsylvania, School of
Medicine, Department of Biochemistry, Philadelphia, PA, USA
(~September 30, 1981)
- July 1, 1985 Visiting Assistant Professor, Texas Tech University,
School of Medicine, Department of Pharmacology, Lubbock, TX, USA
(~December 30, 1985)
- April 1, 1986 Assistant Professor, Shizuoka College of Pharmacy,
Department of Biochemical Toxicology, Shizuoka, Japan
(~March 31, 1987)
- April 1, 1987 Assistant Professor, University of Shizuoka,
School of Pharmaceutical Sciences,
Department of Biochemistry and Toxicology, Shizuoka, Japan
(~March 31, 1991)
- August 1, 1988 Visiting Assistant Professor, The University of Texas,
Medical School at Houston, Department of Physiology and Cell
Biology, Huston, TX, USA (~October 30, 1988)
- April 1, 1991 Associate Professor, University of Shizuoka,
Graduate School of Nutritional Sciences,
Laboratory of Endocrinology and Molecular Metabolism, Shizuoka, Japan
(~May 31, 1993)
- June 1, 1993 Professor, University of Shizuoka,
Graduate School of Nutritional Sciences,
Laboratory of Endocrinology and Molecular Metabolism, Shizuoka, Japan
(~ August 31, 2007)
- November 1, 2007 Visiting Professor, Emory University School of Medicine,
Department of Medicine, Division of Endocrinology
and Metabolism and Lipids, Atlanta, GA, USA
(~ October 31, 2011)
- November 1, 2011 Visiting Professor, The University of Georgia, College of

Family and Consumer Sciences, Department of Foods and Nutrition, Athens, GA, USA (~ August 31, 2012)

April 15, 2012 Visiting Professor, The University of Missouri-Columbia, College of Veterinary Medicine, Department of Veterinary Pathobiology, Columbia, MO, USA (~ October 31, 2012)

September 1, 2012 Visiting Professor, Baylor College of Medicine, Department of Medicine, Division of Diabetes, Endocrinology and Metabolism, Houston, TX, USA (~ April 30, 2013)

May 15, 2013 Adjunct Professor, Emory University School of Medicine, Department of Hematology and Medical Oncology, Atlanta, GA, USA (~ August 29, 2016)

January 30, 2017 Cancer Biology Program, University of Hawai'i Cancer Center Honolulu, USA (~ present)

Additional Positions Held:

June, 2004 Deputy Director General, The International Biographical Centre (Cambridge, England) (~ present)

April, 2004 Lifetime Deputy Governor, The American Biographical Institute Research Association (Raleigh, USA) (~ present)

September 1, 2016 Founder and Chief, Regucalcin Biomedical Institute (Shizuoka, Japan) (~ present)

Editorial Board Members (International Journals):

1. January, 2001 Editorial Academy Member in *International Journal of Molecular Medicine* (~ present)
2. January, 2009 Editorial Board Member in *Molecular Medicine Reports* (~ present)
3. July, 2010 Editorial Board Member in the *Molecular and Cellular Biochemistry* (~ November 30, 2013)
4. October, 2010 Editorial Board Member in *Experimental and Therapeutic Medicine* (~ present)
5. May, 2010 Editor in *Biotechnology Research International* (~ present)
6. March, 2011 Editorial Board Member in *Stem Cell Discovery* (~ present)

7. April, 2012 Editorial Board Member in *Biomedical Reports* (~ present)
8. October, 2012 Editorial Board Member in *International Journal of Food Science, Nutrition and Dietetics* (~ present)
9. December, 2012 Editor-in-Chief in *Hormonal Studies* (~ present)
10. February, 2013 Academic Editor in *British Journal of Pharmaceutical Research* (~ present)
11. November, 2013 Editorial Board Member in *Journal of Clinical & Experimental Oncology* (~ present)
12. July, 2013 Editorial Board Member in Editorial Board Member in *JSM Cell & Developmental Biology* (~ present)
13. October, 2013 Editor-in-Chief in *Edorium Journal of Nutrition and Dietetic* (~ present)
14. October, 2013 Editorial Board Member in *Cancer Science & Research: Open Access* (~ present)
15. November, 2013 Editorial Board Member in *Journal of Clinical & Experimental Oncology* (~ present)
16. January, 2014 Editorial Board Member in *World Journal of Biological Chemistry* (~ present)
17. April, 2014 Editorial Board Member in *Austin Journal of Medical Oncology* (~ present)
18. April, 2014 Editorial Board Member in *Journal of Cancer Prevention & Current Research* (~ present)
19. May, 2014 Editorial Board Member in *Journal of Diabetes, Metabolic Disorders & Control* (~ present)
20. May, 2014 Editorial Board Member in *International Journal of Medical Biotechnology & Genetics* (~ present)
21. June, 2014 Editorial Board Member in *Journal of Endocrine Disorders* (~ present)
22. September, 2014 Editorial Board Member in *Journal of International Research in Medical and Pharmaceutical Sciences* (~ present)
23. October, 2014 Editorial Board Member in *Austin Journal of Clinical Medicine* (~ present)
24. October, 2014 Editorial Board Member in *Hepatoma Research* (~ present)
25. November, 2014 Editorial Board Member in *Journal of Obesity and Overweight* (~ present)
26. November, 2014 Editorial Board Member in *Journal of Clinical and*

- Experimental Genetics* (~ present)
27. December, 2014 Editorial Board Member in *International Journal of Cardiology and Research* (~ present)
 28. January, 2014 Editorial Board Member in *World Journal of Biological Chemistry* (~ present)
 29. May, 2014 Editorial Board Member in *International Journal of Medical Biotechnology & Genetics* (~ present)
 30. October, 2014 Editorial Board Member in *Hepatoma Research* (~ present)
 31. January, 2015 Editorial Board Member in *International Archives of Urology and Complications* (~ present)
 32. January, 2015 Editorial Board Member in *HSOA Journal of Orthopedic Research & Physiotherapy* (~ present)
 33. January, 2015 Editorial Board Member in *Clinical Medical Reviews and Case Reports* (~ present)
 34. February, 2015 Editorial Board Member in *SM Journal of Food and Nutritional Disorders* (~ present)
 35. February, 2015 Editorial Board Member in *International Archives of Clinical Pharmacology* (~ present)
 36. February, 2015 Editorial Board Member in *International Journal of Endocrinology and Metabolic Disorder* (~ present)
 37. April, 2015 Academic Editor in *British Journal of Medicine and Medical Research* (~ present)
 38. August, 2015 Editorial Academy Member in *International Journal of Oncology* (~ present)

Membership in Professional Organizations:

- April, 1971 Japan Society for Pharmaceutical Sciences (~ December, 2011)
- April, 1973 Japan Society for Biochemistry, Councilor (~ December, 2011)
- April, 1977 Endocrine Society for Japan, Councilor (~ March, 2010)
- January, 1984 International Society of Bone and Mineral
(~ December, 2007)
- April, 1987 Japan Society for Pharmacology, Councilor
(~ December, 2007)
- April, 1988 Japan Society for Bone and Mineral Metabolism,

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| | Councilor (~ March, 2010) |
| April, 1990 | Japan Society for Biomedical Research on Trace Elements, Councilor (~ March, 2011) |
| June, 1995 | Japan Society for Hepatocyte Research, Councilor (~June, 2006) |
| January, 1996 | New York Academy of Sciences (~ December, 2012) |
| January, 1997 | European Society of Calcium (~December, 2004) |
| April, 1999 | Japan Society for Osteoporosis, Councilor (~ December, 2008) |
| January, 2001 | American Society for Cell Biology (~ December, 2007) |
| January, 1999 | American Society for Bone and Mineral Research (~ December, 2016) |
| January, 2005 | American Society for Biochemistry and Molecular Biology (~ present) |

Awards and Honors:

1. July, 1981 「Award for Academy Encouragement in Tokai Branch of Pharmaceutical Society of Japan」
2. October, 1987 「Bounty of Takeda Science Promotion Foundation」 (Japan)
3. March, 1992 「Prize for Sato Memorial Foundation」 (Japan)
4. May, 1992 「Saito Prize of Chion Party」 (Japan)
5. March, 1994 「Bounty of Encouragement Foundation in Pharmaceutical Research」 (Japan)
6. October, 1999 「Award of Mishima Kaiun Memorial Foundation」 (Japan)
7. October, 2004 「Bounty of the Yamanouchi Foundation for Research on Metabolic Disorders」 (Japan)
8. September, 2004 「The International Order of Merit」 (The International Biographical Centre of Cambridge, England)
9. May, 2005 「Lifetime Achievement Award」 (The World Congress of Arts, Sciences and Communications (Cambridge, England))
10. September, 2005 「The Founder of American Order of Excellence」 (The American Biographical Institute, Inc., Raleigh, USA)
11. March, 2006 「Senji Miyata Foundation Award 2005」 (Japan)
12. July, 2007 「Award of the Japan Society for Biomedical Research on Trace Elements 2007」 (Japan)

13. March 7, 2016 「It's The Journey Award」 (It's The Journey Inc., Atlanta, USA)

Registered patents:

1. *Osteogenesis promoter*

United State Patent. Patent Number: 5294634

Registered: March 15, 1994

Inventor: Masayoshi Yamaguchi (Japan)

Assignee: Zeria Pharmaceutical Co., Ltd. (Japan)
Hamari Chemicals Co., Ltd. (Japan)

2. *Osteogenesis promoter*

European Patent. Patent Number: 0495106

Registered: December 6, 1995

Inventor: Masayoshi Yamaguchi (Japan)

Assignee: Zeria Pharmaceutical Co., Ltd. (Japan)
Hamari Chemicals Co., Ltd. (Japan)

3. *Osteogenesis promoter*

Korean Patent. Patent Number: 147855

Registered: May 20, 1998

Inventor: Masayoshi Yamaguchi (Japan)

Assignee: Zeria Pharmaceutical Co., Ltd. (Japan)
Hamari Chemicals Co., Ltd. (Japan)

4. *Osteogenesis promoter*

Japan Patent. Patent Number: 2811331

Registered: August 7, 1998

Inventor: Masayoshi Yamaguchi (Japan)

Assignee: Zeria Pharmaceutical Co., Ltd. (Japan)
Hamari Chemicals Co., Ltd. (Japan)

5. *Osteogenesis promoter.*

Canadian Patent. Patent Number: 2,067,374 (July 4, 2000).

Inventor: Masayoshi Yamaguchi

Assignee: Zeria Pharmaceutical Co., Ltd. (Japan)

Hamari Chemicals Co., Ltd. (Japan)

6. *Composition for stimulating bone mass and preventing osteoporosis.*
Japan Patent. Patent Number: 3,005,794
Registered: November 2, 1999
Inventor: Masayoshi Yamaguchi (Japan)
Assignee: Masayoshi Yamaguchi (Japan)

7. *Composition for stimulating osteogenesis and preventing reduction of bone salt.*
United States Patent. Patent Number: 5,935,996
Registered: August 10, 1999
Inventor: Masayoshi Yamaguchi (Japan)
Assignee: Masayoshi Yamaguchi (Japan)

8. *Composition for preventing osteoporosis*
Japan Patent. Patent Number: 3,459,932
Registered: August 15, 1999
Inventor: Masayoshi Yamaguchi (Japan)
Assignee: Honen Corporation Co. Ltd. (Japan)

9. *Osteogenesis promoter.*
Canadian Patent. Patent Number: 2,067,374
Registered: July 4, 2000
Inventor: Masayoshi Yamaguchi (Japan)
Assignee: Zeria Pharmaceutical Co., Ltd. (Japan)
Hamari Chemicals Co., Ltd. (Japan)

10. *Bone-strengthening agents, food compositions for strengthening bone and feed compositions for strengthening.*
United States Patent. Patent Number: US6,806,252 B2
Registered: October 19, 2004
Inventor: Masayoshi Yamaguchi (Japan)
Assignee: Meiji Seika Kaisha, Ltd. (Japan)

11. *Composition for preventing osteoporosis.*
Japan Patent. Patent Number: 3,749,978
Registered: December 16, 2005

Inventor: Masayoshi Yamaguchi (Japan)
Assignee: Masayoshi Yamaguchi (Japan)

12. *Model animal with overexpression of regucalcin*
Korean Patent. Patent Number: 0611804
Registered: August 4, 2006
Inventor: Masayoshi Yamaguchi (Japan)
Assignee: Japan Science and Technology Agency
13. *Osteogenesis promotor containing β -cryptoxanthin as the Active Ingredient*
Japan Patent. Patent Number: 3,892,014
Registered: December 16, 2006
Inventor: Masayoshi Yamaguchi (Japan)
Assignee: Ehime Beverage Co. Ltd. (Japan)
14. *Soybean foods for stimulating osteogenesis and preventing reduction of bone salt.*
Japan Patent. Patent Number: 3,923,052
Registered: March 2, 2007
Inventor: Masayoshi Yamaguchi (Japan)
Assignee: Taishi Food Co. Ltd. (Japan)
15. *Model animal with overexpression of regucalcin*
Japan Patent. Patent Number: 3,949,520
Registered: April 27, 2007
Inventor: Masayoshi Yamaguchi (Japan)
Assignee: Japan Science and Technology Agency (Japan)
16. *Drug for treating bone disorder*
Japan Patent. Patent Number: 3,974,213
Registered: June 22, 2007
Inventor: Masayoshi Yamaguchi (Japan)
Assignee: Nipro Co. Ltd. (Japan)
17. *Functional foods for preventing and treatment diabetic osteoporosis and diabetes*
Japan Patent. Patent Number: 4,023,680

Registered: June 4, 2007
Inventor: Masayoshi Yamaguchi (Japan)
Assignee: Masayoshi Yamaguchi(Japan)

18. *Model animal with overexpression of regucalcin*
United States Patent. Patent Number: 7,355,093 B2
Registered: April 8, 2008
Inventor: Masayoshi Yamaguchi (Japan)
Assignee: Japan Science and Technology Agency (Japan)

19. *Model animal with hyperlipidemia and hyperalbuminia*
Korean Patent. Patent Number: 10-2006-7008816
Registered: June 16, 2008
Inventor: Masayoshi Yamaguchi (Japan)
Assignee: Japan Science and Technology Agency (Japan)

20. *Rat model with overexpression of regucalcin*
European Patent. Patent Number 1437043
(England, France, Deutch, Switherland, Italy, Netherland).
Registered: January 5, 2011
Inventor: Masayoshi Yamaguchi (Japan)
Assignee: Japan Science and Technology Agency (Japan)

21. *Osteogenesis promotor containing β -cryptoxanthin as the active ingrediant*
USA Patent. Patent Number US8148431B2
Registered: April 3, 2012
Inventor: Masayoshi Yamaguchi (Japan)
Assignee: Kemin Foods, L.C.

22. *Methods for Treating Inflammatory Conditions and States, and Cancers by Antagonizing NF-kb Activation*
USA Patent Number US 9301945
Registered: April 5, 2016, Expire: October 5, 2032
Inventor: M. Neale Weitzmann, **Masayoshi Yamaguchi**:
Assignee: Emory University: Office of Technology Transfer

23. *NF- κ B Inhibitor*.
Japan Patent. Patent Number:
Registered: May 30, 2016
Inventor: Masayoshi Yamaguchi (Japan)
Assignee: Maruhachi Muramatsu, Inc. (Japan)

Listed in International Biographical Books

1. 「Who'sWho in Science and Engineering」 (Marquis Who'sWho 21st Century Editions, New Providence, USA)
(2003-2004, 7th Edition, 8th Edition 2005-2006, 9th Edition 2007-2008, 10th Edition 2008-2009, 10th Edition 2009-2010, 11th Edition 2011-2012~)
2. 「Who'sWho in the World」 (Marquis Who'sWho 21st Century Editions, New Providence,USA) (2005, 22nd Edition, 2006, 23rd Edition, 2007, 24nd Edition, 2008, 25nd Edition, 26nd Edition 2009, 27nd Edition 2010, 28nd Edition 2011~)
3. 「Who'sWho in America」 (Marquis Who'sWho 21st Century Editions, New Providence,USA) (63rd Edition 2009~)
4. 「Who'sWho in Asia」 (Marquis Who'sWho 21st Century Editions, New Providence,USA) (2007, 1th Edition; 2012, 2nd Edition ~)
5. 「The Definitive Book of Deputy Director Generals」 (The International Biographical Centre, Cambridge, England) (2005)
6. 「The Cambridge Blue Book」 (The International Biographical Centre, Cambridge, England) (2005/2006)
7. 「Dictionary of International Biography」 (The International Biographical Centre, Cambridge, England) (2007, 2008, 2009, 2010 ~)
8. 「2000 Outstanding Intellectuals of the 21st Century」 (The International

Biographical Centre of Cambridge, England) (2007 Fourth Edition, 2008 Fifth Edition ~)

9. 「2000 Outstanding Scientists」 (The International Biographical Centre of Cambridge, England) (2008/2009 Edition)
10. 「Great Lives of the 21st Century」 (The International Biographical Centre of Cambridge, England) (2007 First Edition ~)
11. 「Great Minds of the 21st Century」 (The American Biographical Institute, Inc., Raleigh, USA) (2005 Edition, 2006/2007 Edition, 2008/2009 Edition, 2010/2011 Fith Edition ~)
12. 「500 Greatest Geniuses of the 21st Century」 (The American Biographical Institute, Inc., Raleigh, USA) (2006, Edition)

Publications

Original Papers (Peer-reviewed)

1. Masayoshi Yamaguchi, Takeo Yamamoto:
Effect of thyrocalcitonin and actinomycin D on the calcium concentration of serum and liver in rats treated with lead.
Toxicology and Applied Pharmacology, 29: 223-228 (1974).
2. Takeo Yamamoto, Masayoshi Yamaguchi, Yasunobu Suketa:
Calcium accumulation in liver and calcium mobilization in bone of lead-poisoned rats.
Toxicology and Applied Pharmacology, 27: 204-205 (1974).
3. Masayoshi Yamaguchi, Hideji Sato, Takeo Yamamoto:
The increase of acid hydrolases activity in bone tissue of rats treated with lead acetate.
Chemical & Pharmaceutical Bulletin, 23: 1789-1792 (1975).
4. Masayoshi Yamaguchi, Takeo Yamamoto:

- Effect of thyroparathyroidectomy and tryrocalcitonin on the bone acid phosphatase activity and the serum calcium concentration in rats treated with lead acetate.
Chemical & Pharmaceutial Bulletin, 23: 1882-1884 (1975).
5. Masayoshi Yamaguchi, Yuko Takei, Takeo Yamamoto:
Effect of tryrocalcitonin on calcium concentration in liver of intact and tryroparathyroidectomized rats.
Endocrinology, 96: 1004-1008 (1975).
 6. Masayoshi Yamaguchi, Takeo Yamamoto:
Binding of calcium by soluble fraction from normal rat liver.
Chemical & Pharmaceutial Bulletin, 23: 2418-2421 (1975).
 7. Masayoshi Yamaguchi, Hideji Sato, Takeo Yamamoto:
Decrease of calcium concentration in urine of rats treated with stannous chloride.
Chemical & Pharmaceutial Bulletin, 24: 2199-3201 (1976).
 8. Takeo Yamamoto, Masayoshi Yamaguchi, Hideji Sato:
Accumulation of calcium in kidney and decrease of calcium in serum of rats treated with tin chloride.
Journal of Toxicology and Environmental Health, 1: 749-756 (1976).
 9. Masayoshi Yamaguchi, Mayumi Naganawa, Takeo Yamamoto:
Decreased gastric secretion in rats treated with stannous chloride.
Toxicology and Applied Pharmacology, 36: 199-200 (1976).
 10. Masayoshi Yamaguchi, Takeo Yamamoto:
Effect of tryrocalcitonin on calcium efflux in liver slices of rats.
Chemical & Pharmaceutial Bulletin, 24: 159-161 (1976).
 11. Masayoshi Yamaguchi, Hideji Sato, Takeo Yamamoto:
Increase in calcium binding activity in renal cortex of rats treated with stannous chloride.
Journal of Toxicology and Environmental Health, 3: 413-420 (1977).
 12. Hideji Sato, Masayoshi Yamaguchi, Takeo Yamamoto:
Effect of theophylline and imidazole on calcium accumulation in renal cortex

- of rats treated with stannous chloride.
Chemical & Pharmaceutical Bulletin, 25: 2131-2133 (1977).
13. Masayoshi Yamaguchi, Takeo Yamamoto:
Effect of insulin on serum calcium concentration in rats.
Chemical & Pharmaceutical Bulletin, 25: 2767-2769 (1977).
 14. Masayoshi Yamaguchi, Takeo Yamamoto:
Effect of calcitonin on serum glucose concentration in rats.
Chemical & Pharmaceutical Bulletin, 25: 2189-2194 (1977).
 15. Masayoshi Yamaguchi, Takeo Yamamoto:
Effect of insulin and calcitonin on the levels of serum calcium and glucose in rats.
Chemical & Pharmaceutical Bulletin, 25: 2785-2787 (1977).
 16. Masayoshi Yamaguchi, Takeo Yamamoto:
Effect of tin on calcium content in the bile of rats.
Toxicology and Applied Pharmacology, 45: 611-616 (1978).
 17. Masayoshi Yamaguchi, Hideji Sato, Takeo Yamamoto:
Effect of vitamin D₃ derivatives on calcium concentration in the serum of rats treated with stannous chloride.
Toxicology Letters, 1: 183-186 (1978).
 18. Masayoshi Yamaguchi, Tetuya Endo, Takeo Yamamoto:
Action of tin on the secretory effect of agents which stimulate gastric acid secretion in rats.
Toxicology and Applied Pharmacology, 43: 417-423 (1978).
 19. Masayoshi Yamaguchi, Hironori Suzuki, Takeo Yamamoto:
Suppression of insulin secretion by oral administration of stannous chloride.
Toxicology Letters, 2: 111-113 (1978).
 20. Masayoshi Yamaguchi, Hironori Suzuki, Takeo Yamamoto:
Decrease of phosphorylase activity in the liver of rats orally administered stannous chloride.
Toxicology Letters, 2: 171-174 (1978).
 21. Masayoshi Yamaguchi, Takeo Yamamoto:

A remarkable elevation of serum calcium concentration induced by ligation of bile duct.

Chemical & Pharmaceutical Bulletin, 26:2568-2571(1978).

22. Masayoshi Yamaguchi, Takeo Yamamoto:
Stimulatory effect of calcitonin of calcium excretion into bile of thyroparathyroidectomized rats.

Chemical & Pharmaceutical Bulletin, 26:1981-1984 (1978).

23. Masayoshi Yamaguchi:
Effect of calcitonin on calcium concentration in serum and liver of rats ligated bile duct.

Endocrinologia Japonica, 25:533-537 (1978).

24. Masayoshi Yamaguchi, Takeo Yamamoto:
Purification of calcium binding substance from soluble fraction of normal rat liver.

Chemical & Pharmaceutical Bulletin, 26:1915-1918 (1978).

25. Masayoshi Yamaguchi:
Changes of calcium content and plasma membrane Ca-ATPase activity in renal cortex of rats treated with stannous chloride.

Toxicology Letters, 4:45-48 (1979).

26. Masayoshi Yamaguchi, Yoshimi Kubo, Takeo Yamamoto:
Inhibitory effect of tin on intestinal calcium absorption in rats.

Toxicology and Applied Pharmacology, 47:441-444 (1979).

27. Masayoshi Yamaguchi, Mituko Kitade, Shoji Okada:
Decrease in calcium content in the femur of rats orally administered stannous chloride.

Toxicology Letters, 3:7-10 (1979).

28. Masayoshi Yamaguchi, Shoji Okada:
Changes of acid phosphatase and alkaline phosphatase activities in the femur of rats dosed orally with stannous chloride.

Toxicology Letters, 4:39-43 (1979).

29. Masayoshi Yamaguchi, Takeo Yamamoto:

- Effect of various calcitonin on calcium concentrations in the bile and serum of thyroparathyroidectomized rats.
Chemical & Pharmaceutical Bulletin, 27:1671-1674 (1979).
30. Masayoshi Yamaguchi ,Takeo Yamamoto, Akira Hasegawa:
Physiological significance of calcium excretion into the bile of rats.
Chemical & Pharmaceutical Bulletin, 27:3137-3139 (1979).
31. Masayoshi Yamaguchi:
Effects of calcitonin and other hormones on bile calcium excretion in thyroparathyroidectomized rats.
Endocrinologia Japonica, 26:111-115 (1979).
32. Masayoshi Yamaguchi:
Effect of calcitonin on Ca-ATPase activity of plasma membrane in liver of rats.
Endocrinologia Japonica, 26:605-609 (1979).
33. Masayoshi Yamaguchi:
Effect of parathyroid hormone on the increase in serum glucose and insulin levels after a glucose load to thyroparathyroidectomized rats.
Endocrinologia Japonica, 26:353-358 (1979).
34. Masayoshi Yamaguchi:
Change of calcium content on organs of rats administered stannous chloride orally.
Japanese Journal of Hygiene, 34:719-722 (1980).
35. Masayoshi Yamaguchi, Shoji Okada:
Effect of stannous chloride on rat femur.
Toxicology Letters, 6:177-180 (1980).
36. Masayoshi Yamaguchi, Mitsuko Kitade, Shoji Okada.
The oral administration of stannous chloride to rats.
Toxicology Letters, 5:275-278 (1980).
37. Masayoshi Yamaguchi, Rieko Saito, Shoji Okada:
Dose-effect of inorganic tin on biochemical indices in rats.
Toxicology, 16:267-273 (1980).
38. Masayoshi Yamaguchi, Toshiharu Yoshino, Shoji Okada:

- Effect of zinc on the acidity of gastric secretion in rats.
Toxicology and Applied Pharmacology, 54:526-530 (1980).
39. Masayoshi Yamaguchi, Masatugu Kura, Shoji Okada:
Zinc metabolism in the liver of rats orally administered zinc sulfate.
Chemical & Pharmaceutical Bulletin, 28 : 3595-3600 (1980).
40. Masayoshi Yamaguchi:
Comparison of calcitonin, epinephrine and glucagon effects on plasma membrane Ca-ATPase activity and calcium content in liver of rats.
Endocrinologia Japonica, 27:273-276 (1980).
41. Masayoshi Yamaguchi:
Regulatory effect of endogenous calcitonin on calcium metabolism in hepatic bile system of rats.
Endocrinologia Japonica, 27:381-385 (1980).
42. Masayoshi Yamaguchi, Kuniyoshi Sugii:
Movement of subcellular calcium in bile pool of hepatocyte in rats : Effect of thyroparathyroidectomy.
Endocrinologia Japonica, 27:613-385 (1980).
43. Masayoshi Yamaguchi:
Effects of calcitonin and epinephrine on serum glucose concentration in rats.
Chemical & Pharmaceutical Bulletin, 28:3693-3695 (1980).
44. Masayoshi Yamaguchi, Kuniyoshi Sugii, Shoji Okada:
Inorganic tin in the diet affects the femur in rats.
Toxicology Letters, 9:207-209 (1981).
45. Masayoshi Yamaguchi, Kuniyoshi Sugii, Shoji Okada:
Changes of mineral composition and its related enzyme activity in the femur of rats orally administered stannous chloride.
Journal of Pharmacobio-Dynamics, 4:874-878 (1981).
46. Masayoshi Yamaguchi, Masatsugu Kura, Shoji Okada:
Zinc accumulation and succinate dehydrogenase activation in hepatic mitochondria of rats orally administered zinc sulfate.
Chemical & Pharmaceutical Bulletin, 29:2370-2374 (1981).

47. Masayoshi Yamaguchi, Kumiko Katayama, Shoji Okada:
Hypocalcemic effect of zinc and its mechanism in rats.
Journal of Pharmacobio-Dynamics, 4:656-663 (1981).
48. Masayoshi Yamaguchi, Yoshizo Akiyama, Shoji Okada:
Interaction of calcitonin and histamine on bile calcium excretion in
thyroparathyroidectomized rats.
Journal of Pharmacobio-Dynamics, 4:418-422 (1981).
49. Masayoshi Yamaguchi, Masahiko Koumura, Shoji Okada:
Movement of subcellular calcium in the liver of bile duct-ligated rats.
Chemical & Pharmaceutical Bulletin, 29:2702-2705 (1981).
50. Masayoshi Yamaguchi, Takeo Yamamoto:
Dietary and thyroparathyroidal regulation of calcium excretion into the bile of
rats.
Chemical & Pharmaceutical Bulletin, 29:1172-1175 (1981).
51. Masayoshi Yamaguchi, Kuniyoshi Sugii:
Properties of calcium-binding protein isolated from the soluble fraction of
normal rat liver.
Chemical & Pharmaceutical Bulletin, 29:567-570 (1981).
52. Masayoshi Yamaguchi:
Calcitonin increases serum glucose concentration independently of insulin
secretion in rats.
Chemical & Pharmaceutical Bulletin, 29:1455-1458 (1981).
53. Masayoshi Yamaguchi:
Calcitonin stimulates gluconeogenesis in fasted rats.
Endocrinologia Japonica, 28:51-57 (1981).
54. Masayoshi Yamaguchi, Masatsugu Kura:
Calcitonin increases pyruvate carboxylase activity in hepatic mitochondria of
rats.
Endocrinologia Japonica, 28:709-714 (1981).
55. Masayoshi Yamaguchi:
Calcitonin stimulates glycogenolysis in the liver of fasted rats.

- Endocrinologia Japonica*, 28:643-646 (1981).
56. Masayoshi Yamaguchi, Kuniyoshi Sugii, Shoji Okada:
Tin decreases femoral calcium independently of calcium homeostasis in rats.
Toxicology Letters, 10:7-10 (1982).
57. Masayoshi Yamaguchi, Masatsugu Kura, Shoji Okada:
Role of zinc as an activator of mitochondrial function in rat liver.
Biochemical Pharmacology, 31:1289-1293 (1982).
58. Masayoshi Yamaguchi, Yoshizo Akiyama, Shoji Okada:
Stimulative effects of cortisol and testosterone on bile calcium excretion in thyroparathyroidectomized rats.
Journal of Pharmacobio-Dynamics, 5:328-333 (1982).
59. Masayoshi Yamaguchi, Kuniyoshi Sugii, Shoji Okada:
Inhibition of collagen synthesis in the femur of rats orally administered stannous chloride.
Journal of Pharmacobio-Dynamics, 5:383-393 (1982).
60. Masayoshi Yamaguchi, Atsuyo Mochizuki, Shoji Okada:
Stimulation of bone resorption by comparatively high dose of zinc in rats.
Journal of Pharmacobio-Dynamics, 5:501-504 (1982).
61. Masayoshi Yamaguchi, Atsuyo Mochizuki, Shoji Okada:
Stimulatory effect of zinc on bone growth in weanling rats.
Journal of Pharmacobio-Dynamics, 5:619-626 (1982).
62. Masayoshi Yamaguchi, Kumiko Katayama:
Synthetic [Asu1,7] eel calcitonin increases phosphorus content in the hepatic bile of intact and nephrectomized rats.
Endocrinologia Japonica, 29:401-406 (1982).
63. Masayoshi Yamaguchi, Kaoru Momose:
Calcitonin increases calcium content and phosphorylase a activity in the hepatic particulate glycogen of rats.
Endocrinologia Japonica, 29:553-559 (1982).
64. Masayoshi Yamaguchi, Kouzi Takahashi, Shoji Okada:
Zinc-induced hypocalcemia and bone resorption in rats.

- Toxicology and Applied Pharmacology*, 67:224-228 (1983).
65. Masayoshi Yamaguchi:
Atropine inhibits bone resorption induced by high dose of zinc in rats.
Toxicology Letters, 17:259-261 (1983).
66. Masayoshi Yamaguchi, Kaoru Momose:
Calcitonin increases calcium content and glucose-6-phosphatase activity in hepatic microsomes of rats.
Acta Endocrinologia, 102:572-576 (1983).
67. Masayoshi Yamaguchi, John R. Williamson:
Stimulatory effect of calcitonin on calcium uptake and glucose production in isolated rat hepatocytes.
Hormone and Metabolic Research, 15:176-180 (1983).
68. Masayoshi Yamaguchi:
Synthetic [Asu1,7] eel calcitonin increases phosphorus content in the hepatic mitochondria of rats.
Acta Endocrinologia, 104:352-356 (1983).
69. Masayoshi Yamaguchi, Kaoru Momose:
Calmodulin dependency of calcitonin action on glucose-6-phosphatase and phosphorylase a activities in the liver of rats.
Acta Endocrinologia, 104:490-494 (1983).
70. Masayoshi Yamaguchi, Kouzi Takahashi:
Calcitonin inhibits the increase in bone acid phosphatase activity by high dose of zinc in rats.
Toxicology Letters, 19:155-158 (1983).
71. Masayoshi Yamaguchi, Kouzi Takahashi:
Decrease in insulin secretion related to hypocalcemia induced by a high dose of zinc in rats.
Toxicology Letters, 22:175-180 (1984).
72. Masayoshi Yamaguchi, Kouzi Takahashi:
Role of zinc as an activator of bone metabolism in weanling rats.
Journal of Bone and Mineral Metabolism, 2:186-191 (1984).

73. Masayoshi Yamaguchi, Michiyo Ito:
Specific binding of calcitonin to rat liver plasma membranes.
Endocrinologia Japonica, 31:327-333 (1984).
74. Masayoshi Yamaguchi, Kaoru Momose:
Calcitonin increases alanine aminotransferase activity related to calcium in the hepatic mitochondria of rats.
Hormone and Metabolic Research, 16:478-182 (1984).
75. Masayoshi Yamaguchi, Kaoru Momose:
Effect of calcitonin on fructose 1, 6-diphosphatase activity in rat liver : Role of cytosolic calcium concentration.
Hormone and Metabolic Research, 16:650-653 (1984).
76. Masayoshi Yamaguchi, Kaoru Momose, Kouzi Takahashi:
Stimulatory effect of calcitonin on fatty acid synthesis in the liver of fed rats.
Hormone and Metabolic Research, 17:346-350 (1985).
77. Masayoshi Yamaguchi, Michoyo Ito:
Regulation of (Ca²⁺-Mg²⁺)-ATPase activity by calcitonin binding to rat liver plasma membranes.
Acta Endocrinologia, 110:124-129 (1985).
78. Masayoshi Yamaguchi, Hiroyuki Yoshida:
Participation of Ca²⁺ channel in liver calcium regulation by calcitonin in rats.
Acta Endocrinologia, 110:239-243 (1985).
79. Masayoshi Yamaguchi:
Mitochondrial uptake of ⁴⁵Ca²⁺ bound to calcium-binding protein isolated from rat liver cytosol.
Chemical & Pharmaceutical Bulletin, 33:3390-3394 (1985).
80. Masayoshi Yamaguchi, Hiroyuki Yoshida:
Regulatory effect of calcium-binding protein isolated from rat liver cytosol on activation of fructose 1, 6-diphosphatase by Ca²⁺-calmodulin.
Chemical & Pharmaceutical Bulletin, 33:4489-4493 (1985).
81. Masayoshi Yamaguchi, Teruyuki Sakashita:
Enhancement of vitamin D₃ effect on bone metabolism in weanling rats orally

- administered zinc sulfate.
Acta Endocrinologia, 111:285-288 (1986).
82. Masayoshi Yamaguchi, Rie Yamaguchi:
Action of zinc on bone metabolism in rats: Increases in alkaline phosphatase activity and DNA content.
Biochemical Pharmacology, 35:773-777 (1986).
83. Masayoshi Yamaguchi, Kiyomi Inamoto:
Differential effects of calcium-regulating hormones on bone metabolism in weanling rats orally administered zinc sulfate.
Metabolism, 35:1044-1047 (1986).
84. Masayoshi Yamaguchi, Kiyomi Inamoto, Yasunobu Suketa:
Effect of essential trace metals on bone metabolism in weanling rats: Comparison with zinc and other metals' actions.
Research in Experimental Medicine, 186:337-342 (1986).
85. Masayoshi Yamaguchi, Kaoru Momose:
Calcitonin action on ATP citrate lyase activity in the hepatic cytosol of fed rats and its calcium-calmodulin dependency.
Hormone and Metabolic Research, 18:22-25 (1986).
86. Masayoshi Yamaguchi, Mayumi Toyozumi:
Calcitonin increases fatty acid synthetase activity dependently of calcium-calmodulin in the hepatic cytosol of fed rats.
Hormone and Metabolic Research, 18:378-381 (1986).
87. Masayoshi Yamaguchi, Noriaki Shimada, Kiyotaka Kobayashi:
Pharmacokinetic study and whole body autoradiography of radioiodinated human calcitonin in rats.
Experimental and Clinical Endocrinology, 5:87-91 (1986).
88. Masayoshi Yamaguchi, Hidetoshi Oishi, Yasunobu Suketa:
Stimulatory effect of zinc on bone formation in tissue culture.
Biochemical Pharmacology, 36:4007-4012 (1987).
89. Masayoshi Yamaguchi, Mitsuru Uchiyama:
Preventive effect of zinc for toxic actions of germanium and selenium on bone

metabolism in weanling rats.

Research in Experimental Medicine, 187:395-400 (1987).

90. Masayoshi Yamaguchi, Naomi Ogawa:
Calcitonin stimulates adenosine 5'-triphosphate synthesis calcium-dependently in the hepatic mitochondria of rats.
Chemical & Pharmaceutical Bulletin, 35:4215-4220 (1987).
91. Masayoshi Yamaguchi, Masaji Imase:
Calcitonin increases succinate dehydrogenase activity calcium-dependently in the hepatic mitochondria of rats.
Chemical & Pharmaceutical Bulletin, 35:4235-4240 (1987).
92. Masayoshi Yamaguchi, Mayumi Toyozumi:
Calcitonin and hepatic fatty acid synthesis: Effect of thyroparathyroidectomy on the elevation of ATP citrate lyase activity by refeeding of starved rats.
Hormone and Metabolic Research, 19:152-155 (1987).
93. Masayoshi Yamaguchi, Hirosuke Shibano:
Calcium-binding protein isolated from rat liver cytosol reverses activation of pyruvate kinase by Ca^{2+} .
Chemical & Pharmaceutical Bulletin, 35:2025-2029 (1987).
94. Masayoshi Yamaguchi, Hirosuke Shibano:
Effect of calcium-binding protein on the activation of phosphorylase *a* in rat hepatic particulate glycogen by Ca^{2+} .
Chemical & Pharmaceutical Bulletin, 35:2581-2584 (1987).
95. Masayoshi Yamaguchi, Hirosuke Shibano:
Reversible effect of calcium-binding protein on the Ca^{2+} -induced activation of succinate dehydrogenase in rat liver mitochondria.
Chemical & Pharmaceutical Bulletin, 35:3766-3770 (1987).
96. Masayoshi Yamaguchi:
Physicochemical properties of calcium-binding protein isolated from rat liver cytosol: Ca^{2+} -induced conformational changes.
Chemical & Pharmaceutical Bulletin, 36:286-290 (1988).
97. Masayoshi Yamaguchi, Seiichi Mori:

Effects of Ca^{2+} and Zn^{2+} on 5'-nucleotidase activity in rat liver plasma membranes: Hepatic calcium-binding protein (regucalcin) reverses the Ca^{2+} effect.

Chemical & Pharmaceutical Bulletin, 36:321-325 (1988).

98. Masayoshi Yamaguchi, Seiichi Mori, Shinji Kato:
Calcium-binding protein regucalcin is an activator of $(\text{Ca}^{2+}\text{-Mg}^{2+})$ -adenosine triphosphatase in the plasma membranes of rat liver.
Chemical & Pharmaceutical Bulletin, 36:3532-3539 (1988).
99. Masayoshi Yamaguchi, Masaji Imase:
Hormonal regulation of biliary calcium excretion in rats: Inhibition of calcitonin action by α 1-adenergetic stimulation.
Hormone and Metabolic Research, 20:221-224 (1988).
100. Masayoshi Yamaguchi, Hidetoshi Oishi, Yasunobu Suketa:
Zinc stimulation of bone protein synthesis in tissue culture: Activation of aminoacyl-tRNA synthetase.
Biochemical Pharmacology, 37:4075-4080 (1988).
101. Masayoshi Yamaguchi, Kayoko Ozaki, Yasunobu Suketa:
Alteration in bone metabolism with increasing age: Effects of zinc and vitamin D_3 in aged rats.
Journal of Pharmacobio-Dynamics, 12:67-73 (1989).
102. Masayoshi Yamaguchi, Hidetoshi Oishi, Yasunobu Suketa:
Effect of vanadium on bone metabolism in weanling rats: Zinc prevents the toxic effect of vanadium.
Research in Experimental Medicine, 189:47-53 (1989).
103. Masayoshi Yamaguchi, Hidetoshi Oishi:
Effect of 1, 25-dihydroxyvitamin D_3 on bone metabolism in tissue culture : Enhancement of steroid effect by zinc.
Biochemical Pharmacology, 38:3453-3459 (1989).
104. Masayoshi Yamaguchi, Kayoko Ozaki, Takeshi Hoshi:
Simulated weightlessness and bone metabolism: Decrease of alkaline phosphatase activity in the femoral diaphysis of rats.

- Research in Experimental Medicine*, 189:9-14 (1989).
105. Masayoshi Yamaguchi, Kayoko Ozaki, Takeshi Hoshi:
Simulated weightlessness and bone metabolism: Decrease of protein and DNA syntheses in the femoral diaphysis of rats.
Research in Experimental Medicine, 189:331-337 (1989).
106. Masayoshi Yamaguchi:
Effect of calcitonin on exchangeable calcium transport in isolated rat hepatocytes.
Molecular and Cellular Endocrinology, 62:313-318 (1989).
107. Masayoshi Yamaguchi, Seiichi Mori, Yasunobu Suketa:
Effects of Ca^{2+} and V^{5+} on glucose-6-phosphatase activity in rat liver microsomes: The Ca^{2+} effect is reversed by regucalcin.
Chemical & Pharmaceutical Bulletin, 37:388-390 (1989).
108. Masayoshi Yamaguchi, Seiichi Mori:
Activation of hepatic microsomal Ca^{2+} -adenosine triphosphatase by calcium-binding protein regucalcin.
Chemical & Pharmaceutical Bulletin, 37:1031-1034 (1989).
109. Masayoshi Yamaguchi, Seiichi Mori:
Effect of the calcium-binding protein regucalcin on the Ca^{2+} transport system in rat liver microsomes: The protein stimulates Ca^{2+} release.
Chemical & Pharmaceutical Bulletin, 37:3037-3041 (1989).
110. Masayoshi Yamaguchi, Mayumi Uto, Ryukichi Matsui:
Stimulatory effect of calcitonin on bone formation in tissue culture.
Journal of Pharmacobio-Dynamics, 12:708-715 (1989).
111. Masayoshi Yamaguchi, Ryukichi Matsui:
Effect of dipicolinate, a chelator of zinc, on bone protein synthesis in tissue culture: The essential role of zinc.
Biochemical Pharmacology, 38:4485-4489 (1989).
112. Masayoshi Yamaguchi, Seiichi Mori, Yasunobu Suketa:
Effects of Ca^{2+} , Zn^{2+} and Cd^{2+} on uridine diphosphate-glucuronyltransferase and beta-glucuronidase activities in rat liver microsomes.

- Chemical & Pharmaceutical Bulletin*, 38:159-163 (1990).
113. Gao H Zhang, Masayoshi Yamaguchi, Satoshi Kimura, Sandra Higham, Naomi Kraus-Friedmann:
Effects of heavy metal on rat liver microsomal Ca^{2+} -ATPase and Ca^{2+} sequestering: Relation to SH groups.
Journal of Biological Chemistry, 265:2184-2189 (1990).
114. Masayoshi Yamaguchi, Seiichi Mori:
Inhibitory effect of calcium-binding protein regucalcin on protein kinase C activity in rat liver cytosol.
Biochemical Medicine and Metabolic Biology, 43:140-146 (1990).
115. Masayoshi Yamaguchi, Kayoko Ozaki:
A new zinc compound, β -alanyl-L-histidinato zinc, stimulates bone growth in weanling rats.
Research in Experimental Medicine, 190:105-110 (1990).
116. Masayoshi Yamaguchi, Takako Uematsu:
Effects of various metals on hepatic bile calcium excretion in rats: The stimulatory effect of zinc is mediated through acetylcholine action.
Research in Experimental Medicine, 190:145-151 (1990).
117. Masayoshi Yamaguchi, Kayoko Ozaki, Yasunobu Suketa:
Alteration of glucose consumption and adenosine triphosphate content in bone tissue of rats with different ages: The stimulatory effect of zinc.
Chemical & Pharmaceutical Bulletin, 38:1660-1662 (1990).
118. Masayoshi Yamaguchi, Kayoko Ozaki:
Aging affects cellular zinc and protein synthesis in the femoral diaphysis of rats.
Research in Experimental Medicine, 190:295-300 (1990).
119. Masayoshi Yamaguchi, Kayoko Ozaki, Takeshi Hoshi:
 β -Alanyl- L- histidinato zinc prevents skeletal unloading-induced disorder of bone metabolism in rats.
Research in Experimental Medicine, 190:289-294 (1990).
120. Seiichi Mori, Masayoshi Yamaguchi:
Hepatic calcium-binding protein regucalcin decreases

- Ca²⁺/calmodulin-dependent protein kinase activity in rat liver cytosol.
Chemical & Pharmaceutical Bulletin, 38:2216-2218 (1990).
121. Masayoshi Yamaguchi, Seiichi Mori:
Regucalcin-induced Ca²⁺ release from rat liver microsomes: The effect is inhibited by heparin.
Chemical & Pharmaceutical Bulletin, 38:2305-2307 (1990).
122. Masayoshi Yamaguchi, Seiichi Mori:
Effect of calcium-binding protein regucalcin on hepatic protein synthesis: Inhibition of aminoacyl-tRNA synthetase activity.
Molecular and Cellular Biochemistry, 99:25-32 (1990).
123. Masayoshi Yamaguchi, Kayoko Ozaki:
Effect of the new zinc compound beta-alanyl-L-histidinato zinc on bone metabolism in elderly rats.
Pharmacology, 41:345-349 (1990).
124. Masayoshi Yamaguchi, Kayoko Ozaki:
Beta-alanyl-L-histidinato zinc prevents the toxic effect of aluminium on bone metabolism in weanling rats.
Pharmacology, 41:338-344 (1990).
125. Masayoshi Yamaguchi, Mitsutaka Isogai, Shinji Kato, Seiichi Mori:
Immunohistochemical demonstration of calcium-binding protein regucalcin in the tissues of rats: The protein localizes in liver and brain.
Chemical & Pharmaceutical Bulletin, 39:1601-1603 (1991).
126. Seiichi Mori, Masayoshi Yamaguchi:
Calcium-binding protein regucalcin stimulates the uptake of Ca²⁺ by rat liver mitochondria.
Chemical & Pharmaceutical Bulletin, 39:224-226 (1991).
127. Masayoshi Yamaguchi, Hitoshi Tai:
Inhibitory effect of calcium-binding protein regucalcin on Ca²⁺/calmodulin-dependent cyclic nucleotide phosphodiesterase activity in rat liver cytosol.
Molecular and Cellular Biochemistry, 106:25-30 (1991).

128. Masayoshi Yamaguchi, Takashi Sakurai:
Inhibitory effect of calcium-binding protein regucalcin on Ca^{2+} -activated DNA fragmentation in rat liver nuclei.
FEBS Letters, 279:281-284 (1991).
129. Masayoshi Yamaguchi:
Stimulatory effect of calcitonin on Ca^{2+} inflow in isolated rat hepatocytes.
Molecular and Cellular Endocrinology, 75:65-70 (1991).
130. Masayoshi Yamaguchi, Tokiyo Kitajima:
Effect of estrogen on bone metabolism in tissue culture: enhancement of steroid effect by zinc.
Research in Experimental Medicine, 191:145-154 (1991).
131. Masayoshi Yamaguchi, Hiroshi Miwa:
Stimulatory effect of beta-alanyl-L-histidinato zinc on bone formation in tissue culture.
Pharmacology, 42:230-240 (1991).
132. Masayoshi Yamaguchi, Junko Ohtaki:
Simulated weightlessness and bone metabolism: impairment of glucose consumption in bone tissue.
Research in Experimental Medicine, 191:105-111 (1991).
133. Masayoshi Yamaguchi, Kayoko Ozaki, Takeshi Hoshi:
Simulated weightlessness and bone metabolism: impairment of insulin effect on alkaline phosphatase activity in bone tissue.
Research in Experimental Medicine, 191:113-119 (1991).
134. Masayoshi Yamaguchi, Takashi Sakurai, Junko Ohtaki, Takeshi Hoshi:
Simulated weightlessness and bone metabolism: evidence for direct gravitational effect and its related insulin action.
Research in Experimental Medicine, 191:273-280 (1991).
135. Masayoshi Yamaguchi, Noriaki Shimokawa, Takeshi Hoshi:
Oral administration of calcium hydroxide stimulates bone metabolism in the femoral diaphysis of rats with skeletal unloading.
Chemical & Pharmaceutical Bulletin, 39:3365-3367 (1991).

136. Hidehiko Yokogoshi, Toshinao Goda, Sachiko Takase, Masayoshi Yamaguchi, Takeshi Hoshi:
Effects of suspension/hypodynamia on Ca metabolism of rsta fed with various protein concentrations.
Agriculture and Biological Chemistry, 55:3085-3089 (1991).
137. Masayoshi Yamaguchi, Takashi Sakurai:
Reversible effect of calcium-binding protein regucalcin on the Ca^{2+} -induced inhibition of deoxyuridine 5'-triphosphatase activity in rat liver cytosol.
Molecular and Cellular Biochemistry, 110:25-29 (1992).
138. Masayoshi Yamaguchi, Hitoshi Tai:
Calcium-binding protein regucalcin increases calcium-independent proteolytic activity in rat liver cytosol.
Molecular and Cellular Biochemistry, 112:89-95 (1992).
139. Noriaki Shimokawa, Masayoshi Yamaguchi:
Calcium administration stimulates the expression of calcium-binding protein regucalcin mRNA in rat liver.
FEBS Letters, 305:151-154 (1992).
140. Masayoshi Yamaguchi:
Effect of calcium-binding protein regucalcin on Ca^{2+} transport system in rat liver: stimulation of Ca^{2+} release.
Molecular and Cellular Biochemistry, 113:63-70 (1992).
141. Yoshihide Segawa, Naoki Tsuzuike, Eijiro Tagashira, Masayoshi Yamaguchi:
Preventive effect of β -alanyl-L-histidinato zinc on bone metabolism in rats fed low-calcium and vitamin D-deficient diets.
Research in Experimental Medicine, 192:213-219 (1992).
142. Masayoshi Yamaguchi, Yoshihide Segawa, Noriaki Shimokawa, Naoki Tsuzuike, Eijiro Tagashira:
Inhibitory effect of β -alanyl-L-histidinato zinc on bone resorption in tissue culture.
Pharmacology, 45:292-300 (1992).

143. Yoshihide Segawa, Naoki Tsuzuike, Eijiro Tagashira,
Masayoshi Yamaguchi:
 β -Alanyl-L-histidinato zinc prevents hydrocortison-induced disorder of bone metabolism in rats.
Research in Experimental Medicine, 192:317-322 (1992).
144. Noriaki Shimokawa, Masayoshi Yamaguchi:
Characterization of bone protein components with polyacrylamide gel electrophoresis: effects of zinc and hormones in tissue culture.
Molecular and Cellular Biochemistry, 117:153-158 (1992).
145. Masayoshi Yamaguchi, Takeshi Hoshi:
Simulated weightlessness and bone metabolism: gravitational stimulation enhances insulin sensitivity.
Research in Experimental Medicine, 192:345-353 (1992).
146. Masayoshi Yamaguchi:
Regulatory effects of zinc and copper on the calcium transport system in rat nuclei. Relation to SH groups in the releasing mechanism.
Biochemical Pharmacology, 45:943-948 (1993).
147. Noriaki Shimokawa, Masayoshi Yamaguchi:
Expression of hepatic calcium-binding protein regucalcin mRNA is mediated through Ca^{2+} /calmodulin in rat liver.
FEBS Letters, 316:79-84 (1993).
148. Kimiko Oishi, Masayoshi Yamaguchi:
Regulatory effect of arachidonic acid on the calcium transport system in rat liver nuclei.
Biochemical Pharmacology, 45:1471-1475 (1993).
149. Yoshihide Segawa, Naoki Tsuzuike, Eijiro Tagashira,
Masayoshi Yamaguchi:
Preventive effect β -alanyl-L-histidinato zinc on the deterioration of bone metabolism in ovariectomized rats.
Biological & Pharmaceutical Bulletin, 16:486-489 (1993).
150. Kimiko Oishi, Masayoshi Yamaguchi:

- Effect of nicotinamide-adenine dinucleotides on Ca^{2+} transport system in rat liver nuclei: stimulation of Ca^{2+} release by NAD^+ .
Molecular and Cellular Biochemistry, 121:127-133 (1993).
151. Noriaki Shimokawa, Masayoshi Yamaguchi:
Molecular cloning and sequencing of the cDNA coding for a calcium-binding protein regucalcin from rat liver.
FEBS Letters, 327:251-255 (1993).
152. Naoki Tsuzuike, Yoshihide Segawa, Eijiro Tagashira, Masayoshi Yamaguchi:
Beta-alanyl-L-histidinato zinc enhances various bone-regulating factor's effects on bone alkaline phosphatase activity in tissue culture.
Pharmacology, 47:66-72 (1993).
153. Yoshihide Segawa, Naoki Tsuzuike, Yoshihiko Itokazu, Eijiro Tagashira, Masayoshi Yamaguchi:
Effect of β -alanyl-L-histidinato zinc on bone metabolism in rats with adjuvant arthritis.
Biological & Pharmaceutical Bulletin, 16:656-659 (1993).
154. Masayoshi Yamaguchi, Mitsutaka Isogai:
Tissue concentration of calcium-binding protein regucalcin in rats by enzyme-linked immunoadsorbent assay.
Molecular and Cellular Biochemistry, 122:65-68 (1993).
155. Masayuki Hashizume, Masayoshi Yamaguchi:
Stimulatory effect of β -alanyl-L-histidinato zinc on cell proliferation is dependent on protein synthesis in osteoblastic MC3T3-E1 cells.
Molecular and Cellular Biochemistry, 122:59-64 (1993).
156. Masayoshi Yamaguchi, Seiko Kishi:
Prolonged administration of β -alanyl-L-histidinato zinc prevents bone loss in ovariectomized rats.
Japanese Journal of Pharmacology, 63:203-207 (1993).
157. Hiroko Takahashi, Masayoshi Yamaguchi:
Regucalcin modulates hormonal effect on $(\text{Ca}^{2+}\text{-Mg}^{2+})\text{-ATPase}$ activity in rat liver plasma membranes.

- Molecular and Cellular Biochemistry*, 125:171-177 (1993).
158. Hiroko Takahashi, Masayoshi Yamaguchi:
Regulatory effect of regucalcin on $(Ca^{2+}-Mg^{2+})$ -ATPase in rat liver plasma membranes: comparison with the activation by Mn^{2+} and Co^{2+} .
Molecular and Cellular Biochemistry, 124:169-174 (1993).
159. Masayoshi Yamaguchi, Kimiko Oishi:
Characterization of Ca^{2+} -stimulated adenosine 5'-triphosphatase and Ca^{2+} sequestering in rat liver nuclei.
Molecular and Cellular Biochemistry, 125:43-49 (1993).
160. Masayoshi Yamaguchi, Seiko Kishi, Takeshi Hoshi:
Effect of insulin administration on bone formation is impaired in rats with skeletal unloading.
Biological & Pharmaceutical Bulletin, 16:1179-1181 (1993).
161. Masayuki Hashizume, Masayoshi Yamaguchi:
Effect of β -alanyl-L-histidinato zinc on differentiation of osteoblastic MC3T3-E1 cells: Increases in alkaline phosphatase activity and protein concentration.
Molecular and Cellular Biochemistry, 131:19-24 (1994).
162. Masayoshi Yamaguchi, Kimiko Oishi:
Involvement of Ca^{2+} -stimulated adenosine 5'-triphosphatase in the Ca^{2+} releasing mechanism of rat liver nuclei.
Molecular and Cellular Biochemistry, 131:167-172 (1994).
163. Mitsutaka Isogai, Noriaki Shimokawa, Masayoshi Yamaguchi:
Hepatic calcium-binding protein regucalcin is released into the serum of rats administrated orally carbon tetrachloride.
Molecular and Cellular Biochemistry, 131:173-179 (1994).
164. Mitsutaka Isogai, Kimiko Oishi, Noriaki Shimokawa, Masayoshi Yamaguchi:
Expression of hepatic calcium-binding protein regucalcin mRNA is decreased by phenobarbital administration in rats.
Molecular and Cellular Biochemistry, 141:15-19 (1994).
165. Masayoshi Yamaguchi, Yoshitaka Kanayama, Noriaki Shimokawa:

- Expression of calcium-binding protein regucalcin mRNA in rat liver is stimulated by calcitonin: the hormonal effect is mediated through calcium.
Molecular and Cellular Biochemistry, 136:43-48 (1994).
166. Hiroko Takahashi, Masayoshi Yamaguchi:
Activating effect of regucalcin on (Ca²⁺-Mg²⁺)-ATPase in rat liver plasma membranes: relation to sulfhydryl group.
Molecular and Cellular Biochemistry, 136:71-76 (1994).
167. Mitsutaka Isogai, Kimiko Oishi, Masayoshi Yamaguchi:
Serum release of hepatic calcium-binding protein regucalcin by liver injury with galactosamine administration in rats.
Molecular and Cellular Biochemistry, 136:85-90 (1994).
168. Kimiko Oishi, Masayoshi Yamaguchi:
Effect of phorbol 12-myristate 13-acetate on Ca²⁺-ATPase activity in rat liver nuclei.
Journal of Cellular Biochemistry, 55:168-172 (1994).
169. Seiko Kishi, Masayoshi Yamaguchi:
Inhibitory effect of zinc compounds on osteoclast-like cell formation in mouse marrow cultures.
Biochemical Pharmacology, 48:1225-1230 (1994).
170. Masayoshi Yamaguchi, Masayuki Hashizume:
Effect of β-alanyl-L-histidinato zinc on protein components in osteoblastic MC3T3-E1 cells: Increase in osteocalcin, insulin-like growth factor-I and transforming growth factor-β.
Molecular and Cellular Biochemistry, 136:163-169 (1994).
171. Masayoshi Yamaguchi, Masayuki Hashizume:
Effect of parathyroid hormone and interleukin-1α in osteoblastic MC3T3-E1 cells: Interaction with β-alanyl-L-histidinato zinc.
Peptides, 15:633-636 (1994).
172. Masayoshi Yamaguchi, Seiko Kishi:
Effect of zinc-chelating dipeptide on bone metabolism in weanling rats: Comparison with β-alanyl-L-histidinato zinc-related compounds.

- Peptides*, 15:671-673 (1994).
173. Masayoshi Yamaguchi, Seiko Kishi, Masayuki Hashizume:
Effect of zinc-chelating dipeptides on osteoblastic MC3T3-E1 cells: Activation of aminoacyl-tRNA synthetase.
Peptides, 15:1367-1371 (1994).
174. Masayoshi Yamaguchi, Seiko Kishi:
Differential effects of insulin and insulin-like growth factor-I in the femoral tissues of rats with skeletal unloading.
Calcified Tissue International, 55:363-367 (1994).
175. Seiko Kishi, Masayoshi Yamaguchi:
Stimulatory effect of β -alanyl-L-histidinato zinc on alkaline phosphatase activity in bone tissues from elderly rats: Comparison with zinc sulfate action.
Biological & Pharmaceutical Bulletin, 17:345-347 (1994).
176. Masayoshi Yamaguchi, Seiko Kishi:
Comparison of the effect of β -alanyl-L-histidinato zinc and its zinc-chelating ligand on bone metabolism in tissue culture.
Biological & Pharmaceutical Bulletin, 17:522-526 (1994).
177. Seiko Kishi, Yoshihide Segawa, Masayoshi Yamaguchi:
Histomorphological confirmation of the preventive effect of β -alanyl-L-histidinato zinc on bone loss in ovariectomized rats.
Biological & Pharmaceutical Bulletin, 17:862-865 (1994).
178. Masayoshi Yamaguchi, Yoshitaka Kanayama:
Enhanced expression of calcium-binding protein regucalcin mRNA in regenerating rat liver.
Journal of Cellular Biochemistry, 57:185-190 (1995).
179. Masayoshi Yamaguchi, Kimiko Oishi, Mitsutaka Isogai:
Expression of hepatic calcium-binding protein regucalcin mRNA is elevated by refeeding of fasted rats: Involvement of glucose, insulin and calcium as stimulating factors.
Molecular and Cellular Biochemistry, 142:35-41 (1995).
180. Mitsutaka Isogai, Masayoshi Yamaguchi:

- Calcium administration increases calcium-binding protein regucalcin concentration in the liver of rats.
Molecular and Cellular Biochemistry, 143:53-58 (1995).
181. Noriaki Shimokawa, Mitsutaka Isogai, Masayoshi Yamaguchi:
Specific species and tissue differences for the gene expression of calcium-binding protein regucalcin.
Molecular and Cellular Biochemistry, 143:67-71 (1995).
182. Masayoshi Yamaguchi, Kimiko Oishi:
17 β -Estradiol stimulates the expression of hepatic calcium-binding protein regucalcin mRNA in rats.
Molecular and Cellular Biochemistry, 143:137-141 (1995).
183. Hiroko Takahashi, Masayoshi Yamaguchi:
Increase of (Ca²⁺-Mg²⁺)-ATPase activity in hepatic plasma membranes of rats administered orally calcium: The endogenous role of regucalcin.
Molecular and Cellular Biochemistry, 144:1-6 (1995).
184. Masayoshi Yamaguchi, Hideyuki Kurota:
Expression of calcium-binding protein regucalcin mRNA in the kidney cortex of rats: The stimulation by calcium administration.
Molecular and Cellular Biochemistry, 146:71-77 (1995).
185. Yoshitaka Kanayama, Masayoshi Yamaguchi:
Enhancement of nuclear Ca²⁺-ATPase activity in regenerating rat liver: involvement of nuclear DNA increase.
Molecular and Cellular Biochemistry, 146:179-186 (1995).
186. Masayoshi Yamaguchi, Kimiko Oishi:
Effect of nuclear Ca²⁺ uptake inhibitors on Ca²⁺-activated DNA fragmentation in rat liver nuclei.
Molecular and Cellular Biochemistry, 148:33-37 (1995).
187. Masayoshi Yamaguchi, Noriko Nishina:
Characterization of regucalcin effect on proteolytic activity in rat liver cytosol: relation to cysteinyl-proteases.
Molecular and Cellular Biochemistry, 148:67-72 (1995).

188. Masayoshi Yamaguchi, Seiko Kishi:
Inhibitory effect of zinc-chelating dipeptide on parathyroid hormone-stimulated osteoclast-like cell formation in mouse marrow cultures: Involvement of calcium signaling.
Peptides, 16:629-633 (1995).
189. Tomohiro Matsui, Masayoshi Yamaguchi:
Zinc modulation of insulin-like growth factor's effect in osteoblastic MC3T3-E1 cells.
Peptides, 16:1063-1068 (1995).
190. Masayoshi Yamaguchi, Yuka Ehara:
Zinc decrease and bone metabolism in the femoral-metaphyseal tissues of rats with skeletal unloading.
Calcified Tissue International, 57:218-223 (1995).
191. Masayoshi Yamaguchi, Seiko Kishi:
Differential effects of transforming growth factor- β on osteoclast-like cell formation in mouse marrow culture: Relation to the effect of zinc-chelating dipeptides.
Peptides, 16:1483-1488 (1995).
192. Noriaki Shimokawa, Yoichi Matsuda, Masayoshi Yamaguchi:
Genomic cloning and chromosomal assignment of rat regucalcin gene.
Molecular and Cellular Biochemistry, 151 : 157-163 (1995).
193. Hiroko Takahashi, Susumu Suzuki, Masayoshi Yamaguchi:
Stimulatory effect of hormonal signaling factors on $(Ca^{2+}-Mg^{2+})$ -ATPase activity in rat liver plasma membranes: Cross talk with regucalcin.
Molecular and Cellular Biochemistry, 151:1-7 (1995).
194. Hideyuki Kurota, Masayoshi Yamaguchi:
Suppressed expression of calcium-binding protein regucalcin mRNA in the renal cortex of rats with chemically induced kidney damage.
Molecular and Cellular Biochemistry, 151:55-60 (1995).
195. Reiko Makino, Masayoshi Yamaguchi:
Expression of calcium-binding protein regucalcin mRNA in hepatoma cells.

- Molecular and Cellular Biochemistry*, 155:85-90 (1996).
196. Hideyuki Kurota, Masayoshi Yamaguchi:
Steroid hormonal regulation of calcium-binding protein regucalcin mRNA expression in the kidney cortex of rats.
Molecular and Cellular Biochemistry, 155:105-111 (1996).
197. Yasuko Hanahisa, Masayoshi Yamaguchi:
Characterization of calcium accumulation in the brain of rats administered orally calcium: The significance of energy-dependent mechanism.
Molecular and Cellular Biochemistry, 158:1-7 (1996).
198. Hiroko Takahashi, Masayoshi Yamaguchi:
Activatory effect of regucalcin on hepatic plasma membrane (Ca²⁺-Mg²⁺)-ATPase is impaired by liver injury with carbon tetrachloride administration in rats.
Molecular and Cellular Biochemistry, 158:9-16 (1996).
199. Masayoshi Yamaguchi, Seiko Kishi:
Zinc compounds inhibit osteoclast-like cell formation at the earlier stage of rat marrow culture but not osteoclast function.
Molecular and Cellular Biochemistry, 158:171-177 (1996).
200. Masayoshi Yamaguchi, Yoshitaka Kanayama:
Calcium-binding protein regucalcin inhibits deoxyribonucleic acid synthesis in the nuclei of regenerating rat liver.
Molecular and Cellular Biochemistry, 162:121-126 (1996).
201. Hiroko Takahashi, Masayoshi Yamaguchi:
Enhancement of plasma membrane (Ca²⁺-Mg²⁺)-ATPase activity in regenerating rat liver: Involvement of endogenous activating protein.
Molecular and Cellular Biochemistry, 162:133-138 (1996).
202. Nobuko Shinya, Hideyuki Kurota, Masayoshi Yamaguchi:
Calcium-binding protein regucalcin mRNA expression in the kidney cortex is suppressed by saline ingestion in rats.
Molecular and Cellular Biochemistry, 162:139-144 (1996).
203. Yuka Ehara, Masayoshi Yamaguchi:

- Histomorphological confirmation of bone loss in the femoral-metaphyseal tissues of rats with skeletal unloading.
Research in Experimental Medicine, 196:163-170 (1996).
204. Yuka Ehara, Hiroko Takahashi, Yasuko Hanahisa, Masayoshi Yamaguchi:
Effect of vitamin K₂ (menaquinone-7) on bone metabolism in the femoral-metaphyseal tissues of normal and skeletal-unloaded rats: enhancement with zinc.
Research in Experimental Medicine, 196:171-178 (1996).
205. Masayoshi Yamaguchi, Yuka Ehara:
Effect of essential trace metal on bone metabolism in the femoral-metaphyseal tissues of rats with skeletal unloading: comparison with zinc-chelating dipeptide.
Calcified Tissue International, 59:27-32 (1996).
206. Shizuo Yamada, Shinya Uchida, Takashi Ohkura, Ryohei Kimura, Masayoshi Yamaguchi, Masanori Suzuki, Minoru Yamamoto:
Alterations in calcium antagonist receptors and calcium content in senescent brain and attenuation by nimodipine and nicardipine.
Journal of Pharmacology and Experimental Therapeutics, 27:721-727 (1996).
207. Masayoshi Yamaguchi, Reiko Makino, Noriaki Shimokawa:
The 5' end sequences and exon organization in rat regucalcin gene.
Molecular and Cellular Biochemistry, 165:145-150 (1996).
208. Masayoshi Yamaguchi, Tomohiro Matsui:
Stimulatory effect of zinc-chelating dipeptide on deoxyribonucleic acid synthesis in osteoblastic MC3T3-E1 cells.
Peptides, 17:1207-1211 (1996).
209. Tomiyasu Murata, Masayoshi Yamaguchi:
Molecular cloning of the cDNA coding for regucalcin and its mRNA expression in mouse liver: The expression is stimulated by calcium administration.
Molecular and Cellular Biochemistry, 173:127-133 (1997).
210. Tomiyasu Murata, Nobuko Shinya, Masayoshi Yamaguchi:
Expression of calcium-binding protein regucalcin mRNA in the cloned human

- hepatoma cells (HepG2): Stimulation by insulin.
Molecular and Cellular Biochemistry, 175:163-168 (1997).
211. Masayoshi Yamaguchi, Sayuri Ueoka:
Inhibitory effect of calcium-binding protein regucalcin on ribonucleic acid synthesis in isolated rat liver nuclei.
Molecular and Cellular Biochemistry, 173:169-175 (1997).
212. Mitsutaka Isogai, Hideyuki Kurota, Masayoshi Yamaguchi:
Hepatic calcium-binding protein regucalcin concentration is decreased by streptozotocin-diabetic state and ethanol ingestion in rats.
Molecular and Cellular Biochemistry, 168:67-72 (1997).
213. Masayoshi Yamaguchi, Mitsutaka Isogai, Noriaki Shimada:
Potential sensitivity of hepatic specific protein regucalcin as a marker of chronic liver injury.
Molecular and Cellular Biochemistry, 167:187-190 (1997).
214. Hiroko Takahashi, Masayoshi Yamaguchi:
Stimulatory effect of regucalcin on ATP-dependent calcium transport in rat liver plasma membranes.
Molecular and Cellular Biochemistry, 168:149-153 (1997).
215. Sayuri Ueoka, Masayoshi Yamaguchi:
Effect of apoptosis-related compounds on Ca²⁺ transport system in isolated rat liver nuclei.
Molecular and Cellular Biochemistry, 166:183-189 (1997).
216. Hideyuki Kurota, Masayoshi Yamaguchi:
Activatory effect of calcium-binding protein regucalcin on ATP-dependent calcium transport in the basolateral membranes of rat kidney cortex.
Molecular and Cellular Biochemistry, 169:149-156 (1997).
217. Nobuko Shinya, Masayoshi Yamaguchi:
Alteration in Ca²⁺-ATPase activity and calcium-binding protein regucalcin mRNA expression in the kidney cortex of rats with saline ingestion.
Molecular and Cellular Biochemistry, 170:17-22 (1997).
218. Yasuko Hanahisa, Masayoshi Yamaguchi:

- Increase in calcium content and Ca^{2+} -ATPase activity in the brain of fasted rats:
Comparison with different ages.
Molecular and Cellular Biochemistry, 171:127-132 (1997).
219. Masayoshi Yamaguchi, Tomohiro Matsui:
Zinc enhancement of 17β -estradiol's anabolic effect in osteoblastic MC3T3-E1 cells.
Calcified Tissue International, 60:527-532 (1997).
220. Seiko Kishi, Masayoshi Yamaguchi:
Characterization of zinc effect to inhibit osteoclast-like cell formation in mouse marrow culture: Interaction with dexamethasone.
Molecular and Cellular Biochemistry, 166:145-151 (1997).
221. Yuka Ehara, Masayoshi Yamaguchi:
Zinc stimulates protein synthesis in the femoral-metaphyseal tissues of normal and skeletally unloaded rats.
Research in Experimental Medicine, 196:363-372 (1997).
222. Masayoshi Yamaguchi, Ying Hua Gao:
Anabolic effect of genistein on bone metabolism in the femoral-metaphyseal tissues of elderly rats is inhibited by the anti-estrogen tamoxifen.
Research in Experimental Medicine, 197:101-107 (1997).
223. Toshihiro Suzuki, Hiroshi Nakayama, Masayoshi Yamaguchi:
Effect of wasabi leafstalk (*Wasabi japonica* MATSUMU.) extract on bone metabolism in mouse calvaria tissue culture.
Food Science and Technology International, 3:366-369 (1997).
224. Hideyuki Kurota, Masayoshi Yamaguchi:
Regucalcin increases Ca^{2+} -ATPase activity and ATP-dependent calcium uptake in the microsomes of rat kidney cortex.
Molecular and Cellular Biochemistry, 177:201-207 (1997).
225. Masayoshi Yamaguchi, Hideyuki Kurota:
Inhibitory effect of regucalcin on Ca^{2+} /calmodulin-dependent cyclic AMP phosphodiesterase activity in rat kidney cytosol.
Molecular and Cellular Biochemistry, 177:209-214 (1997).

226. Hideyuki Kurota, Masayoshi Yamaguchi:
Inhibitory effect of regucalcin on Ca^{2+} /calmodulin-dependent protein kinase activity in rat renal cortex cytosol.
Molecular and Cellular Biochemistry, 177:239-243 (1997).
227. Toru Katsumata, Masayoshi Yamaguchi:
Inhibitory effect of calcium-binding protein regucalcin on protein kinase activity in the nuclei of regenerating rat liver.
Journal of Cellular Biochemistry, 71:569-576 (1998).
228. Yasuko Hanahisa, Masayoshi Yamaguchi:
Inhibitory effect of zinc and copper on phosphatase activity in the brain cytosol of rats: Involvement of SH groups.
Biological & Pharmaceutical Bulletin, 21:1222-1225 (1998).
229. Masami Omura, Masayoshi Yamaguchi:
Inhibition of Ca^{2+} /calmodulin-dependent phosphatase activity by regucalcin in rat liver cytosol: Involvement of calmodulin binding.
Journal of Cellular Biochemistry, 71:140-148 (1998).
230. Tomiyasu Murata, Masayoshi Yamaguchi:
Tissue-specific binding of nuclear factors to the 5'-flanking region of the rat gene for calcium-binding protein regucalcin.
Molecular and Cellular Biochemistry, 178:305-310 (1998).
231. Tomiyasu Murata, Masayoshi Yamaguchi:
 Ca^{2+} administration stimulates the binding of AP-1 factor to the 5'-flanking region of the rat gene for the Ca^{2+} -binding protein regucalcin.
Biochemical Journal, 329:157-163 (1998).
232. Masayoshi Yamaguchi, Sayuri Ueoka:
Expression of calcium-binding protein regucalcin mRNA in fetal rat liver is stimulated by calcium administration.
Molecular and Cellular Biochemistry, 178:283-287 (1998).
233. Sayuri Ueoka, Masayoshi Yamaguchi:
Sexual difference of hepatic calcium-binding protein regucalcin mRNA expression in rats with different ages: Effect of ovarian hormone.

- Biological & Pharmaceutical Bulletin*, 21:405-407 (1998).
234. Hiroko Takahashi, Tomiyasu Murata, Yasuko Hanahisa, Masayoshi Yamaguchi:
Streptozotocin-induced diabetes increase (Ca²⁺-Mg²⁺)-ATPase activity in hepatic plasma membranes of rats: Involvement of protein kinase C.
Molecular and Cellular Biochemistry, 178:311-316 (1998).
235. Toru Katsumata, Tomiyasu Murata, Masayoshi Yamaguchi:
Alteration in calcium content and Ca²⁺-ATPase activity in the liver nuclei of rats orally administered carbon tetrachloride.
Molecular and Cellular Biochemistry, 185:153-159 (1998).
236. Hideyuki Kurota, Masayoshi Yamaguchi:
Inhibitory effect of calcium-binding protein regucalcin on protein kinase C activity in rat renal cortex cytosol.
Biological & Pharmaceutical Bulletin, 21:315-318 (1998).
237. Masami Omura, Hideyuki Kurota, Masayoshi Yamaguchi:
Inhibitory effect of regucalcin on Ca²⁺/calmodulin-dependent phosphatase activity in rat renal cortex cytosol.
Biological & Pharmaceutical Bulletin, 21:440-443 (1998).
238. Nobuko Shinya, Masayoshi Yamaguchi:
Stimulatory effect of calcium administration on regucalcin mRNA expression is attenuated in the kidney cortex of rats ingested with saline.
Molecular and Cellular Biochemistry, 178:275-281 (1998).
239. Yasuko Hanahisa, Masayoshi Yamaguchi:
Increase of Ca²⁺-ATPase activity in the brain microsomes of rats with increasing ages: Involvement of protein kinase C.
Brain Research Bulletin, 46:329-332 (1998).
240. Yasuko Hanahisa, Masayoshi Yamaguchi:
Stimulatory effect of calcium-binding protein regucalcin on phosphatase activity in the brain cytosol of rats with different ages.
Brain Research Bulletin, 46:347-351 (1998).
241. Masayoshi Yamaguchi, Ying Hua Gao:
Anabolic effect of genistein and genistin on bone metabolism in the

- femoral-metaphyseal tissues of elderly rats: The genistein effect is enhanced by zinc.
Molecular and Cellular Biochemistry, 178:377-382 (1998).
242. Masayoshi Yamaguchi, Ying Hua Gao:
Inhibitory effect of genistein on bone resorption in tissue culture.
Biochemical Pharmacology, 55:71-76 (1998).
243. Ying Hua Gao, Masayoshi Yamaguchi:
Zinc enhancement of genistein's anabolic effect on bone components in elderly female rats.
General Pharmacology, 30:199-202 (1998).
244. Masayoshi Yamaguchi, Ying Hua Gao:
Potent effect of zinc acexamate on bone components in the femoral-metaphyseal tissue of elderly female rats.
General Pharmacology, 31:423-427 (1998).
245. Masayoshi Yamaguchi, Masanori Tezuka, Shigefumi Shimanuki,
Mitsuo Kishi, Yoshihiro Tukada:
Casein phosphopeptides in dietary calcium tofu enhance calcium availability in ovariectomized rats: Prevention of bone loss.
Food Science and Technology International, 4:209-212 (1998).
246. Tomiyasu Murata, Masayoshi Yamaguchi:
Promoter Characterization of Rat Gene for Ca^{2+} -binding Protein Regucalcin.
Journal of Biological Chemistry, 274:1277-1285 (1999).
247. Michiko Nakajima, Tomiyasu Murata, Masayoshi Yamaguchi:
Expression of calcium-binding protein regucalcin mRNA in the cloned rat hepatoma cells (H4-II-E) is stimulated through Ca^{2+} signaling factors: Involvement of protein kinase C.
Molecular and Cellular Biochemistry, 198:101-107 (1999).
248. Masayoshi Yamaguchi, Michiko Nakajima:
Involvement of Intracellular Signaling Factors in the Serum-Enhanced Ca^{2+} -Binding Protein Regucalcin mRNA Expression in the Cloned Rat Hepatoma Cells (H4-II-E).

- Journal of Cellular Biochemistry*, 74:81-89 (1999).
249. Hiroko Takahashi, Masayoshi Yamaguchi:
Role of regucalcin as an activator of Ca²⁺-ATPase activity in rat liver microsomes.
Journal of Cellular Biochemistry, 74:663-669 (1999).
250. Masayoshi Yamaguchi, Toru Katsumata:
Enhancement of protein kinase activity in the cytosol of regenerating rat liver: Regulatory role of endogenous regucalcin.
International Journal of Molecular Medicine, 3:505-510 (1999).
251. Masami Omura, Masayoshi Yamaguchi:
Effect of anti-regucalcin antibody on neutral phosphatase activity in rat liver cytosol: Involvement of endogenous regucalcin.
Molecular and Cellular Biochemistry, 197:25-29 (1999).
252. Masami Omura, Masayoshi Yamaguchi:
Regulation of protein phosphatase activity by regucalcin localization in rat liver nuclei.
Journal of Cellular Biochemistry, 75:437-445 (1999).
253. Masami Omura, Masayoshi Yamaguchi:
Enhancement of neutral phosphatase activity in the cytosol and nuclei of regenerating rat liver: Role of endogenous regucalcin.
Journal of Cellular Biochemistry, 73:332-341 (1999).
254. Masami Omura, Toru Katsumata, Hiroyuki Misawa, Masayoshi Yamaguchi:
Decrease in protein kinase and phosphatase activities in the liver nuclei of rats exposed to carbon tetrachloride.
Toxicology and Applied Pharmacology, 160:192-197 (1999).
255. Tomiyasu Murata, Masayoshi Yamaguchi:
Binding of kidney nuclear proteins to the 5'-flanking region of the rat gene for Ca²⁺-binding protein regucalcin: Involvement of Ca²⁺/calmodulin signaling.
Molecular and Cellular Biochemistry, 199:35-40 (1999).
256. Tomoko Baba, Masayoshi Yamaguchi:
Stimulatory effect of regucalcin on proteolytic activity in rat renal cortex cytosol:

- Involvement of thiol proteases.
Molecular and Cellular Biochemistry, 195:87-92 (1999).
257. Yasuko Hanahisa, Masayoshi Yamaguchi:
Brain microsomal calcium accumulation in rats with increasing age:
Involvement of thapsigargin-sensitive Ca^{2+} -ATPase.
International Journal of Molecular Medicine, 4:627-631 (1999).
258. Masayoshi Yamaguchi, Yasuko Hanahisa, Tomiyasu Murata:
Expression of calcium-binding protein regucalcin and microsomal Ca^{2+} -ATPase
regulation in rat brain: Attenuation with increasing age.
Molecular and Cellular Biochemistry, 200:43-49 (1999).
259. Toshie Hamano, Yasuko Hanahisa, Masayoshi Yamaguchi:
Inhibitory effect of regucalcin on Ca^{2+} -dependent protein kinase activity in rat
cytosol: Involvement of endogenous regucalcin.
Brain Research Bulletin, 50:187-192 (1999).
260. Toshie Hamano, Masayoshi Yamaguchi:
Inhibitory effect of regucalcin on Ca^{2+} /calmodulin-dependent protein
phosphatase activity in rat brain cytosol.
International Journal of Molecular Medicine, 3:615-619 (1999).
261. Yasuko Hanahisa, Masayoshi Yamaguchi:
Effect of calcium-binding protein on adenosine 5'-triphosphatase activity in the
brain cytosol of rats of different ages: The inhibitory role of regucalcin.
Biological & Pharmaceutical Bulletin, 22:313-316 (1999).
262. Aki Igarashi, Masayoshi Yamaguchi:
Stimulatory effect of zinc acetate administration on fracture healing of the
femoral-diaphyseal tissues in rats.
General Pharmacology, 3:463-469 (1999).
263. Aki Igarashi, Masayoshi Yamaguchi:
Increase in bone protein components with healing rat fractures: Enhancement by
zinc treatment.
International Journal of Molecular Medicine, 4:615-620 (1999).
264. Masayoshi Yamaguchi, Megumi Endo, Shigefumi Shimanuki,

- Masanori Tezuka, Yoshihiro Tukada:
Anabolic effect of zinc-containing marine alga (*Fucus*) extract on bone components in rat femoral tissues in vitro and in vivo.
Food Science and Technology Research, 5:51-55 (1999).
265. Ying Hua Gao, Masayoshi Yamaguchi:
Anabolic effect of daidzein on cortical bone in tissue culture: Comparison with genistein effect.
Molecular and Cellular Biochemistry, 194:93-98 (1999).
266. Ying Hua Gao, Masayoshi Yamaguchi:
Inhibitory effect of genistein on osteoclast-like cell formation in mouse marrow culture.
Biochemical Pharmacology, 58:767-772 (1999).
267. Ying Hua Gao, Masayoshi Yamaguchi:
Suppressive effect of genistein on rat bone osteoclasts: apoptosis is induced through Ca²⁺ signaling.
Biological & Pharmaceutical Bulletin, 22:805-809 (1999).
268. Rie Ono, Masayoshi Yamaguchi:
Increase in bone components of rats orally administered isoflavone-containing soybean extract (*Nijiru*).
Journal of Health Science, 45:66-69 (1999).
269. Rie Ono, Masayoshi Yamaguchi:
Anabolic effect of soybean saponin on bone components in the femoral tissues of rats.
Journal of Health Science, 45:251-255 (1999).
270. Masayoshi Yamaguchi, Hideaki Taguchi, Yhig Hua Gao, Aki Igarashi, Yoshinori Tsukamoto:
Effect of vitamin K₂ (menaquinone-7) fermented soybean (natto) on bone loss in ovariectomized rats.
Journal of Bone and Mineral Metabolism, 17:23-29 (1999).
271. Toshihiro Suzuki, Masayoshi Yamaguchi:
Characterization of stimulatory effect of wasabi leafstalk (*Wasabia Japonica*

- MATSUM.) extract on bone calcification in mouse calvaria tissue culture.
Food Science and Technology Research, 5:304-307 (1999).
272. Toshihiro Suzuki, Masayoshi Yamaguchi:
Anabolic effect of wasabi leafstalk (*Wasabia Japonica* MATSUM.) extract on bone metabolism in rats.
Food Science and Technology Research, 5:61-63 (1999).
273. Hiroyuki Misawa, Masayoshi Yamaguchi:
Involvement of hepatic nuclear factor I binding motif in transcriptional regulation of Ca²⁺-binding protein regucalcin gene.
Biochemical and Biophysical Research Communications, 269:270-278 (2000).
274. Hiroyuki Misawa, Masayoshi Yamaguchi:
Transcript heterogeneity of the human gene for Ca²⁺-binding protein regucalcin.
International Journal of Molecular Medicine, 5:283-287 (2000).
275. Hiroyuki Misawa, Masayoshi Yamaguchi:
The gene of Ca²⁺-binding protein regucalcin is highly conserved in vertebrate species.
International Journal of Molecular Medicine, 6:191-196 (2000).
276. Hiroyuki Misawa, Masayoshi Yamaguchi:
Intracellular signaling factors-enhanced hepatic nuclear protein binding to TTGGC sequence in the rat regucalcin gene promoter: Involvement of protein phosphorylation.
Biochemical and Biophysical Research Communications, 279:275-281 (2000).
277. Yoshinori Tsurusaki, Hiroyuki Misawa, Masayoshi Yamaguchi:
Translocation of regucalcin to rat liver nucleus: Involvement of nuclear protein kinase and protein phosphatase regulation.
International Journal of Molecular Medicine, 6:655-660 (2000).
278. Yoshinori Tsurusaki, Masayoshi Yamaguchi:
Suppressive effect of endogenous regucalcin on the enhancement of protein synthesis and aminoacyl-tRNA synthetase activity in regenerating rat liver.
International Journal of Molecular Medicine, 6:295-299 (2000).

279. Shyuichiroh Inagaki, Hiroyuki Misawa, Masayoshi Yamaguchi:
Role of endogenous regucalcin in protein tyrosine phosphatase regulation in the cloned rat hepatoma cells (H4-II-E).
Molecular and Cellular Biochemistry, 213:43-50 (2000).
280. Shyuichiroh Inagaki, Masayoshi Yamaguchi:
Enhancement of protein tyrosine phosphatase activity in the proliferation of cloned rat hepatoma H4-II-E cells: Suppressive role of endogenous regucalcin.
International Journal of Molecular Medicine, 6:323-328 (2000).
281. Hiroko Takahashi, Masayoshi Yamaguchi:
Stimulatory effect of regucalcin on ATP-dependent Ca^{2+} uptake activity in rat liver mitochondria.
Journal of Cellular Biochemistry, 78:121-130 (2000).
282. Yoshinori Tsurusaki, Masayoshi Yamaguchi:
Role of endogenous regucalcin in the regulation of Ca^{2+} -ATPase activity in rat liver nuclei.
Journal of Cellular Biochemistry, 78:541-549 (2000).
283. Tomoko Baba, Masayoshi Yamaguchi:
Stimulatory effect of regucalcin on proteolytic activity is impaired in the kidney cortex cytosol of rats with saline ingestion.
Molecular and Cellular Biochemistry, 206:1-6 (2000).
284. Jing Hui Xue, Hiroko Takahashi, Masayoshi Yamaguchi:
Stimulatory effect of regucalcin on mitochondrial ATP-dependent calcium uptake activity in rat kidney cortex.
Journal of Cellular Biochemistry, 80:285-292 (2000).
285. Masayoshi Yamaguchi, Toshie Hamano, Hiroyuki Misawa:
Expression of Ca^{2+} -binding protein regucalcin in rat brain neurons: Inhibitory effect on protein phosphatase activity.
Brain Research Bulletin, 52:343-348 (2000).
286. Emi Sugimoto, Masayoshi Yamaguchi:
Stimulatory effect of daidzein in osteoblastic MC3T3-E1 cells.
Biochemical Pharmacology, 59:471-475 (2000).

287. Emi Sugimoto, Masayoshi Yamaguchi:
Anabolic effect of genistein in osteoblastic MC3T3-E1 cells.
International Journal of Molecular Medicine, 5:515-520 (2000).
288. Masayoshi Yamaguchi, Emi Sugimoto:
Stimulatory effect of genistein and daidzein on protein synthesis in osteoblastic MC3T3-E1 Cells: Activation of aminoacyl-tRNA synthetase.
Molecular and Cellular Biochemistry, 214:97-102 (2000).
289. Ying Hua Gao, Masayoshi Yamaguchi:
Suppressive effect of genistein on rat bone osteoclasts: Involvement of protein kinase inhibition and protein tyrosine phosphatase activation.
International Journal of Molecular Medicine, 5:261-267 (2000).
290. Rie Ono, Zhong Jie Ma, Masayoshi Yamaguchi:
Prolonged intake of fermented soybean diets with supplementation of isoflavone and saponin prevents bone loss in ovariectomized rats.
Journal of Health Science, 46:70-74 (2000).
291. Zhong Jie Ma, Shigefumi Shimanuki, Aki Igarashi, Yoshiyuki Kawasaki, Masayoshi Yamaguchi:
Preventive effect of dietary fermented soybean on bone loss in ovariectomized rats: Enhancement with isoflavone and zinc supplementation.
Journal of Health Science, 46:263-268 (2000).
292. Zhong Jie Ma, Aki Igarashi, Masaru Inagaki, Fumio Mitsugi, Masayoshi Yamaguchi:
Supplemental intake of isoflavones and zinc-containing mineral mixture enhances bone components in the femoral tissue of rats with increasing age.
Journal of Health Science, 46:363-369 (2000).
293. Zhong Jie Ma, Masayoshi Yamaguchi:
Synergistic effect of genistein and casein phosphopeptides on bone components in young and elderly female rats.
Journal of Health Science, 46:474-479 (2000).
294. Yoshinori Tsukamoto, Hideyuki Ichise, Masayoshi Yamaguchi:
Prolonged intake of dietary fermented soybeans (natto) with the reinforced

vitamin K₂ (menaquinone-7) enhances circulating γ -carboxylated osteocalcin concentration in normal individuals.

Journal of Health Science, 46:317-321 (2000).

295. Masayoshi Yamaguchi, Hiroyuki Kakuda, Ying Hua Gao, Yoshinori Tsukamoto:
Prolonged intake of fermented soybean (natto) diets containing vitamin K₂
(menaquinone-7) prevents bone loss in ovariectomized rats.

Journal of Bone and Mineral Metabolism, 18:71-76 (2000).

296. Yoshinori Tsukamoto, Hideyuki Ichise, Hiroyuki Kakuda,
Masayoshi Yamaguchi:
Intake of fermented soybean (natto) increases circulating vitamin K₂
(menaquinone-7) and γ -carboxylated osteocalcin concentration in normal
individuals.

Journal of Bone and Mineral Metabolism, 18:216-222 (2000).

297. Zhong Jie Ma, Masayoshi Yamaguchi:
Alteration in bone components with increasing age of newborn rats: role of zinc
in bone growth.

Journal of Bone and Mineral Metabolism, 18:264-270 (2000).

298. Masayoshi Yamaguchi, Ying Hua Gao, Zhong Jie Ma:
Synergistic effect of genistein and zinc on bone components in the
femoral-metaphyseal tissues of female rats.

Journal of Bone and Mineral Metabolism, 18:77-83 (2000).

299. Shyuichiroh Inagaki, Masayoshi Yamaguchi:
Suppressive role of protein kinase activity with proliferation of cloned rat
hepatoma cells (H4-II-E).

Journal of Cellular Biochemistry, 81 (S 36) : 12-18 (2001).

300. Shyuichiroh Inagaki, Masayoshi Yamaguchi:
Regulatory role of endogenous regucalcin in the enhancement of nuclear
deoxyribonucleic acid synthesis with proliferation of cloned rat hepatoma cells
(H4-II-E).

Journal of Cellular Biochemistry, 82 : 704-711 (2001).

301. Yoshiko Morooka, Masayoshi Yamaguchi:

- Suppressive role of endogenous regucalcin in the regulation of protein phosphatase activity in rat renal cortex cytosol.
Journal of Cellular Biochemistry, 81 : 639-646 (2001).
302. Yoshiko Morooka, Masayoshi Yamaguchi:
Inhibitory effect of regucalcin on protein phosphatase activity in the nuclei of rat kidney cortex.
Journal of Cellular Biochemistry, 83 : 111-120 (2001).
303. Hiroko Takahashi, Masayoshi Yamaguchi:
Activatory effect of regucalcin on GTPase activity in rat liver plasma membranes.
Molecular and Cellular Biochemistry, 224 : 117-122 (2001).
304. Hiroyuki Misawa, Masayoshi Yamaguchi:
Involvement of nuclear factor-1 (NF1) binding motif in the regucalcin gene expression of rat kidney cortex: The expression is suppressed by cisplatin administration.
Molecular and Cellular Biochemistry, 219: 29-37 (2001).
305. Toshie Hamano, Masayoshi Yamaguchi:
Inhibitory role of regucalcin in the regulation of Ca²⁺-dependent protein kinase activity in rat brain neurons.
Journal of the Neurological Sciences, 183: 33-38 (2001).
306. Yasuko Hanahisa, Masayoshi Yamaguchi:
Decrease in Ca²⁺-ATPase activity in the brain plasma membranes of rats with increasing age : Involvement of brain calcium accumulation.
International Journal of Molecular Medicine, 7: 407-411 (2001).
307. Hiroyuki Misawa, Masayoshi Yamaguchi:
Molecular cloning and sequencing of the cDNA coding for a novel regucalcin gene promoter region-related protein in rat, mouse and human liver.
International Journal of Molecular Medicine, 8: 513-520 (2001).
308. Yoshinori Tsurusaki, Masayoshi Yamaguchi:
Suppressive effect of endogenous regucalcin on guanosine triphosphatase activity in rat liver nucleus.

- Biological & Pharmaceutical Bulletin*, 24: 958-961 (2001).
309. Zhong Jie Ma, Masayoshi Yamaguchi:
Role of endogenous zinc in the enhancement of bone protein synthesis associated with bone growth of newborn rats.
Journal of Bone and Mineral Metabolism, 19: 38-44 (2001).
310. Zhong Jie Ma, Masayoshi Yamaguchi:
Stimulatory effect of zinc on deoxyribonucleic acid synthesis in bone growth of newborn rats: Enhancement with zinc and insulin-like growth factor-I.
Calcified Tissue International, 69: 158-163 (2001).
311. Zhong Jie Ma, Masayoshi Yamaguchi:
Stimulatory effect of zinc on insulin-like growth factor-I and transforming growth factor- β 1 production with bone growth of newborn rats.
International Journal of Molecular Medicine, 8:623-628 (2001).
312. Zhong Jie Ma, Masayoshi Yamaguchi:
Stimulatory effect of zinc and growth factor on bone protein component in newborn rats: Enhancement with zinc and insulin-like growth factor-I.
International Journal of Molecular Medicine, 7:73-78 (2001).
313. Aki Igarashi, Masayoshi Yamaguchi:
Increase in bone growth factors with healing rat fractures: The enhancing effect of zinc.
International Journal of Molecular Medicine, 8:433-438 (2001).
314. Masayoshi Yamaguchi, Emi Sugimoto, Sachiko Hachiya:
Stimulatory effect of menaquinone-7 (vitamin K₂) on osteoblastic bone formation in vitro.
Molecular and Cellular Biochemistry, 223: 131-137 (2001).
315. Zhong Jie Ma, Aki Igarashi, Konosuke Yamakawa, Masayoshi Yamaguchi:
Enhancing effect of zinc and vitamin K₂ (menaquinone-7) on bone components in the femoral tissue of female elderly rats.
Journal of Health Science, 47: 40-45 (2001).
316. Masayoshi Yamaguchi, Rie Ono, Zhong Jie Ma:
Prolonged intake of isoflavone- and saponin-containing soybean extract (*Nijiru*)

supplement enhances circulating γ -carboxylated osteocalcin concentration in healthy individuals.

Journal of Health Science, 47: 579-582 (2001).

317. Masayoshi Yamaguchi, Sachiko Hachiya, Seiichi Hiratsuka, Toshihiro Suzuki:
Effect of marine algae extract on bone calcification in the femoral-metaphyseal tissues of rats: Anabolic effect of *Sargassum horneri*.
Journal of Health Science, 47: 533-538 (2001).
318. Masayoshi Yamaguchi, Zhong Jie Ma:
Effect of polyphenols on calcium content and alkaline phosphatase activity in rat femoral tissues in vitro.
Biological & Pharmaceutical Bulletin, 24: 1437-1439 (2001).
319. Masayoshi Yamaguchi, Zhong Jie Ma:
Inhibitory effect of menaquinone-7 (vitamin K₂) on osteoclast-like cell formation and osteoclastic bone resorption in rat bone tissues in vitro.
Molecular and Cellular Biochemistry, 228: 39-47 (2001).
320. Hiroyuki Misawa, Masayoshi Yamaguchi:
Identification of transcription factor in the promoter region of rat regucalcin gene: Binding of nuclear factor I-A1 to TTGGC motif.
Journal of Cellular Biochemistry, 84: 795-802 (2002).
321. Yoshinori Tsurusaki, Masayoshi Yamaguchi:
Suppressive role of endogenous regucalcin in the enhancement of deoxyribonucleic acid synthesis activity in the nucleus of regenerating rat liver.
Journal of Cellular Biochemistry, 85: 516-522 (2002).
322. Hiroyuki Misawa, Shyuichiroh Inagaki, Masayoshi Yamaguchi:
Suppression of cell proliferation and deoxyribonucleic acid synthesis in cloned rat hepatoma H4-II-E cells overexpressing regucalcin.
Journal of Cellular Biochemistry, 84: 143-149 (2002).
323. Yoshiko Morooka, Masayoshi Yamaguchi:
Endogenous regucalcin suppresses the enhancement of protein phosphatase activity in the cytosol and nucleus of kidney cortex in calcium-administered rats.
Journal of Cellular Biochemistry, 85: 553-560 (2002).

324. Masayoshi Yamaguchi, Rie Nakajima:
Role of regucalcin as an activator of sarcoplasmic reticulum Ca^{2+} -ATPase activity in rat heart muscle.
Journal of Cellular Biochemistry, 86: 184-193 (2002).
325. Yoshiko Morooka, Masayoshi Yamaguchi:
Suppressive effect of endogenous regucalcin on deoxyribonucleic acid synthesis in the nuclei of rat renal cortex.
Molecular and Cellular Biochemistry, 229: 157-162 (2002).
326. Masayoshi Yamaguchi, Zhong Jie Ma, Takashi Fusimi:
Anabolic effect of phosphogenistein and phosphodaidzein on bone components in rat femoral-metaphyseal tissues in vitro.
Journal of Bone and Mineral Metabolism, 20: 148-155 (2002).
327. Aki Igarashi, Masayoshi Yamaguchi:
Characterization of the increase in bone 66 kDa protein component with healing rat fractures: Stimulatory effect of zinc.
International Journal of Molecular Medicine, 9: 503-508 (2002).
328. Satoshi Uchiyama, Masayoshi Yamaguchi:
Stimulatory effect of *Sargassum horneri* extract on bone formation in rat femoral-diaphyseal and -metaphyseal tissues in vitro.
Journal of Health Science, 48: 148-153 (2002).
329. Satoshi Uchiyama, Masayoshi Yamaguchi:
Inhibitory effect of marine alga *Sargassum horneri* extract on bone resorption in tissue culture in vitro.
Journal of Health Sciences, 48: 154-160 (2002).
330. Hiroyuki Misawa, Masayoshi Yamaguchi:
Identification of transcription factor in the promoter region of rat regucalcin gene: binding of nuclear factor I-A1 to TTGGC motif.
Journal of Cellular Biochemistry, 84: 795-802 (2002).
331. Hiroyuki Misawa, Masayoshi Yamaguchi:
Gene expression for a novel protein RGPR-p117 in various species: The stimulation by intracellular signaling factors.

- Journal of Cellular Biochemistry*, 87: 188-193 (2002).
332. Yoshinori Tsurusaki, Masayoshi Yamaguchi:
Suppressive role of endogenous regucalcin in the enhancement of deoxyribonucleic acid synthesis activity in the nucleus of regenerating rat liver.
Journal of Cellular Biochemistry, 85: 516-522 (2002).
333. Yoshinori Tsurusaki, Masayoshi Yamaguchi:
Role of endogenous regucalcin in nuclear regulation of regenerating rat liver: Suppression of the enhanced ribonucleic acid synthesis activity.
Journal of Cellular Biochemistry, 87: 450-457 (2002).
334. Hiroyuki Misawa, Shyuichiroh Inagaki, Masayoshi Yamaguchi:
Suppression of cell proliferation and deoxyribonucleic acid synthesis in cloned rat hepatoma H4-II-E cells overexpression regucalcin.
Journal of Cellular Biochemistry, 84: 143-149 (2002).
335. Yoshiko Morooka, Masayoshi Yamaguchi:
Endogenous regucalcin suppresses the enhancement of protein phosphatase activity in the cytosol and nucleus of kidney cortex in calcium-administered rats.
Journal of Cellular Biochemistry, 85: 553-560 (2002).
336. Masayoshi Yamaguchi, Rie Nakajima:
Role of regucalcin as an activator of sarcoplasmic reticulum Ca^{2+} -ATPase in rat heart muscle.
Journal of Cellular Biochemistry, 86: 184-193 (2002).
337. Masayoshi Yamaguchi, Yoshiko Morooka, Hiroyuki Misawa, Yoshinori Tsurusaki, Rie Nakajima:
Role of endogenous regucalcin in transgenic rats: Suppression of kidney cortex cytosolic protein phosphatase activity and enhancement of heart muscle microsomal Ca^{2+} -ATPase activity.
Journal of Cellular Biochemistry, 86: 520-529 (2002).
338. Yoshiko Morooka, Masayoshi Yamaguchi:
Suppressive effect of endogenous regucalcin on deoxyribonucleic acid synthesis in the nuclei of rat renal cortex.
Molecular and Cellular Biochemistry, 229: 157-162 (2002).

339. Masayoshi Yamaguchi, Yoshinori Tsurusaki, Hiroyuki Misawa, Shyuichiroh Inagaki, Zhong Jie Ma, Hiroko Takahashi:
Potential role of regucalcin as a specific biochemical marker of chronic liver injury with carbon tetrachloride administration in rats.
Molecular and Cellular Biochemistry, 241: 61-67 (2002).
340. Zhong Jie Ma, Masayoshi Yamaguchi:
Suppressive role of endogenous regucalcin in the regulation of nitric oxide synthase activity in heart muscle cytosol of normal and regucalcin transgenic rats.
International Journal of Molecular Medicine, 10: 761-766 (2002).
341. Masayoshi Yamaguchi, Hiroyuki Misawa, Satoshi Uchiyama, Yoshiko Morooka, Yoshinori Tsurusaki:
Role of endogenous regucalcin in bone metabolism: bone loss is induced in regucalcin transgenic rats.
International Journal of Molecular Medicine, 10: 377-383 (2002).
342. Aki Igarashi, Masayoshi Yamaguchi:
Characterization of the increase in bone 66 kDa protein component with healing rat fractures: Stimulatory effect of zinc.
International Journal of Molecular Medicine, 9: 503-508 (2002).
343. Masayoshi Yamaguchi, Satoshi Uchiyama, Yoshinori Tsurusaki:
Stimulatory effect of menaquinone-7 on bone formation in elderly female rat femoral tissues in vitro: Prevention of bone deterioration with aging.
International Journal of Molecular Medicine, 10: 729-733 (2002).
344. Masayoshi Yamaguchi, Zhong Jie Ma, Takashi Fushimi:
Anabolic effect of phosphogenistein and phosphodaidzein on bone components in rat femoral-metaphyseal tissues in vitro.
Journal of Bone and Mineral Metabolism, 20: 148-155 (2002).
345. Satoshi Uchiyama, Masayoshi Yamaguchi:
Stimulatory effect of *sargassum horneri* extract on bone formation in rat femoral- diaphyseal and –metaphyseal tissues in vitro.
Journal of Health Science, 48: 148-153 (2002).

346. Satoshi Uchiyama, Masayoshi Yamaguchi:
Inhibitory effect of marine alga *sargassum horneri* extract on bone resorption in tissue culture in vitro.
Journal of Health Science, 48: 154-160 (2002).
347. Satoshi Uchiyama, Masayoshi Yamaguchi:
Anabolic effect of marine alga *sargassum horneri* extract on bone components in the femoral-diaphyseal and –metaphyseal tissues of young and aged rats in vitro.
Journal of Health Science , 48: 325-330 (2002).
348. Satoshi Uchiyama, Masayoshi Yamaguchi:
Anabolic effect of marine alga *sargassum horneri* extract on bone components in the femoral-diaphyseal and –metaphyseal tissues of young and aged rats in vitro.
Journal of Health Science , 48: 325-330 (2002).
349. Yoshinori Tsurusaki, Masayoshi Yamaguchi:
Overexpression of regucalcin modulates tumor-related gene expression in cloned rat hepatoma H4-II-E cells.
Journal of Cellular Biochemistry, 90: 619-626 (2003).
350. Takako Izumi, Yoshinori Tsurusaki, Masayoshi Yamaguchi:
Suppressive effect of endogenous regucalcin on nitric oxide synthase activity in cloned rat hepatoma H4-II-E cells overexpressing regucalcin.
Journal of Cellular Biochemistry, 89: 800-807 (2003).
351. Masayoshi Yamaguchi, Hiroko Takahashi, Yoshinori Tsurusaki:
Suppressive role of endogenous regucalcin in the enhancement of nitric oxide synthase activity in liver cytosol of normal and regucalcin transgenic rats.
Journal of Cellular Biochemistry, 88: 1226-1234 (2003).
352. Masayoshi Yamaguchi, Hiroyuki Misawa, Zhong Jie Ma:
Novel protein RGPR-p117: The gene expression in physiologic state and the binding activity to regucalcin gene promoter region in rat liver.
Journal of Cellular Biochemistry, 88: 1092-1100 (2003).
353. Yoshinori Tsurusaki, Masayoshi Yamaguchi:

- Role of endogenous regucalcin in transgenic rats: Suppression of protein tyrosine phosphatase and ribonucleic acid synthesis activities in liver nucleus.
International Journal of Molecular Medicine, 12: 207-211 (2003).
354. Zhong Jie Ma, Masayoshi Yamaguchi:
Regulatory effect of regucalcin on nitric oxide synthase activity in rat kidney cortex: Role of endogenous regucalcin in transgenic rats.
International Journal of Molecular Medicine, 12: 201-206 (2003).
355. Minako Tobisawa, Masayoshi Yamaguchi:
Inhibitory role of regucalcin in the regulation of nitric oxide synthase activity in rat brain cytosol: involvement of aging.
Journal of the Neurological Sciences, 209: 47-54 (2003).
356. Minako Tobisawa, Masayoshi Yamaguchi:
Suppressive effect of endogenous regucalcin on protein tyrosine phosphatase activity in the nucleus of rat brain: Attenuation with increasing age.
International Journal of Molecular Medicine, 11: 205-210 (2003).
357. Minako Tobisawa, Masayoshi Yamaguchi:
Decrease in regucalcin level and enhancement of protein tyrosine phosphatase activity in rat brain microsomes with increasing age.
International Journal of Molecular Medicine, 12: 577-580 (2003).
358. Minako Tobisawa, Masayoshi Yamaguchi:
Role of endogenous regucalcin in brain function: Suppression of cytosolic nitric oxide synthase and nuclear protein tyrosine phosphatase activities in brain tissue of transgenic rats.
International Journal of Molecular Medicine, 12: 581-585 (2003).
359. Masayoshi Yamaguchi, Aki Igarashi, Hiroyuki Misawa, Yoshinori Tsurusaki:
Enhancement of albumin expression in bone tissues with healing rat fractures.
Journal of Cellular Biochemistry, 89: 356-363 (2003).
360. Aki Igarashi, Masayoshi Yamaguchi:
Great increase in bone 66 kDa protein and osteocalcin at later stages with healing rat fractures: Effect of zinc treatment.
International Journal of Molecular Medicine, 11: 223-228 (2003).

361. Masayoshi Yamaguchi, Satoshi Uchiyama:
Preventive effect of zinc acexamate administration in streptozotocin-diabetic rats: Restoration of bone loss.
International Journal of Molecular Medicine, 12: 755-761 (2003).
362. Satoshi Uchiyama, Masayoshi Yamaguchi:
Alteration in serum and bone component findings induced in streptozotocin-diabetic rats is restored by zinc acexamate.
International Journal of Molecular Medicine, 12: 949-954 (2003).
363. Masayoshi Yamaguchi, Satoshi Uchiyama, Yoshinori Tsukamoto:
Inhibitory effect of menaquinone-7 (vitamin K₂) on the bone-resorbing factors-induced bone resorption in elderly female rat femoral tissues in vitro.
Molecular and Cellular Biochemistry, 245: 115-120 (2003).
364. Masayoshi Yamaguchi, Satoshi Uchiyama:
Effect of carotenoid on calcium content and alkaline phosphase activity in rat femoral tissues in vitro: The unique anabolic effect of β -cryptoxanthin.
Biological & Pharmaceutical Bulletin, 26: 1188-1191 (2003).
365. Satoshi Uchiyama, Masayoshi Yamaguchi:
Preventive effect of marine alga *sargassum horneri* extract on bone loss in streptozotocin-diabetic rats in vivo.
Journal of Health Science, 49: 149-155 (2003).
366. Masayoshi Yamaguchi, Zhong Jie Ma, Toshihiro Suzuki:
Anabolic effect of wasabi leafstalk (*Wasabia Japonica* MATSUM.) extract on bone components in the femoral-diaphyseal and –metaphyseal tissues of aged female rats in vitro and in vivo.
Journal of Health Science, 49: 123-128 (2003).
367. Toshihiro Suzuki, Masayoshi Yamaguchi:
Stimulatory effect of wasabi leafstalk extract (*Wasabi japonica* MATSUM.) on bone calcification: Interaction with bone anabolic factors in mouse calvaria tissue in vitro.
Food Science and Tecnology Research, 9: 87-90 (2003).
368. Takako Izumi, Masayoshi Yamaguchi:

- Overexpression of regucalcin suppresses cell death in cloned rat hepatoma H4-II-E cells induced by tumor necrosis factor- α or thapsigargin.
Journal of Cellular Biochemistry, 92: 296-306 (2004).
369. Takako Izumi, Masayoshi Yamaguchi:
Overexpression of regucalcin suppresses cell death and apoptosis in cloned rat hepatoma H4-II-E cells induced by lipopolysaccharide, PD98059, dibucaine, or Bay K 8644.
Journal of Cellular Biochemistry, 93: 598-608 (2004).
370. Yuko Fukaya, Masayoshi Yamaguchi:
Regucalcin increases superoxide dismutase activity in rat liver cytosol.
Biological & Pharmaceutical Bulletin, 27: 1444-1446 (2004).
371. Yoshinori Tsurusaki, Masayoshi Yamaguchi:
Role of regucalcin in liver nuclear function: Binding of regucalcin to nuclear protein or DNA and modulation of tumor-related gene expression.
International Journal of Molecular Medicine, 14: 277-281 (2004).
372. Yuko Fukaya, Masayoshi Yamaguchi:
Characterization of protein tyrosine phosphatase activity in rat liver microsomes: Suppressive effect of endogenous regucalcin in transgenic rats.
International Journal of Molecular Medicine, 14: 427-432 (2004).
373. Emiko Ichikawa, Masayoshi Yamaguchi:
Regucalcin increases superoxide dismutase activity in the heart cytosol of normal and regucalcin transgenic rats.
International Journal of Molecular Medicine, 14: 691-695 (2004).
374. Masayoshi Yamaguchi, Aki Igarashi, Satoshi Uchiyama, Natsumi Sawada:
Hyperlipidemia is induced in regucalcin transgenic rats with increasing age.
International Journal of Molecular Medicine, 14: 647-651 (2004).
375. Emiko Ichikawa, Yoshinori Tsurusaki, Masayoshi Yamaguchi:
Suppressive effect of regucalcin on protein phosphatase activity in the heart cytosol of normal and regucalcin transgenic rats.
International Journal of Molecular Medicine, 13: 289-293 (2004).
376. Masayoshi Yamaguchi, Natsumi Sawada, Satoshi Uchiyama, Hiroyuki Misawa,

- Zhong Jie Ma:
Expression of regucalcin in rat bone marrow cells: Involvement of osteoclastic bone resorption in regucalcin transgenic rats.
International Journal of Molecular Medicine, 13: 437-443 (2004).
377. Satoshi Uchiyama, Masayoshi Yamaguchi:
Bone loss in regucalcin transgenic rats: Enhancement of osteoclastic cell formation from bone marrow of rats with increasing age.
International Journal of Molecular Medicine, 14: 451-455 (2004).
378. Koichi Ishida, Natsumi Sawada, Masayoshi Yamaguchi:
Expression of albumin in bone tissues and osteoblastic cells: Involvement of hormonal regulation.
International Journal of Molecular Medicine, 14: 891-895 (2004).
379. Koichi Ishida, Masayoshi Yamaguchi:
Role of albumin in osteoblastic cells: Enhancement of cell proliferation and suppression of alkaline phosphatase activity.
International Journal of Molecular Medicine, 14: 1077-1081 (2004).
380. Masayoshi Yamaguchi, Satoshi Uchiyama:
Receptor activator of NF- κ B ligand-stimulated osteoclastogenesis in mouse marrow culture is suppressed by zinc *in vitro*.
International Journal of Molecular Medicine, 14: 81-85 (2004).
381. Masayoshi Yamaguchi, Satoshi Uchiyama:
 β -Cryptoxanthin stimulates bone formation and inhibits bone resorption in tissue culture *in vitro*.
Molecular and Cellular Biochemistry, 258: 137-144 (2004).
382. Satoshi Uchiyama, Masayoshi Yamaguchi:
Inhibitory effect of β -cryptoxanthin on osteoclast-like cell formation in mouse marrow cultures.
Biochemical Pharmacology, 67: 1297-1305 (2004).
383. Satoshi Uchiyama, Takashi Sumida, Masayoshi Yamaguchi:
Oral administration of β -cryptoxanthin induces anabolic effects on bone components in the femoral tissues of rats *in vivo*.

- Biological & Pharmaceutical Bulletin*, 27: 232-235 (2004).
384. Satoshi Uchiyama, Takashi Sumida, Masayoshi Yamaguchi:
Anabolic effect of β -cryptoxanthin on bone components in the femoral tissues of aged rats *in vivo* and *in vitro*.
Journal of Health Science, 50: 491-496 (2004).
385. Masayoshi Yamaguchi, Aki Igarashi, Satoshi Uchiyama, Seiichi Morita,
Kuniaki Sugawara, Takashi Sumida:
Prolonged intake of juice (*Citrus Unshiu*) reinforced with β -cryptoxanthin has an effect on circulating bone biochemical markers in normal individuals.
Journal of Health Science, 50: 619-624 (2004).
386. Masayoshi Yamaguchi, Aki Igarashi, Satoshi Uchiyama:
Bioavailability of zinc yeast in rats: stimulatory effect on bone calcification *in vivo*.
Journal of Health Science, 50: 75-81(2004).
387. Satoshi Uchiyama, Masayuki Hashizume, Yoshinori Hokari, Taeko Nakagawa,
Aki Igarashi, Masayoshi Yamaguchi:
Characterization of active component in stimulating bone calcification *in vitro*.
Journal of Health Science, 50: 634-639 (2004).
388. Toshihiro Suzuki, Masayoshi Yamaguchi:
Purification of active component in wasabi leafstalk (*Wasabia japonica* MATSUM.) extract in stimulating bone calcification *in vitro*.
Journal of Health Science, 50: 483-490 (2004).
389. Masayoshi Yamaguchi, Yuko Daimon:
Overexpression of regucalcin suppresses cell proliferation in cloned rat hepatoma H4-II-E cells: Involvement of intracellular signaling factors and cell cycle-related genes.
Journal of Cellular Biochemistry, 95: 1169-1177 (2005).
390. S. Tuyoshi Ohnishi, Tomoko Ohnishi, Kozo Nishino, Yoshinori Tsurusaki,
Masayoshi Yamaguchi:
Growth inhibition of cultured human liver carcinoma cells by Ki-energy (life-energy): Scientific evidence for Ki-effects on cancer cells.

- Evidence-Based Complementary and Alternative Medicine*, 2: 387-393 (2005).
391. Yuko Fukaya, Masayoshi Yamaguchi M:
Overexpression of regucalcin suppresses cell death and apoptosis in cloned rat hepatoma H4-II-E cells induced by insulin or insulin-like growth factor-I.
Journal of Cellular Biochemistry, 96: 145-154 (2005).
392. Yuko Fukaya, Masayoshi Yamaguchi:
Overexpression of regucalcin suppresses apoptotic cell death in the cloned rat Hepatoma H4-II-E cells induced by a naturally occurring isothiocyanate sulforaphane.
International Journal of Molecular Medicine, 15: 853-857 (2005).
393. Taeko Nakagawa, Masayoshi Yamaguchi:
Hormonal regulation on regucalcin mRNA expression in cloned normal rat kidney proximal tubular epithelial NRK52E cells.
Journal of Cellular Biochemistry, 95: 589-597 (2005).
394. Taeko Nakagawa, Natumi Sawada, Masayoshi Yamaguchi:
Overexpression of regucalcin suppresses cell proliferation of cloned normal rat kidney proximal tubular epithelial NRK52E cells.
International Journal of Molecular Medicine, 16: 637-643 (2005).
395. Taeko Nakagawa, Masayoshi Yamaguchi:
Overexpression of regucalcin suppresses apoptotic cell death in cloned normal rat kidney proximal tubular epithelial NRK52E cells: change in apoptosis-related gene expression.
Journal of Cellular Biochemistry, 96: 1274-1285 (2005).
396. Masayoshi Yamaguchi, Satoshi Uchiyama:
Regucalcin stimulates osteoclast-like cell formation in mouse marrow cultures.
Journal of Cellular Biochemistry, 94: 794-803 (2005).
397. Natsumi Sawada, Masayoshi Yamaguchi:
A novel regucalcin gene promoter region-related protein: Comparison of nucleotide and amino acid sequences in vertebrate species.
International Journal of Molecular Medicine, 15: 97-104 (2005).
398. Natumi Sawada, Taeko Nakagawa, Tomiyasu Murata, Masayoshi Yamaguchi:

- Nuclear localization of a novel protein, RGPR-p117, in cloned normal rat kidney proximal tubular epithelial cells.
International Journal of Molecular Medicine, 16: 809-814 (2005).
399. Natsumi Sawada, Masayoshi Yamaguchi:
Overexpression of RGPR-p117 enhances regucalcin gene expression in cloned normal rat kidney proximal tubular epithelial cells.
International Journal of Molecular Medicine, 16: 1049-1055 (2005).
400. Masayoshi Yamaguchi, Mayumi Kobayashi, Satoshi Uchiyama:
Suppressive effect of regucalcin on cell differentiation and mineralization in osteoblastic MC3T3-E1 cells.
Journal of Cellular Biochemistry, 96: 543-554 (2005).
401. Koichi Ishida, Masayoshi Yamaguchi:
Albumin regulates Runx2 and $\alpha 1(I)$ collagen mRNA expression in osteoblastic cells: Comparison with insulin-like growth factor-I.
International Journal of Molecular Medicine, 16: 689-694 (2005).
402. Satoshi Uchiyama, Masayoshi Yamaguchi:
 β -Cryptoxanthin stimulates cell proliferation and transcriptional activity in osteoblastic MC3T3-E1 cells.
International Journal of Molecular Medicine, 15: 675-681 (2005).
403. Satoshi Uchiyama, Masayoshi Yamaguchi:
 β -Cryptoxanthin stimulates cell differentiation and mineralization in osteoblastic MC3T3-E1 cells.
Journal of Cellular Biochemistry, 95: 1224-1234 (2005).
404. Satoshi Uchiyama, Masayoshi Yamaguchi:
Oral administration of β -cryptoxanthin prevents bone loss in streptozotocin-diabetic rats in vivo.
Biological & Pharmaceutical Bulletin, 28: 1766-1769 (2005).
405. Satoshi Uchiyama, Kaori Ishiyama, Ken Hashimoto, Masayoshi Yamaguchi:
Synergistic effect of β -cryptoxanthin and zinc sulfate on the bone component in rat femoral tissues in vitro: The unique anabolic effect with zinc.
Biological & Pharmaceutical Bulletin, 28: 2142-2145 (2005).

406. Masayoshi Yamaguchi, Masayo Fukagawa:
Role of zinc in regulation of protein tyrosine phosphatase activity in osteoblastic MC3T3-E1 cells: Zinc modulation of insulin-like growth factor-I's effect.
Calcified Tissue International, 76: 32-38 (2005).
407. Masayoshi Yamaguchi, Aki Igarashi, Masakazu Sakai, Hideyuki Degawa, Yoichi Ozawa:
Prolonged intake of dietary fermented isoflavone-rich soybean reinforced with zinc affects circulating bone biochemical markers in aged individuals.
Journal of Health Science, 51: 191-196 (2005).
408. Masayoshi Yamaguchi, Aki Igarashi, Seiichi Morita, Takashi Sumida, Kuniaki Sugawara:
Relationship between serum β -cryptoxanthin and bone metabolic markers in Healthy individuals with the intake of juice (*Citrus unshiu*) containing β -cryptoxanthin.
Journal of Health Science, 51: 738-743 (2005).
409. Ying Ling Lai, Masayoshi Yamaguchi:
Effect of copper on bone component in the femoral tissues of rats: Anabolic effect of zinc is weakened by copper.
Biological & Pharmaceutical Bulletin, 28: 2296-2301 (2005).
410. Taeko Nakagawa, Masayoshi Yamaguchi:
Overexpression of regucalcin enhances its nuclear localization and suppresses L-type Ca^{2+} channel and calcium-sensing receptor mRNA expression in cloned normal rat kidney proximal tubular epithelial NRK52E cells.
Journal of Cellular Biochemistry, 99:1064-1077(2006).
411. Chikage Nakashima, Masayoshi Yamaguchi:
Overexpression of regucalcin enhances glucose utilization and lipid production in cloned rat hepatoma H4-II-E cells: Involvement of insulin resistance.
Journal of Cellular Biochemistry, 99:1582-1592 (2006).
412. Tania Akhter, Natsumi Sawada, Masayoshi Yamaguchi:
Regucalcin increases Ca^{2+} -ATPase activity in the heart mitochondria of normal and regucalcin transgenic rats.

- International Journal of Molecular Medicine*, 18:171-176(2006).
413. Yasuko Otomo, Masayoshi Yamaguchi:
Regulatory effect of exogenous regucalcin on cell function is osteoblastic MC3T3-E1 cells: Involvement of intracellular signaling factor.
International Journal of Molecular Medicine, 18:321-327(2006).
414. Natsumi Sawada, Masayoshi Yamaguchi:
Involvement of nuclear factor I-A1 in the regulation of regucalcin gene promoter activity in cloned normal rat kidney proximal tubular epithelial cells.
International Journal of Molecular Medicine, 18:665-671(2006).
415. Natsumi Sawada, Masayoshi Yamaguchi:
Overexpression of RGPR-p117 enhances regucalcin gene promoter activity in cloned normal rat kidney proximal tubular epithelial cells: Involvement of TTGGC motif.
Journal of Cellular Biochemistry, 99:589-597(2006).
416. Satoshi Uchiyama, Masayoshi Yamaguchi:
 β -Cryptoxanthin stimulates apoptotic cell death and suppresses cell function in osteoblastic cells: Change in their related gene expression.
Journal of Cellular Biochemistry, 98:1185-1195(2006).
417. Satoshi Uchiyama, Masayoshi Yamaguchi:
Oral administration of β -cryptoxanthin prevents bone loss in ovariectomized rats.
International Journal of Molecular Medicine, 17:15-20(2006).
418. Masayoshi Yamaguchi, Aki Igarashi, Satoshi Uchiyama, Kuniaki Sugawara, Takashi Sumida, Seiichi Morita, Hiroshi Ogawa, Masahito Nishitani, Yositaka Kajimoto:
Effect of β -cryptoxanthin on circulating bone metabolic markers: Intake of juice (*Citrus unshiu*) supplemented with β -cryptoxanthin has an effect in menopausal women.
Journal of Health Science, 52:758-768(2006).
419. Masayoshi Yamaguchi, Satoshi Uchiyama, Kaori Ishiyama, Ken Hashimoto:
Oral administration in combination with with zinc enhances β

- cryptoxanthin-induced anabolic effects on bone components in the femoral tissues of rats *in vivo*.
Biological & Pharmaceutical Bulletin, 29:371-374(2006).
420. Ying Ling Lai, Masayoshi Yamaguchi:
Phytocomponent *p*-hydroxycinnamic acid stimulates bone formation and inhibits bone resorption in rat femoral tissues *in vitro*.
Molecular and Cellular Biochemistry, 292:45-52(2006).
421. Ying Ling Lai, Masayoshi Yamaguchi:
Oral administration of phytocomponent *p*-hydroxycinnamic acid has anabolic effects on bone calcification in femoral tissues of rats *in vivo*.
Journal of Health Science, 52:308-312(2006).
422. Satoshi Uchiyama, Mamoru Kimura, Yasunobu Masuda,
Masayoshi Yamaguchi:
Oral administration of *Cal K₂* containing menaquinone-4 (Vitamin K₂) enhances serum γ -carboxylated osteocalcin and biochemical components in the femoral tissues of rats.
Journal of Health Science, 52:825-830(2006).
423. Masayoshi Yamaguchi, Reiko Hamamoto, Satoshi Uchiyama, Kaori Ishiyama,
Ken Hashimoto:
Anabolic effects of bee pollen *Cistus ladaniferus* extract on bone components in the femoral-diaphyseal and -metaphyseal tissues of rats *in vitro* and *in vivo*.
Journal of Health Science, 52:43-49(2006).
424. Reiko Hamamoto, Kaori Ishiyama, Masayoshi Yamaguchi:
Inhibitory effects of bee pollen *Cistus ladaniferus* extract on bone resorption in femoral tissues and osteoclast-like cell formation in bone marrow cells *in vitro*.
Journal of Health Science, 52:268-275(2006).
425. Reiko Hamamoto, Kaori Ishiyama, Ken Hashimoto, Masayoshi Yamaguchi:
Characterization of the active component in bee pollen *Cistus ladaniferus* extract in stimulating bone calcification and in inhibiting bone resorption *in vitro*.
Journal of Health Science, 52:607-612 (2006).

426. Saburo Hidaka, Yoshizo Okamoto, Satoshi Uchiyama, Akira Nakatsuma, Ken Hashimoto, S. Tuyoshi Ohnishi, Masayoshi Yamaguchi:
Royal jelly prevents osteoporosis in rats: Beneficial effects in ovariectomy model and in bone tissue culture model.
Evidence-Based Complementary and Alternative Medicine, 3:339-348 (2006).
427. Satoshi Uchiyama, Shigeo Kouno, Masayoshi Yamaguchi:
Oral administration of *Saldi tiera* containing various trace elements has anabolic effects on bone component in the femoral tissues of rats.
Journal of Health Science, 52:412-418 (2006).
428. Taeko Nakagawa, Masayoshi Yamaguchi:
Overexpression of regucalcin suppresses cell response for tumor necrosis factor- α or transforming growth factor- β 1 in cloned normal rat kidney proximal tubular epithelial NRK52E cells.
Journal of Cellular Biochemistry, 100:1178-1190 (2007).
429. Masayoshi Yamaguchi, Taeko Nakagawa:
Change in lipid components in the adipose and liver tissues of regucalcin transgenic rats with increasing age: Suppression of leptin and adiponectin gene expression.
International Journal of Molecular Medicine, 20: 323-328 (2007).
430. Chikage Nakashima, Masayoshi Yamaguchi:
Overexpression of regucalcin suppresses gene expression of insulin signaling-Related proteins in cloned rat hepatoma H4-II-E cells: Involvement of insulin resistance.
International Journal of Molecular Medicine, 20: 709-716 (2007).
431. Tania Akhter, Taeko Nakagawa, Akiko Kobayashi, Masayoshi Yamaguchi:
Suppression of regucalcin mRNA expression in the hearts of rats administered with free radical compound: The administration-induced death is accelerated in regucalcin transgenic rats.
International Journal of Molecular Medicine, 19:653-658 (2007).
432. Susumu Tomono, Natumi Sawada, Masayoshi Yamaguchi:
Overexpression of RGPR-p117 induces the decrease in protein and DNA

- contents in cloned normal rat kidney proximal tubular epithelial NRK52E cells.
International Journal of Molecular Medicine, 20:79-83 (2007).
433. Masayoshi Yamaguchi, Susumu Tomono, Taeko Nakagawa:
Overexpression of RGPR-p117 suppresses apoptotic cell death and its related gene expression in cloned normal rat kidney proximal tubular epithelial NRK52E cells.
International Journal of Molecular Medicine, 20: 565-571 (2007).
434. Satoshi Uchiyama, Masayoshi Yamaguchi:
Genistein and zinc synergistically enhance gene expression and mineralization in osteoblastic MC3T3-E1 cells.
International Journal of Molecular Medicine, 19:213-220 (2007).
435. Satoshi Uchiyama, Masayoshi Yamaguchi:
Genistein and zinc synergistically stimulate apoptotic cell death and suppress RANKL signaling-related gene expression in osteoblastic cells.
Journal of Cellular Biochemistry, 101:529-542 (2007).
436. Ying Ling Lai, Masayoshi Yamaguchi:
Phytochemical p-hydroxycinnamic acid inhibits osteoclast-like cell formation in mouse bone marrow cultures.
International Journal of Molecular Medicine, 19:123-128 (2007).
437. Masayoshi Yamaguchi, Satoshi Uchiyama, Ying Ling Lai:
Oral administration of phytochemical p-hydroxycinnamic acid has a preventive effect on bone loss in streptozotocin-induced diabetic rats.
International Journal of Molecular Medicine, 19:803-807 (2007).
438. S. Tuiyoshi Ohnishi, Kozo Nishino, Satoshi Uchiyama, Tomoko Ohnishi, Masayoshi Yamaguchi:
Ki-energy (life-energy) stimulates osteoblastic cells and inhibits the formation of osteoclast-like cells in bone cell culture models.
Evidence-Based Complementary and Alternative Medicine, 4: 225-232 (2007).
439. Masayoshi Yamaguchi, Reiko Hamamoto, Satoshi Uchiyama, Kaori Ishiyama:
Effects of flavonoid on calcium content in femoral tissue culture and parathyroid hormone-stimulated osteoclastogenesis in bone marrow culture in

- vitro.
Molecular and Cellular Biochemistry, 303: 83-88 (2007).
440. Masayoshi Yamaguchi, Reiko Hamamoto, Satoshi Uchiyama, Kaori Ishiyama, Ken Hashimoto:
Preventive effects of bee pollen *Cistus ladaniferus* extract on bone loss in streptozotocin-induced diabetic rats *in vivo*.
Journal of Health Science, 53:190-195 (2007).
441. Masayoshi Yamaguchi, Satoshi Uchiyama, Taeko Nakagawa:
Preventive effects of bee pollen *Cistus ladaniferus* extract on bone loss in ovariectomized rats *in vivo*.
Journal of Health Science, 53: 571-575 (2007).
442. Masayoshi Yamaguchi, Satoshi Uchiyama, Taeko Nakagawa:
Anabolic effects of bee pollen *Cistus ladaniferus* extract in osteoblastic MC3T3-E1 cells *in vitro*.
Journal of Health Science, 53: 625-629 (2007).
443. Masayoshi Yamaguchi, Satoshi Uchiyama, Shigeo Kouno:
Preventive effects of *Saldi tierra* containing various trace elements on bone loss in rats with diabetes or adjuvant arthritis.
Journal of Health Science, 53:202-208 (2007).
444. Taeko Nakagawa, Masayoshi Yamaguchi:
Nuclear localization of regucalcin is enhanced in culture with protein kinase C Activation in cloned normal rat kidney proximal tubular epithelial NRK52E cells.
International Journal of Molecular Medicine, 21:605-610 (2008).
445. Masayoshi Yamaguchi, Yusei Takakura, Taeko Nakagawa:
Regucalcin increases Ca^{2+} -ATPase activity in the mitochondria of brain tissues of normal and transgenic rats.
Journal of Cellular Biochemistry, 104: 795-804 (2008).
446. Masayoshi Yamaguchi, Yasuko Otomo, Satoshi Uchiyama, Taeko Nakagawa:
Hormonal regulation of regucalcin mRNA expression in osteoblastic MC3T3-E1 cells.

- International Journal of Molecular Medicine*, 21: 771-775 (2008).
447. Masayoshi Yamaguchi, Maya Goto, Satoshi Uchiyama, Taeko Nakagawa:
Effect of zinc on gene expression in osteoblastic MC3T3-E1 cells: enhancement of Runx2, OPG, and regucalcin mRNA expressions.
Molecular and Cellular Biochemistry, 312:157-66 (2008).
448. Satoshi Uchiyama, Masayoshi Yamaguchi:
Anabolic effect of β -cryptoxanthin in osteoblastic MC3T3-E1 cells is enhanced with 17 β -estradiol, genistein, or zinc sulfate in vitro: the unique effect with zinc on Runx2 and α 1(I) collagen mRNA expressions.
Molecular and Cellular Biochemistry, 307:209-219 (2008).
449. Masayoshi Yamaguchi, Ying Ling Lai, Satoshi Uchiyama, Taeko Nakagawa:
Oral administration of phytochemical p-hydroxycinnamic acid prevents bone loss in ovariectomized rats.
Molecular and Cellular Biochemistry, 311:31-36 (2008).
450. Masayoshi Yamaguchi, Satoshi Uchiyama:
Combination of β -cryptoxanthin and zinc has potent effects on apoptotic cell death and suppression of bone resorption-related gene expression in osteoblastic cells.
International Journal of Molecular Medicine, 22:221-228 (2008).
451. Masayoshi Yamaguchi, Ying Ling Lai, Satoshi Uchiyama, Taeko Nakagawa:
Phytochemical p-hydroxycinnamic acid stimulates mineralization in osteoblastic MC3T3-E1 cells.
International Journal of Molecular Medicine, 22:287-291 (2008).
452. Toru Matsumoto, Yoshinori Hokari, Masayuki Hashizume, Masayoshi Yamaguchi:
Effect of *Sargassum horneri* extract on circulating bone metabolic markers: Supplemental intake has an effect in health humans.
Journal of Health Science, 54:50-55 (2008).
453. Masayoshi Yamaguchi, M. Neale Weitzmann:
The estrogen 17 β -estradiol and phytoestrogen genistein mediate differential effects on osteoblastic NF- κ B activity.

- International Journal of Molecular Medicine*, 23:297-301 (2009).
454. Masayoshi Yamaguchi, M. Neale Weitzmann:
The bone anabolic carotenoids *p*-hydroxycinnamic acid and β -cryptoxanthine
NF- κ B activation in MC3T3 preosteoblasts.
Molecular Medicine Reports, 2: 641-644 (2009).
455. Masayoshi Yamaguchi, M. Neale Weitzmann:
The bone anabolic carotenoid β -cryptoxanthin enhances transforming growth
factor- β 1-induced SMAD activation in MC3T3 preosteoblasts.
International Journal of Molecular Medicine, 24:671-675 (2009).
456. Tatyana Vikulina, Xian Fan, Masayoshi Yamaguchi, Susanne Roser-Page,
Majd Zayzafoon, David M. Guidot, Ighovwerha Ofotokun,
M. Neale Weitzmann:
Alterations in the immuno-skeletal interface drive bone destruction in HIV-1
transgenic rats.
Proceedings of the National Academy of Sciences USA, 107: 13848-13853
(2010).
457. Masayoshi Yamaguchi, M. Neale Weitzmann:
Vitamin K2 stimulates osteoblastogenesis and suppresses osteoclastogenesis by
NF- κ B activation.
International Journal of Molecular Medicine, 27:3-14 (2011).
458. Masayoshi Yamaguchi, M. Neale Weitzmann:
Zinc stimulates osteoblastogenesis and suppresses osteoclastogenesis by
antagonizing NF- κ B activation.
Molecular and Cellular Biochemistry, 355:179-186 (2011)
459. Masayoshi Yamaguchi, M. Neale Weitzmann:
Quercetin, a potent suppressor of NF- κ B and Smad activation in osteoblasts.
International Journal of Molecular Medicine, 28:521-525 (2011)
460. Masayoshi Yamaguchi, Jack L. Arbiser, M. Neale Weitzmann:
Honokiol stimulates osteoblastogenesis by suppressing NF- κ B activation.
International Journal of Molecular Medicine, 28: 1049-1053 (2011)
461. Masayoshi Yamaguchi, M. Neale Weitzmann, Tomiyasu Murata:

- Exogenous regucalcin stimulates osteoclastogenesis and suppresses osteoblastogenesis through NF- κ B activation.
Molecular and Cellular Biochemistry, 359: 193-203 (2012)
462. Masayoshi Yamaguchi, M. Neale Weitzmann:
The intact strontium ranelate complex stimulates osteoblastogenesis and suppresses osteoclastogenesis by antagonizing NF- κ B activation.
Molecular and Cellular Biochemistry, 359: 399-407 (2012)
463. Masayoshi Yamaguchi, M. Neale Weitzmann:
High dose 1,25(OH)₂D₃ inhibits osteoblast mineralization *in vitro*.
International Journal of Molecular Medicine, 29:934-938 (2012)
464. George R. Beck Jr, Shin-Woo Ha, Corinne E. Camalier, Masayoshi Yamaguchi, Yan Li, Jin-Kyu Lee, M. Neale Weitzmann:
Bioactive silica based nanoparticles stimulate bone forming osteoblasts, suppress bone resorbing osteoclasts, and enhance bone mineral density *in vivo*.
Nanomedicine, 8: 793-803 (2012).
465. Masayoshi Yamaguchi, Terry M. Moore, Aiming Sun , James P. Snyder, Mamoru Shoji:
Novel curcumin analogue UBS 109 stimulates osteoblastogenesis and suppresses osteoclastogenesis through Smad activation and NF- κ B inhibition.
Integrative Biology, 4: 905-913 (2012).
466. Masayoshi Yamaguchi, M. Neale Weitzmann:
The bone anabolic carotenoid *p*-hydroxycinnamic acid promotes osteoblast mineralization and suppresses osteoclast differentiation by antagonizing NF- κ B activation.
International Journal of Molecular Medicine, 30: 708-712 (2012).
467. Masayoshi Yamaguchi, M. Neale Weitzmann, Clifton A Baile, Tomiyasu Murata:
Exogenous regucalcin suppresses osteoblastogenesis and stimulates adipogenesis in mouse bone marrow culture.
Integrative Biology, 4: 1215-1222 (2012).
468. Masayoshi Yamaguchi, Toru Matsumoto:

- Marine algae *Sargassum horneri* bioactive factor stimulates osteoblastogenesis and suppresses osteoclastogenesis *in vitro*.
OA Biotechnology, 1:3 (2012)
469. Masayoshi Yamaguchi, Clifton A. Baile, Shijun Zhu, Mamoru Shoji:
Bioactive flavonoid *p*-hydroxycinnamic acid stimulates osteoblastogenesis and suppresses adipogenesis in bone marrow culture.
Cell and Tissue Research 354:743-750 (2013)
470. Masayoshi Yamaguchi, Tatyana Vikulina, Jack L. Arbiser, M. Neale Weitzmann:
Suppression of NF- κ B activation by gentian violet promotes osteoblastogenesis and suppresses osteoclastogenesis.
Current Molecular Medicine, 14:783-792 (2014)
471. Masayoshi Yamaguchi, Shijun Zhu, Shumin Zhang, Daqing Wu, Terry M. Moore, James P. Snyder, Mamoru Shoji:
Curcumin analogue UBS109 prevents bone loss in breast cancer bone metastasis mouse model: Involvement in osteoblastogenesis and osteoclastogenesis.
Cell and Tissue Research, 357:245-252 (2014)
472. Tomiyasu Murata, Masayoshi Yamaguchi:
Alternatively spliced variants of the regucalcin gene in various human normal and tumor tissues.
International Journal of Molecular Medicine, 34:1141-1146 (2014)
473. Masayoshi Yamaguchi, Toru Matsumoto:
Marine algae *Sargassum horneri* bioactive factor suppresses adipogenesis in mouse bone marrow culture *in vitro*.
OA Biotechnology, 3:7 (2014)
474. Masayoshi Yamaguchi, Shijun Zhu, M. Neale Weitzmann, James P. Snyder, Mamoru Shoji:
Curcumin analog UBS109 prevents bone marrow osteoblastogenesis and osteoclastogenesis disordered by coculture with breast cancer MDA-MB-231 bone metastatic cells *in vitro*.
Molecular and Cellular Biochemistry, 401:1-10 (2015)
475. Masayoshi Yamaguchi, Tomiyasu Murata:

- Suppressive effects of exogenous regucalcin on cell proliferation in human pancreatic cancer MiaPaCa-2 cells *in vitro*.
International Journal of Molecular Medicine, 35:1773-1778 (2015)
476. Masayoshi Yamaguchi, Tomiyasu Murata:
Exogenous regucalcin suppresses cell proliferation in human breast cancer MDA-MB-231-bone metastatic cells *in vitro*.
Molecular Medicine Reports, 12:7801-7805 (2015)
477. Masayoshi Yamaguchi, Toru Matsumoto:
Marine algae *Sargassum horneri* bioactive factor suppresses proliferation and stimulates apoptotic cell death in human breast cancer MDA-MB-231 cells *in vitro*.
Integrative Molecular Medicine 2:135-138 (2015), doi: 10.15761/IMM.1000127
478. Masayoshi Yamaguchi, Tomiyasu Murata, Mamoru Shoji, M. Neale Weitzmann:
The flavonoid *p*-hydroxycinnamic acid mediates anticancer effects on MDA-MB-231 human breast cancer cells *in vitro*: Implications for suppression of bone metastases.
International Journal of Oncology, 47: 1563-1571 (2015)
479. Ighovwerha Ofotokun, Kehmia Titanji, Tatyana Vikulina, Susanne Roser-Page, Masayoshi Yamaguchi, Majd Zayzafoon, Ifor R. Williams, M. Neale Weitzmann:
Role of T cell reconstitution in HIV-1 antiretroviral therapy-induced bone loss.
Nature Communications 6:8282 (2015) DOI: 10.1038/ncomms9282
480. Masayoshi Yamaguchi, Tatyana Vikulina, M. Neale Weitzmann:
Gentian violet inhibits MDA-MB-231 human breast cancer cells, and reverses stimulated osteoclastogenesis and suppressed osteoblast activity induced by cancer cells.
Oncology Reports, 34:2156-2162 (2015)
481. Masayoshi Yamaguchi, Tomiyasu Murata, Bassel F. El-Rayes, Mamoru Shoji:
The flavonoid *p*-hydroxycinnamic acid reveals anticancer effects in human pancreatic cancer MIA PaCa-2 cells *in vitro*: Comparison with gemcitabine
Oncology Reports, 34:334-3310 (2015)

482. Masayoshi Yamaguchi, Satoru Osuka, M. Neale Weitzmann, Bassel F. El-Rayes, Mamoru Shoji, Tomiyasu Murata:
Prolonged survival in pancreatic cancer patients with increased regucalcin gene expression: Overexpression of regucalcin suppresses the proliferation in human pancreatic cancer MIA PaCa-2 cells *in vitro*
International Journal of Oncology, 48:1955-1964 (2016)
483. Masayoshi Yamaguchi, Tomiyasu Murata:
The potential suppressive effects of gentian violet on MDA-MB-231 human breast cancer cells *in vitro*: Comparison with gemcitabine.
Oncology Letters, 12:1605-1609 (2016)
484. Masayoshi Yamaguchi, Satoru Osuka, M. Neale Weitzmann, Mamoru Shoji, Tomiyasu Murata:
Increased regucalcin gene expression extends survival in breast cancer patients: Overexpression of regucalcin suppresses the proliferation and metastatic bone activity in MDA-MB-231 human breast cancer cells *in vitro*
International Journal of Oncology, 49: 812-822 (2016)
485. Masayoshi Yamaguchi, Satoru Osuka, M. Neale Weitzmann, Bassel F. El-Rayes, Mamoru Shoji, Tomiyasu Murata:
Prolonged survival in hepatocarcinoma patients with increased regucalcin gene expression: HepG2 cell proliferation is suppressed by overexpression of regucalcin *in vitro*.
International Journal of Oncology, 49:1686-1694 (2016)
486. Masayoshi Yamaguchi, Robert M. Levy:
 β -caryophyllene promotes osteoblastic mineralization, and suppresses osteoclastogenesis and adipogenesis in mouse bone marrow cultures *in vitro*.
Experimental and Therapeutic Medicine, 12:3602-3606 (2016).
487. Masayoshi Yamaguchi, Robert M. Levy:
The combination of β -caryophyllene, baicalin and catechin synergistically suppresses the proliferation and stimulates the death in RAW267.4 macrophages *in vitro*. *International Journal of Molecular Medicine*, 38:1940-1946 (2016).

Review Publications (Peer-reviewed)

1. Masayoshi Yamaguchi:
Calcitonin and liver metabolism: Role of cellular calcium.
Life Science Advance in Experimental and Clinical Endocrinology,
8: 29-36 (1989).
2. Masayoshi Yamaguchi:
Role of zinc as an activator of bone formation.
Journal of Nutrition and Vitaminology (Tokyo), *Special Issue*,
p. 522-525, 1992.
3. Masayoshi Yamaguchi:
 β -Alanyl-L-histidinato zinc and bone resorption: A potent activator
in bone formation.
Current Medicinal Chemistry, 1: 356 – 365 (1995).
4. Masayoshi Yamaguchi:
 β -Alanyl-L-histidinato zinc and bone resorption.
General Pharmacology, 26: 1179 – 1183 (1995).
5. Masayoshi Yamaguchi:
Role of zinc in bone formation and bone resorption.
Journal of Trace Elements in Experimental Medicine, 11: 119 –135 (1998).
6. Masayoshi Yamaguchi:
Role of calcium-binding protein regucalcin in regenerating rat liver.
Journal of Gastroenterology and Hepatology 13 (Supplement): S106-S112,
1998.
7. Masayoshi Yamaguchi:
Role of regucalcin in calcium signaling.
Life Sciences, 66: 1769 – 1780 (2000).
8. Masayoshi Yamaguchi:
The role of regucalcin in nuclear regulation of regenerating liver.
Biochemical and Biophysical Research Communications, 276: 1- 6 (2000).
9. Masayoshi Yamaguchi:

Isoflavon and bone metabolism: Its cellular mechanism and preventive role in bone loss.

Journal of Health Science, 48: 209-222 (2002).

10. Masayoshi Yamaguchi, Satoshi Uchiyama:
Preventive effect of zinc acexamate administration on bone loss in streptozotocin- induced diabetic rats: Comparison with zinc sulfate.
Biomedical Research on Trace Elements, 14: 233-238 (2003).
11. Masayoshi Yamaguchi:
Role of zinc in regulation of osteoclastogenesis.
Biomedical Research on Trace Elements 15: 9-14 (2004).
12. Masayoshi Yamaguchi:
Role of regucalcin in maintaining cell homeostasis and function (Review).
International Journal of Molecular Medicine, 15: 371-389 (2005).
13. Masayoshi Yamaguchi:
Regulatory mechanism of food factors in bone metabolism and prevention of osteoporosis.
Yakugaku Zasshi, 126:1117-1137(2006).
14. Masayoshi Yamaguchi:
Role of zinc in bone metabolism and preventive effect on bone disorder.
Biomedical Research on Trace Elements, 18:346-366 (2007).
15. Masayoshi Yamaguchi:
 β -Cryptoxanthin and bone metabolism: The preventive role in osteoporosis.
Journal of Health Science, 54: 356-369 (2008).
16. Masayoshi Yamaguchi:
Novel protein RGPR-p117: its role as the regucalcin gene transcription factor.
Molecular and Cellular Biochemistry, 327: 53-63 (2009).
17. Masayoshi Yamaguchi:
Role of nutritional zinc in the prevention of osteoporosis.
Molecular and Cellular Biochemistry, 338: 241-254 (2010).
18. Masayoshi Yamaguchi:
Regucalcin and metabolic disorder: osteoporosis and hyperlipidemia are induced

- in regucalcin transgenic rats.
Molecular and Cellular Biochemistry, 341: 119-133 (2010).
19. Masayoshi Yamaguchi:
The transcriptional regulation of regucalcin gene expression.
Molecular and Cellular Biochemistry, 346: 147-171 (2011)
20. Masayoshi Yamaguchi:
Regucalcin and cell regulation: role as a suppressor in cell signaling.
Molecular and Cellular Biochemistry, 353:101-137 (2011)
21. Ying Hua Gao-Balch, Lisa D. Privett, Masayoshi Yamaguchi:
The theoretical strategy for overweight and obesity intervention programs in adult population.
International Journal of Medicine and Medical Sciences, 36:164-169 (2011)
22. Masayoshi Yamaguchi:
Role of regucalcin in brain calcium signaling: Involvement with aging.
Integrative Biology, 4:825-837 (2012).
23. Masayoshi Yamaguchi:
Nutritional factors and bone homeostasis: Synergistic effect of zinc and genistein osteogenesis.
Molecular and Cellular Biochemistry, 366:201-221 (2012)
24. Masayoshi Yamaguchi:
Role of beta-cryptoxanthin in bone homeostasis.
Journal of Biomedical Science, 19:36-48 (2012)
25. Masayoshi Yamaguchi:
Role of regucalcin in brain calcium signaling: Involvement in aging.
Integrative Biology, 4: 825-837 (2012).
26. Masayoshi Yamaguchi:
Regucalcin: new development on biotechnology.
OA Biotechnology, 1:1 (2012)
27. Masayoshi Yamaguchi:
Regucalcin, cell signaling-related protein: its multifunctional role in kidney cell regulation.

- OA Biotechnology* 1:2 (2012)
28. Masayoshi Yamaguchi:
Marine alga *Sargassum horneri* component and bone homeostasis: Role in osteoporosis prevention.
International Journal of Food Science, Nutrition and Dietetics, 2:9-14 (2013)
29. Masayoshi Yamaguchi, Ying Hua Gao-Balch:
Role of dietary soybean genistein in osteoporosis prevention.
International Journal of Food Science, Nutrition and Dietetics, 2:27-34 (2013)
30. Masayoshi Yamaguchi, Tomiyasu Murata:
Involvement of regucalcin in lipid metabolism and diabetes.
Metabolism, 62:1045-1051 (2013)
31. Masayoshi Yamaguchi:
Suppressive role of regucalcin in liver cell proliferation: Involvement in carcinogenesis.
Cell Proliferation, 46:243-253 (2013)
32. Masayoshi Yamaguchi:
The osteogenic effect of bioactive flavonoid *p*-hydroxycinnamic acid: Development on osteoporosis treatment.
OA Biotechnology 2:15 (2013)
33. Masayoshi Yamaguchi:
Suppressive role of regucalcin in protein output in liver cells.
OA Biotechnology 2:6 (2013)
34. Masayoshi Yamaguchi:
The anti-apoptotic effect of regucalcin is mediated through multisignaling pathways.
Apoptosis 18:1145–1153 (2013)
35. Masayoshi Yamaguchi:
Hormonal regulation of regucalcin gene expression: Involvement in cell metabolism.

- Hormonal Studies* 1:1 (2013). <http://dx.doi.org/10.7243/2052-8000-1-1>
36. Masayoshi Yamaguchi: Role of regucalcin in cell nuclear regulation: Involvement as a transcription factor
Cell and Tissue Research 354:331-341 (2013)
 37. Masayoshi Yamaguchi:
Osteoporosis treatment with new osteogenic factors.
Journal Molecular and Genetic Medicine 7:66 (2013).
<http://dx.doi.org/10.4172/1747-0862.1000066>
 38. Masayoshi Yamaguchi:
Role of regucalcin in bone homeostasis: Involvement as a novel cytokine.
Integrative Biology, 6: 258-266 (2014)
 39. Masayoshi Yamaguchi:
Regucalcin as a potential biomarker for metabolic and neuronal diseases.
Molecular and Cellular Biochemistry, 391:157–166 (2014)
 40. Masayoshi Yamaguchi:
Regulatory role of regucalcin in heart calcium signaling: Insight into cardiac failure (Review).
Biomedical Reports, 2:303-308 (2014).
 41. Masayoshi Yamaguchi:
Potential significance of the regucalcin gene in human carcinoma
Integrative Cancer Science and Therapeutics 1:1-3 (2014),
doi: 10.15761/ICST.1000101
 42. Masayoshi Yamaguchi:
The suppression of regucalcin gene expression may lead to hepatocarcinogenesis
Integrative Cancer Science and Therapeutics 1:4-9 (2014),
doi: 10.15761/ICST.1000102
 43. Masayoshi Yamaguchi:
Regucalcin, a novel regulatory protein implicated in obesity and diabetes.
Integrative Molecular Medicine 1:7-10 (2014), doi: 10.15761/IMM.1000102
 44. Masayoshi Yamaguchi:

- Role of nutritional factor menaquinone-7 in bone homeostasis and osteoporosis prevention.
Integrative Molecular Medicine, 1:1-6 (2014), doi:10.15761.IMM/1000101
45. Masayoshi Yamaguchi:
Type 1 diabetic bone loss is prevented by novel osteogenic factors.
Integrative Obesity and Diabetes, 1:1-6 (2014), doi: 10.15761/IOD.1000101
46. Masayoshi Yamaguchi
Marine alga *Sargassum horneri* active component: Involvement in the Improvement of obese diabetic bone loss.
Integrative Food, Nutrition and Metabolism 1:1-6 (2014).
doi:10.15761/IFNM.1000101
47. Masayoshi Yamaguchi:
Nutritional zinc plays a pivotal role in bone health and osteoporosis prevention.
Edorium Journal of Nutrition and Dietetics 1:1-8 (2015)
48. Masayoshi Yamaguchi:
Involvement of regucalcin as a suppressor protein in human carcinogenesis: Insight into the the gene therapy.
Journal of Cancer Research and Clinical Oncology, 141:1333-1341 (2015).
49. Masayoshi Yamaguchi:
The potential role of regucalcin in kidney cell regulation: Involvement in renal failure (Review).
International Journal of Molecular Medicine, 36:1191-1199 (2015).
50. Masayoshi Yamaguchi:
The botanical molecule *p*-hydroxycinnamic acid as a new osteogenic agent: Insight into the treatment of cancer bone metastases.
Molecular and Cellular Biochemistry, 421:193-203 (2016).

Publications (Book/Book Chapter)

1. Masayoshi Yamaguchi:
Calcitonin and calcium metabolism in hepatic bile.

- In: *Calcium Endocrinology*, Editors; Yoshitoshi Y, Fujita T,
Chugai Igaku, Tokyo, p. 169-183, 1980.
2. Masayoshi Yamaguchi:
A novel Ca²⁺-binding protein regucalcin and calcium inhibition:
Regulatory role in liver cell function. In: *Calcium Inhibition*, Editor; Kohama K,
Japan Scientific Societies Press, Tokyo and CRC Press, Boca Raton,
p.19-41, 1992.
 3. Masayoshi Yamaguchi:
Alteration of bone metabolism: Effect of nutrition.
In : *Pathology of the Aging Rat.*, Editors; Mohr U,
Dungworth DL, Capen CC, ILSI Press, Washington, D. C .,
Vol. 2, p. 499-511, 1994.
 4. Masayoshi Yamaguchi:
Impact of aging on calcium channels and pumps.
In: *Calcium and Signaling in Aging*. Editor; Mattson MP, Elsevier Science,
p. 47-65, 2002.
 5. Masayoshi Yamaguchi:
Regucalcin and cell signaling: Overexpression of regucalcin suppresses cell
death and apoptosis.
In: *Second Messengers and Phosphoprotein Signaling*. Editors;
Anand-Srivastava MB, Tremblay M, Srivastava AK, Medimond S.r.l.,
p. 225-230, 2004.
 6. Masayoshi Yamaguchi, Satoshi Uchiyama
Osteoporosis prevention by β -cryptoxanthin.
In: *Functional Food and Health*, Editors; Shibamoto T, Kanazawa K, Shahidi
F, Ho C-T, ACS Symposium Series 993;
American Chemical Society, Washington, D.C., Oxford University Press,
Chapter 35, p.408-418, 2008.
 7. Masayoshi Yamaguchi:
Nutritional factors and osteoporosis prevention. In: *Nutritional Biochemistry:
Genomics, Metabolomics and Food Supply*, Editors; Haugen S, Meijer S,

- Nova Science Publishers, Inc., New York, USA, Chapter 1, p.1-84, 2010
8. Masayoshi Yamaguchi:
Nutritional Factors and Osteoporosis Prevention.
Nova Science Publishers, Inc., New York, USA, 2010.
 9. Masayoshi Yamaguchi:
Carotenoids and bone homeostasis: Role in osteoporosis prevention.
In: *Carotenoids: Properties, Effects and Diseases*, Editor; Yamaguchi M,
Nova Science Publishers, Inc., New York, USA, Chapter 10, pp.259-286, 2011
 10. Masayoshi Yamaguchi:
Regucalcin: Role as a suppressor protein in calcium signaling.
In: *Calcium Signaling*, Editor; Yamaguchi M,
Nova Science Publishers, Inc., New York, USA, Chapter 8, pp.159-214, 2011
 11. Masayoshi Yamaguchi:
Regucalcin: Genomics, Cell Regulation and Disease.
Nova Science Publishers, Inc., New York, USA, 2012.
 12. Masayoshi Yamaguchi:
Vitamin K and osteocalcin: Role of osteoporosis prevention.
In: *Osteocalcin: Production, Regulation and Disease*, Editor; Yamaguchi M,
Nova Science Publishers, Inc., New York, USA, Chapter 9, pp.72-90, 2012.
 13. Masayoshi Yamaguchi:
Hyperlipidemia induced in regucalcin transgenic rats: Involvement of adiponectin.
In: *Adiponectin: Production, Regulation and Roles in Disease*,
Editor; Yamaguchi M, Nova Science Publishers, Inc., New York, USA,
Chapter 14, pp.105-120, 2012.
 14. Masayoshi Yamaguchi:
Zinc and bone homeostasis: Role of zinc supplementation in osteoporosis
prevention. In: *Zinc: Characteristics, Uses and Benefits*, Editor; Yamaguchi M,
Nova Science Publishers, Inc., New York, USA, Chapter 8, pp.143-173, 2012.
 15. Masayoshi Yamaguchi:
Osteoporosis: Potent treatment with combination of functional food factors.
In: *Advances in Medicine and Biology*. Volume 64, New York, USA,

- In press, 2013.
16. Masayoshi Yamaguchi:
Regucalcin, a suppressor protein in signal transduction. In: *New Developments on Signal Transduction Research*. Editor; Yamaguchi M, Nova Science Publishers, Inc., New York, USA, Chapter 6, pp.127-184, 2013.
 17. Masayoshi Yamaguchi:
Dietary β -cryptoxanthin stimulates osteogenesis: Role in prevention and treatment of osteoporosis. In: *Carotenoids: Food Sources, Production and Health Benefits*. Editor; Yamaguchi M, Nova Science Publishers, Inc., New York, USA, Chapter 16, pp.319-336, 2013.
 18. Masayoshi Yamaguchi:
Biomedical Osteoporosis Treatment.
Nova Science Publishers, Inc., New York, USA, 2013.
 19. Masayoshi Yamaguchi:
Role of regucalcin in calcium signaling of kidney cells.
In: *New Development of Calcium Signaling Research*.
Editor; Yamaguchi M, Nova Science Publishers, Inc., New York, USA, Chapter 6, pp. , 2014.
 20. Masayoshi Yamaguchi:
Suppressive role of regucalcin in cell protein synthesis: Involvement in calcium signaling. In: *New Development of Calcium Signaling Research*.
Editor; Yamaguchi M, Nova Science Publishers, Inc., New York, USA, Chapter 7, pp. , 2014.
 21. Masayoshi Yamaguchi:
Role of genistein in bone homeostasis: Prevention of osteoporosis. In: *Genistein and Daidzein: Food Sources, Biological Activity and Health Benefits*.
Editor by Yamaguchi M, Nova Science Publishers, Inc., New York, USA, Chapter 3, 2015.
 22. Masayoshi Yamaguchi:
Renal failure: Involvement of regucalcin, a key molecule in kidney cell homeostasis.
In: *Renal Failure: Diagnosis, Management and Potential Complications*.

Editor by Yamaguchi M, Nova Science Publishers, Inc., New York, USA,
Chapter 1, pp. 1-17, 2016.

23. Masayoshi Yamaguchi:

Regucalcin plays a crucial role as a suppressor in carcinogenesis.

In: *Advances in Carcinogenesis*. Editor by Yamaguchi M, Nova Science
Publishers, Inc., New York, USA, Chapter 2, in press, 2017.

24. Masayoshi Yamaguchi:

Book title: *The Role of Regucalcin in Cell Homeostasis and Disorder*.

Nova Science Publishers, Inc., New York, USA, in press, 2017.