

Peer-reviewed Published Studies

[An Acute, Placebo-Controlled, Single-Blind, Crossover, Dose-Response, Exploratory Study to Assess the Effects of New Zealand Pine Bark Extract \(Enzogenol®\) on ...](#)

WXJ Lim, [L Chepulis](#), [P von Hurst](#), CS Gammon... - Nutrients, 2020 - mdpi.com

[The Inhibitory Effects of New Zealand Pine Bark \(Enzogenol®\) on \$\alpha\$ -Amylase, \$\alpha\$ -Glucosidase, and Dipeptidyl Peptidase-4 \(DPP-4\) Enzymes](#)

WXJ Lim, CS Gammon, [P von Hurst](#), [L Chepulis](#)... - Nutrients, 2022 - mdpi.com

[ENZOGENOL Pine Bark Extract: From an Ancient Remedy to a Natural Neurotherapeutic](#)

M Frevel - Natural Medicines, 2019 - taylorfrancis.com

Journal: Phytotherapy Research 2018, vol. 32(2), p290-297

Title: [Proanthocyanidin-rich Pinus radiata bark extract inhibits mast cell-mediated anaphylaxis-like reactions](#)

Authors: Choi YH, Song CH, Mun SP

Investigator: Department of Anatomy, Medical School, Institute for Medical Sciences, Chonbuk National University, Jeonju, Jeonbuk 561-180, Republic of Korea.

Study type: Mouse and in-vitro study

Journal: Developmental Neuropsychology 2017, vol. 42(2), p93-103

Title: [Effect of Enzogenol® Supplementation on Cognitive, Executive, and Vestibular/Balance Functioning in Chronic Phase of Concussion](#)

Authors: Walter A, Finelli K, Baic X, Arnett P, BreamT, Seidenberg P, Lynch S, Johnson B, Slobounov S.

Investigator: Penn State Center for Sport Concussion, Pennsylvania State University, University Park, Pennsylvania, USA.

Study type: Human clinical trial

Journal: Journal of Pharmacy and Pharmacology 2014, vol. 66(6), p875-885

Title: [Enzogenol improves diabetes-related metabolic change in C57BL/KsJ-db/db mice, a model of type 2 diabetes mellitus.](#)

Authors: Bang CY, Choung SY.

Investigator: Department of Preventive Pharmacy and Toxicology, College of Pharmacy, Kyung Hee University, Seoul, Republic of Korea.

Study type: Mouse model of type-II-diabetes

Journal: Journal of Nutritional Health and Food Science 2014, vol. 2(3), p1-3

ENZOGENOL - Research Studies / List of Publications

Title: [The Marine-derived, Multi-mineral formula, AquaPT Reduces TNF- \$\alpha\$ Levels in Osteoarthritis Patients](#)
Authors: Carola T Murphy, Conal Martin, Andrea M Doolan, Michael G Molloy, Timothy G Dinan, Denise M O Gorman and Ken Nally
Investigator: School of Biochemistry and Cell Biology, University College Cork (UCC), Cork, Ireland.
Study type: Human clinical trial

Journal: Journal of Medicinal Food 2013, vol. 16(10), p920-926
Title: [Antioxidant and Pro-Apoptotic Effects of Marine-Derived, Multi-Mineral Aquamin Supplemented with a Pine Bark Extract, EnzoGenol, and a Green Tea Extract, Sunphenon](#)
Authors: O'Callaghan YC, Drummond E, O'Gorman DM, O'Brien NM.
Investigator: School of Food and Nutritional Sciences, University College Cork, Cork, Ireland.
Study type: Human clinical trial

ENZOGENOL - Research Studies / List of Publications

- Journal: European Journal of Neurology 2013, vol. 20(8), p1135-1144
Title: [Enzogenol for cognitive functioning in traumatic brain injury: A pilot placebo-controlled RCT.](#)
Authors: Theadom, A., Mahon, S., Barker-Collo, S., McPherson, K., Rush, E., Vandal, A. C., Feigin, V. L.
Investigator: Prof. Valery Feigin, MD, MSc, PhD, FAAN; Professor of Epidemiology and Neurology, Director of the National Institute for Stroke and Applied Neurosciences (NISAN), AUT University, Auckland, New Zealand.
Study type: Human clinical trial
- Journal: Acta Neurologica Taiwanica 2013, vol. 22(1), p13-21
Title: [Efficacy of pinus radiata bark extract and vitamin c combination product as a prophylactic therapy for recalcitrant migraine and long-term results.](#)
Authors: Chayasirisobhon, S.
Investigator: Dr. Sirichai Chayasirisobhon, MD, FAAN, Department of Neurology, Kaiser Permanente Medical Center, Anaheim, CA, USA
Study type: Human clinical trial
- Journal: Food and Chemical Toxicology 2012, vol. 50(12), p4316-4324
Title: [Production, composition and toxicology studies of Enzogenol® Pinus radiata bark extract.](#)
Authors: Frevel, M. A., Pipingas, A., Grigsby, W. J., Frampton, C. M., Gilchrist, N. L.
Investigator: Dr. Mathias Frevel, PhD; Chief Science Officer, ENZO Nutraceuticals Limited, New Zealand
Dr. Nigel Gilchrist, MBChB, FRACP; Canterbury Geriatric Medical Research Trust, Christchurch, New Zealand
Study type: Human clinical trials, Animal toxicology studies, Analytical chemistry studies
- Journal: Journal of Agricultural Food Chemistry 2010, vol. 58(11), p7088-7095
Title: [Pine bark extract enzogenol attenuated tumor necrosis factor-alpha-induced endothelial cell adhesion and monocyte transmigration.](#)
Authors: Kim, D. S., Kim, M. S., Kang, S. W., Sung, H. Y., Kang, Y. H.
Investigator: Prof Young-Hee Kang, Department of Food and Nutrition, Hallym University, Chuncheon, Kangwon-do, Korea
Study type: In-vitro, cell culture study
- Journal: Phytotherapy Research 2008, vol. 22(9), p1168-1174
Title: [Improved cognitive performance after dietary supplementation with a pinus radiata bark extract formulation.](#)
Authors: Dr. Pipingas, A., Silberstein, R. B., Vitetta, L., Rooy, C. V., Harris, E. V., Young, J. M., Frampton, C. M., Sali, A., Nastasi, J.
Investigator: Andrew Pipingas, PhD; Head of Neurocognitive Ageing Research, Centre for Human Psychopharmacology, Faculty of Life and Social Sciences, Swinburne University of Technology, Melbourne, Australia
Study type: Human clinical trial

ENZOGENOL - Research Studies / List of Publications

- Journal: Headache 2006, vol. 46(5), p788-793.
Title: [Use of a pine bark extract and antioxidant vitamin combination product as therapy for migraine in patients refractory to pharmacologic medication.](#)
Authors: Chayasirisobhon, S.
Investigator: Dr. Sirichai Chayasirisobhon, MD, FAAN, Department of Neurology, Kaiser Permanente Medical Center, Anaheim, CA, USA
Study type: Human clinical trial
- Journal: Free Radical Research 2006, vol. 40(1), p85-94
Title: [Comparative effects of enzogenol and vitamin c supplementation versus vitamin c alone on endothelial function and biochemical markers of oxidative stress and inflammation in chronic smokers.](#)
Authors: Young, J. M., Shand, B. I., McGregor, P. M., Scott, R. S., Frampton, C. M.
Investigator: Joanna Young, Scientist, Prof. Russell Scott, MD; Research Director, Lipid & Diabetes Research Group, Christchurch, New Zealand
Study type: Human clinical trial
- Journal: Nutrition Research 2003, vol. 23, p1199-1210.
Title: [Effects of flavonoid extract Enzogenol® with vitamin C on protein oxidation and DNA damage in older human subjects.](#)
Authors: Senthilmohan, S. T., Zhang, J., Stanley, R. A.
Investigator: Dr. Senti Senthilmohan, PhD; Department of Chemical and Process Engineering, University of Canterbury, Christchurch, New Zealand
Study type: Human clinical trial
- Journal: Phytotherapy Research 2003, vol. 17(5), p490-494
Title: [Pilot study on the clinical effects of dietary supplementation with Enzogenol, a flavonoid extract of pine bark and vitamin C.](#)
Authors: Shand, B., Strey, C., Scott, R., Morrison, Z., Gieseg, S.
Investigator: Dr. Brett Shand, Senior Scientist; Prof. Russell Scott, MD, Research Director; Lipid & Diabetes Research Group, Christchurch, New Zealand
Study type: Human clinical trial
- Journal: Food Chemistry 2002, vol. 77, p155-161.
Title: [Antioxidant activity of procyanidin-containing plant extracts at different pHs.](#)
Authors: Wood, J. E., Senthilmohan, S. T., Peskin, A. V.
Investigator: Dr. Alexander Peskin, PhD, Free Radical Research Group, University of Otago, Christchurch, New Zealand
Study type: In-vitro, chemical activity study

ENZOGENOL - Research Studies / List of Publications

Other Research Publications

- Source: Thesis for the Degree of Master of Pharmacy
Title: [Mechanism of Anti-wrinkle Effect of Enzogenol](#)
Authors: Wenjuan Qiu
Investigator: Wenjuan Qiu; Department of Fundamental Pharmaceutical Science, Graduate School, Kyung Hee University, Seoul,
Study type: *In-vitro* cell culture and biochemical study
- Journal: Journal of Clinical EEG & Neuroscience, Oct.2007, 16th Annual Conference of the Australasian Society for Psychophysiology, December 9-11, 2006
Title: [Effects of Flavonoids on Brain Functional Connectivity During a Recognition Memory Task](#)
Authors: Dr. Pipingas, A., Silberstein, R. B
Investigator: Andrew Pipingas, PhD; Head of Neurocognitive Ageing Research, Centre for Human Psychopharmacology, Faculty of Life and Social Sciences, Swinburne University of Technology, Melbourne, Australia
Study type: Human clinical trial

Unpublished Research Studies

- Source: Massey University Study Report
Title: [Dose-Response Study to Assess the Effects of Pine Bark Extract \(Enzogenol™\) on Glycaemic Response in Healthy Subjects](#)
Authors: Wen Xin Janice Lim
Investigator: Wen Xin Janice Lim, Rachel Page, Prof. Pam von Hurst, Dr Lynne Chepulis, Dr Cheryl Gammon; Waikato University (Chepulis) & Massey University (Lim, von Hurst) Collaboration
Study type: Human clinical study

Unpublished Safety Studies

- Research Report: Closed Patch Test for 3 Types of Cosmetic Ingredients (Enzogenol)
Report No.: ENZO-2006-3912 (Trial period: January 31, 2007-February 2, 2007)
Report Date: February 7, 2007
Institute: Institute of General Health Development Co., Ltd, Shiba NBF tower, Minato City, Tokyo 105-0012 JAPAN
Investigator: KOIKEDA, Takashi (MB)
- Research Report: Self-Affirmed Generally Recognized As Safe (GRAS) Status of Enzogenol® Pine Bark Extract
Report Date: December 10, 2012
Institute: Product Research Solutions Inc., Davis, CA, USA
Investigators: Dr. Sangeeta Patel, PhD, Product Research Solutions; Prof. Navindra Seeram, PhD, Dept. of Biomedical and Pharmaceutical Sciences, University of Rhode Island, Kingston, RI, USA; Dr. James Seiber, PhD, Dept. of Environmental Toxicology, University of California Davis, CA, USA; Dr. Matt Frevel, CSO ENZO Nutraceuticals Ltd, New Zealand

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