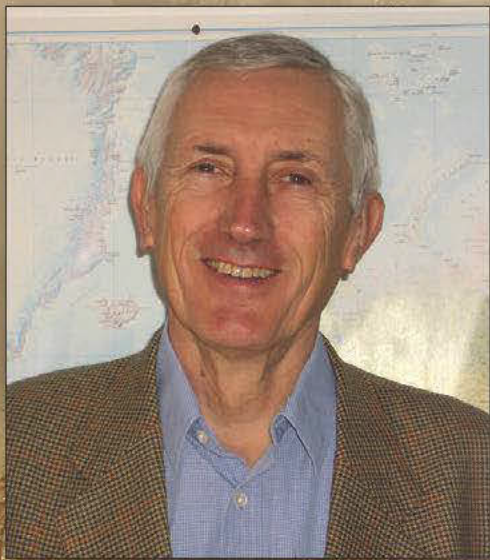


REPORT

ISSUE 33 2019

LOOK, FEEL AND LIVE BETTER



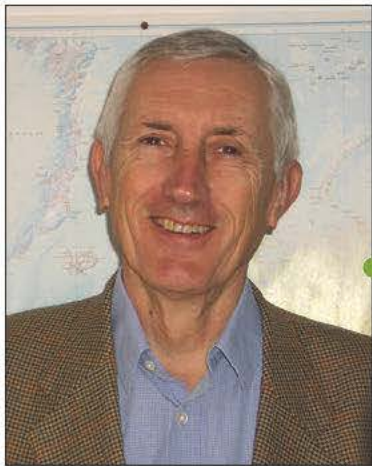
35+ dedicated
years

The Science of Building
Pycnogenol®'s Research
and Prof. Peter Rohdewald's
Contributions



The Science of Building Pycnogenol®'s Research

Chronicling Prof. Peter Rohdewald's contributions and significant influence on Pycnogenol® growth



1984
first quality
control for
the extract

1988
consultant
for Charles
Haimoff

Pycnogenol®
most researched
ingredients
worldwide



Our esteemed colleague Professor Peter Rohdewald has worked with Pycnogenol® for more than 35 years, pioneering a career in which he continually had significant influence and impact on the study of the antioxidant ingredient and its numerous health benefits. As he closes this chapter and readies for retirement, we spent some time talking about how he navigated through an unknown scientific landscape and created a solid path forward for the extract.

Prof. Rohdewald began to work with Pycnogenol® in 1984, developing the first quality control for the extract. Four years later, he started work as a consultant for Charles Haimoff, the original developer of Pycnogenol®, advancing analytics and production methods, and conducting biochemical, pharmacological and clinical trials.

When asked about the early days of learning about Pycnogenol®, Prof. Rohdewald explains, "My friendship with pine trees started when a friend of mine, a medical doctor, entered my office at the university and asked: Do you speak French? I answered: Yes, a bit, but why are you asking? He said a sales representative from a pharmaceutical company asked him to prescribe a new product, Pycnogenol®. There were clinical studies available on the product but only in French and none of his co-workers were able to understand the file content."

"I asked myself, why should we not travel to France to translate the publications to German and take a holiday at the coast at the same time? So, we spent our family vacation at the Atlantic coast in the middle of a French pine tree forest, sitting aside the raw material for Pycnogenol® translating the files and learning the many health effects of the extract."

Decades ago, when Prof. Rohdewald started his research on the extract, he put into motion a scientific process that eventually propelled Pycnogenol® to become one of the most researched ingredients in the world with 420 scientific publications recorded globally.

With more than 70 publications to his credit, Prof. Rohdewald notes "As my friend Prof. Gianni Belcaro formulated, if anything in the body

starts to go wrong, Pycnogenol® will regulate it. Over the years, we made fundamental findings, explaining nearly all the seemingly well separated benefits of Pycnogenol® - from diabetic retinopathy to osteoarthritis, from asthma to spermiogenesis."

He adds, "It is the super-antioxidant, it is the stimulation of nitric oxide (NO), which acts universally against the different sites of inflammation and promotes vascular health."

Encouraged by these early findings on key mechanisms of action, Pycnogenol®'s applications have multiplied over the years to encompass cardiovascular and circulatory health, joint health, skin care, blood glucose, cognitive function, sports nutrition, menopause support, and eye health, among others.

Prof. Rohdewald flagged osteoarthritis as his favorite application to study. He explains, "As I completed a great series of testing analgesics in respect to pain relief, I got interested in the effects of Pycnogenol® in osteoarthritis (OA) because of its anti-inflammatory potential. We had good luck in performing three early placebo-controlled, double-blind studies and because of the research led by Prof. Petra Högger's group in Germany we know exactly which components of Pycnogenol® act where and when. Pycnogenol® is in first place leading natural antioxidants in increasing mobility of OA patients. I like very much such research producing a stringent line of evidence from bench to bedside."

We were also curious on what surprised Prof. Rohdewald most during his research work.

"Most surprising for me was the improvement of symptoms of hyperactivity attention deficit disorder (ADHD) by Pycnogenol®. I received a letter from an American psychologist telling me I should investigate Pycnogenol®'s effect on ADHD. Another industry colleague, Dr. Richard Passwater reported a series of positive case studies from ADHD patients, so we designed clinical studies to investigate further. Evidently, Pycnogenol® is able to act on the brain, that's what makes the issue fascinating and this was the surprise."

product spotlight

New Tree Launches Menopause Relief

New Tree launches **Newfinition Healthy Woman's Time**, featuring the antioxidant Pycnogenol® and formulated for women looking for a menopause and weight management solution.



The innovative product contains 60mg of Pycnogenol® per capsule and utilizes the extract's extensively researched health benefits for overall antioxidant support and powerful benefits for menopause relief. Multiple studies show Pycnogenol® can help alleviate common symptoms at all stages of menopause including night sweats, hot flashes, depression, anxiety and memory problems. The extract also supports vascular relaxation which allows the body to rid itself of excess heat.

Newfinition Healthy Woman's Time is available in Korea through telemarketing channels and also sold online.

Innovative Antioxidant Skincare Formula

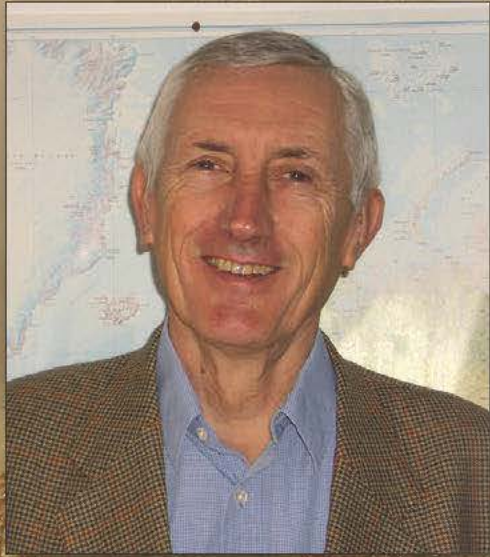


Ysonut introduces **DERMOVANCE M**, an innovative antioxidant skincare formula with Pycnogenol® to manage melasma.

DERMOVANCE M is a supplement based on 80mg Pycnogenol® and 500mg Polypodium Leucotomos (rhizome extract) that reinforces the skin's photo-protective activity and provides documented antioxidant action. Botanical extract Pycnogenol® acts to preserve the skin and reduce hyperpigmentation. The product also contains flavonoids from red orange extract, vitamins C, D, E and zinc. Vitamin

E and vitamin C contribute to the protection of cells against oxidative damage while zinc helps with normal skin maintenance.

The product belongs to the beauty family of the Inovance range of products and is sold in several countries including France, Belgium, Spain and Portugal.



35+ dedicated
years

welcome

This season we celebrate the career of our esteemed colleague Prof. Peter Rohdewald. He spent the last four decades collaborating, researching and achieving critical scientific milestones that cemented Pycnogenol®'s pioneering success.

We are grateful for his vision and contributions to Horphag Research. Join us in wishing him the very best in retirement!

Best Regards,

Victor Ferrari
Chief Executive Officer
Horphag Research

featuring...

BUILDING PYCNOGENOL®'S RESEARCH
AND PROF. ROHDEWALD'S INVOLVEMENT

2019 RESEARCH

PRODUCT SPOTLIGHT

CORPORATE ANNOUNCEMENTS

follow us on...



Pycnogenol® French maritime pine bark extract, is a registered trademark of Horphag Research Ltd and is protected by U.S. patents #5,720,956 and #6,372,266 and other international patents.
www.pycnogenol.com