



Your Questions

Please type your questions in the

Zoom Chat during the webinar.

I will answer as many as time allows.

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SP / DR

Introduction

If We Haven't Met Before...

Doctor of Acupuncture & Oriental Medicine; MS in Acupuncture

Licensed Dietician-Nutritionist; BPS in Health Sciences

Licensed Acupuncturist, Diplomate in Acupuncture (NCCAOM)

Licensed Massage Therapist; AOS in Massage Therapy, BPS in Asian Bodywork Therapy

Certified Practitioner & Instructor of Asian Bodywork Therapy (AOBTA); Diplomate in ABT (NCCAOM)

Certified Natural Functional Medicine Practitioner

Clinician: 33 years practicing Chinese & functional medicine

Educator: trained 20,000 practitioners over 30 years of teaching (18,000 practitioners for SP)

Standard Process (SP): Started using SP clinically in 1996 (Metagenics, etc. before that)

Doop study of the teachings of Doyal Lee Mark Anderson Tosoph A

Deep study of the teachings of Royal Lee, Mark Anderson, Joseph Antell, others

Began teaching in 2001, one of the top national speakers since 2005

Most effective SP speaker in increasing sales after seminars

Created the largest online school in the clinical application of SP + MH + FxMed + Business Success





Honesty, Clarity & Humility

- I am teaching this webinar to answer questions I am getting weekly from my students and colleagues.
- These are my initial impressions and research. I don't know everything and I get things wrong sometimes.
- I have not used DR products personally or clinically.
- I am not telling any practitioner what they should do.
- I am offering my own perspective to help practitioners decide for themselves.

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Gaeta Institute for Wholistic Health Education

My Two Principles

I am not attached to SP or any other products. If there was a non-SP product line that better embodied these two principles, I would use it. I switched from high-dose synthetics 27 years ago for this reason.

- 1. What helps the patient
- 2. What is as natural as possible, honoring the wisdom of the Creator as expressed through Nature

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Background: Recent History

How did we get here?

Note: numbers below are estimates, and may be a little off

January 1, 2023: After 93 years, SP replaced its entire sales force of 36 ISRs and about 60 ASRs with employees, losing about 500 person-years of product knowledge, and decades of relationships carefully built with health professionals

Initially 7, now 6, of the 36 ISRs have continued on as employee reps; so about 94 new reps

Most SP practitioners lost the support of reps they had known for decades, and many have less trust in and loyalty to SP as a result

17 of the not-hired ISRs have chosen to rep for a relatively unknown company, Doctor's Research, and/or Gaia Pro (Gaia Herb's professional line)

Many of SP's roughly 60,000 practitioners are now understandably confused

Questions We Are Receiving Every Week at the Gaeta Institute

Practitioners are asking us every week:

- >Am I going to switch from SP to DR in my practice and teaching?
- >Should we, his students, switch companies?
- Is this the end of an era and the start of a new one, for the Gaeta Clinic for Chinese and Functional Medicine, and the Gaeta Institute for Wholistic Health Education, and SP practitioners in general?

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A Whole Lot O' Questions

Questions abound among practitioners and in online forums:

- >What is a health professional to do?
- >Which product line to choose?

Gaeta Institute for Wholistic Health Education

- Which is the best source for food-based nutritional, and herbal, products?
- > Is it time to abandon SP and move on?
- Is DR SP 2.0, the evolution of whole-food / food-based supplements?
- > Has SP run its course, to be supplanted by superior DR products?

SP / DR

Standard Process & Doctor's Research

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What Is Standard Process?

The apex brand in the professional supplement industry

Established in 1929, the oldest supplement company, and the first multinutrient supplement (Catalyn)

Created by the greatest nutritionist of all time, and the one of the founders of the field of wholistic nutrition, Dr Royal Lee, DDS

About 500 employees; headquarters + farm in southeast Wisconsin

Other supplements companies regularly attempt to imitate / emulate / copy or improve on SP (we will explore a current example of that today)

Third-generation, family-owned company; the President and CEO is Royal Lee's nephew by marriage

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Dr Royal Lee, DDS

(1895 - 1967)

Created the first whole food supplements in the world

The greatest nutritionist of all time

Inventor, engineer

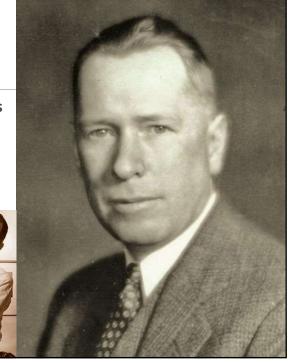
Biochemist

Agriculturalist, farmer

Researcher, author

Philanthropist

Educator



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SP – Unique Characteristics

- -From seed to supplement they own the 500-acre beyond-organic farm that produces 80% of the ingredients in their 250 formulas
- -Sole US Distributor for the most potent, professionally-relevant herbal medicines in the world, MediHerb, of Australia 136 formulas
- -Unparalleled 94-year history of clinical application & experience with several million patients using these food-based formulas
- -The sole producer of protomorphogen tissue extracts, one of Dr Lee's greatest contributions to humanity

What Is Doctor's Research?

A food-based supplement company with 3-4 employees, perhaps formed in 1998, that has based its approach on Dr Lee's whole-food philosophy, and its product line and names on Standard Process

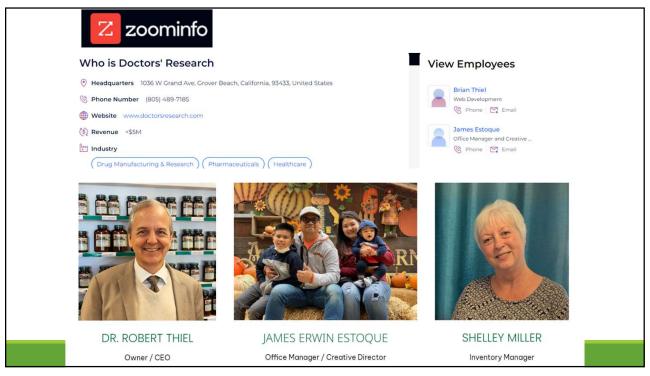
It appears to be a private label brand of Enzyme Process, which is mainly a custom supplement manufacturer formed around 1977, which became much more active starting in 1988, when it was taken over by a former New York SP rep David Roderick (deceased), and now run by his son

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Doctor's Research - doctorsresearch.com







Email Us at doctorsfoodresearch@gmail.com for more info

Robert Thiel, Ph.D. Naturopath and Scientist

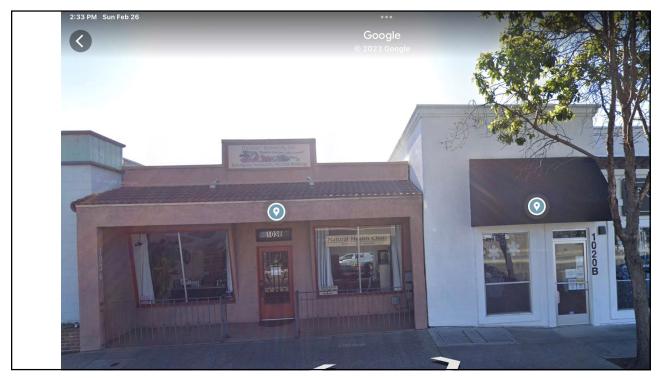
Dr. Thiel runs a clinic in Grover Beach, San Luis Obispo County, California.

The research group at Doctors' Research is directed by Robert Thiel, who holds a Ph.D. in nutrition science. He held a license as a naturopath by the State of North Carolina, was registered as a naturopath by the District of Columbia, and held a license as a naturopathic physician within Idaho. He maintains a natural health clinic in Grover Beach, California.

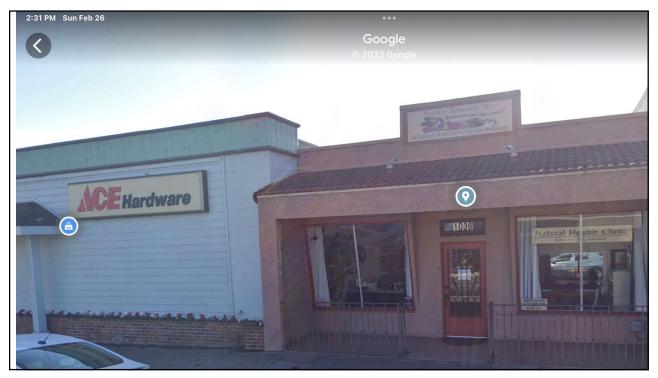
RESEARCH

The research group for Food Research International, LLC is headed by Dr. Robert Thiel, director of Food Research, Inc. Dr. Thiel holds a Ph.D. in nutritional science.

Gaeta Institute for Wholistic Health Education







SP / DR

Doctor's Research Product Line



Doctor's Research Food-Type Ingredients

Three Types of Ingredients, in order:

- 1. Hydroponic vegetables and fruits about half of all ingredients
- 2. Isolates added to yeast (Biotics-style)
- 3. Organic foods grown in soil on a farm

Explanation From a DR Rep

"When you add a synthetic vitamin to the [hydroponic growing solution or yeast] and the food absorbs it, then it is no longer synthetic."

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5. Why are our FOOD brand products the best?

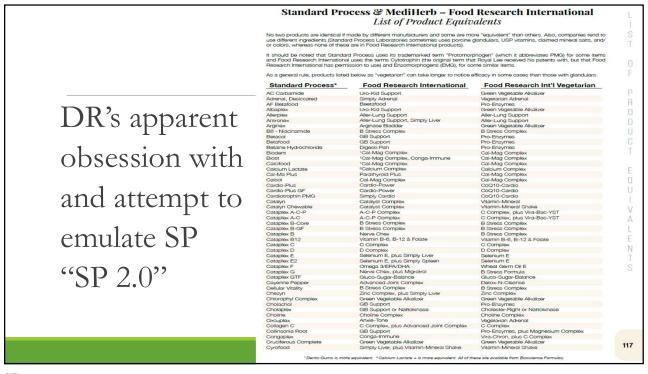
https://doctorsresearch.com/faqs/

In order to obtain the potencies of nutrients that members of modern societies need, many of the nutrients in our products are hydroponically-grown to improve the concentration of nutrients in the specific raw foods that we use. The processes essentially take advantage of a law of nature that a plant will absorb more of a nutrient when that nutrient is more available. Essentially, the plant is fed an enzyme-containing liquid that will be higher in one particular mineral. The plant will absorb more of that mineral, since more of it is present. The nutrient foods are grown in an FDA registered facility.

Creating a whole from different elements is nature in action. The best method of creating a union, like those created by nature, between inorganic fractions and the whole food matrix seems to be by utilizing hydroponic technologies. whole food matrix through low temperature hydroponic farming

.... The reason that the process is "cold" is in order to preserve the naturally-occurring enzymes and other beneficial substances in the foods. Many of the processes and equipment had to be custom-made or altered to accommodate our need to maintain the fresh <u>frozen raw foods</u> used to create the usable raw materials.

Hydroponically grown and then frozen



SP / DR

Major, Massive, Immense & Huge Concerns
About Hydroponics

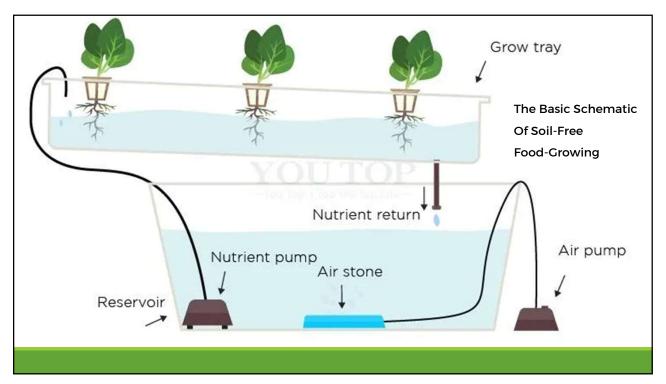


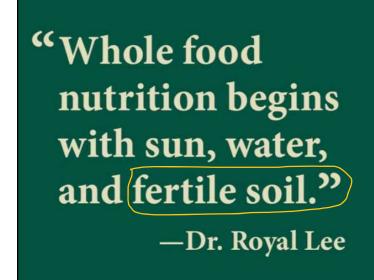
So What is Hydroponics?

Put simply: Hydroponics is a way to skip the soil, sub in a different material to support the roots of the plant, and grow crops directly in nutrient-rich water.

There are multiple approaches to designing hydroponic systems, but the core elements are essentially the same.

verticalroots.com/the-what-and-why-of-hydroponic-farming









DR On Their Hydroponic Foods

"Foods distributed [emphasis added - they don't make their own products] by Doctors' Research are specially-grown, with most being hydroponically farmed (since the US has not established organic standards for hydroponically farmed Foods, we cannot currently label our US products as organic). Our growing processes build on the laws of nature, as it is well known that plants will increase their absorption of nutrients if more nutrients are present in their environment."

Improving on Nature?

In order to obtain the potencies of nutrients that members of modern societies need, many of the nutrients in our products are hydroponically-grown to improve the concentration of nutrients in the specific raw foods that we use.

Comment: this is reductionism (pharmacological nutrition), not wholism, in nutrition. The processes essentially take advantage of a law of nature that a plant will absorb more of a nutrient when that nutrient in more available. Essentially, the plant is fed an enzyme-containing liquid that will be higher in one particular mineral. The plant will absorb more of that mineral, since more of it is present. The nutrient foods are grown in an FDA registered facility.

Comment: the hydroponic plants have no choice but to eat whatever they are given.

In reality this is duplicating the process of nature when we create food nutrients. Nature's process takes inorganic, non-food substances from the soil and delivers them to the cells of the plant. This natural process is the merging of different elements into a union creating one. Creating a whole from different elements is nature in action. The best method of creating a union, like those created by nature, between inorganic fractions and the whole food matrix seems to be utilizing hydroponic technologies.

Comment: it is QUITE a stretch to claim that hydroponics are a natural process, when there is no soil anywhere to be found. Food Research wanted to supply the best possible form of nutrients so it looked into modern technologies that would be compatible with the natural life processes that nature uses to improve the nutrients in natural plants.

Comment: the arrogance of reductionist nutrition manifests in the attempt to improve on Nature with synthetic chemicals.

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DR / Hydroponics Sees Microbes as Contaminants

Enzyme Process?

Many products have density food nutrient ingredients that have been specially grown. All specially grown nutrients are grown in the United States of America on the East Coast by a company that has been in business since 1977. Prior to the start of the nutrient growing process, the nutrition media must be diluted, clarified, and pH adjusted. This process provides a consistent feed material important for high nutrient growth, that is also free from unwanted microbial contamination or foreign nutrient related raw materials are purchased from vendors who meet the strict specifications established for these various materials.

DR catalog page 13

Actual Organic Foods are Not Produced as OTC Drugs. DR Hydroponics Are.

DR catalog page 13

The high nutrient foods are produced using modified OTC drug manufacturing standards. The nutrient growing company has cGMP and GLP protocols in place for the manufacturing of its nutrients. Even though regulations do not require many of these steps, it is believed that by following these strict guidelines, this ensures that the

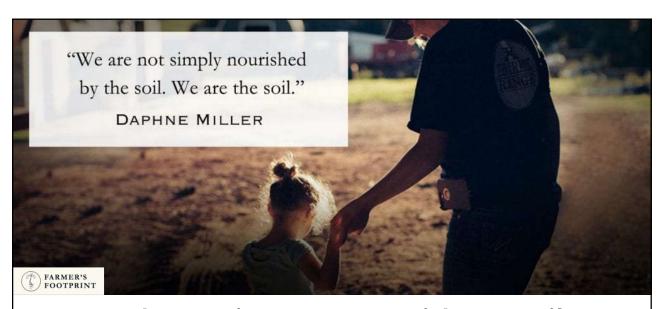
finished product is of superior quality. At the growing plants, two independent outside contractors are responsible for monitoring water quality and pest control on a monthly and biweekly basis, respectively.

DR catalog page 14

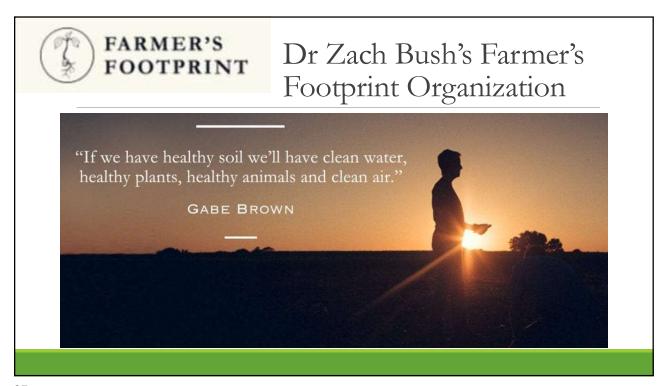
In actual farming, "pests" are what make for strong, resilient foods high in hormetic phytochemicals

Hormesis: "what doesn't kill you makes you stronger." Plants in actual soil produce toxic chemicals to dissuade insects from eating them. We eat those plants and ingest those poisons, which activates our cellular defenses (e.g. Nrf2 multi-organ protector system) and increases cellular resilience (cytoprotection).

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Hydroponic = "grown without soil"











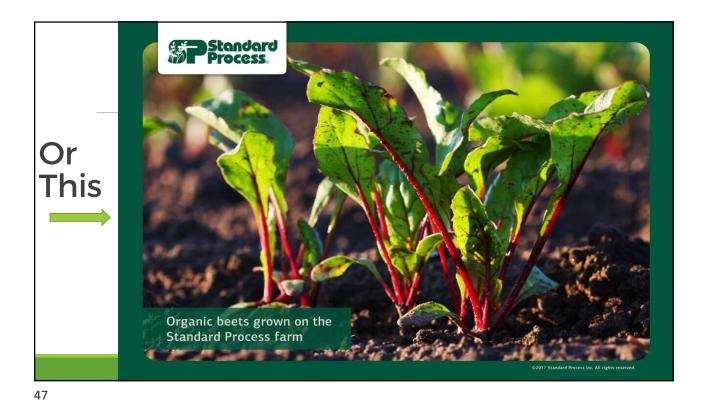






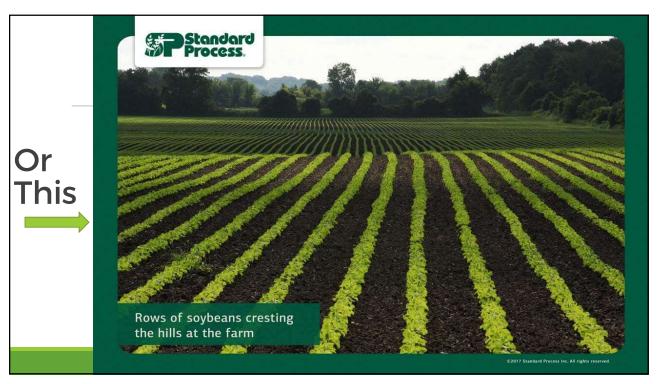






How Can We Assess the Health of Soil Microbial Communities? More complete use of soil Pathogens less likely to resources and occupation of successfully establish and soil and root habitats infect plants Support general functions -- > Increased nutrient availablity like decomposition and for crops nitrogen mineralization Support specialized steps Enhanced nutrient cycling within nutrient cycles eorganic.org/node/34601 Benefits of High Microbial Diversity







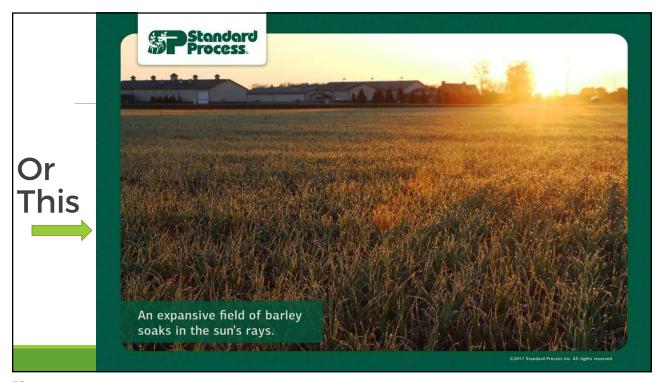
Understanding Soil Microbes and Nutrient Recycling Objection

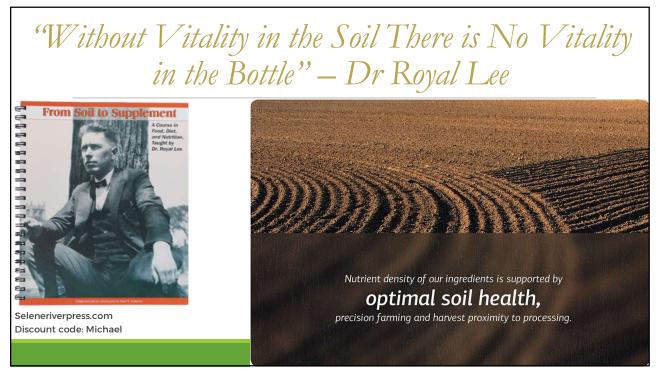
ohioline.osu.edu/factsheet/SAG-16

James J. Hoorman, Cover Crops and Water Quality, Extension Educator, Ohio State University Extension Rafiq Islam, Soil and Water Specialist, Ohio State University Extension, South Centers at Piketon

"There are more microbes in a teaspoon of soil than there are people on the earth."











Soil is the most basic foundation of our food security.

Recent scientific assessments have found that one third of the globe's land is significantly degraded due to numerous factors such as erosion, salinization, compaction, acidification and not least of all, chemical pollution. This is an alarming and astonishing statistic. Just as global demands for food are increasing at unprecedented rates, the healthy agricultural basis needed to support this demand is shrinking at a rapid rate. (Source: Science Direct).

Soil composition is diverse, complex and varies greatly from region to region, but generally, healthy soil requires the following:

- 1. Balance of moisture
- 2. Gases
- 3. Organic matter
- 4. Minerals
- Microorganisms

https://farmersfootprint.us/

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HOW CAN WE HELP SOIL DO ITS JOB?

Regenerative Agriculture is a system of practices and principles that increases biodiversity, enriches soils, improves watersheds, and enhances the ecosystem's natural functions. The key is to not only NOT HARM the land but actually to improve its capacity by using practices that revitalize the soil and the surrounding environment. It is a dynamic and holistic approach to agriculture that incorporates the use of

- Permaculture & organic farming
- Conservation tillage
- Cover crops & crop rotation
- Composting
- Pasture cropping and more!

SP is a world leader in organic farming, that uses all of these methods and more to nourish the land, plants and people.

farmersfootprint.us/2018/11/02/starving-for-healthy-soil/

Soil fertility that is optimal for the production of quality foods depends not only on the minerals, [the soil's] physical structure, tillage, moisture, and sunlight but also on the fauna and flora of the soil. The bacteria play an important part in making air nitrogen available to the plants and in the decomposition of humus. The fungi surround the rootlets and even penetrate them, forming what is known as the mycorrhizal association and what is described by Howard as being the living fungus bridge that connects soil and sap.

McComb¹⁶ and others, in comparing mycorrhizal and nonmycorrhizal plants, showed that the mycorrhizal seedlings contain four times as much phosphorus as the nonmycorrhizal plants. - Dr Royal Lee selenetiverpress.com/historical/relationship-of-soll-fertility-and-psychic-reactions/

THIS IS GOLD

Howard states: "The principle followed, based on the Liebig tradition, is that any deficiencies in the soil solution can be made up by the addition of suitable chemicals. This is based on a complete misconception of plant nutrition. It is superficial and fundamentally unsound. It takes no account of the life of the soil, including the mycorrhizal association—the living fungous bridge that connects soil and sap. Artificial manures lead inevitably to artificial nutrition, artificial food, artificial animals, and, finally, to artificial men and women."

1. Howard, Sir Albert. An Agricultural Testament. Oxford University Press, 1940

seleneriverpress.com/historical/relationship-of-soil-fertility-and-psychic-reactions/

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There seems to be a correlation between deficiency diseases and some pathological psychic reactions. Malnutrition is etiological of deficiency diseases; deficiency in nutrition is due in part to soil deficiency and poor [soil] fertility; deficiency in soil fertility is the source of food poor in quality and therefore inadequate to maintain optimal health. Thus soil fertility becomes a factor in the psychobiology of man.

James Asa Shield, MD, Assistant Professor of Neuropsychiatry.

Reprinted from Virginia Medical Monthly, Vol. 72, March 1945, by the Lee Foundation for Nutritional Research.

We in medicine are interested in optimal health, and in psychiatry we are vitally concerned with malnutrition as it affects psychobiology. It is for this reason that we find ourselves today interested in the source of malnutrition—soil, impoverished soil—as a cause of an impoverished people with psychopathological complaints.

In order to treat, we will have to understand health and disease of the soil. A fertile soil is alive with its bacteria, fungus, and protozoa. The maintenance of this microscopic life seems to be as vital for the plant as the intestinal flora is for man's nutrition. The nutrition of this microscopic life in the soil demands that we concern ourselves about its environment—the food supply, the oxygen supply, and the physical condition of the soil.

seleneriverpress.com/historical/relationship-of-soil-fertility-and-psychic-reactions

The optimal health of the bacteria, the fungus, the protozoa, and the earthworms takes on vital importance in the maintenance of a food supply to human beings that is adequate in quality as well as in quantity. Today, when the soil is being called on to furnish nutrition to large urban populations and to produce so much raw material, especially at this time for synthetic rubber and fuel, the maintenance of soil fertility becomes a greater problem.

James Asa Shield, MD, Assistant Professor of Neuropsychiatry. Reprinted from Virginia Medical Monthly, Vol. 72, March 1945, by the Lee Foundation for Nutritional Research.

The ancient agricultural practices of supplying the soil with nutrition for its life by returning all things and the refuse of all things to the soil is no longer practiced or, perhaps, possible. The multiple demands of protoplasmic growth seem to be best satisfied by natural manures. However, if chemical substitutes must be used, let us supply more completely the protoplasmic need. At the same time, the effect on the microscopic life in the soil that is vital to man's vitality must not be destroyed.

seleneriverpress.com/historical/relationship-of-soil-fertility-and-psychic-reactions

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Are Hydroponically-Grown Foods Real Food? Kinda yes, kinda no.

Is food grown without soil really 100% real food?

Advantages	Seemingly low price-smaller tablets.	Greater nutrient utilization than most rocks.	Chelated meal in tablet form.	100% real food.
Disadvantages DR Catalog Page 7	Not food. Not natural for humans. Eating rocks can be a sign of geophagia or pica.			None known. Humans have been consuming food since pre-history.

But humans only started using hydroponics at scale in the last 100 years.

[&]quot;The modern history of hydro begins in the 17th century, when Jean van Helmont's flawed yet hugely significant "Willow Tree Experiment" proved that plants obtain substances from water." -hightimes.com/grow/the-history-of-hydroponics

Freeze-Drying Nutritional Consequences

- "...nutrients, such as vitamins C and E and folic acid, are somewhat depleted through the freeze-drying process."
- Dr Gary Stoner, PhD, professor of medicine,
 Medical College of Wisconsin

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When Hydroponics Could Be Really Great

Emergency / Survival / Preparedness

- Hydroponics can grow quickly, all year round, with little water, if actual farming is not possible and you have no real food options
- An intermediary food source after you've used up actual soil-farmed / dehydrated / canned foods, and before you start using emergency long-term storage foods
- Some preppers wisely have a fully stocked, ready-to-go, dormant hydroponic greenhouse ready to go for a SHTF scenario ongoing food supply within a few weeks

Some Good News – Actual Organic Food In certain DR formulas

All of the FOOD brand listed vitamins and minerals are from vegetarian sources, and they are either wild-crafted or otherwise all grown without preservative, pesticides, fungicides, artificial colors, etc.

DR catalog page 12

Most of the fruits and vegetables listed in the products are organically grown at certified organic farms or wild-crafted. Tests done have found no GMOs (genetically-modified organisms) in any FOOD brand products. ↑

Yay!

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SP / DR

DR Isolates Added to Yeast

Isolates Added to Growing Yeast

(Similar process used by Biotics Research)

The growing process itself begins by adding water to the appropriate food at 95-105°F. The grown nutrients are natural products derived from a pure culture of Saccharomyces cerevisiae or other food grown in the proper medium under carefully controlled conditions. Certain nutrients are grown by feeding a controlled amount of the pre-bionutrient embedded into an appropriate glycoprotein to the food during the budding and/or growth process. This controlled metabolization process results in a high bionutrient food product in its most natural environment. During the budding and/or growth process, the pre-bionutrient is added to the budding yeast or re-grown food at an exact concentration, then after a predetermined time the food is harvested. The higher density mineral/vitamin food is then thoroughly washed a number of times with purified water. Then the product, upon enzyme treatment, is cold pasteurized, spraydried and packed. These products provide minerals and vitamins in a form that is readily absorbed and bio-available.

DR catalog page 13

??? "pasteurization" means heat treatment

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From a Recent DR Presentation

A Super Simple Process



Nutrient-dense foods

Nutrient culture is combined with a growth culture of lactobacillus bulgaricus and saccharomyces cerevisiae.



Nutrient conversion

A controlled quantity of vitamins and mineral salts embedded in a strategically chosen amino acids & protein matrix are added.



Completing the Process

The mixture is cooled, dried at proper temperature and added to gelatin-free capsules for consumption.

SP / DR

Some DR Formula Concerns

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Supplement Facts

Serving Size 1 Tablet

Servings per Container 180

Amount per Serving

% Daily Value

Vitamin A (Belacarotene) (in 15 mg food) 225 rag 25% (in 9 mg food) 2.25 mg 15% (in 9 mg food) 17 mg 10% (in

Calcium Iodine Magnesium	- 1		10 mg food) 2 mg food) 10 mg food)	.5 30	mg mg mcg mg	20%
Bovine Kidi	ney Cytotrophin			10	mg	**
Bovine Liver Cytotrophin			30	mg	**	
Bovine Orchic Cytotrophin				10	mg	**
Bovine Prostate Cytotrophin				20	mg	**
Milk Thistle		S	ilybum Marianum	10	mg	**
Organic Carrot Root		D	aucus Carota	65	mg	**
Organic Sunflower Lecithin		Н	elianthus Annuus	10	mg	**
Wheat Germ (Defatted)		Ti	riticum Aestivum	10	mg	**
Wildcrafted Alfalfa Flour		N	ledicago Sativa	10	mg	**
Wildcrafted Beet Root and Juice		B	eta Vulgaris	85	mg	**

* Contains less than 2% of the RDI

Wildcrafted Flaxseeds

** Recommended Daily Intake has not been established

Other ingredients: Enzymatically processed Saccharomyces Cerevisiae, Fatty Acid from Palm Kernel, Plant Polysaccharide, Silica, Digestive Aid. Contains No Magnesium Stearate. Suggested use: Serving size or as recommended by your health care professional. Adjust usage according to nutritional lifestyle requirements.

Linum Usitatissimum

25 mg

Beetafood™

Beetafood™ contains beets and beet juice. Beets are a good source of betaine, which has been shown to be an effective lipotropic agent that can sometimes assist with sugar cravings and related issues.

180 Tablets • \$42.98

23 ingredients 85 mg beet root and juice No beet leaf / Swiss chard(!)





Highly Variable Vitamin C Content: From Differing Amounts of Isolates Added to the Hydroponic Solution? 100% Food Nutrients Supplement Vegetarian Formula 25% Serving Size 1 Tablet Servings per Container 60 of the Amount per Serving % Daily Value "food" FOOD RESEARCH Wildcrafted Mixed Citrus is (Pesticide/Herbicide free) Wildcrafted Acerola Cherry Malpighia glabra **C** Complex Vit C * Recommended Daily Intake has not been established Other ingredients: Fatty Acid from Palm Kernel, Vegetarian Coating. √ Detoxifies free radicals Suggested use: 1-3 tablets per day or as recommended by your health care √ Superior source of vitamin C professional. Adjust usage according to nutritional lifestyle requirements. √ 10 times less acidic than ascorbic acid No Synthetic Nutrients • No Dairy • No Preservatives • Vegetarian √None of the statements on this label have been evaluated by the Food and Drug √ Contains real antioxidants Administration. This product is not intended to diagnose, treat, or cure any disease. NOTICE: Store in a dry place with lid tightly closed, Keep this natural food product out of the reach of children, Not recommended if contraindicated, 60 Tablets • Dietary Supplement • Product of USA

Typical DR Ascorbic Acid Concentration is 25% e.g. 15 mg Vit C from 60mg "food"

Supplement Facts: This is the part of the label that shows how much of a food and/or a food nutrient are in the product. Let us look at information from a typical label on one vitamin: DR catalog page 15

> **Vitamin C** (in 60 mg food) 15 mg Daily Value 25%

This means that each serving contains 60 mg of a food that is high in Vitamin C which supplies 15mg of Vitamin C.

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Variable Vitamin C Content: From Differing Amounts of Isolates Added to the Hydroponic Solution? Somehow



FOOD RESEARCH

Conga-Immune™

- √ Enhanced immune health
- √ Supports throat health
- √ Supports a healthy thymus gland

90 Capsules • Dietary Supplement • Product of USA



(not the usual 25%) of the "food" is Vit C in this formula

50%



Other ingredients: Vegan Capsule.

Suggested use: 2-10 capsules per day or as recommended by your health care professional. Adjust usage according to nutritional lifestyle requirements.

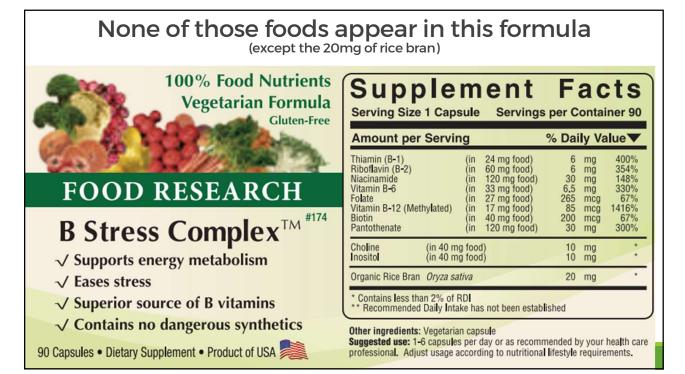
Incongruence in Nutrient Sourcing?

One part of the catalog states the whole food sources of certain nutrients (below), but the actual formulas do not use those foods as the source of those nutrients.

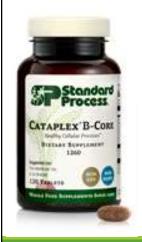
Food Nutrient*		
Carrots	Vitamin B-12	Nutritional yeast
Nutritional yeast, rice bran	Vitamin 'B-x' PABA	Nutritional yeast
	Choline	Nutritional yeast, rice bran
Nutritional yeast, rice bran	Vitamin C	Acerola cherries, citrus fruits
Nutritional yeast, rice bran	Vitamin D	Nutritional yeast, mushrooms
Nutritional yeast, rice bran	Vitamin E	Nutritional yeast, vegetable oils
Nutritional yeast, rice bran	Vitamin H	Nutritional yeast, rice bran
Nutritional yeast, rice bran		Alfalfa
Nutritional yeast, rice bran		DR catalog page 78
	Carrots Nutritional yeast, rice bran	Carrots Nutritional yeast, rice bran

DR catalog page 77

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SP Uses the Actual Food Sources of B Complex Listed in the DR Catalog, for Cataplex B Core





Serving Size: 2 Tablets Servings per Container: 60

†Daily Value not established.

	Amount per Serving	%Daily Value
Calories	10	
Cholesterol	5 mg	1%
Total Carbohydrate	<1 g	<1%*
Protein	<1 g	1%*
Thiamin	0.1 mg	8%
Folate	10 mcg DFE	3%
Sodium	10 mg	<1%
Propriotary Bland	1 515 ma	*

Bovine liver, organic beet (root), nutritional yeast, defatted wheat germ, rice

bran, organic carrot, organic sweet potato, and bovine adrenal.

*Percent Dally Values are based on a 2,000 calorie diet.

Other Ingredients: Honey, calcium stearate, and ascorbic acid.

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More Nutrient Sourcing Incongruence

States that carrots are the best source of beta-carotene (previtamin A), then uses something other than carrots as a source

In my opinion, betacarotene in carrots, however, is safer than even Dr. Sinatra suggests (there is about 12,000 i.u. of betacarotene in one raw carrot). The reason for this is because betacarotene in carrots is attached to lipoproteins which appear to aid in preventing toxicity. Isolated USP betacarotene, even if it allegedly comes from "natural" sources, simply does not have the attached lipoproteins or other potentially protective substances as found in foods like carrots.

DR catalog page 81

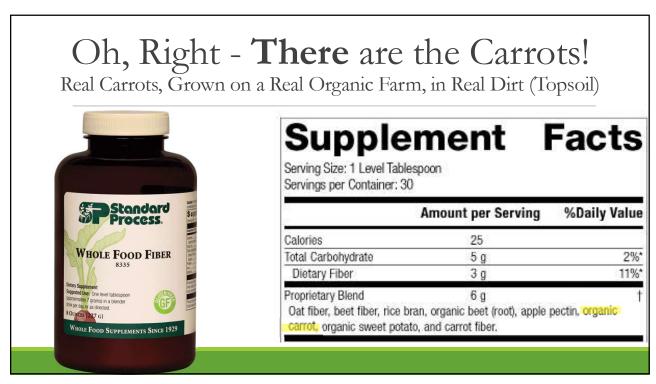
Vitamin

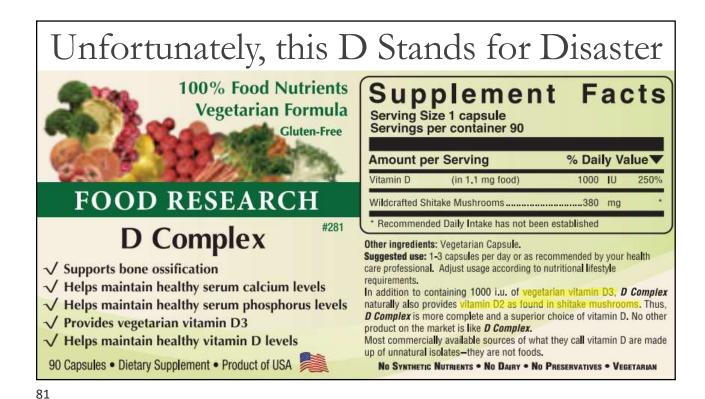
Food Nutrient*

Vitamin A/Betacarotene

Carrots DR catalog page 77







D is for Deleterious

- 1. There is no such thing as "vegetarian D3." D3 is ALWAYS an animal or fish source. So we have no idea what the source of the so-called D3 is
- 2. Irradiated mushrooms produce irradiated ergosterol (D2). It is not only ineffective in providing or replenishing vitamin D, it is highly toxic.

Vitamin F

Excerpt from Lectures of Dr. Royal Lee, Vol. II.
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Vitamin F transfers calcium from the blood into the tissues. Vitamin D puts calcium into the bloodstream. So, if you get too much D, it locks up the calcium in the blood and can't go into the tissues and you're in a bad way. That's sunstroke. You're out in the sun too much, you get too much D, your calcium is held into the blood supply and can't get into the tissues. The tissues run out. You get weak and your perspiration is shut off and you won't live very long if you don't get into the shade. Vitamin F reverses that trend, acts as an antidote for the D by diffusing the calcium again into the... moves it along where it's suppose to go. That's the function. If you use natural cod liver oil you'll get the two vitamins together and you'll never know they existed. But when you take them apart and then take the synthetic D alone then you're in trouble. Synthetic Vitamin D has killed thousands of youngsters because it caused calcification of the kidneys and created a Vitamin F deficiency.

Highly Aggressive Processing (I would say Adulteration) of Fish Oil

To prevent the possibility of toxic metal accumulation, the oil from the wild herring fish that is in Omega 3/EPA/DHA has been molecularly-distilled for purity.

DR catalog page 12

SP wisely does NOT use molecular distillation, as many fish oil manufacturers do. Every batch is third-party tested and verified free of contaminants, while being minimally-processed to make it as "whole-food" as possible.

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SP / DR

Freeze-Dried vs Low-Temperature Vacuum-Dried Food

Frozen Foods

This led to the acquisition of foods combined with a natural cold fusion process. The definition of fusion is the merging of different elements into a union, creating an enhanced whole from different elements. A natural cold fusion process is used to produce superior nutrients that are always 100% food. Enhanced nutrients occur from the merging of specific elements through a living plant into a whole food matrix through low temperature hydroponic farming. The reason that the process is "cold" is in order to preserve the naturally-occurring enzymes and other beneficial substances in the foods. Many of the processes and equipment had to be custom-made or altered to accommodate our need to maintain the fresh frozen raw foods used to create the usable raw materials. Cold fusion processing was not an after thought. No expense was spared to create these cold fusion processes and the state of the art manufacturing plant needed to keep Food Research International products the best available on the planet.

Furthermore, this form of "cold fusion-hydroponic" farming is pesticide free, and hence the quality of the food nutrients produced this way can be considered superior to conventionally grown foods. After they are grown to proper maturity, the plants are then harvested and dried.

DR catalog page 11

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Incoherent Commentary on Freeze-Drying

"Freeze-dried foods have some high quality characteristic compared to products of alternative drying process ... Drying removes the moisture from the food so bacteria, yeast and mold cannot grow and spoil the food, so can extend the shelf life. Drying also slows down the action of enzymes, but does not inactivate them. ... The application of freeze-drying process to foods is most important appears to be for meats such as beef" [48]. "Freeze drying can best preserve meat original color, aroma, taste and nutrients. Freeze drying was conducted under the conditions of low temperature and high oxygen, thus microbes and enzymes have no effect on it, you can't have it both ways food is also not affected by oxidation, food color, aroma, taste and nutrition loss minimum, so especially
WTH - this is not even remotely a sentence suitable for drying food of extremely thermal and oxidation easily. Freeze-dried is not damaging protein in meat, fat soluble vitamins VA, VD, etc have no loss" [49]. "Freeze dried foods retain nearly 100% of the health benefits of the original food product. Active enzymes, nutrients, antioxidants, amino acids, and more remain "locked in". When frozen, vital molecules remain in place and so the overall integrity of the nutritional composition remains intact. The freeze dried food is still considered a "raw food" that remains vibrant and alive in a dormant state just waiting for moisture to reactivate" [50]. I CAN'T EVEN https://doctorsresearch.com/blog/2759/the-truth-about-glandulars-in-nutritional-supplements/



Deep Freeze
Oxidizing and
Vitamin K
(1959)

Excerpt from Lectures of Dr. Royal Lee, Vol. II.

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As soon as you put anything in a deep freeze it starts oxidizing. Just like your ground up wheat flour will only last for one week before all the vitamin E is gone.

Dr. Dole, a medical doctor down in Norfork, Virginia, points out that the incidence of coronary disease went up three thousand percent in some areas where deep freezers were introduced. He said it's the oxidation of the Vitamin K in the green vegetables that did it. People didn't get any Vitamin K and their blood coagulated and went all haywire and they had a coronary attack.

So, deep freeze isn't what it's cracked up to be.

There are ways of preventing this trouble if you put your vegetables in a cellophane bag and fill it with water to keep the air away from it and then freeze the whole thing you won't have that trouble.

If you want to put up fruit you can put it up in diluted honey and water, pour over your berries and let the whole thing freeze. When you thaw it out and drain off that honey and water it tastes just like fresh ones. You've protected it from the atmosphere. You can use that same solution for the next batch if you want or you can use it in cooking or what-have-you, but you don't have to throw it away.

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Resources for Home Food Freezing

National Center for Home Food Preservation April 2018

Freezing is the easiest, most convenient, and least time-consuming method of preserving foods. The holiday seasons have a way of filling the freezer with leftovers. Adding these to the frozen bounty of the past fall's harvest makes for tightly packed freezers. You can freeze almost any foods and a list of foods and freezing instructions can be found here: http://www.uga.edu/nchfp/how/freeze.html. For a table of foods that don't freeze well see: http://www.uga.edu/nchfp/how/freeze/dont_freeze_foods.html.

Freezing to fend off food spoilage

Food spoilage is caused by microorganisms, chemicals, and enzymes. Freezing foods to 0 degrees F. is recommended for best quality.

- Freezing stops the growth of microorganisms; however, it does not sterilize foods or destroy the
 organisms that cause spoilage. A few organisms may die, but once thawed to warmer
 temperatures, these organisms can quickly multiply.
- Chemical changes affect quality or cause spoilage in frozen foods. One major chemical reaction is oxidation. If air is left in contact with the frozen food oxidation will occur even in the freezer. An example is the oxidation of fats, also called rancidity.

The Etiology Of Acute Coronary Thrombosis

HUNTER McGuine Dolles Norfolk, Virginia

an abnormal one.

From the private pavillions of The Norfolk Ceneral and Leigh Memorial Hospitals.

I wish to thank Dr. Edward Levy, Clinical Pathologist of The Norfolk Ceneral Hospital and Mr. A. D. Farmer, Director of The Norfolk City Laboratories. Also the technicians and dieticians of both hospitals for their assistance in this work.

It is now known that the richest source of the Norfolk City Laboratories.

Laboratories, Also the technicians and dieticians of both hospitals for their assistance in this work.

Prothrombia determinations have been contine procedure on all patients either in the hospital or effice during the past fifteen years. During this period I have never seen a case of acute coronary thrombosis that was not associated with hypoprothrombinemia. In many instances a temporary rise in the prothrombin activity may reach as high as ninety-five percent following na acute episode, which may be nature's effort to offset the injury but the supply of prothrombin stored is not equal to maintain its activity within the

The morphology and pathology of acute coronary thrombosts with or without myocardial infarction is more or less clearly understood but little is known of its etiology. A better understanding of the cause of this disease can be had if one looks back over a period of thirty or more years and compares its frequency then as of to day. It would be helpful if we include area in different parts of the world and a study of the animal kingdom in which it is almost unknown. The use of anti-coagulant therapy has gained a tremendous following in the treatment of herborholos disclosing the compares in the compare of the compares of the compare

(Reprinted from The TRI-STATE MEDICAL JOURNAL, February 1959) Reprint No. 129

LEE FOUNDATION FOR NUTRITIONAL RESEARCH

Vitamin K is stable to heat but apparently not to extreme cold or freezing. The following chart shows the effect of vegetables frozen and vegetables fresh or canned on the prothrombin activity of one hundred and fifty cases admitted

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What About DR Glandulars?

Enzyme Process

David Roderick?

However, a different company founded by people who once worked for Royal Lee also developed an enzymatic extraction process to boost certain biological effects of glands. The end result of this process produces glandulars that are known as enzyomorphogens (EMGs). For certain applications, this results in a superior product.

https://doctorsresearch.com/blog/2759/the-truth-about-glandulars-in-nutritional-supplements/

Fun fact: enzymatically-processed glandulars (EMGs) are NOT protomorphogens

Enzomorphogen (EMG) Supplements







These are enzyme-processed glandulars, not PMGs or an upgrade to PMGs

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DR Has No Clue About What a PMG Is

Fun fact: Dr Lee was a multimillionaire who had access to freeze-drying tech, which was invented in 1906 and widely used in WWII. First PMGs were post-War, 1952. Lee CHOSE not to use freeze-drying.

MUCHO WRONGO

Protomorphology and EnzoMorphoGens

Completely incorrect. PMGs are not beef jerky

Royal Lee often used a salt-drying process for glandulars. This may be why, although he advocated whole wrong \(\) glands for acute problems, he tended to prefer more processed glandular extracts for long term consumption wrong \(\) While that was fine for his time, freeze-drying later became commercially available. In this author's view, that made a generally superior glandular product for long term consumption.

wrong again↓

Anyway, it appears to partially boost the efficacy of salt-dried glandulars, Royal Lee came up with a process to add back part of the gland and he referred to the end product as a protomorophogen.

which Lee never actually did ↑

https://doctorsresearch.com/blog/2759/the-truth-about-glandulars-in-nutritional-supplements/

WRONG - SO WRONG - SO VERY WRONG

What About DR Animal Ingredients?

"Bovine glandulars are often referred to as cytotrophins, meaning cell foods. Other bovine glandular extracts are known as enzomorphogens."

- Food Research catalog, page 13

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SP / DR

Evaluating Recent DR Claims

Made by a Former SP Educator

Truly made from food

The Claim:

Contains nothing but food, beneficial yeast, Lactobacillus, and naturally-occurring enzymes. Nothing synthetic added. Ever. Period.

My Opinion: False. Hydroponic solutions are necessarily and by definition made of synthetic chemicals and nutrients added to an aqueous solution. I do not believe that just because synthetics are not added to the formula during production (post-harvest), that we can ignore the DR-stated fact that isolates are added to the hydroponic solution and the yeast during their growth phase.

The "truly made from food" statement is likely true for the third and smallest category of DR ingredients, the organically-farmed foods.

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Truly made from food

The Claim:

Contains nothing but food, beneficial yeast, Lactobacillus, and naturally-occurring enzymes. Nothing synthetic added. Ever. Period.

Additional Comments: SP does add trace amounts of synthetics to their formulas, for two reasons:

- 1. Dr Lee wrote them into the formulations. We may never know why.
- 2. To meet label claims of nutrient content, considering year-to-year natural crop variations in nutrient levels.

The synthetics are not why SP formulas work, and are in such small quantities as to be insignificant and certainly not harmful. My opinion is that DR uses A LOT more synthetic isolates in growing their hydroponics and enriched yeast than SP does in their post-harvest manufacturing process.

Practitioner Committment

The Claim:

Products are not available online and never will be. Practitioner-owned Doctors Research (distributor) is on our side.

My Opinion: Mostly true. This is a valid criticism of SP's highly controversial decision to sell most (not all) of their products, above suggested patient price so as to reduce competition with clinics, on Amazon. This statement leaves out the fact that DR policy allows their practitioners to sell DR products on their clinic websites, so long as they do not discount. This is similar to SP practitioners (myself included) who have an SP-created inSITE online store to sell many (not all) SP & MH products to the public.

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Animal Tissue Quality

The Claim:

Does not contain shellfish, porcine, or US-derived bovine. All animal products are from New Zealand, Australia or Argentina.

My Opinion: Irrelevant or misleading. There are hundreds of nutritional supplements sold through retail and practitioner channels that contain shellfish or porcine (pig) products, so I do not see how this statement is relevant.

The fact that DR animal products come from New Zealand,
Australia or Argentina does not guarantee quality or purity. Each
time SP has lab-tested products from other countries, those test
batches never pass because of herbicide or pesticide contamination.

Animal Tissue Quality

The Claim:

Does not contain shellfish, porcine, or US-derived bovine. All animal products are from New Zealand, Australia or Argentina.

Additional comments: SP uses two purveyors that seek the best available animals from the US – first pastured / grass-fed / organic, then USDA Prime (the top 1-3% that go through and pass inspection), since there simply not enough pastured animals available to meet their needs (30M+ animals per year). The multi-million dollar, state-of-the-art SP lab performs over 1,000 tests per week, and the company has a perfect 94-year safety record with their animal products.

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SP / DR

Conclusions

Dr Thiel & Dr Lee

- 1. Thiel espouses the Lee Philosophy of whole-food nutrition and quotes Dr Lee a lot, though his products do not at all reflect what Lee taught.
- 2. Theil attempted, unsuccessfully, like many other companies, to replicate or emulate Dr Lee's formulas. He did succeed in emulating many product names.
- 3. Good news: he orders thousands of dollars in SP products himself annually.



"Imitation is the sincerest form of flattery that mediocrity can pay to greatness."

- Oscar Wilde

goodreads.com/quotes

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Why I Am Not Moved to Switch

- Unlike DR, SP manufactures its own formulas, with a few exceptions, e.g. RNA
- 80% of all SP product ingredients are grown in actual, incredibly rich soil on its beyond-organic farm: "from seed to supplement" they control the entire process
- I have **immense** concerns about hydroponics weak foods grown without soil or soil microbes, with synthetic nutrients and minerals added to a hydroponic solution
- 94 years of accumulated SP clinical experience with tens of millions of patients
- PMGs and cytosol extracts are **entirely** different than "cytotrophic extracts" (glandular desiccates) and "enzomorphogens" (enzyme-processed organs)

Why I Am Not Moved to Switch - 2

- I do not see the level of Dr Royal Lee's genius reflected in these formulations, most of which appear to be comprised of a tiny amount of a **lot** of different things, similar to most retail "whole food" supps, e.g. Innate Response
- The 23 PMGs are entirely unique to SP, and do NOT function as **glandulars**, but rather as **antigens** (and possibly as sources of epigenetic miRNA)
- The five Cytosol extracts are entirely unique to SP, and do NOT function as glandulars, but rather as quick optimization of that organ / gland.

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Conclusions

- Standard Process entirely created this national confusion by firing about 93% of its sales force, some of whom understandably sought similar employment. With all my concerns about DR products, I deeply respect and honor those reps.
- I am absolutely clear that SP formulas are superior to DR formulas.
- I see no reason to switch companies, unless SP ceases to exist.
- I opened a DR account and may use DR products that SP does not make, e.g. nattokinase.
- You make your own decisions about what's best for you, your patients and practice.
- I hope I did my job today, which was to offer my perspectives and opinions, so you can make an informed decision. Please share your comments and questions now in the Zoom chat.



Resources & Next Steps



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Educational Resources

michaelgaeta.com - the most effective and comprehensive online & live trainings, and functional medicine certification program, in the clinical application of Standard Process + MediHerb + natural functional medicine + practice success, from the Lee Philosophy. Also there is my clinical practice: in-person and phone/video consultations & treatment

seleneriverpress.com - the teachings of Dr Lee, Mark Anderson, me and many other carefully vetted SP teachers. Use discount code Michael

drroyallee.com - Dr Lee's story

If You are an SP Rep Here Today

Thank you for being here today. I hope you've gotten some ideas about how to address the inevitable and increasingly common questions practitioners are asking.

Let's work together! Schedule a seminar or webinar through Mr Tim Bahan. I also offer live Zoom case discussion study groups for small groups of SP practitioners nationally, discussing their patients, and how to think through a case and develop a protocol. These are VERY effective.

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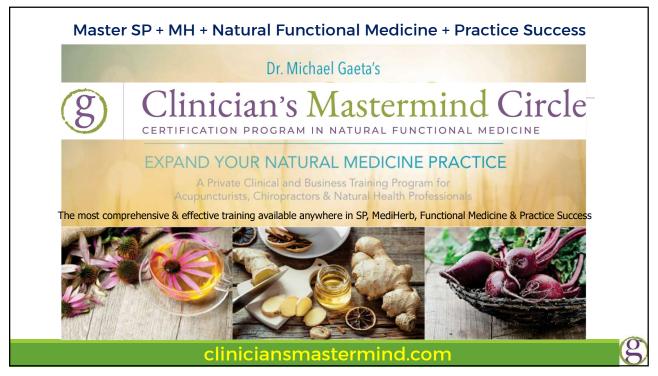
Chinese and natural functional medicine, and practitioner consultations: clinical, business, case consult

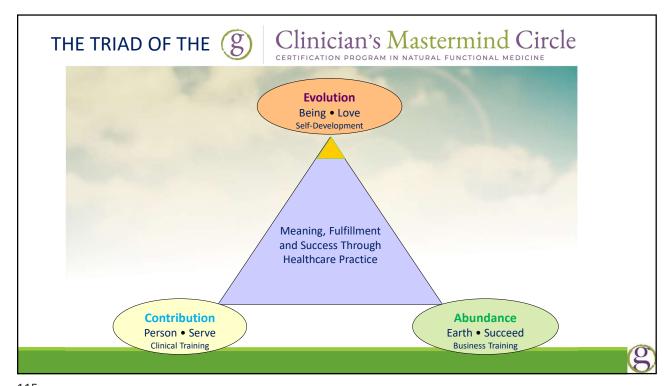


CHINESE & FUNCTIONAL MEDICINE

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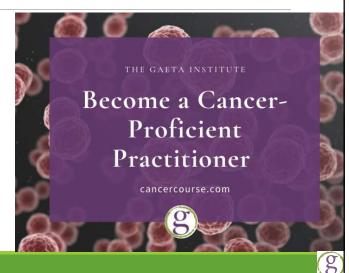
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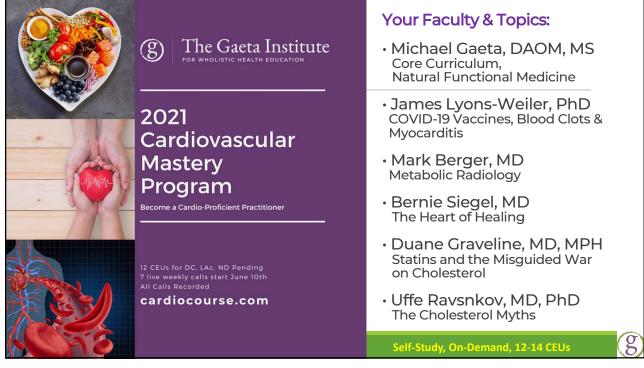
Nancy Fisher, LAc: My Cancer Journey

Your Faculty & Topics:

Michael Gaeta, DAOM: Core Curriculum Joseph Antell, CN: My Journey Through Cancer Mark Berger, MD: Integrative Radiology James Lyons-Weiler, PhD: HPV, Cancer & Vaccines Jeff Prystupa, DC: Cancer Is Hot Kerry Bone: Cancer, Herbs & Chemotherapy



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Acknowledgement & Appreciation

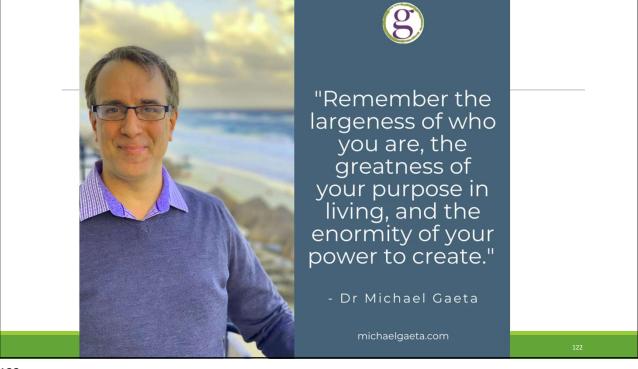
Many thanks to Mr Mark Anderson, who has been with Standard Process since 1972. He continues as an educational consultant since Jan 1, 2023. Mark is the standard bearer and champion of the Lee Philosophy, and generously provided historical facts I was looking for to back up some of the statements I made in this talk.

SP/DR

Time for Your Questions

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SP / DR

Thank you!

Peace and success to you in the days ahead.