

**THE MAGIC  
OF  
BIO-ALGAE  
CONCENTRATES**



**THE MICHAEL KIRIAC  
STORY**

**BY ROLAND THOMAS, B.S., N.D.**

**FOREWORD BY DOCTOR MICHAEL KIRIAC, PHD, N.D.**

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Bio-Algae Concentrates**



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Roland Thomas, B.S., N.D.

Foreword by

Doctor Michael Kiriac, PhD, N.D.

## **Disclaimer**

This booklet is intended for educational and informational purposes only. The authors do not suggest that readers self-diagnose and/or self-medicate without the sound judgment and seasoned counsel of a well-informed healthcare provider. We strongly urge the reader to consult an appropriately educated practitioner before making any changes to health maintenance or therapeutic regimens.

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## **Dedication**

This book is dedicated to those who have suffered from the radiation ills of Chernobyl, and to all who suffer and struggle with illness. May you find health, happiness and above all, peace.

## **Acknowledgements**

During the development of Bio-Algae Concentrates (BAC) my life has been dedicated to furthering the science and use of these God-given micro-algae nutrients for the health and survival of mankind. I would like to thank former-President Mikhail Gorbachev for his tenacious moral and financial support during the development of the concentrates amidst many political critics in the USSR.

I want to acknowledge and thank my extraordinary teachers in Ukraine and Moldova and my close associates G. Rudic, I. Scutaru and O. Sandu as well as the many scientific partners who participated in the research and applications throughout the development years. I acknowledge the numerous clients and health professionals for their testimonials as well as their openness and willingness to trust in Cellular Nutrition. Thank you Roland Thomas, for your encouragement and support in the publication of this booklet. I specially acknowledge my adorable wife Liudmila for her support, her love and constant collaboration, and my daughters Rodika and Stefana for their love and support.

Doctor Michael Kiriatic, PhD, N.D.

I want to first acknowledge Dr. Michael Kiriatic for the breakthrough development of the most advanced nutraceutical superfood on earth at this time. For more than 20 years, Michael Kiriatic took theories, performed the research and made discoveries to produce the final product available today for humanity's benefits. I want the reader to know of Dr. Kiriatic's heroic contributions to the cause of children and adults sick from the radiation of the

Chernobyl reactor. I have known about the benefits of micro algae for many years, but Dr. Kiriac's influence has taken my appreciation for Bio-Algae Concentrates' place in human health to a new level of understanding. Dr. Kiriac has made great contributions to the wellness of humanity.

Second, I want to thank my many friends and clients for sharing your experiences with me and many of you for reviewing this book for publication. It is your well-being and encouragement that makes my journey rewarding.

Finally, I thank my wife and best friend Linda, and daughters Maryse and Myriam for their unwavering support and understanding, making each of my days worth living for.

Roland Thomas, B.S., N.D.

## Foreword

All my life I have researched and applied Nutrition for the healing of health conditions. Thirty years ago, I became convinced that Nutrition was the foundation of health which encourages the metabolic system to operate optimally.

I learned that ensuring proper cellular nutrition is more complicated than eating well and avoiding excesses in our diet. It is more than adding a few vitamins, healthy foods, juices and nutritional supplements. This will not make much of a difference when our body is already compromised by daily toxin attacks from pollutants in the air, water and foods.

Most of the nutrients that we consume are absorbed into our body through the villi of the small intestine (see side bar). The majority takes it for granted that our bodies absorb all nutrition efficiently and completely. Unfortunately, nutrient absorption may be diminished or impaired by stress and what we consume.

This is because we are cellular beings – made up of trillions of specialized cells. Each cell is powered by a series of chemical reactions called the Krebs Cycle, which supplies the energy that every cell needs to carry out its activities. The process requires nutrients, including amino acids, minerals and trace elements. Thus, proper cellular nutrition ensures that the trillions of cells in our bodies are energized as best as possible allowing the cells to grow, repair and perform their functions efficiently. As a result we feel and look better, prevent and fight diseases, and control our weight.

### The Villi of the Small Intestine

The small intestine has features designed to maximize its absorption. Most obvious is its length – about 22 feet long. It is coiled upon itself and packed neatly into the abdominal cavity. Its inside surface, about 1½ inches in diameter – is folded and ridged to further increase the surface and absorption area.

A closer look reveals that these folds and ridges are covered with millions of tiny finger-like projections called *villi*. Under a microscope, the surface of the cells lining the villi display the individual absorptive cells bristling with even smaller finger-like projections called the microvilli. If the small intestine were a simple, featureless tube it would have an inside surface area of about four square yards, however the microvilli increase this to a staggering 250 square yards, about half the area of a US football field.



The principles of proper cellular nutrition are **absorption** and cellular **regeneration** which lead to all-important **cleansing** and superior **hypothalamus** function.

**Absorption** - The chemical breakdown of foods begins in the mouth with the actions of enzymes in the saliva and continues along the digestive tract to the small intestine, where most digestion and absorption of nutrient molecules takes place. Food molecules drift into the intestinal microvilli on each villi then are dissolved by various enzymes until they are small enough to pass through the villi and into the bloodstream.

However, much of our nutrition never gets into the bloodstream because our villi are often destroyed by salt, sugar, fat, tobacco, alcohol, chemicals, medicine, pollution and stress. The energetically-impaired villi break off and become ineffective for optimum absorption.

**Regeneration** - The body regenerates at the cellular level. It replaces the villi every three days only if there is enough nutrition absorbed to rebuild the villi. Since absorption is generally compromised, there is a degenerative **downward spiral** that only gets worse because each new generation of villi are created more slowly. The poor absorption also compromises the continuous generation of new cells in the heart, lungs, other organs, muscles, brain, bones and the rest of the body, creating cells of poorer quality.

**Cleansing** - Compounding the problem, our Western lifestyles put tremendous toxic strain on our vital organs and glands. The stomach is perpetually stuffed with denatured foods of incompatible combinations. The liver is strained and even swollen while breaking down massive intakes of animal protein and fat as well as the associated drugs and poisons in the animal products. The pancreas balloons to abnormal size due to the over-demand for digestive enzymes to process enzyme-deficient foods. The villi and microvilli may break off and clog up the digestive tract, and the colon

becomes lined with layers of glue-like undigested foods that poison the bloodstream.

Because of poor nutrition, incomplete absorption and slow cellular regeneration, the blood and other tissues accumulate toxins and gradually lose their vitality. If we do not purge ourselves of these toxins regularly, toxicity becomes worse until the body either purges itself spontaneously – diarrhea, acne, pimples, boils, liver spots, foul perspiration, body odor, bad breath, and so forth – or it simply gives up the battle and succumbs to degenerative conditions.

**Hypothalamus** - The main metabolic body-balancing control system in the body is the hypothalamus located at the base of the brain and top of the spinal column. It connects to the organs and glands in synergistic two-way communications. Via the bloodstream, it also receives very important nutrients as well as requests from all the cells in the rest of the body. If the hypothalamus is poorly fed, it does its job less effectively, continuing the **downward spiral**, becoming less and less able to properly control the glands required in by the digestive system and respond to the requests by the cells to perform its myriad other functions.

Mother Nature will ultimately sentence anyone who consistently breaks the laws of nature to chronic disease and premature death. The number of people in their 40s, 50s and 60s with serious health problems that lead to heart attacks, cancers and strokes is staggering and unnecessary.

When I came to Canada, I realized that in my homeland, the former USSR, we had a better level of nutrition since we lived closer to the land – fresher, more natural foods and less pollution. Only in the ravages of the Chernobyl nuclear disaster did I see the level of the degenerative diseases – cancer, diabetes, Osteoarthritis, allergies, and immune system disorders – that I found in North America. Why is that? Poor nutrition, as described

above, is the major problem.

In this booklet, you will learn that Bio-Algae Concentrates (BAC) regroup thousands of naturally occurring, balanced and synergistic nutrients to overcome the inefficiencies and blockages in the digestive system for **higher nutrient absorption** into the body, **enhanced regeneration** of all cells including the villi and microvilli in the small intestine, reduction of the load on the **cleansing** organs of the body, and the awakening of a sluggish **hypothalamus**. The downward spiral is reversed into an **upward spiral** that triggers cellular awakening and metabolic healing in the trillions of cells in your body to increase health and vitality, boost your immune and nervous systems and other vital organs.

The end result is – you will **feel** the difference!

– Michael Kiriatic, Montreal, December 2002

## Bringing Light to the Shadow of Death

It was 1949. Michael Kiriac's mother, Stefana, was horribly worried for the whole family. Stefana's father, Stefan had just died young of pancreatic cancer. Eleven years earlier, the same cancer had claimed the life of her son Simion at age twelve. This kind of genetic weakness often decimated families in the region. Her fears for her family – born and unborn – materialized in a series of tragic deaths from pancreatic cancer.

Michael Kiriac was destined to finally stop the tragedies for his family and thousands of other families – but it took 40 years. His magnificent story follows.

Michael was born February 23<sup>rd</sup> 1952 in Kishinev, Moldova, then part of the Union of Soviet Socialist Republics (USSR) as the youngest of ten children in a single-story, three-bedroom house. His father Ignat, worked as a laborer on the local farms. Michael loved his father, who was healthy, strong and worked hard all his life.



Michael Kiriac's Birth Home  
Kishinev, Moldova

A poor but simple country lifestyle did provide the opportunity to live close to the land eating fresh home-grown foods and fasting at times according to the local orthodox religious principles. His many older siblings challenged and tutored him from a young age, accelerating his early learning and fueling his innate curiosity of nature's fascinating ways.

From the age of eight, Michael began to help family members, neighbors and friends with headaches, back problems and other maladies. He learned to employ diverse local herbs, oils, recipes and herbal blends known as poultices as well as Bioenergetics, a hands-on energy modality.

Michael was already demonstrating a remarkable understanding of what bodies need for health.

In the continuing family tragedy, Ignat Kiriac was diagnosed with pancreatic cancer in August of 1964 and died a few months later. Nothing could be done – the disease was sudden and death rapid. It shook everyone in the family.

The family had been dependent on father's salary, even though the USSR's system supported their housing. Michael came to rely on his sister Shock and doom swept the whole family, leaving young Michael astounded that all the discoveries and progress of science were powerless to stop the tragedy. Filled with burning questions about cancer, life and death, and the shortcomings of medical science, he resolved to devote his life to the search for answers.

Four years later, not far from the Chernobyl nuclear power plant that would later gain infamy around the world, Michael left high school, diploma in hand, eager to absorb everything the University of Moldova could teach him about disease and health.

## **The Road to Discovery**

### **Discovering Nutrition as The Way to Health**

After three years of intensive study in Human Anatomy, Physiology and Biology, Michael began to realize that we are cellular beings, nourished by other cells of nature, and that Nutrition had the potential to surpass the “break and fix” approach to medicine by preventing degeneration and empowering cells to thrive as nature intended them to do.

At the same time, Soviet policy demanded that research be done at many universities to end the pandemic of cancers running rampant through Eastern Europe and Western USSR in the 1970's. The Moldova Academy of Sciences agreed with Michael's professors that his desire to focus on organic nutrition was worthy and sponsored research at his university, beginning a long and fruitful association that would give him superior research opportunities.

He focused his research on identifying foods that would far exceed the modest results that raw, organic and green natural foods had already been shown to provide. Michael knew then that he could make a difference in people's lives and he decided to dedicate his life to health via natural nutrition. To that end, he took a degree in Cellular Nutrition in 1973.

### **Supernutrition in Algae**

After graduation, the Moldova Academy of Sciences put Kiriatic to work on several research projects in the region, but encouraged him to pursue his own research while continuing his studies.

As part of his research, he attended lectures on current Japanese scientific research and papers describing good results with Chlorella, so he decided to begin his research efforts with this micro-alga. See the text box,

## “What are Algae?”

Today algae are being used by millions of humans and animals around the world. They are known to boost health, effectively avoiding the need for antibiotics to combat infections.

During his early research, hundreds of trials and tests using the Chlorella alga showed good results in reduction of cancers in cattle, sheep and goats but not in chickens, rabbits, pigs or horses. This led to an important realization that Chlorella's cell membrane is made of cellulose, which requires the enzyme cellulase for proper digestion, so the latter species could not digest Chlorella properly.

After two years of research with the Chlorella alga, he looked at hundreds of other algae with strong emphasis placed on several Spirulina algae, which at the time had shown

significant results. *Directed research techniques* were applied allowing him to accomplish hundreds of precise tests with conclusive results. For example, at times he and his researchers worked with more than 250 test groups of 30-40 diseased animals per group.

### What are Algae?

Everything humans need to live in good health already naturally exists on the earth. One of the most healthful foods is spread in a fine film over most of the surface of the earth, invisible to the naked eye. However, modern *intellectually* intelligent humans have lost sight of its value. Ancient humans, Aztecs, Mayans, tribal Africans, the largest mammals (whales) and other *intuitively* intelligent animals have long been aware of this natural life-giving food source. The plant cells in this film are called *algae*.

These little organisms are miniature factories, turning out amazing amounts for nutrients such as vitamins, minerals, protein and enzymes. They contain more nutrition per ounce than anything you can eat, including bee pollen which is the most nutritionally dense land-based food.

There are over 25,000 species of algae on earth, and more are discovered each year. They contain a higher concentration of chlorophyll than any other known plant, and have a very complex RNA and DNA.

It is a complete protein food, containing large amounts of beta-carotene (vitamin A), all the B vitamins, vitamin C and E, and many minerals in high enough amounts to be considered perfect food. *Most importantly*, though, the essential amino acid profile of algae is virtually identical to that required by the human body.

Algae are effective in eliminating heavy metals, such as lead, mercury, copper and cadmium. The protein yield is greater than soybeans, corn or beef. Some algae contain GLA, a very important essential fatty acid and a precursor to the body's master hormones. Research has shown that Spirulina algae alone could double the complete protein available to humanity on a fraction of the world's land. Acre for acre, Spirulina yields 20 times more protein than soybeans and 400 times more protein than beef. Its makeup is 71% protein, 17% carbohydrates, and 7% fats.

All these algae stimulate the immune system, improve digestion, detoxify the body, enhance growth and tissue repair, accelerate healing, protect against radiation, help prevent degenerative disease, and promote longer life. They all strengthen the liver, the body's major detoxifying organ.

They have a beneficial effect on arthritis and hypertension. Their most important benefits seem to come from a combination of molecules that biochemists call the Controlled Growth Factor, a unique composition that provides a noticeable increase in sustained energy and immune health when eaten regularly.

## **Searching for the Best Algae**

Hundreds of different species of algae from all over the world were selected and tested between 1973 to 1977, both for individual benefits as well as for complimentary synergies various combinations in the intensive search for the best algae. Over 65 strains of Spirulina alone were involved in experimentation.

Various blue, green and red algae were also used, including the Carotenoid-rich Dunaliella and Astaxanthin-rich Haematococcus Pluvialis, for their superior antioxidant power. Astaxanthin alone may carry up to 1,000 times the antioxidant power found in Vitamin E and up to 40 times that found in carrots.

Kiriatic and his team rapidly achieved significant results using various concentrations of base algae such as Spirulina and Dunaliella.

As was customary in the former USSR, research always began with laboratory mice and rats before proceeding to larger species like poultry, ducks, rabbits, pigs and cattle. When research demonstrated a very safe solution, research proceeded with humans.

With mice and rats, responses were rapid due to their natural extraordinary metabolic strength. It proved more difficult with the larger animals. The results though promising were not efficient or rapid enough to enthuse the team. They knew that a breakthrough blend was necessary to help the larger animals.

## **Another Tragedy turns Focus to Human Solutions**

Tragedy again struck the Kiriatic family in 1977. Michael's first-born, Julian, fell ill and died within four months. Not until then was it discovered he had a systemic endocrine cancer. His devastated family was resigned that it was the unfortunate genetic disposition to the glandular cancer his parents and many siblings suffered.



But not Michael. He was convinced that nature's complete nutrition could make a difference. From then on, his research focus turned as much to human solutions as possible. He knew that dramatically improving the health of the cells in humans would not only effect their health but that of the DNA within the cells. Further, genetic transmission from cell to cell is influenced by the central nervous system. Excellent nutrition creates better memory in the nervous system and therefore in the DNA.

Michael believed that cellular and genetic health, as well as a stronger immune system, could be passed on to his future children through their mother, Liudmila. He was determined more than ever to find the correct combination of micro-algae to not only remedy cancers and other diseases and conditions, but to prevent fatal illnesses in his family. His wife was among the first to receive the new micro-algae formula as it was developed, leading to the excellent health of his wife and yet-to-be born daughters.

Mr. Kiriac had narrowed down his research to two strains of Spirulina (for their high content of naturally-occurring proteins, vitamins, minerals and enzymes), and Dunaliella (for its exceptional vitamin C and antioxidant content) and Astaxanthin (superior antioxidant power). However when the algae were used singly or in multiples, the cancers were not eradicated quickly enough or with enough consistency. New significant steps were made when for example; it was concluded that these base algae by themselves were lacking in sufficient vitamin C or zinc for proper assimilation of their nutrients and minerals, or in enzymes and antioxidants to effectively combat cancer and other conditions and diseases.

## Amazing Production with Bioreactors



**Research Bioreactor**

Creating technology to grow algae very effectively in a controlled environment

In 1978, the first of many extraordinary accidents occurred which led to a significant discovery and advancement in the research on the algae and its growth technologies. One night, the lights in the hydroponic basin – know as *Bioreactors*, were left on by mistake exposing the algae culture for a longer period of light than planned. The next morning, the algae color had changed from its usual dark green to a new reddish tint, the color of beta-carotene. The algae had increased in beta-carotene content because of the overexposure. This simple discovery led to many more experiments applying various changes to the base environment, such as light exposure, temperature, turbulence, nutrients and duration of exposures.

These experiments resulted in the controlled increase or decrease of various combinations of nutrients in the algae: alpha and beta-carotene, sodium, zinc, selenium and several beneficial vitamins and minerals.

### **Eureka! Bio-Algae Concentrates (BAC) – Supernutrition**

With the culmination of several years of research, the resulting micro-nutrient algae concentrates were coined *Bio-Algae Concentrates (BAC)*. Compared to the earlier, simple algae blends, the BAC nutraceutical power difference was black and white. See side bar “**What are BAC Compared to Algae?**”

It was rewarding working with BAC combinations when applied to mice, rats, ducks, chickens and rabbits because of the rapid healing effects of BAC on the animals. For several of the test animals, many generations were possible within one year, enabling researchers to quickly observe the effect on the next generations.

During this exciting discovery period, Mr. Kiriac realized his dream: the proper mix and dose of BAC would help the prevention and recovery from many diseases for humans as well as for animals. Thousands more tests, trials and applications were made with mice, rats, chickens, rabbits, and pigs, with many cancers, as well as with cattle, which in Europe were affected by leukemia.

#### What are BAC Compared to Algae?

Bio-Algae Concentrates (BAC) are a breed apart from any basic algae such as Spirulina or Chlorella. BAC has powerful, rejuvenating, healing and nourishing effects on the body and brain. BAC is a breed apart because of:

- ◆ The balance and synergies between the selected algae in the blend
- ◆ Applied hydroponics, enhancing each base algae
- ◆ Precise proportion and specificity of the blends - the sum is larger than its parts

Each base algae is selected for its base value alone then for its balance and synergistic properties in combination with the other algae:

- ◆ Spirulina Pacifica and Platensis have the broadest number of proteins, vitamins, minerals, EFA, trace elements and enzymes naturally occurring on earth
- ◆ Astaxanthin, derived from Haematococcus Pluvialis, is believed to be the algae that can accumulate the highest levels of antioxidants in nature. Studies suggest that Astaxanthin can be more than 1000 times as effective as vitamin E
- ◆ Dunaliella is a green or yellow mono-cellular algae that contains the highest known concentration of beta-carotene: approximately 10% of the base algae weight. Dunaliella has been used in anti-cancer research and has many promising results in reduction of tumors and cancer cells. It is also very high in vitamin C which complements Spirulina's low content. Data also suggests there is synergy between Spirulina and vitamin C.

The end BAC product has all naturally-occurring constituents, as nature meant it – not artificial:

- ◆ High protein content: 35% average with 90% net utilization
- ◆ Nature's special forces:
  - Phytonutrients- phycocyanin, chlorophyll, polysaccharides, sulfolipids and many more
  - Best Essential Fatty Acids (EFA) on earth- Omega 3, 6 and 9, and linoleic acid (GLA)
  - 4000+ active enzymes- more than any other known product
  - Most powerful antioxidant: Astaxanthin has as much as 1000 times the antioxidant power of vitamin E and 40 times that of carrots
- ◆ All required vitamins: A, B1-B12, C and K
- ◆ All Essential Amino Acids plus ten more
- ◆ All 92 natural and trace elements

All essential minerals: calcium with 80% net assimilation, zinc, sodium, iron, phosphorus and potassium.

His ultimate realization was *“that what was really at work was the self-healing power of the body in combination with super nutrients”*. Given the enormous offering of nutrients that are naturally occurring in BAC's balanced and synergistic blend, the body's innate capacity is triggered to take what it needs to nourish and self-repair. BAC via super nutrition targets the brain glands, in particular the hypothalamus, pituitary and pineal, because only they and the central nervous system they control are able to powerfully awaken a sluggish immune system.

This discovery and research results were published within the Academy of Science.

By then, Mr. Kiriac was driving his research towards solutions for pancreatic cancer in several animal populations with the intent to resolve this disease for the remaining members of his family. His personal motivation to find cures for pancreatic cancer lead to extensive research and the development of many BAC formulations throughout these productive years.

## **Mother's Cancer Brings Inspiration**

In 1984, while Mr. Kiriak was nearing confirmation of the optimum combinations of algae and of the technologies of the base solutions in his research, his mother was diagnosed with pancreatic cancer. She attempted to combat the cancer with his latest concepts and knowledge – using raw foods, wheat grass juice and Spirulina – but not the algae formula, since it was not perfected for humans at that time. She tragically succumbed to cancer at the age of 80. It had seemed so possible that his research and efforts could have saved her.

This further demonstrated the strong genetic tendency to pancreatic cancer in the family and brought gloom to the remaining family members.

After his mother's death, Michael turned his pain and heartache into even more determined action and inspiration. He knew he was close to a breakthrough that could save the rest of his family. He worked day and night with hundreds of animal test groups.

Finally, after this extremely hard work, many years and thousands of clinical tests, his team had narrowed their focus exclusively to the red Haematococcus concentrate Astaxanthin, orange Dunaliella, and the two best blue-green Spirulina. Precise enhancements and combinations of these four prime algae provided the long-awaited blends with superior balance and synergy.

From this point forward, success with larger animal species was rapid as the Bio-Algae Concentrates delivered much more potent and absorbable nutrition immediately to cells. The health of both large and small animal populations was consistently stabilized in four to six weeks and for many, remission would occur rapidly after, due to the innate power that fully nourished and empowered cells have to cleanse themselves and split into

healthier daughter cells.

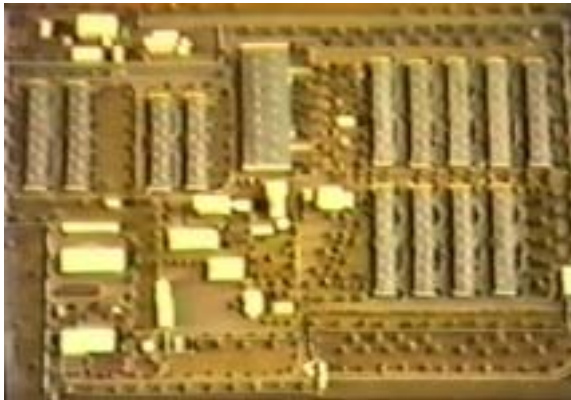
During those years, many parallel experiments and practical applications with humans were ongoing with the researchers themselves and local medical clinics.

Michael became known as a brilliant young scientist and contributor to the future of mankind. His reputation and discoveries had spread in scientific circles as far as Moscow, including the Academy of Science and the Ministry of Nutrition and Science.

## **Supernutrition Validated and Expanded with Millions of Test Animals**

In 1985, after completing ten years of intense research focusing on the science of algae applied to cancers and other diseases with the Academy of Science of Moldova, Kiriac was enthusiastically invited to join the Ministry of Agriculture of Moldova as chief of the Nutrition Sciences department. They asked him to accelerate his research for application to the agriculture industry, specifically livestock.

A large poultry farm in Moldova was selected to be the research center and the proof of the concepts discovered. He spent the next eleven years



**Research Center**

Facility for 600 workers, 200 researchers and 1.5 million egg-laying chickens in 20 buildings

working on or with this facility, even while on other assignments and managing other projects. Today, he continues to collaborate with the facility.

Housing and research facilities were established for 600 workers and 200 researchers. The research center hosted up to 1½ million egg-laying chickens in several buildings surrounding

the main research facility, each holding 75,000 chickens.

Mr. Kiriac later remarked that this facility alone raised more chickens than half the population of chickens found in the entire province of Quebec, Canada. This was unheard of elsewhere because of the danger of disease wiping out all the chickens at once. But Mr. Kiriac was not worried since BAC was being applied to the chicken feed resulting in consistently disease-free chickens.

The research center's mandate was to:

- House the largest, most technologically-advanced algae Bioreactor facility on earth
- Eradicate and prevent diseases on the farm, including cancers such as the Marek disease.
- Increase animal productivity
- Be as biologically organic as possible
- Derive profits selling animal products to Europe and other countries.



**Bioreactors**

Several, stacked five meter square surfaces each providing as much as 25 acres of open farm land while delivering more nutrients in the perfectly-controlled environment.

Over the years, the project was able to achieve astounding animal health. For example, the poultry achieved 100% healing and eradication of the Marek disease, saving 100% of the diseased animals. About 50% of the newly-healed animals were returned to the production cycle to lay eggs again. All this was achieved with the use of organic grains and BAC, without the help of antibiotics, growth hormones or other artificial means.

This farms gained superior productivity as demonstrated by:

- 20% higher productivity overall
- Larger, leaner animals
- Larger eggs with stronger shells
- Better birth survival
- Less disease, including eradication of the Marek disease
- 24 versus 17 months of egg laying





**1.5 Million Egg-Laying Chickens**  
Created the best animal testing facility in the world

- 14 more eggs per month per chicken
- Absence of pathogenic bacteria, such as salmonella
- Better tasting meat and eggs
- High concentration of curative nutrients in the eggs even when eaten raw

In addition, extensive use of BAC by the farm workers contributed to better health, less absenteeism and more human productivity.

Reaching its organic goals, everything produced from the chickens was used or re-used, such as eggs, meat, egg powder, and chicken droppings for organic fertilizer.

The farm also became economically viable. Poultry-derived products – egg powder, chicken meat, eggs, and poultry droppings – were sold in several countries: Germany, Holland, Bulgaria, Austria and Vietnam.

In two years, it was observed and confirmed that when applying BAC to the first generation of poultry, the subsequent generation became healthier and the next generation even healthier, stronger and more resistant to diseases. The second and subsequent generations did not suffer from cancers.



**Poultry Productivity 1976-1988**  
After devastation by Marek disease to a nine-year low in 1985, Mr. Kiriatic's new methods and BAC dramatically raised productivity

The farm allowed for extensive directed technology research because of the large population of chickens available as test groups. As a major leap in global research, Mr. Kiriatic was able to use part or all of the huge populations

in each building, to further prove out the value of BAC. Most clinical research with animals is normally limited to 40-100 test animals, but he was able to compare BAC's results in large populations of 28,000 - 83,000 chickens to another large test group of similar size. Each test group was verified for diverse signs of health, such as: longevity, birth rates, food taste, animal size and number of eggs.

The resulting best dosage was introduced in the industry immediately on this farm with associated economic productivity increases. At that time, this project had become a major priority for the USSR. Budgets were approved for continued research in the production technologies and the final BAC formulations. This support allowed for the significant advances and precise formulation of the recipes.

These successes were highly rewarding and motivating for Mr. Kiriac who by then wanted to convert the world to this kind of organic health. To this day, he remembers the delicious taste of the eggs and chicken meat, as well



**BAC-Fed Chicken Eggs**

Larger and have High Concentrations of Curative Nutrients

as the curative eggs, even when eaten raw. So incomparable were the successes with health recovery, that he was very anxious to develop BAC for humans, for helping with the cancer crisis and for protecting his family.

The benefits continued unabated. Biological farming with BAC as feed supplement led to planning for the development of the largest BAC production centers in Europe: Moldova, Voronege and Moscow in Russia, Omsk and Kamchatka in Siberia. The large, hydroponic *Bioreactors* allowed for year-round production, independent of the weather and the sun, capable of producing far greater volume of higher-grade algae due to the easy control of

the base culture used.

This greatly reduced the space needed for algae production. One liter of harvested algae paste delivered thousands more nutrients as that found in 25 acres of Alfalfa. Alfalfa was used extensively for poultry feed because of its many nutrients and beta-carotene. One jar of BAC nutritionally exceeds twelve trucks of Alfalfa.

It was very rewarding for Mr. Kiriac that many of the researchers and project workers would “misappropriate” BAC for themselves and their family, friends



**Mr. Kiriac Holding BAC in Lab**  
One jar of BAC nutritionally far exceeds twelve trucks of Alfalfa

and pets. There was a “blind-eye” policy applied to these “white” thefts.

During that period on the poultry farm, significant side research with rabbits was completed, primarily because of certain cancers that were affecting this species in Moldova. Rabbits were excellent subjects because they produce three generations in one year.

The results were of great importance and a revelation to Mr. Kiriac. The cancers were eradicated in the first year. It was observed that the rabbits with BAC in their diet would bear two to three more offspring, compared to test groups. Additionally, their fur was much shinier and longer.

The USSR expended hundreds of millions of dollars into this enterprise to research and apply BAC to livestock. Then-Secretary Gorbachev personally sponsored the research during his tenure, though he was yet to know that Mr. Kiriac headed the projects. Unfortunately, all of the benefits and results of BAC were slow to be communicated and accepted in the USSR. The conservative bodies were lobbied by the pharmaceutical industry or politically influenced in other ways to maintain the established methods of

using antibiotics and growth hormones, somewhat like the situation in the USA.

While Mr. Kiriac was creating marvelous results in Moldova, Mikhail Gorbachev was elected President of the USSR in March 1985. Under his leadership, great advances took place, even in the wake of a disaster. Mr. Kiriac was now ready to accept one of his greatest challenges in helping people with his BAC.

## Chernobyl Nuclear Disaster – Major Healing



### Chernobyl Radiation

**Initial impact:** immediately after explosion

**Extended impact:** 30 days later

The Chernobyl nuclear power plant reactor exploded on April 26<sup>th</sup> 1986, creating chaos, extreme pain and suffering, but allowing major advances in the human application of BAC. The disaster was a major event in the life of Mr. Kiriac and his family, and of course for the USSR at large. War measures were enacted for all

of Russia after the explosion and were maintained for many months. The extent of the disaster was increasing everyday, but its potential spread remained unknown.

Mr. Kiriac and his family lived 500 km (about 300 miles) from the epicenter and were subjected to radiation directly as well as in the local food and animals. Both his children, Rodika and Stefana were affected like most local children. Both daughters had marks on the head and body. Rodika, then seven, was losing up to two-inch wide patches of hair.

Mr. Kiriac fed BAC to his entire family, putting them on daily rations of the thick paste concentrates fresh from the Bioreactors. To this day, the oldest daughter, Rodika, can still remember the strong smell and taste of BAC. She is very grateful to her father for providing his wonderful invention to the family. Today, both daughters are healthy, beautiful young women.

When disaster struck at Chernobyl, Ukraine, not only was the region around the reactor affected, but the neighboring state of Belarus received 70% of the



**Chernobyl Child**

160,000 children suffered from radiation illnesses. BAC saved many thousands

radioactive fallout and 23% of its territory became contaminated. Over 160,000 children and 146,000 cleanup workers were victims of radiation poisoning resulting in birth defects, leukemia, cancer, and thyroid disease, degeneration of spinal fluids, liver and bone marrow, as well as anemia, loss of vision and appetite, and a severely compromised immune system.

Mr. Kiriac was assigned to work closely with the medical sectors to assist the sick. Because of his previous success with various cancers, he was asked to work with the Health Ministry of Ukraine to distribute BAC to thousands of children and adults suffering from radiation illness.

Mr. Kiriac very closely monitored the health improvements:

- Leukemia, dangerously low white blood cell counts of about 1000, rose to an average of 3000 in 20 days, leading to rapid improvements in the health of treated children compared to others who did not receive BAC.
- Regeneration of bone marrow, spinal fluids, blood and liver.
- Reduction in children's urine radioactivity levels by 50% in only 20 days, when administered five grams per day at the Minsk Institute of Radiation Medicine.
- Many other virtual miracles were observed

Amazingly, there was health restoration even when children's disease was so advanced that their eyeballs were bulging out of their sockets.

In addition, the healing occurred during continuous presence of radiation as well as contaminated food and water sources.

Mr. Kiriac first met President Gorbachev following a series of meetings addressing the medical crisis – see the side bar, “**When Michael met Mikhail.**”

Mr. Kiriac was able to describe to President Gorbachev: the concept, the workings and the usages of BAC, the benefits for the industry and the health arena, as well as to the results and success obtained in Moldova showing the productivity and economic potentials.

When President Gorbachev asked what should be done, Mr. Kiriac explained the idea of building several Bioreactors to supply the USSR with BAC. He further explained that the next one should be on Kamchatka which has one of the world's most bio-nutrient rich water sources.

This led to a very important milestone, as President Gorbachev told Mr. Kiriac to do all that he could for the human tragedy and to order what was needed for finances for his assistance in Chernobyl, as well as promised him continued support for his future projects.

Many people died at Chernobyl of course, but the miracles were numerous. Given the super nutrients in BAC, rapid progresses in healing were observed.

Mr. Kiriac remarks, "It is important to note that the Chernobyl disaster is still ongoing.

Even though the exploded reactor is "sealed" in concrete, radiation continues to escape into not only the local atmosphere, but due to winds, into the world atmosphere as well."

### **More Projects Multiply the Success**

Moving rapidly from project to project would seem to be forced by the

#### **When Michael met Mikhail**

In August 1986, Mikhail Gorbachev frequently came to the Chernobyl disaster area, visiting the hospital and the crisis management center. Besides presiding over the USSR, President Gorbachev's first priority was resolving the Chernobyl crisis. This catastrophe, unseen by the West, was of the highest priority. It had major survival implications for the USSR. The nation was pla

Besides caring for the sick, the first priority was to stop the leakage. The strategy adopted was "to bury the exploded reactor under immense wall of concrete." All workers involved in the cleanup and the burial projects knew they would either die or be very ill from the radiation.

Sitting next to President Gorbachev at a dinner during a medical conference, Mr. Kiriac characteristically took a big chance and asked him "Mikhail Sergeyeovich, why are you drinking coffee?"

President Gorbachev, a little amazed at the question, responded, "Why do you ask -- what am I suppose to drink?"

Mr. Kiriac was very conscious of the effect of the radiation fallout effecting the local food and water, so he said, "Please drink only pure water especially when you visit this area. Drink from a bottle, and make sure it was sealed. And also, please do not eat when you visit the area as the food is also contaminated."

President Gorbachev said "I am going to starve!" and Mr. Kiriac gave the leader a bottle of BAC and told him to take only the capsules when visiting the area. The leader said jokingly, that he would still starve, and that he would be speaking to his then Minister of Health regarding not having had this advise before. That made Mr. Kiriac quite nervous about reprisals, since his department reported to that Ministry.

Fortunately there were no reprisals. In fact, quite the opposite happened later due to continuing conversations with the President General.

After that dinner, President Gorbachev was always seen with a bottle of water, and Mr. Kiriac was on his way to making a significant difference at Chernobyl, as well as the USSR's contribution to animal productivity and global health.

USSR. However, Mr. Kiriac's notoriety in the nutrition research circles, especially in the Ministry of Science, allowed him the opportunity to become a very respected leader. He was then able to influence the formation and head projects that he felt would be most beneficial to his goal of showing that Nutrition is the best source of healing and health in animals and humans, especially in the many epidemics of cancers in the USSR.

Although the Ministry of Nutrition Science was somewhat influenced by the USSR's medical system, which like the USA system imposes rules such as using antibiotics, he stopped short of embracing all their concepts: he did not vaccinate his animal subjects and focused on Nutrition versus drugs.

His published papers showed great scientific progress toward his ultimate goals. Had the USSR maintained its strong world presence, Mr. Kiriac's and President Gorbachev's goal would have become a reality: make the USSR a world leader in Nutritional solutions for disease and health.

During this period, the USSR was suffering many threats to its existence: economic, political and military. The continuation of Mr. Kiriac's work was supported by Gorbachev, but driven by Mr. Kiriac as well as the Ministries and scientific circles in which he worked.

In 1987, Mr. Kiriac was nominated Moldova's Person of the Year for his altruistic support of the Chernobyl crisis and for the resounding achievement and successes at the most economically important poultry center with its financial return for Moldova. In honor of the occasion, a lengthy national TV documentary was produced and introduced by Mr. Ciubuk, then Prime Minister of Moldova (Many photos in this booklet were taken from this documentary film).

### **Voronege Yields a Second Bioreactor**

An epidemic of various cancers was decimating the pig population around Voronege near Moscow. Following the resounding success with the



poultry industry in Moldova, the prestigious Moscow Academy of Sciences became very interested in the BAC research and results in Moldova. It was suggested (an order and honor you did not refuse) that Mr. Kiriatic join the team in Voronege to build a second Bioreactor and research center, then proceed immediately to stop the local epidemic of cancers with the pig population.

Voronege was the premier biologic research center and the largest and most influential scientific health center in the former USSR and in all of Europe. Shortly after the arrival of Mr. Kiriatic, a Bioreactor was built and the exact BAC blends for pigs were developed. Within one year, the epidemic was under control and the cancers subsiding.

Following the success at Voronege, Mr. Kiriatic was appointed General Manager at the Moscow Academy of Sciences to further prepare for the next test bed for livestock. Detailed plans were formulated for a first test farm in Lithuania for modeling a broader rollout of biological and livestock production in Russia.

Lithuania was the best place politically as it was already receptive to this kind of forward thinking. Lithuania was also quite open to alternative medicine while the rest of the USSR remained more conservative.

However, following the political struggles in the USSR, this was not to happen. The efforts in Moscow included the allopathic model to blend or develop the ideal medication for both human and animals. Mr. Kiriatic had to fight many pressures from the allopathic model to maintain his assertions that Nutrition was the best solution. Mr. Kiriatic had to use his known alliances with President Gorbachev in a defensive strategy on a few occasions while at the Ministry. By then the President was well aware of the virtues of BAC and supported an organic Nutrition focus.

## **Saving the Minks**

In 1989, an epidemic of various cancers was decimating the mink population in Siberia mostly around the large city of Omsk. The mink industry in the USSR was an important and historically beloved industry because of the superior fur. Once again, the Nutrition department of the Moscow Academy of Sciences ordered Mr. Kiriatic to join the team in Omsk to eliminate the cancers there and save the industry.

The first order was to build a local Bioreactor, providing BAC for the project as well as for the region in the future. The effort proceeded to fine-tune the right BAC concentrate blends for minks and to add them to their diet.

By the following year, the epidemic was under control and the cancers subsided. This was further evidence of the power of BAC, which created greater support for Mr. Kiriatic whom was by now respected for his research and successes.

## **Siberia's Volcanic Waters Yield Hot Discoveries**

As a result of political changes beginning in 1989, the USSR rapidly disassembled in a short period causing major economic, political and geographical changes in the entire region. Mr. Kiriatic was looking forward to the breakdown of the Berlin wall and of the communist system as were most of his comrades. Without the impediment of the USSR central government's bureaucracy, he envisioned a strong democratic economy in which they would be able to rapidly promote the concepts of BAC: socialistically to help people and commercially for the livestock industry.

However, to the contrary, the breakdown of the USSR brought out more endemic social problems of alcoholism, general apathy and laziness resulting from the many years under a communist regime. Worse yet, this allowed for criminals and the mafia to reign. All these factors greatly effected the budgets for BAC research and the launch of algae and organic farming. Moldova

regained its independence, but was left with significant economic hurdles and problems.

Nevertheless the next year, as part of the continued research projects, Mr. Kiriac made the proposal to create a BAC Bioreactor on the volcanic peninsula of Kamchatka, Siberia. In contrast to the bureaucratic and controlling rules in place at the time in Russia, this project was pushed through and approved within one week. Even under budget constraints in post-USSR Russia, Mr. Kiriac was able to obtain continued support in subsequent years.

The Kamchatka Bioreactor was built in the next four months and proved to deliver more than what Mr. Kiriac had expected. He had selected this specific location because of the presence of extraordinary volcanic nutrients in the water. This ideal water contained 92 and more trace elements including selenium and sodium bicarbonate, all naturally occurring in an ideal temperature of 35° to 37° C (95° to 99° F). This was perfect as base solution for BAC and allowed for the presence of the best Essential Fatty Acids (EFA's) within BAC, some of them yet unknown to science.

### **Accolades Prelude Dramatic Changes**

In 1990, Michael Kiriac received his Doctorate in Biotechnology. He was assigned to the Department of Nutrition at the Moscow Nutrition Sciences Research Institute where he continued to support all his projects.

Three years later, as a further verification of BAC and his work at Chernobyl, the Belarus Ministry of Health concluded, “algae preparations decrease radiation dose load received from food contaminated with radionuclides, Cesium-137 and Strontium-90, and promotes the evacuation of radionuclides from the human body.” No side effects were ever registered.

In spite of this, it was becoming apparent that to continue his work, Dr. Kiriac would have to leave Russia. His homeland, Moldova, had become very

poor and still is – the Industrial enterprises had broken down. It was very difficult to be a scientist, and being an entrepreneur at heart, working in the current system was next to impossible. His imminent decision to leave was clear, however the transition to a new country would be difficult.

## **North America – Stress and Opportunity**

In 1995, Dr. Kiriac presented his invention at a conference in Brussels, Belgium. There he met a Canadian diplomat suffering from diabetes, for whom Dr. Kiriac provided BAC. After talking about the conditions in Moldova and hearing about Canada, Dr. Kiriac accepted an offer for assistance in preparing and facilitating immigration visa for all his family to move to Canada.

This was a very difficult decision for him and his family, but he believed that with his Doctorate as well as his scientific expertise and knowledge, he would be able to easily transition his business into Canada.

## **Not the Dreamland Expected**

So the following year, he moved to Montreal with his wife Liudmila and daughters Rodika, 17, and Stefana, 11. Contrary to his hope, the transition to Canada was much more stressful and sobering than anticipated. Their first realization was that learning Quebec's *two* languages – French and English – would take at least a year, and this would slow up his ability to open his business or earn a living. In addition, finding work was not as easy as expected – Quebec had a high unemployment rate, so the competition was fierce. Before he could establish his business, he had to work for other providers of health products and solutions for sustenance.

Soon after their arrival, his wife began to suffer severe anemia from the stresses of the earlier radiation effects of Chernobyl, the relocation away from close family and the life change. The condition was very severe and had it not been for BAC, she may have died.

Compounding his problems, coming to Canada he had left not only his birth family and his homeland – he had left all his support systems. In hindsight, he could have immigrated to Europe as the European scientific community had already recognized his work and continues to do so with accolades and awards. European companies did and continue to pursue him

to join them because of his scientific research and successes.

In addition, the Canadian mainstream medical model, patterned after the UK and the USA, did not honor his naturopathic work. In fact, the tendency was to suppress it since it ran counter to the concepts of drugs and surgery as the solution to disease and conditions.

Otherwise, he did manage to quickly learn how the Canadian capitalist system functioned well enough to be back in production in three years

### **More Tragedy Demands Production Facility**

While working towards his goal, in 1997, his oldest sister, friend and second mother, Eugenia, was diagnosed with pancreatic cancer at age 69. Dr. Kiriatic was still struggling, so he had neither the money nor the equipment to formulate the BAC recipe which he already knew would save his beloved sister – nor was he in a position to contact Ukraine to assist with her treatment.

Upon her death, he was devastated – the pain and frustration was enormous. He resolved to accelerate production of BAC in Canada.

In addition to his sister's disease, Dr. Kiriatic became very concerned with the significant levels of diseases in America at large. Diseases that he was not accustomed to seeing in Eastern Europe included: diabetics, obesity and Alzheimer's disease as well as a high occurrence of heart and cardiovascular problems, and cancers of many sorts.

Dr. Kiriatic attributes these diseases to the poor nutrition habits in our countries, to the high and uncontrolled stresses in our lives, the high levels of pollution in the air, and in the processes our foods are subjected to: preservatives, canning and overcooking. Sugar, alcohol, drugs and fast foods are terrible addictions for the vast majority of Canadians and Americans. Contributing to these problems, there is a significant abuse and misuse of medication and supplements.

Later in 1997, Dr. Kiriac brought BAC alive in Canada to help people with these health problems. He founded BioNutrition to begin formulating BAC products. But the harsh realities of life were to delay his plans. Besides the significant investments required setting up the production, Dr. Kiriac was still in a steep learning curve with the French and English languages, and had to work to survive economically.



**Processing Plant**

Today in manufacturing of BAC, the latest technologies invented by Dr. Kiriac are used during several processing cycles. Dr. Kiriac implemented ultra-violet lighting in the ceiling of the encapsulating and bottling plant. This lighting kills airborne bacteria before it can penetrate the plant and assures a clean product.

Two years later, Dr. Kiriac began producing BAC in Canada. The algae growth and harvest is outsourced to the best producers in the world then imported to Canada for blending, encapsulating and bottling under strict quality assurance. He remains a *pioneer* in the industry and continues to work closely with growers as an advisor. Often he will help these growers to introduce unique technologies which he invented.

## **North American Validation of BAC**

From 1999 to 2000, working with the research department of the Montreal McGill University, Dr. Kiriac was able to reproduce the poultry productivity results achieved in Moldova. Working with two tests groups of 13,000 chickens each, the group with BAC added to their grain demonstrated the expected results over the control group not fed BAC: larger eggs, stronger shells, longer egg-laying period, more eggs per month and no diseases. This test was performed twice for further accuracy.

During the 2000 Winter Games held in St. Petersburg Russia, BAC was compared with two other supplements – a Ginseng and a Chinese herb. It was reported as best by the Russian hockey team for: general pain

reduction, particularly knee pains as well as faster and better recuperation of energy and blood oxidation after games. Igor Kravcuk and Pavel Bure, team members and NHL players, sponsored the test and carried BAC to the team in Russia, as well as reported these successes to Dr. Kiriac in Montreal.

For the next two years, additional research was performed by independent researchers at Laval University in Quebec City, this time on the effect of BAC on prostate cancer and leukemia. The results showed that BAC was highly efficient when taken frequently in small quantities during the day acting as a trigger for the body's self-healing power.



## Current Activities

Later in December, as the highest educational honor of his life and career, Dr. Kiriac was nominated Professor of Education and Human Rights to Health by the International Association of Educators for International Peace and the International Consultative Organization. From that day forth, he holds the title of Professor, and in some cases Professor Doctor Kiriac to also honor his Doctorate. With this recognition, Prof. Kiriac is entitled to teach at any French language university in Europe.

## International Recognition

In January 2002, BioAge LLC began distributing BioNutrition's products to health professionals in the United States where BAC's legacy of wellness continues.

In March of 2002, following the high visibility and honors received at the Eureka conference, Prof. Kiriac was further recognized in Europe by the most prestigious European Medical Association (EMA) and made honorary Fellow of the association in recognition of his participation at Chernobyl always working in close cooperation with the medical sector of Ukraine.



**52<sup>nd</sup> Eureka International Invention Award**  
Awards continue to abound for BAC and Dr. Kiriac

In November 2002, representing Canada with BAC, Dr. Kiriac was again awarded several honors at the 52<sup>nd</sup> Eureka International Invention conference held in Brussels, Belgium. BAC received the highest honors, the Commission's Cross and the Golden Globe Award – BAC was hailed as the best nutraceutical product in the world! Over 900 inventions from all over the world were presented at this annual show including products by the Chinese and Japanese who working mainly with Chlorella for many years have not

managed to snatch the top awards as BAC has. However, their conference representatives paid their respects to Prof. Kiriac for his superior work and resulting product formulation.

Though the rest of the world has yet to recognize his work publicly, Prof. Kiriac is dedicated to work so that the miracle of BAC will assist the world to better health and wellness.

Today, Prof. Kiriac works closely with health practitioners and directly with patients as often as he can. BAC is sold in hundreds of Canadian nutrition stores and pharmacies that sell natural food. He spends most of his time lecturing and training the health practitioners that utilize BAC to help their clients in their practices. He continues his efforts to work closely with the medical sectors in Canada providing training to some doctors that are currently working with the product in their practice and at Hospitals.

## **Nutritional Recommendations**

Doctor Kiriac recommends a comprehensive approach when dealing with illness prevention and treatment. No, BAC is not a panacea. You must also *work* to improve all aspects of your life, including the physical and spiritual aspects. The most successful illness prevention and treatment program addresses diet, lifestyle factors (smoking, alcohol intake, stress, and relationships), exercise and physical activity, and an awareness of the mind-body connection.

In this context, BAC can make a profound difference.

Nutrition-wise, his basic recommendations for healing rather than taxing foods consist in:

- Go out of your way to choose and eat only organic certified foods
- Always lean towards whole fresh and non processed foods
- Eat many raw or lightly cooked dark green, orange, yellow and red

vegetables everyday

- Eat some fresh fruits everyday
- Get your proteins from best and organic sources depending on your diet choice (many grains, vegetables, fish, eggs, white meat, etc)
- Select foods low on the glycemic index and foods that help maintain your body alkaline instead of acidic
- Drink at least 10 glasses of pure water everyday for basic hydration
- Make a concerted effort to eliminate the “junk” foods from your diet - and YOU know what they are.

Sound nutrition is not simple, it is a science. We must protect ourselves, immunize ourselves and increase our basic protection with foods that are rich in enzymes, phytonutrients, essential fatty acids, vitamins, minerals, trace elements as found naturally occurring in nature. Examples of these foods include: Bee products such as Bee Propolis, fruits such as Papaya and Acerola, mushrooms like Shiitake, Reishi and Maitake, grains, such as whole grain products, Oat, lentils, Mung beans, and Basmati rice, sea vegetables like Dulse, Wakame and Hijiki, grasses such as Kamut and Alfalfa, nutritional yeast, Aloe Vera, vinegars, alkalinizing fruits such as Lemon, yellow Grapefruit and Avocado, and many more.

But even with the best of nutrition and exercise, we remain under attack from several pollutants and other cancer-causing and bio-hazardous agents in our food, water and air. We must further boost and protect ourselves and immunize ourselves with super micro-nutrients such as BAC, for this super natural protection.

When making nutrition and supplementation choices always seek advice from a professional and make certain to understand the recommendations in this booklet.

## **The Many Uses of BAC**

As discussed in this booklet, BAC is optimum nutrition and as such is involved in many important body functions. It is almost unbelievable that a safe, natural substance can be that effective for so many different types of conditions. Even this author was skeptical about BAC in the beginning. However, a thorough review of the scientific evidence, meeting with so many people and their health success stories, combined with an understanding of how BAC works in the body, makes it far easier to accept that BAC provides many different benefits.

For example, it becomes easy to comprehend why BAC is so safe when knowing that algae have been manufactured by Mother Nature for over four billion years and that it is the stuff that salmon and certain whales live on. Algae are known as “the bottom of the food chain” because they offer the most nutrients with the least toxicity.

When fed the right raw materials, the human body has internal controls and mechanisms to keep it healthy and fight damaging free radicals. BAC is one of those unsurpassed raw materials that allows for self-healing magic.

Because of its involvement with most vital biochemical processes that affect human health, it is easy to understand that BAC can benefit a wide range of conditions, in addition to cancer. Over the years, Prof. Kiriak has applied BAC successfully to many of our modern diseases and has shown the tremendous nutraceutical and therapeutic power of BAC in alleviating most degenerative diseases.

BAC now helps thousands of people in Europe, Canada and the USA providing health benefits for heart disease, cancer, diabetes, arthritis, fibromyalgia, liver disorders, osteoarthritis, glaucoma, endocrine gland disorders, depression, allergies, arthritis, nervous system and immune system disorders, anti-aging, sports and fitness, and more.

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  - Moldova Person of The year (Michael Kiriac) - Moldova Television, Documentary 1987—Extracts from Documentary 2002.

## Summary of Awards

- ◆ Nominated Moldova Person of the year: In 1987, Mr. Kiriac was nominated the person of the year in his country of Moldova for his altruistic support of the Chernobyl crisis and for the resounding achievement and successes at the most economically important poultry center with its financial return for Moldova. A 1:50 minute's documentary film was made for the occasion and introduced on national television by Mr. Ciubuk the then Prime Minister of Moldova and his Minister of Finance.
- ◆ Gold Medal – New Technology for Algae Production – asi, Romania – This innovation was applied in the largest poultry farms of Moldova and was recognized at the International Exhibition For Research In Industrial Invention, 1994
- ◆ Silver Medal – Element of Protein Synthesis – Pittsburgh USA – This innovation was well received and recognized during the Show Management Index sm IX., 1995
- ◆ Gold Medal & Special Award – Earth Ecology – (Brussels, Belgium 1995) Industrial Use of Poultry Waste (Droppings) – Invention honored and recognized during the International Eureka Show, granted by de heer Lue Van Den Bossch. The goal of this innovation was in the elaboration of a new technology, which uses transformed poultry droppings at an industrial level.
- ◆ Nominated Professor (Education and Human Rights to Health) by the International Association of Educators for International Peace (AEIPM), and the International Consultative Organization (UNESCO, UNICEF, ECOSOC/ONU)
- ◆ Awarded Honorary Diploma in recognition of his international activities, in the social, humanitarian, cultural, scientific, health, education and philanthropic domains. Award given by the International Association of



Educators for International Peace (AEIPM), and the International Consultative Organization (UNESCO, UNICEF, ECOSOC/ONU)

- ◆ Nominated Doctor in Philosophy by the International Political and Cultural Sciences Academy – Brussels, Belgium, 2001
- ◆ Gold medal – Prof. Kiriac received for his efforts supporting the ill effects of Chernobyl with BioSuperfood, 2001
- ◆ Gold Medal – Invention BioSuperfood for Animals – International Eureka 2002 – Brussels, Belgium
- ◆ Gold Medal – Invention BioSuperfood with Jury's Mention – International Eureka 2001 – Brussels, Belgium
- ◆ Nominated Academician of Merits with Scientific Mention and Jury's special mention in recognition of his activities by the International Scientific Academy Life Universe Nature (A.S.I.V.U.N.) – Toulouse, France.
- ◆ Nominated Fellow of European Medical Association for contribution to Chernobyl disaster relief effort. Vernon Coleman MB ChB Dsc., March 2002
- ◆ Baarons Foundation has awarded the Best Performance to Michel Kiriac, D.Sc. in INDIA In Acknowledgement of special achievements in the field of ECOLOGY. Baarons Foundation – Organization for Rural Development in all fields, 2001
- ◆ Illuminated Diploma of Honor and Bronze Medal from Directors, Officers and Researchers of the Biographical Center of Cambridge – 21<sup>st</sup> Century Award for Accomplishments in the Field of Alternative Medicine has been duly conferred upon Professor Dr. Kiriac.
- ◆ Great Minds of the 21<sup>st</sup> Century – The Governing Board of Editors of the American Biographical Institute has selected Professor Prof. Kiriac as a Great Mind of the 21<sup>st</sup> Century due to significant accomplishment within and mastery of Alternative Medicine. Documented in the premier edition of *Great Minds of the 21<sup>st</sup> Century*, reserved for Men and Women whose

Accomplishments and Influences are the Results of Superior Conditioning of the Intellect.

- ◆ Cross of the Legion, Highest award from the Commission, 52<sup>nd</sup> Eureka 2002 Inventions and Technologies, Brussels, Belgium
- ◆ Golden Globe award, 52<sup>nd</sup> Eureka 2002 Inventions & Technologies, Brussels, Belgium, World's best product!

## **Summary of BAC Ingredients and Benefits**

Bio-Algae Concentrates (BAC) are naturally-occurring, balanced and synergistic micro nutrients which contain:

- Complete Protein makeup: averages 30% vegetable proteins with net utilization over 90%
- 20 amino acids - All ten essential amino acids and ten additional
- Required vitamins: A, C, E, K, B's and B complex (B1, B2, B3, B6 including human-active B<sub>12</sub>, and Inositol)
- Colloidal Minerals: iron, zinc, calcium spirulan, phosphorus, potassium, sodium, manganese and magnesium
- Over 92 colloidal (plant derived) minerals and trace elements
- High levels of alpha-carotene, beta-carotene and phycocyanin
- Essential Fatty Acids (EFA): the "good fats that heal" rich in Omega 3, Omega 6, Omega 9, and rare GLA – its high gamma linoleic acid content is similar to early mother's milk
- More than 4,000 natural active enzymes that contribute to the efficient digestion of fats, carbohydrates and proteins, permitting greater assimilation of nutrients and total elimination of toxins
- One of the richest sources of chlorophyll, a well-known agent for its antibacterial, anti-fungal and anti-inflammatory benefits
- Astaxanthin that offers powerful immunity and toxin shield against continuous pollution, toxins and stress with hundreds of times the antioxidants power of vitamin E and 40 times that of carotene in carrots

## **Major Benefits of Bio-Algae Concentrates**

- Support the body to cleanse and eliminates excess and build up of heavy

and toxic metals

- Produces superior protection against the symptoms of aging with tangible feeling of renewal
- Replaces the need for multivitamins and other synthetic supplements
- Daily intake guarantees at least your five servings of fruits and vegetables, and thousands more nutrients
- Significantly increases the efficient assimilation, absorption and elimination of the foods consumed daily providing more nutrients to your body
- Supplies a balanced blend of nutrients that support a healthy cardiovascular system
- Significantly increases the assimilation of your daily calcium from foods

The statements contained in this booklet are for informational purposes only. If you have serious health conditions or are uncertain, always consult your healthcare provider.

## **Comments and Questions**

For comments or questions about this booklet,

Tel: 303-539-5321 or toll free 877-288-9116

For additional copies of this booklet call the numbers above or email [info@michaelkiriak.com](mailto:info@michaelkiriak.com) or visit [www.michaelkiriak.com](http://www.michaelkiriak.com).

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## About The Authors

**Doctor Michael Kiriak, PhD, N.D.**, and Academician of Merits. In 2002, Doctor Kiriak was received Fellow of the European Medical Association for helping the children of the Chernobyl disaster. For 22 years, Mr. Kiriak was the lead researcher and director of the effort to develop nutritional solutions to various diseases in the USSR. A *pioneer* and world authority, author of many scientific papers and patents in the science and technology of growing and enhancing micro algae concentrates for their use in human and animal health. He is the recipient of six gold medals for the invention of BioSuperfood™ and its use to heal the children of Chernobyl. Founder and CEO of BioNutrition, Inc, Doctor Kiriak lectures and promotes Nutrition all over the world to alleviate health conditions and problems.

**Roland Thomas, B.S., N.D.**, is President and Founder of BioAge, LLC and editor of its monthly nutrition and health e-newsletter. Roland has been a holistic health enthusiast since his first exposure to health, nutrition, yoga and vegetarianism 38 years ago. Roland currently practices Naturopathy in Denver, Colorado. Prior to forming his company and becoming a Naturopath, he was a successful business entrepreneur, and worked 25 years in scientific industries. He is a business graduate from the University of Montreal and a graduate in Naturopathy from the Trinity College of Natural Health.