Lyme disease (LD) is commonly understood as an infection caused by the spirochete bacteria *Borrelia burgdorferi*. It is the most common vector-borne illness in the U.S and Europe. However, Lyme disease (LD) is so much more than a straightforward bacterial infection; it is a serious multi-faceted condition. While a growing number of people are being diagnosed with LD, often diagnosis and treatment can be challenging due to its diverse manifestations, the limitations of currently available blood tests and different perspectives on the best clinical approaches for treatment. The challenges of Lyme disease are further complicated by sensationalized stories in the media and a lack of full understanding of what LD is and its relationship with and impact on the body. Often Lyme is portrayed as a deadly beast, or a terrifying monster that will never fully leave. For many who are undiagnosed for years, the consequences have been undoubtedly devastating. Conversely, others believe that Lyme is a simple disease where one can take a course of antibiotics and be cured. Quite a lot of the “information” on Lyme is simply wrong or at least just half the truth. When we take a closer look at all of the facts and circumstances that are involved with Lyme, you will find an undiscovered clarity regarding the disease and what ultimately needs to be done to cure it.

1 More than 150,000 cases have been reported to the U.S. Centers for Disease Control and Prevention [CDC] since 1982.
Lyme disease is a very complex illness. It is definitely much more than just a simple bacterial infection and even more than a multi-infection. Lyme disease should more appropriately be understood as Lyme syndrome (LS) given the complex signs, symptoms and phenomena that make up the illness. Fundamentally it is a disease of “imbalance” in the body. The imbalance extends all the way down to the cellular and mitochondrial levels of the human system, which are the core building blocks of life.

Despite its complexity and even the confusion and occasional ignorance surrounding this condition, it is curable. However, to fully cure Lyme disease a more in-depth, layered and holistic approach is necessary than is typically followed by most practitioners.

Most importantly, for a genuine “cure” to occur, we must stop regarding the human body as a war field where “chemical bombs” and antibiotics are the weapons of choice.

Even if one begins with the limited perspective that LS is a bacterial infection, it is amazing in the 21st century that Western medicine continues to follow misguided and misinformed beliefs about bacteria and its relationship with and within the human body. Knowing that 90 percent of the human organism consists of bacteria, doesn’t it seem a bit absurd to want to kill bacteria? Consider that the desire to kill bacteria in the name of “healing” may in fact be more of a deadly attack on life itself.

Looking at the “impact” of medical treatment we may start to ask questions.

In recent German statistics it can be read, that general doctor treatment can only achieve a 3 – 5 % rate of successful healing.

Let’s consider some of the facts and details about bacteria and the makeup and functioning of the human body that have important implications for the treatment of Lyme:

Louis Pasteur, considered one of the founders of modern medical microbiology, is best known for promoting the germ theory of disease. His life’s work can still be seen today on every carton of milk with the word “pasteurized.” In its essence, the germ theory states that the body is sterile and disease is caused by external germs (microbes). Pasteur was criticized by contemporaries like Claude Bernard (French physiologist and doctor, 1813 – 1878) and Antoine Béchamp (French chemist and biologist 1816 – 1908), for being too preoccupied with the cause of disease—the microbe—at the expense of looking at the terrain or soil in which disease develops. For Béchamp, he understood that microbes naturally exist in the body and it is disease that creates an opening for microbes to express themselves. The internal terrain of the body, responding to various forces, fosters the development of germs from within. Yet even Pasteur realized towards the end of his life that “The germ is nothing, the surrounding is all.” However, at the time he finally acknowledged this truth, he no longer had the ear of the public.

We know from history that errors, when they are popular and economically beneficial for certain interests, can last for many centuries. We are surrounded by a large variety of lies dominating our everyday lives, that affect what we believe, the choices we make and how we

http://www.susandoreydesigns.com/insights/pasteur-recant.html]
care for ourselves. Many of us are just unaware. Unfortunately the consequences of our lack of “awareness” about bacteria and the terrain of the body are now having devastating consequences on human health. This is particularly so for those both newly diagnosed or living with the complex syndrome called Lyme.

Knowing that the terrain of the body and the bacteria which inhabits it is truly everything, let’s consider some of what is known, but not widely publicized about the human system and how it can either facilitate or eradicate the proliferation of LS.

**The immune system**

Our immune system is a complicated network of different strategies and defense mechanisms. Even today immunologists know rather little about all the details and depths of the immune system. When trying to understand the role and functions of the immune system related to LS, there are several vital realities to consider that have far wider implications for anyone concerned with trying to heal or maintain their health.

**The Gut**

Our gut is the largest area of contact to the outer world. Imagine the size of a football field, compared to the area of our skin – just a few square meters. The gut lining is our inner skin. It is kind of a passageway, beginning in our mouth and ending in our anus. For our digestive system to function properly there must be a “solid” barrier deciding what may pass through the mucosa to become part of “us” and what must be taken care of by the lymphatic system as a foreign intruder. The intestinal lining is the first mechanism of defense for our immune system. Our intestinal walls must be able to determine what is good for us and what could possibly kill us. The protective mucous produced by any mucosa in our body plays an important role, producing mucosal antibodies IgA. This concerns food or antigens. When the gut lining is not intact, IgA is low and all doors are open for infections.

Whatever we put in our mouth must first be broken down far enough in order to be able to pass through enteric cells. These cells are connected by structures called “tight junctions.” A protein, consisting of amino acids, will be broken down to its components then passing through the intestinal wall, it will be recognized as a nutrient. During the normal digestion process the tight junctions stay closed, which compels all molecules to effectively be screened and only pass into the blood stream through the mucosa cells.

In the case where tight junctions within the gut are not really tight (also known as leaky gut syndrome), for instance a tripeptide (three amino acids bound
together) can pass through it. Immediately this tripeptide will be recognized as an antigen, and will be taken care of by the lymphatic system forming an antigen-antibody complex. These complexes float around in the blood, becoming a burden to the immune system and cause discomfort. Leaky gut is caused by antibiotic therapy, cortisone therapy, other allopathic medication, permanent stress, opportunistic pathogens, heavy metal exposure, high frequency radiation (especially wireless internet connection) and chemicals in our food.

The gut flora consisting of a huge variety of bacteria is not only vital for the appropriate digestion of food, but also to maintain a healthy pH balance, to protect the gut lining, and to keep the mucosal immune system in balance. Each little imbalance can have dramatic consequences, leading to an overgrowth of Candida, Clostridium or other putrification germs. Clostridium species can actually kill you, drive you “crazy,” and cause neurological illness or depression. It wears off Diaminoxidase, an enzyme that is responsible for breaking down histamine. At the very least, it can have a damaging impact on the liver by producing ammonium. Anything that inhibits bacterial growth will change the healthy and balanced bacterial flora. Every single preservative in foods does that. However, antibiotic therapies are the world leaders in ruining healthy gut flora.

Before beginning a treatment plan, it is important to first find out what exact stage our guts are in. This means assessing the healthy flora, possible overgrowth, the mucosal immune system, the tight junctions, state of inflammation, pH, pancreatic action, histamine, and possible residue in stool. Knowing this, the right action can be taken. Just throwing in probiotics to create intestinal “balance” may be the wrong decision given that it is not known WHAT exactly is in imbalance.

**Vaccinations**

“After all, I don’t know, whether I have done good or damage to mankind.” – Dr. Edward Jenner

Dr. Edward Jenner, British medical doctor, (1749 – 1823) who invented the small pox vaccination, spoke these words.

On May 14th 1796 he dared an experiment injecting pus from a cow’s pox into his gardener’s 8 year old son. This boy James then had caught the more harmless cow’s pox, but recovered instead of dying of small pox. His body seemingly had built up immunity towards small pox.

The Latin word for cow is “vacca”, so this was the first “vaccination”.

Every single virus being vaccinated causes long term antigen-antibody complexes floating around in our blood. These complexes are long term because they in effect become “locked” by adjuvants like
aluminum, mercury or formaldehyde, which are components of vaccines. Long term antibodies are IgG antibodies. What does it mean to have elevated antibodies? It means, having an illness chronically. That requires a closer look.

When an infection enters the body naturally, the immune system has its alarm reactions: fever, early antibodies (IgM), diarrhea, sweating, and throwing up. These reactions are the body’s wonderful tools for cleaning up the mess of infection. When germs enter the body through vaccinations, this is a completely unnatural intervention. Nature would never ever infect you with three, five, or even ten different infections at once coming through a needle into your tissue or blood stream. The body’s natural reaction, which would be the acute outbreak of the illness that has been injected, is prevented by the adjuvants, which immediately cause long term antibodies to show up. What this really means is that the price we are paying by using vaccinations is preventing an acute illness by having it chronically!

If this is not enough bad news, the worse news is that there’s no way out from this “locked,” debilitated state for the immune system. If an average person has perhaps 10 vaccinations, what this means is that they are carrying around 10 infections chronically, fixated by adjuvants, that are —by the way- neurotoxic substances. This chronic state of various infections blocks the immune system, and in many cases causes neurological damage or (so called) autoimmune reaction. The more vaccinations, the busier the immune system is, and the less it can deal with other infection. Ultimately this results in a higher risk of developing autoimmune disease and multi-system illnesses.

We must also consider the fact, that repeated vaccinations cause an imbalance in immune response, triggering a so called TH2-shift. A TH2-shift is the bottom line to allergies, auto immune response and cancer.

Given that nobody can really say for sure what exactly elevated antibodies determine, it is a good idea to use other means that determine whether an infection is present or active. As an example, in lymphocyte transformation tests (LTT) that are used in Germany, I have often seen tetatoxoid being active, which is the cause of the frightening disease Tetanus. The more tetanus shots that a person may have to “prevent disease,” the more tetanus toxin is actually being locked in muscles and tissue.

Bacterial vaccinations play a slightly different role. Our organism cannot produce antibodies or immunity towards bacterial infections. We can catch them again and again and again. This begs the question of what sense does it make to vaccinate against something that can reoccur?

For some added insight, some centuries ago people would take a little bit of arsenic every day in order to survive an
attack with arsenic. They built up a tolerance towards it. However, a little side effect was that they also built up a chronic arsenic intoxication. When referring to Tetanus, the same principle is applied. There is NO immunity towards Clostridium tetani, the bacteria causing Tetanus. Yet, it’s not the bacterium itself, but its toxic waste, the tetatoxoid, which causes the frightening disease Tetanus. This is precisely what is used in the Tetanus vaccine and with the “support” of stabilizers it is being locked in the organism for many years.

This example is so instructive because it exposes the reality that there is NO immunity towards the Tetanus bacterium.

There is NO immunity towards bacterial infections in nature.

There is chronic intoxication with the tetanus toxin. This toxin causes symptoms including tense muscles, cramps, and tetanic syndrome. The good news is that in modern civilization a healthy person will hardly ever catch Tetanus.

While tetanus is relatively rare, we do know that people are regularly being vaccinated for other bacterial infections including Diphtheria, Tuberculosis, and Pertussis. Vaccinations block parts of the immune system, intoxicate healthy immune reactions and in many instances form the drop that makes a full jar flow over. Most medical doctors know that a patient is immune deprived or is carrying an infection. Yet, do you remember, whether your doctor ever actually asked?

Therefore, why would we want to pollute the body with substances that clearly hurt more than help the immune system’s ability to fight infection and imbalance?

When looking at chronic Lyme, we should know what and when vaccinations were given. The amount of vaccinations one receives directly correlates with a patient’s situation.

German therapist Antonie Peppler, who invented Creative Homeopathy, has shown in many cases, that vaccinations can be detoxified by using high potency homeopathic nosodes of the vaccines, including the mental issue, that each illness/vaccination comes with. “Before an illness turns into a life threat, I’d rather take it over as a lifelong, chronic and smoldering process.” Success with dissolving and excreting the vaccines can be seen in blood work/lab results. Antibody reaction goes down along with LTT figures.

In 2009, Japanese researchers Ken Tsumiyami, Yumi Miyazaki, Shunichi Shiozawa at Kobe University ran a study investigating the cause of autoimmunity from a different angle. They examined the potential defect in the immune ‘system’ to explain the cause of autoimmunity. In the results published in December 2009 Tsumiyami states: “…Most importantly, we now show that autoimmunity arises not from ‘autoimmunity,’ but as a natural consequence of normal immune response when stimulated maximally beyond system’s self-organized criticality.”

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3 Antonie Peppler: “Neurose durch die Spritze” Raum & Zeit 2009
The study concludes that “Systemic autoimmunity appears to be the inevitable consequence of over-stimulating the host’s immune ‘system’ by repeated immunization with antigen, to the levels that surpass system's self-organized criticality.”

Isn’t it interesting that this study, which clearly offers vital corrective information related to vaccinations never really made it into the public? It very clearly expresses what happens with vaccinations. Yet, recommendations have not changed. How many vaccinations does a newborn baby receive? Up to 20 shots. Knowing this, is it a surprise that globally we have experienced exponential increases in autism, allergies and neurological illness in children? Is autism not also a so-called “autoimmune disease?” Conditions like autism are not only the result of the combination of mercury, aluminum, and formaldehyde in vaccines; it also results from the antigens, viruses, bacterial residue and the (unnatural) infection overload.

The Ability to Create Fever

At some point modern medicine started to regard fever as the actual disease, not as the healing process, which is what it really is. That’s when lowering fever became popular. However, lowering fever actually suppresses the body’s strongest tool to get rid of damaging agents that have entered it. Countless immune messengers are being produced, and activated through a fever and others are being inhibited. They all work together as a perfect team, even enabling a mental growth process. By lowering fever, we prevent the healing ability of this immune reaction to happen. My mom would have said: “Now, that I got the horse off eating, it’s dying on me.” The ancient Greek philosopher and medical doctor Parmenides (540 – 480 a. D.) claimed:

“Give me the power to create fever, and I shall cure each illness.”

In antroposophic medicine it is well known that “the disease is being burnt in the fire of the fever” and also “fever is the carrier of mental growth processes.” Mothers sometimes seem surprised when a child is able to walk out of its room the morning after having had a fever. It seems as if the child has grown and the illness has literally disappeared overnight.

Ask any Lyme patient the last time a fever occurred in their life. It is wise in Lyme therapy to show, to remind the body, how to create a healing fever. Hyperthermia is one good way to do so.

The Mitochondria

When we think about healing chronic Lyme syndrome we must consider the importance of intact mitochondrial function. All chronic illness involves mitochondrial damage and dysfunction. Mitochondriopathy is an acquired functional defect, accompanied by deficit of performance, neuro-endocrinological

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4 To see the complete study go to: http://www.plosone.org/article/info:doi%2F10.1371%2Fjournal.pone.0008382
dysfunction, and immunological changes. Eventually this leads to nitric stress with autoimmune reactions.

All mitochonridiopathies are combined with disturbed cell function and cell coordination. Individual manifestation and the sum of disturbances determine the actual severity of the multi-system illness. (For further details, see my article on antibiotics in the June 2012 issue of Peer Observer.)

Let there be light!

Just like plants require light consisting of photons in order to maintain their metabolism – so do humans. This has been verified by various new studies in physiology and quantum physics.

In simple words: photons hitting our body surface are passed on literally at the speed of light to the cells that need the light. All of our cells are housing thousands of mitochondria. Within their zyto-skeleton they contain tubular structures called microtubuli that are capable of sending and receiving light. From there, the photons move on to the DNA in cell nuclei and to the mitochondrial DNA. Quantum mechanical research into the “secrets” of the cell according to Dr. Heinrich Kremer has found that the DNA acts as a vacuum resonator for (cosmic) light waves. In addition, it is well known that mitochondria need light in order to be able to produce energy for the body. Photons play a vital role within the so-called respiratory chain, when adenosin diphosphate (ADP) is converted into adenosine triphosphate (ATP) and vice versa. The mitochondria are in charge of “telling the photons what to do.” The effects of photons vary quite a bit according to their wavelength and especially their coherence. The functioning of our organism depends on such “good vibrations” which are actually simply photons radiating in coherent and synchronized waves. Once we or rather our photons are losing this synchronicity and coherence, we turn ill.

"Within each cell about 100,000 chemical reactions are taking place every second. But the reacting molecules need an impulse,
they must be initiated by the corresponding photons..."5

"Photons induce physical processes in a way similar to the conductor of an orchestra, bringing together every single instrument to create a collective sound. Photons of different wavelength are fulfilling different tasks..."6

In a highly complex process the ATP is "instructed" by the information of the photons to fulfill its various tasks within the cell. After being released into the plasma, the ATP passes on this stored photon information to all metabolic processes in the cell, thereby controlling and guiding them. Once this fine order is disturbed on the DNA level, when the cells can no longer store, hold and pass on information in the regular, coherent way, then disease arises.

Various other biomolecules also have the capacity to store light, making it vitally important when trying to restore system balance in the body.

Light Therapy

Light Therapy is an important component in helping to restore normal cell function. When non-coherent photons are brought into the body, they speed along the meridians to where they are presumably needed. Photons are able to close gaps in the ATP-production thereby bringing twofold benefits to mitochondria and cells. At first more ATP is released and subsequently more oxygen can be produced, which is of great importance for the intra-cellular immune response.

However, people must be careful! These are oxygen radicals that also need to be defused/neutralized themselves. This brings the cell’s antioxidative glutathione system into the picture. Within the mitochondrial respiratory chain oxygen radicals (O-) and nitrogen radicals (NO) are being produced simultaneously, which intact mitochondria neutralize via the reductive/antioxidative glutathione system. In conjunction with light therapy there needs to be a sufficient amount of glutathione available within the cell (Glutacell, www.viathen.de). Extracellular glutathione cannot penetrate the cell wall. Intracellular glutathione MUST be produced within the cell. Oral intake usually does not produce a rise in intracellular glutathione.

Significantly, quantum mechanical methods are now advanced enough that these photons can be applied transdermally. They can even be "equipped" with cellular instructions

5 Dr. Mae-Won Ho: Book "The Real Bioinformatics Revolution: Proteins and Nucleic Acids Singing to One Another?" 2009

Dan Eden aka Gary Vey: Lightbeams from the DNA? Nexus Magazine, German issue Nr. 42/2012.
(coherences) in the form of proton resonances, which are modulated onto the photons. Specific cellular actions are being addressed and either stimulated or inhibited. This capacity has been realized with the B.E.A.T. Light device (www.biregs.com). To activate the intracellular immune reaction to borrelia, one uses the device along with information in the form of nosodes (homeopathically potentiated pathogens). The machine sends photons into the body and stimulates the ATP-production with the "General Vitalizing" program.

To treat the numerous inflictions, sores and inconveniences typical to Lyme there are more than 50 programs using this photon control device to restore the "divine order of light" in the many systems of the body.

**Oxygen**

Numerous processes in the body require oxygen in order to function properly, keep our inside clean, and to simply get “some fresh air.” Ninety percent of our inhaled oxygen directly wanders into mitochondria to serve the respiratory chain (ATP production).

The human intracellular pathogen defense system is dependant on oxygen. However, keep in mind that oxidative reactions mean oxidative stress, which absolutely requires antioxidation, and antioxidants. Like everywhere, balance is the magic word. We need oxygen radicals, but too many of them will be destructive. Wherever oxygen radicals are to fulfill their tasks, antioxidants must also be around. Things “get hot” when oxygen remedies such as Jim Humble’s MMS are used in crash therapy without having this important background knowledge. Embedded sensibly within a rebalancing therapy, MMS is actually quite useful. There are various oxygen therapies such as Oxyvenation according to Dr. Regelsberger, H.O.T., UBI and ozone therapy that may be applied.

**Pathogens**

Basically there really are merely two types of pathogens to be distinguished:

- Pathogens that have more or less always been around, or that evolved naturally by evolution.
- Pathogens that have been developed in specified laboratories for biological warfare and for some reason managed to escape into the wild.

When it comes to treating pathogens, the latter ones are as sly as they come. There
is enough evidence to suspect that borrelia is such a lab construct. In his book *Lab 257*, author Michael Carrol describes in length what he found in his investigation of activities that occurred during the 50 years after World War II at a former military laboratory, "Lab 257," on Plum Island, near the northeast coast of Long Island in New York State.

Chronic Lyme syndrome is always and necessarily accompanied by a “zoo” of pathogens, i.e. co-infections and opportunistic infections that thrive especially in an over-vaccinated (immunologically over stimulated with pathogens) body. This type of body cannot create fever, lacks glutathione and other vital substances, is weighed down with toxins, the intestines are struggling with putrification, and its mitochondria are striving for survival, etc. In such an environment the pathogens will be able to find their own favorite places, where they replicate intermittently again and again.

German Professor Fritz Albert Popp found out that bacteria swallow photons in their environment. This explains why a body housing a "zoo" of untreated pathogenic infectants has fewer photons at its disposal, especially when these few photons are emitting "strange vibes." The host may survive in this condition because humans are tough, but this is far away from health. It is self-evident that continuing a treatment with chemical bombs is merely inviting disaster and darkness.

**Toxins**

We are surrounded by countless sources of toxins. Some people are more, and others are less affected. Often enough the most toxic sources are to be found inside our mouths (dental fillings, hidden inflammation, dental work materials). Multiple toxins are accumulating in the body, when the body’s own detox-mechanisms are stressed. An overloaded system will not be able to excrete them or deal with their harmful effects (obstructive fields, chronic inflammations).

In this case a thorough build-up of detox-systems and a subsequent thorough yet gentle detoxification/drainage are mandatory. The treatment should be accompanied by homeopathic remedies in high potency, but not solely by homeopathy, since this can only mobilize the toxins, but not bind to them, chelate them and carry them out. There are a number of natural substances such as zeolites (in the beginning), brown algae, micronized chlorella, alpha lipoic acid, glutathione IVs and coal, among others, which can be administered consecutively or in combination depending on the state of intoxication. Certainly they can be used only when the passageways for drainage are free and strengthened.

The most important passage way is the lymphatic system and the tissue - the matrix. Anything going into or out of the cells MUST pass through the tissue. When
detoxifying, the tissue is the place, where you cleansweep first.

**Hyperacidity**

Every chronic Lyme syndrome is accompanied by hyperacidity, which is not only a depletion of basic minerals/electrolytes combined with a lack of trace elements, but also a lack of oxygen and bicarb and therefore a lack of peptic acid in the stomach. Electrolytes are playing an important role in the biophysical processes of our organism. Therefore not only the balance between acids and alkaline minerals has to be restored, but also the matrix, the extracellular space has to be cleared so that nutrients are able to pass through in the first place. Again, we are speaking of a healthy balance between acid and alkaline.

**Nutrition and Vital Substances**

In addition to healthy food, which should be organic and free of milk and gluten, the body needs at this point high doses of B-vitamins, especially B12, Omega3 fatty acids, minerals, trace elements such as zinc, selenium, manganese and iron, enzymes, coenzyme Q10, amino acids, polyphenoles, vitamins E, A, K and most important D. Possibly the hormone system, neurotransmitters and the protein metabolism are also in need of assistance in this period of regeneration.

**The Soul**

We know that every disease has not only a physical, but also a psychological, emotional and even spiritual component. Emotional patterns, imprinted in early childhood or even in prenatal stages, play a role in the development of chronic Lyme syndrome as well. We need to find access to these patterns, sets of belief and blockages so that thoughts and patterns that make us ill can be dissolved and the soul can be liberated. For this purpose, Antonie Peppler’s creative homeopathy (www.ckh.de) provides a deep understanding of the soul’s network. When working with high potency homeopathics (C 50.000 and higher), we approach the backgrounds of religion, family tradition and social imprints, behavioral patterns, and trauma and belief systems, and are then able to untangle the “knots” that contribute to blockages and illness. Once again, mens sana in corpore sano holds to be true. Well actually, perhaps it is the other way around.

Facing this aspect of Lyme is not a "quick fix." When one has chronic Lyme, it takes courage to take responsibility for one’s own healing and it may take some time. Yet, time after time in my own practice I
have witnessed the wonderful metamorphosis in Lyme sufferers. It is as if veil after veil, dark layer after dark layer just disappears. When facing this aspect of the syndrome one can rebuild an inner, more light filled terrain that facilitates the body’s innate healing capacity.

**Conclusion**

Chronic Lyme Syndrome and all of its various opportunistic co-infections (including the vaccinated infections) and bodily debilitations can seem like a complex puzzle with far too many components and an elusive cure. However, through uncovering the layered imbalances within the body and applying integrated light therapies along with the right supplements, releasing emotional trauma and giving the appropriate homeopathics, there is a known pathway to recovery. I personally think that chronic Lyme syndrome is most of all a disease of darkness. It is so clear that light serves as a “magic button” or igniter to healing. Moving beyond traditional allopathic approaches and integrating the best of existing alternative therapies -- including truly understanding, listening and working with the natural healing capacities of the body, mind and spirit -- provides a genuine path out of Lyme suffering to total, long term healing and health.

Marlene E. Kunold, Germany in Winter 2012