

NOTE: This was an older chapter of the book SOMANETICS, an astounding book on alchemy, entobotany, and the Pineal Gland. The main content are the medical summaries at the later part of this book, including quotes on Soma (Pegunam Harmala, or Syrian Rue), in healing Leukemia, dermatosis, and other diseases, as well as fungi, parasites, and micro-bacteria's et al. A cure for leukemia has been found.

--Ananda, February 2000

PINEAL POWER

THE MIRACLE CURES OF THE THIRD EYE:

New Science Paradigms For Somagenic & Somajetic Medicine

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The human Pineal gland not only produces the remarkable neuro-hormone Melatonin, itself one of the body's most potent anti-oxidants, but the revolutionary Pinoline, which is the name for 6-methoxy-tetra-dydro-beta carboline, or 6-MeO-THBC for short. As well as other beta carbolines which have miraculous powers.

The most ancient used plant in global folk medicine that has these components itself, is the infamous Soma plant, the original Rue, called Assyrian Rue, or latin Pegunam Harmala. It has been widely used in the Ayurvedi medicine of the Rg Veda, as the Soma plant, and mixed with gold and meteorite and special elements.

It is the infamous plant of life of the great Zoroaster (Zurathustra), where it was called Haoma, in the Avesta Veda, and was given to him by the "god" Masda, the Wise God of Light, just as Soma was given by Brahma-Manu in the Rg Veda. Since Zoroaster is in the line of ancestors of Gilgamesh known in the actual Sumerian Kings list as King Etana or Atun, who sought the bush of life, the very ancient plant of life may here have been partially identified. And with the modern discoveries now of the importance of beta carbolines, in eliminating disease causing organisms, much of this is coming into the light of a form of science confirmation. Pinoline also resonates with the very pulse of life 8 cycles per second, the pulse the DNA uses to replicate, and which has been measured by Dr. Puharich in the late 1970s to be emitted from the brains and hands of all successful healers, regardless of belief or faith. This very point makes the plant even more significant.

It was the most sacred plant of Mohamad, who took the Esphand (Arabic/Persian name for the plant) before receiving the Koran from "God", it is so sacred that 7 angels are placed above its branches. The Holy Esphand casts out the evil spirits, and cures feavour and maleria, in their traditions.

In the Petra mystery rites and schools of alchemy, the plant was central in their beverage of illumination and restoration, which again was mixed with gold and other alchemical by-products, as with Zoroaster, who was also known as Chem the original Alchemist and CHEMist.

Through the grand son of Zoroaster, Nimrod or King En.Meru.dug, who founded the Egyptian 2nd dynasty, that this plant of life became central in the Mysteries and healing schools of ancient Egypt.

It was the plant that the Egyptian Essenes (the original Essen headquarters being in Heliopolis of Anu/An/On, even to this day), who named themselves after the plant. The Plant was the burning bush of Moses, and it was called Asena, the name of the Essene Therapeutate in Egypt, it was also the acronym of the gods Set Isis Osiris and Nephtys (in this Greek form acronym is SION, from whence comes a corruption ZION), who in the Egyptian language were called Aset (Isis) Sutekh (Set) Nebtet (Nephty's) and Auser (Osiris), acronym is ASNA, the name of the Essenes and the Bush of Life itself was called Asena, the female form of the One God ATON, from whence comes the Greek goddess Athena.

In fact the Essence that was made from the Assena Bush mixed with gold by-products, is where we get the word Essence from, and the German word for to eat Essene.

The Assena healers made a Bread of Light from it. Their laboratories have been unearthed on the Sinai Peninsula, at its highest and greatest mountain, Mt Serabit, near Serabit El Khadim.

In 1903, Sir Williams Flinders Petrie, unearthed this ancient temple, which was full of alchemical iconography from the time of the 3rd Dynasty, and the 12th dynasty, with significant activity of the 18th dynasty, the great dynasty that gave rise to Tutankamun, Akenaton, Thutmose 3, Amenhotep 3, and Queen Hatshepsut, as well as the time that Joseph the son of Jacob, was the Vizier of Egypt, known as Yuya.

In this temple complex, were found 50 tons of white powder, which is now known to be exotic matter, composed of mon-atomic platinum group elements, extracted from gold, meteors, and some mineral element rich soil of the Nile, from Abydos. An alchemical crucible was unearthed, and it was shown that this was one of the ingredients of the Bread of Light, the other was the Assena Bush and the Acacia tree.

Interestingly enough, the local Bedouines of the area, have an ancient lineage of shamans, who still today make the bread of light, from Asena/Haoma bush, Acacia tree, and meteorite, and give it the same shape, as the Eucharist of the Egyptians, a circle with a hole in, the eye of Ra.

Later the Christian Gnostics of Abydos, Egypt, called the Soma plant Besa, after the dwarf god of transformation and life, called Bes, who was associated with the god of alchemy, Ptah.

The same plant is carried into the Essene traditions, right up to the time of Christ. The Essenes raised Christ. The use of the Bush became symbolic in the later church, where up to 200 years ago the holy water was sprinkled onto the people with branches of the Ruta Bush.

Nevertheless Leonardo Da Vinci and Michael Angelo, knowing the deeper use of this traditional plant of awakening, used it profusely to increase their visionary talents in their art work, as Da Vinci himself openly admitted, it was a miracle smart nutrient for him.

Naturally it featured centrally in the alchemical traditions. It was the Rue of alchemy, essential to be added to potable gold and acacia gum, an example of which was printed in the 1425 by Samuel Hill Norton, In the Alchemical Key.

The ancient Etruscans of Italy used the plant along with a sacred grass called Phalaris Arundenacia, for their visionary abilities and for medicine. And in ancient Greece, it was a plant associated to Hermes, for restoration, and has been used in folk medicine to ward off the evil eye, even to this day.

This ancient list, amidst a much larger list, of ancient cultural indigenous use of such a plant is impressive, but what science is actually behind this.

In the last few years leaps and bounds have been made in the analysis of the Pinoline and Harmine (a related beta carboline with a 7 methoxy position rather than a 6 methoxy position), in its effect on the body. Here follow some examples. It was found that:

PINOLINE AT SAME LEVEL AS MELATONIN IN THE EYE RETINA

The presence of two 5-methoxyindoles, 6-methoxy-1,2,3,4- tetrahydro-beta-carboline (6-MeO-THBC) and melatonin was demonstrated in human retinae using a highly specific gas chromatographic mass spectrometric method from eyes affected with various ocular diseases. Both compounds were found to occur in similar quantities. 6-MeO- THBC is a newly- identified endogenously-occurring retinal compound possibly acting as a neuromodulator.

-Dr. M. Leino: 6-Methoxy-tetrahydro-beta-carboline and melatonin in the human retina.: Exp Eye Res: 38:3:325-30 (1984)

BETA CARBOLINES AS ANTI-OXIDENTS

A series of 1,2,3,4-tetrahydro-beta-carbolines has been synthesized and evaluated for cerebral protecting effects against lipid peroxidation and potassium cyanide intoxication in mice. Most of the compounds synthesized had potent effects against lipid peroxidation. Among them, 1- (3,5-dimethoxyphenyl)-2-propyl-1,2,3,4-tetrahydro-beta- carboline (22) was found to have a combination of potent effects against both lipid peroxidation and potassium cyanide intoxication.

Kawashima Y; Horiguchi A; Taguchi M; Tuyuki Y; Karasawa Y; Araki H; Hatayama K: Synthesis and pharmacological evaluation of 1,2,3,4-tetrahydro-beta-carboline derivatives.: Chem Pharm Bull (Tokyo): 43:5:783-7 (1995)

PINOLINE ANTI-ADDICTIVE

Melatonin's active metabolite Pinoline is oneirogenic. Not only have such beta carbolines been shown to have, via the NMDA receptor, an anti-addictive effect against opiates and stimulants such as cocaine.

Additional REM in the morning for people who are REM-deprived may bring about a 25% rise in serotonin uptake.

-Dr. J. C. Callaway, Mechanism For Visions of Dream Sleep. Department of Pharmacology & Toxicology, University Of Koupio, Finland

PINOLINE FOR PARKINSONS + ALZHEIMERS DISEASE

The progression of several neurological diseases such as Alzheimer's disease and Parkinson's disease has recently been shown to involve free radical damage. It is therefore of great importance to find agents that will effectively protect brain tissue against oxidative damage. The purpose of this study was to evaluate the free radical scavenging properties of pinoline.

The results found in this study suggest that both melatonin and pinoline are valuable as potential free radical scavengers in brain tissue.

Both pinoline and melatonin were found to inhibit lipid peroxidation in a dose-dependent manner.

Frederiksen T; Pless G: Antioxidantive potential of melatonin and pinoline in lipid peroxidation of brain tissue: Master's thesis: 1-52, App. (1998)

PINOLINE CURES DERMATOSIS IS ANTI-FUNGAL & ANTI BACTERIAL

The extract of *Peganum harmala* (Rutaceae) was used topically to treat certain dermatoses of inflammatory nature. Results were encouraging and proved the antibacterial, antifungal, antipruritic and probably antiprotozoal effects of the extract.

-*Peganum harmala*: its use in certain dermatoses. El-Saad El-Rifaie M

By extension, since the Amazonian *Banisteriopsis Caapi* tree also contains harmine and harmaline, like the Soma Bush, but does NOT contain Pinoline, it will doubtless have some of the above curative elements too. And this is born out by the experience of 30,000 years of shamanistic medicinal use, and recent anti-addiction programmes in Brazil, as well.

Now it is a well known fact in science that Melatonin induces mitosis. Melatonin does this, by sending a small electrical signal up the double helix of the DNA, which instigates an 8 HZ proton signal that enables the hydrogen bonds to the stair steps, to zip open, and the DNA can replicate.

This is astounding unto itself. Melatonin is exclusively made in the Pineal Gland, comprised of the same Tryptophan base materials as Pinoline, in fact Pinoline is made in two steps from Melatonin, but the pineal gland uses another pathway to produce Pinoline as well, in about equal quantities to Melatonin. Since Melatonin we only produce in sufficient quantities in darkness whilst we sleep, darkness is essential for our body to reproduce.

But what is of prime importance here, is that my colleague Dr. Dieter Brauer's, in a study done for Deutch Telecom, was able to demonstrate that 8 Hz goes first to the pineal gland, before any other region in the brain. And it is here that Melatonin and Pinoline is made, which instigate themselves, the DNA to replicate by an 8 Hz signal.

What is almost unknown, is the pinoline is far superior to Melatonin in aiding DNA replication. It could also be involved in genetic programming and corrections of DNA damage, a model we have illustrated in exquisite detail in our book *The Unity Keys of Emmanuel* Chapter 49.

Recent tests have now furthermore demonstrated Pinoline's and the Harmine beta carboline of the Assena Bush, to have remarkable mitosis increasing powers, in the following test:

EFFECT OF PEGANUM HARMALA EXTRACT ON ROOT TIPS OF ALLIUM CEPA

Treatment with Peganum harmala extract remarkably increased the mitotic index in Allium cepa root tips with increasing treatment duration at all exposure times used and

with almost all concentrations. The extract caused a relatively high increase in the mitotic index after a long period of treatment with some low concentrations.

Dr. SM Abderrahman, Department of Biological Sciences, The Hashemite University, Zarqa, Jordan. Cytobios 1997;90(362-363):171-4

Here now follow further remarkable anti-parasitical and anti-microbial tests on animals, which demonstrate the curative power of Soma. Since these living organisms, are a prime contributor, if not instigator of immune break down and disease's in general, now well popularised by Dr. Hulda Clark et al, and pioneering by the late scientists Dr. William Rife, and his Rife frequency generator, to eliminate parasites and bacterias.

It appears that Pinoline and the beta carbolines act like a Rife generator produced by the body itself, and in the plant resonating with the body. Since 8 Hz gathers all wave lengths, long and short, into a Golden Mean alignment, or frequency cascade, that includes the entire spectrum, when maintained for any length of time, and hence eliminates the MHz range bacterias and parasites, coherently, whilst bridging it to the * Hz pulse of the planet and universe. This is much more natural and interactive medicine, that requires conscious participation.

Look at these astounding cases for the evidence of the Third Eye's own nano molecule Rife generator, that is interactive with * Hz Alpha Brain Waves, induced by cardio rhythms of coherence (compassionate love):

Trop Anim Health Prod 1997 Nov;29(4 Suppl):72S-76S

OBSERVATIONS ON THE TREATMENT OF NATURAL HAEMOSPORIDIA INFECTIONS BY TOTAL ALKALOID OF PEGANUM HARMALA L. IN CATTLE.

Eighty two cattle naturally infected with haemosporidians were treated with total alkaloid hydrochloride of Peganum harmale L. (0.5 mg/kg/day).

Fifty eight cases with Theileria sergenti showed a cure rate of 86%; thirteen cases with Theileria annulata showed a cure rate of 85%; eight cattle infected with Babesia bigemina showed a cure rate of 88% and three cases of Anaplasma marginale were completely cured.

The results suggested that the curative effect of total alkaloid of P. harmale was better than that of diminazene aceturate and produced minimal side effects. The alkaloid could also be

administered to pregnant animals. It was concluded that the total alkaloid of P. harmale showed a marked effect as a treatment for haemosporidian infections in cattle.

-Hu T, Fan B, Liang J, Zhao S, Dang P, Gao F, Dong M, Institute of Traditional Chinese Veterinary Medicine, Chinese Academy of Agricultural Sciences, Lanzhou, People's Republic of China. PMID: 9512749, UI: 98173905

EFFECT OF TOTAL ALKALOID OF PEGANUM HARMALA L. IN THE TREATMENT OF EXPERIMENTAL HAEMOSPORIDIAN INFECTIONS IN CATTLE.

Cattle experimentally infected with Babesia bigemina or Theileria sergenti or mixed infestations of the two parasites were treated with Total Alkaloid of Peganum harmala L.

The results showed that treatment was effective against B. bigemina infection, had a marked effect on the course of infection with T. sergenti and some effect on the course

of the mixed infection.

-Fan B, Liang J, Men J, Gao F, Li G, Zhao S, Hu T, Dang P, Zhang L. Institute of Traditional Chinese Veterinary Medicine, Chinese Academy of Agricultural Sciences, Lanzhou, People's Republic of China. Trop Anim Health Prod 1997 Nov;29(4 Suppl):77S-83S

Anti-microbial properties were also demonstrated in the paper :

ANTIMICROBIAL AGENTS FROM HIGHER PLANTS. ANTIMICROBIAL AGENTS FROM PEGANUM HARMALA SEEDS.

-Al-Shamma A, Drake S, Flynn DL, Mitscher LA, Park YH, Rao GS, Simpson A, Swayze JK, Veysoglu T, Wu ST

With what follows, the alchemical tradition which asserted that the Rue was a neutraliser of snake poison, can be confirmed. Rue's beta carbolines demonstrate neutrality against poison. It was upheld for a long time, in the alchemical traditions, that Christ was given Gal or snake poison, which is also mentioned in the Nag Hammadi Gnostic gospels, found in Egypt. And that the vinegar he received on the cross, before "giving up his Spirit", was the Vinegar of the Four Thefts, famous in Alchemy, and named after Christ, whose central ingredient is Peganum Harmala.

It was also the major treatment and protection against the plague, with the above points, and what now follows, this anti-plague protection and snake poison neutralisation properties of the

Soma plant (Soma = body, Christ body is Soma in Greek, "eat my body"), are even more astounding. Perhaps all of these elements may aid to explain my the early Gnostic based art, had the apostles throwing our demons from people, after giving them something to drink, and they are shown vomiting out the demons (parasites), just as larger doses of Harmala induce, when one's stomach is invested with toxins, and micro-invaders. Such a plant could be seen as an exorcists par se, and it was precisely used as such, and is to this day, in the Koran Islamic traditions.

It clearly appears to be usefull in a number of diverse chronic poisoning forms, appart from the fact that it aids one to induce vomiting, having with poisoning the does should be maintained low:

SYNTHESIS AND PHARMACOLOGICAL EVALUATION OF 1,2,3,4-TETRAHYDRO-BETA-CARBOLINE DERIVATIVES.:

A series of 1,2,3,4-tetrahydro-beta-carbolines has been synthesized and evaluated for cerebral protecting effects against lipid peroxidation and potassium cyanide intoxication in mice. Most of the compounds synthesized had potent effects against lipid peroxidation. Among them, 1- (3,5-dimethoxyphenyl)-2-propyl-1,2,3,4-tetrahydro-beta- carboline (22) was found to have a combination of potent effects against both lipid peroxidation and potassium cyanide intoxication. Structure-activity relationships are discussed.

-Kawashima Y; Horiguchi A; Taguchi M; Tuyuki Y; Karasawa Y; Araki H; Hatayama K: A-4627. Chem Pharm Bull (Tokyo): 43:5:783-7 (1995)

Furthermore, the Soma Harmal plant, also was found to contain very important flavinoids for health and healing:

FOUR FLAVONOID GLYCOSIDES FROM PEGANUM HARMALA

The aerial parts of Peganum harmala yielded four new flavonoids: acacetin 7-O-rhamnoside, 7-O-[6"-O-glucosyl-2"-O-(3"-acetylramnosyl)glucoside and 7-O-(2"-O-rhamnosyl-2"-O-glucosylglucoside), and the glycoflavone 2"-O-rhamnosyl-2"-O-glucosylectiside.

-Sharaf M, el-Ansari MA, Matlin SA, Saleh NA, National Research Centre, Cairo, Egypt. PMID: 9014375, UI: 97166655

Not only does Harmine and Pinoline instigate all of the above, but it is the perfect anti-depressant, without the dangerous side effects of Prozac and other serotonin based drugs. Hence, healthy pineal gland activity, by practice of Alpha wave entrainment, at 8 Hz, instigated by superlearning techniques, Silva Mind Method, Mental Photography, Einstein Focusing Technique and its expanded daughter field Image Streaming, along with meditation and Taoist martial arts such as Tai Chi and Chi Kung, and coherent emotion and breath patterns, aid in pineal gland Pinoline turn-over.

"Meditation" is simply an alpha brain wave entrainment technique, which synchronises the two brain hemispheres into 8 Hz, but the additional effect is that the closing of the eyes, stops Melatonin flow leakage to the body, and makes it saturate the neo-cortex, and hence there is an increased production of Melatonin and Pinoline. Note that this does not stop flow to the body, but instigates flow to the brain.

This gives an extra impetus to Meditation, several times a day, as an essential health exercise, apart from an energiser, a coffee of its own, and an aidive tool for mental integration of daily duties. The extra Pinoline and other beta carboline levels that results, aid the body cells to replicate, and micro-organisms, parasites, fungi, and bacteria's, and related harmful invaders, to be neutralised.

Apart from the extra melatonin and Pinoline giving the beneficent anti-oxidant properties to the body. The most superior anti-oxidants the body can produce. So this is not only a rest break, an exercise session, and integration session, an energiser, and a body tuner, it is also a vitamin break, since most vitamins like C, A and E, act as anti-oxidants.

Furthermore, it is an anti-depressant, increasing Serotonin (5-HT) turnover, and recycling other essential neurotransmitters. Hence an ecological green agent in the brain and body, aiding the recycling of essential neurotransmitter hormones:

BINDING OF PINOLINE ON THE 5-HYDROXYTRYPTAMINE TRANSPORTER: COMPETITIVE INTERACTION WITH [3H] CITALOPRAM

Pinoline (6-methoxy-1,2,3,4-tetrahydro-beta-carboline) is a naturally occurring compound in the mammalian body which inhibits 5-hydroxytryptamine (5-HT) uptake and exerts antidepressant-like behavioural effects in rats.

The present study investigates the effects of pinoline on [3H] citalopram binding to the 5-HT transporter on rat brain. Our experiments revealed that pinoline inhibits [3H] citalopram binding with IC_{50} 1255 \pm 167 nM and K_i 572 \pm 76 nM; Hill coefficient for inhibition was close to 1. In saturation experiments, pinoline co-incubated with [3H] citalopram, increased dose-dependently the K_d value but had no effect on the B_{max} value of [3H] citalopram binding.

Micromolar concentrations of pinoline did not have influence on the dissociation rate of specifically bound [3H] citalopram.

Binding parameters of [3H] citalopram did not differ significantly in cerebral cortex and hippocampus of rats treated for 10 days with pinoline or vehicle. These results indicate that pinoline did not have any modulative influence on the activity of 5-HT transporter and it interacts competitively with citalopram on the substrate recognition site of the 5-HT transporter.

-Pähkla R; Rägo L; Callaway JJ; Airaksinen MM: A-4626. Pharmacol Toxicol: 80:3:122-6 (1997)

Another test result demonstrated similar affects on Serotonin 5-hydroxy-Tryptamine (5-HT), as further evidence of its anti-depressant properties:

MAJOR PHARMACOLOGICAL EFFECTS OF 6-METHOXYTETRAHYDRO-BETA-CARBOLINE, A DRUG ELEVATING THE TISSUE 5-HYDROXYTRYPTAMINE LEVEL.

Major pharmacological effects of 6-methoxy-1,2,3,4- tetrahydro-beta-carboline (6-methoxytryptoline, 6-MeOTHBC) are described. It seemed to have a weak effect of its own on 5-HT-receptors.

It is concluded that most of the effects, like the increase of rectal temperature after peripheral administration and decrease and then increase after intrahypothalamic application as well as the antagonism of the group toxicity of amphetamine without effect on norepinephrine toxicity or barbiturate sleeping time, can result from the increase of tissue 5-HT-concentration and/or inhibition of 5-HT-uptake.

-Airaksinen MM; Ho BT; An R; Taylor D: A-4634. Arzneimittelforschung: 28:1:42-6 (1978)

Pinoline and Harmine as well as other beta carbolines, inhibit the Mono Amine Oxidase enzyme. In a process called oxidative deamination, MAO converts as much as 80 percent of the body's serotonin into a physiologically inactive metabolite. As serotonin binds to the enzyme's active sites MAO removes the amine function and renders the molecule harmless and ineffective.

A small oral dose of 22-52 milligrams, will temporarily prevents physiologically active amines, like serotonin, from binding to the active site of the MAO molecule and undergoing deamination. This continues for three to six hours, where the harmala alkaloids interfere with the function of MAO before their action is reversed and MAO activity restored.

Hence, inhibiting MAO, softly, means that there is a much larger turnover of serotonin which renders a major anti-depressant affect, as Saint Johns Wort has shown on winter depression studies. But underlying this, is not just depression caused by the light, but by lack of darkness. It

appears that Pinoline plays an even more important role on depression, and it is produced only in sufficient quantities in darkness.

What the above and now following studies are showing is that it is lack of Pinoline that disturbs our circadian rhythms and renders depression. It thus will turn into one of the most important neurotransmitters of the future, as we have been publically stating for 7 years (since 1992).

POSSIBLE ENDOCRINE ROLE OF THE PINEAL GLAND FOR 6-METHOXYTETRAHYDRO-BETA-CARBOLINE, A PUTATIVE ENDOGENOUS NEUROMODULATOR OF THE:3H:IMIPRAMINE RECOGNITION SITE

The association of the pineal gland with circadian rhythms, and the growing evidence for a disruption or phase alteration of circadian rhythms in depression make it tempting to speculate that 6-methoxy-THBC could play an important role in the pathophysiology of depression.

-Langer SZ; Lee CR; Segonzac A; Tateishi T; Esnaud H; Schoemaker H; Winblad B: A-4630. Eur J Pharmacol: 102:2:379-80 (1984)

One centrally significant factor to Pinoline, is that it boosts the immune system by at least 2.6 fold, as the following animal studies demonstrate. However, this was with a high dose, some 800-900mg, depending on one's weight, and hence some 5-6 teaspoons of Soma. Please be sure to read our cautions on high doses, and be aware of the intense affects that can result for 4 hours.

Of prime importance to these molecules, is that they boost the immune system some 2.6 fold, which is not without significance. However, do note that this was at high dose levels, in a human some 800-900mg depending on body weight, and that is some 5-7 teaspoons.

Please read our cautionary notes on high doses, what to avoid in food and medicine, and what to do, as well as be aware of what to expect from such a powerful experience, that can last 4-6 hours, and be VERY intense.

6-METHOXY-TETRAHYDRO-BETA-CARBOLINE (PINOLINE): EFFECTS ON PLASMA RENIN ACTIVITY AND ALDOSTERONE, TSH, LH AND BETA-ENDORPHIN LEVELS IN RATS.

Plasma renin activity and the plasma concentrations of aldosterone, TSH, LH and beta-endorphin were radioimmunologically determined in rats after ip administration of 15 mg/kg of 6-methoxy-

tetrahydro-beta- carboline (6-MeO-THBC, pinoline), a compound found to occur normally in mammalian and avian pineal gland.

A 2.6-fold increase of plasma aldosterone concentration was found and it was preceded by increase of plasma renin activity. An increase was also found in beta-endorphin/beta-lipotrophin concentration. The effects of 6-MeO-THBC on plasma beta-endorphin/beta- lipotrophin levels may be mediated by the dopaminergic or 5- HT-neurones.

-Airaksinen MM; Sainio EL; Leppaluoto J; Kari I: A-4628. Acta Endocrinol (Copenh): 107:4:525-30 (1984)

Pinoline has been conclusively demonstrated to have NO function in schizophrenia, test subjects healthy and otherwise, had the same levels of Pinoline:

PINOLINE, A BETA-CARBOLINE DERIVATIVE IN THE SERUM AND CEREBROSPINAL FLUID OF PATIENTS WITH SCHIZOPHRENIA

Baseline levels of pinoline, 6-methoxy-1,2,3,4-tetrahydro- beta-carboline (6-MeOTHBC) in the serum and cerebrospinal fluid (CSF) were determined with GLC-mass spectrometry in 13 unmedicated schizophrenic patients and 18 non-psychiatric controls.

A detectable concentration of 6-MeOTHBC was always present, but no differences were found between the schizophrenic and the control groups.

The serum and the CSF levels of 6-MeOTHBC were not significantly related to such variables as sex, age, subtype of schizophrenia, the quality and/or intensity of the psychopathological symptoms, or the duration of illness. The role of the indoleamines in the aetiopathogenesis of schizophrenia is discussed.

-Rimon R; Airaksinen MM; Kari I; Gynther J; Venäläinen E; Heikkilä L; Ryyppö J; Palo J: A-4629. Ann Clin Res: 16:3:171-5 (1984)

As the the posr-modern elixir of life extension are presently the hormone precursors of DHEA (DiHydroEpiAndroSterone) and Pregnenolone, which may extend human life span to 120 years if kept at a conciuurent level, it becomes significant a fact that both Pinoline and related beta carbolines are not only produced in the brain, but in the adrenal glands themselves, where these hormones undergo their transformation to the hormones of life.

It was demonstrated by the HeartMath Institute in Boulder Creek, Colorado, that minutes of compassion in the cardio-rhythm, which induces 8 Hz in the brain, brought DHEA levels up to

youthful levels. In other words 20 minutes of compassionate love, through meditative breathing, and whole body 8 Hz Phase Conjugation (Vortexijah Technique), is the ultimate hormone precursor anti-aging pill.

Not only does the pineal gland produce more Melatonin and Pinoline, which instigate 8 Hz ELF waves throughout the body, but these neurohormones switch on our pituitary glands, which thus releases the life hormone Somatropin, which in turn goes to the adrenal glands and instigates cholesterol to convert to Pregnenolone, and Pregnenolone into DHEA.

For Pinoline and its related beta carbolines to have also been found in significant quantities there, is no small finding, since Pinoline instigates cell division, and actually has the ability to lose its electrical resistance, when it binds to DNA, due to its flat nature, where it shares electrons with the DNA base pairs.

Hereby, resonating with the in-vivo superconducting core of DNA, first pointing to in the March 1965, issue of the Scientific American, pp-27. It is at such a moment of superconductivity, that the superior 8 Hz is instigated, and that bio photons of infra red emerge from the DNA core, having fluctuated from the vacuum. Or in other words, having been made from nothing.

We eat foods to extract the infra red they have photosynthesised or assimilated from the sun. Infra red is life to us, and at this level, the bio-photons switch on our life functions.

Hence Pinoline actually can make the superconductive elements within our body, the mono-atomic minerals, useful to our biology, by acting as a biological door, or bio-crystal bridge, which can momentarily superconduct, and transmit that high spin state that it anticipates, into biological availability, as 8 Hz, and bio-photons of life.

Here we find Pinoline sitting right at the place where the post-modern elixir of life is produced, as it resonates to 8 Hz, the question that must be investigated, how significant and essential a role, does Pinoline play in the adrenal system, in the metabolism for the living crystals of life, our hormones and neuroadrenaline.

Furthermore, nore-adrenaline plays a significant role in the Pineal gland, when there is sufficient Pinoline saturation in the brain. It releases a serotonin sight, to enable another serotonin site on the pineal gland to produce the all powerful, and outmost visionary Dimethyltryptamine, neurotransmitter, the most potent transmitter and well known transmitter to the inter nervous system (it is so well known to the brain that it is metabolised within 30 seconds, unlike any other transmitter). This molecule, dubbed by Dr. Strassman as the "Spirit Molecule", was detected by Dr. James Callaway in the spinal serum of people who were dying, or were having an "Out of body experience (OOBE)", or who were lucid dreaming. It is Pinoline that enables the threshold levels of DMT to become active in the brain, but it requires an adrenaline burst.

Perhaps Pinoline's position in the adrenals is also related to this bio-function, which has been almost all but obscure to western science so far, but appears to be opening a door, to higher brain cortical functioning. DMT with Pinoline increases brain activation, and with its cousin the 5-Methoxy-DMT, has been shown to activate the brain by as much as 40%, compared to our 10%

maximum potential at present. The higher brain states are quite intense, and frightening or live changing to most. It is as if we are in a baby brain state, and are about to come to terms with the genuine adult brain. A function which we once used consciously, rather than unconsciously in our dreams and lucid dreams, and visionary bursts.

IDENTIFICATION AND QUANTIFICATION OF 1,2,3,4-TETRAHYDRO- BETA-CARBOLINE, 2-METHYL-1,2,3,4-TETRAHYDRO-BETA-CARBOLINE, AND 6-METHOXY-1,2,3,4-TETRAHYDRO-BETA-CARBOLINE AS IN VIVO CONSTITUENTS OF RAT BRAIN AND ADRENAL GLAND.

The identification and quantification of three 1,2,3,4 tetrahydro-beta-carbolines as normal constituents of rat brain and adrenal gland, using combined gas chromatographic/mass spectrometric techniques, are reported.

Qualitative analyses of these tissues led to the identification of 1,2,3,4-tetrahydro-beta-carboline (THBC), 2-methyl-THBC (2-MTHBC) and 6-methoxy-THBC (6- MeOTHBC), as determined by observed peak retention times, mass fragments, and ion mass ratios.

Quantitative analyses, using deuterated internal standards, gave the following results: THBC (ng/g wet wt) in brain = 7.5 ± 4.86 , adrenal = 500.3 ± 163 . 6-MeOTHBC (ng/g wet wt) in brain = 35.6 ± 16.6 , adrenal = 1113.7 ± 300 . Mechanisms for the formation of these beta-carbolines as well as their possible function in vivo are discussed.

-Barker SA; Harrison RE; Monti JA; Brown GB; Christian ST: A-4632. Biochem Pharmacol: 30:1:9-17 (1981)

Even more astounding, is the fact that Pinoline/Harmine actually protects the brain against gamma radiation.

Since the early 1990's there have been a series of bizarre Gamma rays bursts regularly bombarding our planetary atmosphere. And since 1994, these have remains regular. Amidst these have been a series of anomolous cosmic rays with the strongest power ever observed for these highest energy level rays. These ultra high order cosmic rays at more energy then the maximum posible to generate them in the old universal model. Which lead, in Janurary 1999, to the introduction o the multiverse theory, that we are not one universe but a multiverse of universes. Something we were publically stating for many years before, as the New Universe model.

These cosmic rays are exciting for coherent phase conjugated life (8 Hz), but for the rest it has lead to drastic mutations and to a massive increase in fibrosis in humans, the mutation of gene 7.

Cosmic rays convert into gamma rays. With a healthy pineal gland, maintained by proper darkness, and coherent heart rhythms (compassionate love), and mediation and superlearning life management in alpha brain rhythms (8 Hz), we then not only have an anti-oxident, but a protector from gamma radiation, at the active Soma dose level of around 500mg, or 2 full teaspoons:

RADIOPROTECTIVE EFFECT OF GAMMA-HARMINE AND ITS CARBOLINE ANALOGUES

Gamma-Harmine (I), harmine (II) and harmaline (III) were isolated from *Peganum harmala* L. (Zygophyllaceae).

Tests were conducted with mice to detect whether gamma-harmine (a new compound), harmine, harmol (IV) and harmalol (V) are effective radioprotective compounds against gamma-ray irradiation.

Intraperitoneal injection of the hydrochlorides of the four alkaloids 50-80 mg.kg⁻¹ X 1 in NIH male mice 30-45 minutes before 8.6-9.7 Gy whole body 60Co irradiation significantly increased the survival effects (1.33-2.61) and 30-day survival survival rate in comparison with control mice.

The results indicate that gamma-harmine exhibited relatively good radioprotective effect. gamma-harmine is the first alkaloid isolated from a plant having protective effects against whole-body lethal irradiation in mice.

-Yao Hsueh Hsueh Pao 1995;30(9):715-7. [Article in Chinese] Li GW, Liang PG, Pan GY Cancer Center, Sun Yat-Sen University of Medical Sciences, Guangzhou.

HARMALA & LEUKEMIA

This study was conducted to, one, establish a program to study by in vitro and/or in vivo techniques, the antineoplastic activity of natural plant products and two, to utilize these techniques to study the extracts of two plants, *Prunus armeniaca* (PA) and *Peganum harmala* (PH).

Three in vitro procedures,

(a) The growth inhibition of murine P388 leukemia cells in culture,

(b) the assay of cytotoxicity utilizing Cr51 labeled P388 cells and

(c) the assay of P388 colony forming units (CFU) in soft agar were employed and compared with in vivo studies conducted in CD2F1 mice implanted with P388 or L1210 leukemia cells.

The seeds of Pegunam Harmala were extracted into 70% ethanol and then either extracted into chloroform :

(Phase I) or ultracentrifuged and fractionated

(Phase II) into three fractions:

(a) crude

(b) less than 300,000 MW ('300M') and

(c) less than 100,000 MW ('100M').

When assayed for inhibition of P388 colony forming units (CFU) in soft agar, PH [Pegunam Harmala] Phase II '300M' showed a marked decrease in CFU with a greater than 98% reduction of CFU at a concentration of 5 ug/ml.

This method was more indicative of followup in vivo studies in that it measures both direct cytotoxicity and inhibition of replication. Phase I extracts of PH showed marked increases in lifespan (ILS) of CD2F1 mice bearing p388 tumors (ILS of 36% at a total dose of 300 mg/kg) and L1210 tumors (ILS of 33% at a total dose of 300 mg/kg). Testing of the fractionated Phase II extract of PH gave evidence to show that the active ingredient is less than 300,000 MW and greater than 100,000 MW.

--DISS ABSTR INT (SCI), Adams SM THE ANTINEOPLASTIC EFFECTS OF PRUNUS ARMENIACA AND PEGANUM HARMALA IN MURINE P388 AND L1210 LEUKEMIA MODELS In: Diss Abstr Int (Sci) (1983) 44(4):1052-B 1983

PEGANUM HARMALA: ITS USE IN CERTAIN DERMATOSES

The extract of Peganum harmala (Rutaceae) was used topically to treat certain dermatoses of inflammatory nature. Results were encouraging and proved the antibacterial, antifungal, antipruritic and probably antiprotozoal effects of the extract. Registry Numbers: 304-21-2 (Harmaline) 442-51-3 (Harmine).

-INTERNATIONAL JOURNAL OF DERMATOLOGY, El-Saad El-Rifaie M , In: Int J Dermatol (1980 May) 19(4):221-2

ISSN: 0011-9059

ABORTIFACIENT POTENTIAL FOR THE EPIGEAL PARTS OF PEGANUM HARMALA.

The effect of methanol and acetone extracts of the epigeal parts of *Peganum harmala*, a common medicinal plant among Bedouins in Israel, was studied on several parameters of reproduction in female rats.

The methanol extract at a dose of 2.5 g/kg/day, offered in food or in drinking suspension for 30 days, significantly prolonged diestrus by 1.0 day. The methanol extracts at doses of 2.0, 2.5 and 3.5 g/kg/day appeared to produce a dose-dependent significant decrease in litter size. No change in the physical and nutritional status of the

animals and no adverse toxicological effects were observed.

-JOURNAL OF ETHNOPHARMACOLOGY Shapira Z Terkel J Egozi Y Nyska A Friedman J, In: J Ethnopharmacol (1989 Dec) 27(3):319-25 ISSN: 0378-8741.

RADIOPROTECTIVE EFFECT OF GAMMA-HARMINE AND ITS CARBOLINE ANALOGUES

Gamma-Harmine (I), harmine (II) and harmaline (III) were isolated from *Peganum harmala* L. (Zygophyllaceae).

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Registry Numbers: 442-51-3 (Harmine)

-YAO HSUEH HSUEH PAO [ACTA PHARMACEUTICA SINICA] Li GW Liang PG Pan GY , In: Yao Hsueh Hsueh Pao (1995) 30(9):715-7 ISSN: 0513-4870 (Published in Chinese)

This is just a good selection of a mountain of other astonishing facts, now gathered. Including Harmine and Pinoline as an NMDA antagonist, and hence an anti-stroke medicine, which is used to this day by the Mandaean Gnostic Christians, the Gnostics simulated death, a prevented death by taking Harmala. In Palestine, including by the village north of Bethlehem, called Harmala, they still use Harmala as an anti-stroke medicine. It prevents calcium ions from flooding the brain, and hence prevents cell death, thus one does not die on the cross, which is death by stroke, through calcium inflooding through the NMDA sites.

L-deprenyl, structurally related both to harmala alkaloids and kratom, has shown promise in experiments to reverse aging and heighten cognitive function, and very well might out-perform AZT, etc. for HIV-infected individuals who are asymptomatic.

In fact, researchers have discovered endogenous harmala alkaloids a number of times, notably McIsaac in 1961 and Linneas of NYU again in the early '80's, although "he never published because he couldn't figure out what it did," according to Molliver. They are beta-carbolines; some, like nor-harmane, and may play a role in delirium tremens., as well as acting like a natural MK801 to prevent ischemia during the NDE.

Making the statement "This is my blood" literally true.

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AN UPDATED AND HIGHLY EXPANDED SERIES OF CHAPTERS HAVE EMERGED FROM THIS INITIAL CHAPTER OF THE SOMANETICS BOOK WHICH WILL BE PUBLISHED IN 'SOMAGENICS'.