



THE BRIDGE

Linking Practitioners of German Biological Medicine

Volume 9, Issue #5, May 2013

Wednesday, 15 May 2013

Dear Colleagues and Friends of OIRF,

👉 Welcome to Issue #5 of "The Bridge" newsletter for 2013! With this Issue we then continue the seven part series of articles by the esteemed **Prof. Dr. Hartmut Heine** on The Ground Regulation System. Here are the titles of all seven articles:

Part 1 – The Ground Regulation [A History and Background] – Published Issue #3

Part 2 – GRS as a non-linear system – structure, function and determined chaos – Published in this Issue #5

Part 3 – GRS as a non-linear system – structural components of the extracellular matrix (ECM) – scheduled to publish in Issue #7 in mid-July 2013.

Part 4 – Spatial structure of the ECM and material transport within the system

Part 5 – Contact, limitation and clogging up: Cell adhesion, basal membrane and glycosylation

Part 6 – Functional relations of the ground regulation with the central nervous system

Part 7 – The Ground Regulation and the Circadian Rhythm
– The Ground Regulation and Alzheimer Dementia

Watch for the next article from OIRF Director and Medical Advisor **Dr. Karim Dhanani** in Issue #6 due in mid-June 2013.

👉 Here is your final reminder for the very special **MORA Nova training workshop in St. Louis, Missouri on June 7, 8 & 9, 2013**. Your guest instructor and lecturer is **Nuno Ruivo, DO** from Med-Tronik, Germany who is a long time MORA user and one of the technology and software developers of the Nova device. Friday, June 7 will be basic introductory information to help you get the device setup and do your first treatment and assessment. The following 1½ days will be more intermediate work with an emphasis on practical application in your practice. Sessions are jointly sponsored by OIRF, Med-Tronik and **Dr. Simon Yu** at Prevention and Healing. See registration details on our website at [Nova Workshop](#), and call Kate at Prevention and Healing at (314) 432-7802 to reserve your place. Attendance is limited.

👉 Reminder: All Volume 9 Issues of "The Bridge" will also be published on our website and are available to download in pdf/print format. Follow this link to [download your PDF copy of Issue #5](#).

➤ The full itinerary and schedule for the **Special 40th Anniversary Biological Medicine Group Tour to Germany** are being finalized now – and this is likely how this tour will take place this fall. Here again are the dates of the three parts of this Tour Program along with a brief description of the programs. Follow this link to see the full [Germany Tour details](#) along with registration information.

Note that there is no longer any restriction for participation in this program (in the past attendance was restricted to OIRF members only), and we are anticipating a much larger group than on recent tours. We will however limit the number of attendees to ensure that each participant is able to enjoy a personally rewarding educational experience. We recommend early registration to ensure your participation in this exceptional event.

Part 1: Oct. 25 to 29, 2013 – Tools. I want to be really clear about this part of the tour program. These are **not** intended as equipment sales pitches. The emphasis here is on application and how the devices will work in your practice. What are the benefits of each device and how will they increase the effectiveness of your diagnostics and treatments? We will visit and hear lectures from:

- Advanced Medical Systems (pulsed magnetic field therapy)
- Med-Tronik (Terrain Analysis, BioResonance Therapy, EAV Assessment, Color Therapy/Gruba)
- Medical Electronics (BioPhoton Therapy)
- CSTronic (Inhaled Ionized Oxygen Therapy acc. to Engler)
- Holistic Concepts (AMSAT segmental diagnostics, Voice Frequency Analysis)



Part 2: Oct. 29 to Nov. 4, 2013 – Techniques. This is the part where we will participate in the Medicine Week Congress, hear lectures about the latest methods and techniques in Europe and have ample time to visit the exhibits. Confirmed presentations include:

Hear privately arranged English lectures from:

- **Dr. Jürgen Aschoff** (Darkfield Microscopy, Blood Test acc. Aschoff, Frequency Medicine)
- **Dr. Thomas Rau** (Biological Medicine Practitioner and Teacher)
- **Prof. Dr. Hendrik Treugut** (Biological Medicine Researcher)
- A well known and longtime **German pharmacy** of biological remedies

Attend Med-Week English lectures featuring:

- **Dr. Reimar Banis** (Psychosomatic Energetics)
- **Dr. Friedrich Douwes** (Integrative & Cancer Medicine)
- **Dr. Hans-Peter Friedrichsen** (Integrative Medicine)
- **Dr. Dietrich Klinghardt** (Biological Medicine Practitioner and Teacher)
- **Illobrand von Ludwiger** (Astrophysicist & Author)

Part 3: Nov. 4 to 7, 2013 – Applications. This part of the tour involves considerable travel however you are going to see some of the most spectacular scenery. We will be traveling into the Alps and the area of the Bodensee (Lake Boden) on the Swiss/German border where we will tour and hear about three unique and exceptional Biological Medicine clinics:

- A very famous German hotel and spa-type clinic which has specialized in **Kneipp Therapy** literally for generations.
- The famous **Paracelsus Clinic** in Lüstmuhl, Switzerland. **Dr. Thomas Rau** will greet us and will also give us a short presentation about Live Cell Therapy and other methods they utilize.
- Back into Germany and another very famous clinic that utilizes a number of natural and biological methods for anxiety, depression, pain, immune weakness and allergies.

I realize it is difficult to take a full two weeks away from your practice – family, staff and patients will miss you and it's hard on the pocket book! This is why we arranged everything so you can pick and choose which parts will work best for your schedule. However, we already have registrations for the full two weeks and for Parts 2 and 3 combined. I repeat that we anticipate these programs will fill quickly and priority will be given to participants attending multiple parts.

➤ Here are your newsletter items for this Issue #5:

*An **exclusive article** published May 2013
by Occidental Institute Research Foundation . . .*

The Ground Regulation System (GRS)

Part 2 – GRS as a Non-Linear System – Structure, Function and Determined Chaos

By o. Univ.Prof. Dr.rer.nat. med.habil. Hartmut Heine

**From an article in Naturheilkunde 2010; 1: 25-27. Reprinted in
Der Weg zur Grundregulation, Zaen Plus GmbH 2011, 262-265**

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Translation & redaction by: Carolyn L. Winsor, OIRF**

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The GRS¹ represents a non-linear system whose unstable order is described as determined chaos. The rapid reactivity of the GRS depends on the polysaccharides of the ECM² components and the cell surface (glycocalyx). The quick supply of ECM components appropriate for the situation is guaranteed by the fibroblasts (in the CNS³ by astrocytes). Nevertheless, of great importance are the silicic acid polymers bonded in the sugar which give the hydrogel of the PG/GAGs⁴ reverse selective permeability characteristics through which the ECM can pass large and small molecules at the same speed. On account of the solid state characteristics of the silicon in silicic acid sufficient electrons are available in the ECM in order to neutralize radicals coming into the ECM with the metabolism processes. Heavy metal ions can hold back silicon from which severe disturbances in the GRS can develop with development of chronic illnesses.

Structure and Function

Our organism contains an arrow of time aimed into the future with genetically caused structural formations and from that widely independent structural change. This depends on a suitable energy supply (e.g. oxygen, food, light and warmth) (overview in 8). The GRS as a functional principle of multicellular organisms is an energetically open system and hence is able to exchange energy and matter with its surroundings. As a result it is subject to a dynamic rhythmic equilibrium from the positive and negative feedback of its

[1. GRS = Ground Regulation System; 2. ECM = Extracellular Matrix; 3. CNS = Central Nervous System; 4. PG = proteoglycan/GAG = glycosaminoglycan]

components. The order conditions arising from it are not stable, i.e. they do not stand in a thermodynamic balance, and thereby a return to the respective source condition is not possible (nonlinear) (1).

Feedback has shown the biological advantage that functional conditions must not be firmly fixed, but can spontaneously and self-organizationally become the starting point of newer and newer developments. Spontaneity as a result of greater networking of the individual structures as well as the dependence of the marginal conditions is typical for nonlinear dynamic systems. As a result a prediction of initial and final conditions or of future behavior is not possible (14).

Thus it is also valid for the GRS that small changes in the existing condition can cause big changes in the future. Adaptation processes enable this (just like a once emerging inaccuracy is not eliminated but will already be added onto existing) (8). Nonlinear processes have a fundamental quality for clinical medicine: The same processes do not always need to have the same effect because the case history plays an important role (7, 13).

If a nonlinear system is supplied with suitable energy it spreads this out over the whole system – the easiest example is many pendulums connected with springs. As a result resonances can occur in individual subranges from which temporally restricted insular orders originate. Other subsections in the vicinity are thereby influenced (7).

An organism also acts like connected pendulums. However, if a suitable energy supply is absent for a certain time reversible damages initially happen and only afterwards irreversible. Then in an organism the function of a subrange not supplied sufficiently on time or long-term can be taken over by other subranges (redundancy), until the function is restored through self or therapeutic help, or support therapy becomes necessary. Nevertheless the price of it is a certain lasting alteration in the order structure of the ECM.

All processes run at a molecular level by redundancy and reversibility are in principle remedial illnesses through a supply of suitable energy up until an irreversible stage. However the “memory” of the danger caused by the manifest minimal disturbance remains on the basis that with repetition of a comparable situation the illness again appears faster (8).

Biological Systems as Determined Chaos

Nothing really new can develop from extremely regular and stable systems (like for example crystals). As well, in chaotic systems, like in a few gases, coincidence rules in

the molecular collisions. Dynamic order with higher complexity like in living beings, states, galaxies, etc. always occurs on the border between rigid order and coincidence (13).

This “order margin” of chaos is called “determined chaos” and is characterized by self similarity, like that impressively shown among people, animal and plant species. The measure of self similarity is broken dimensions (fractals). The measurement of biological systems shows that they have a dimension between the 2nd and 3rd power. The surface of a living being is expressed in square numbers (D^2), his volume in cubic numbers (V^3).

It could be proven that an optimally built organism is about 2.22 dimensional. Among other things this is connected with the metabolism caused production of heat in living beings. While production of heat is proportional to volume, loss of heat depends on the surface. Otherwise an elephant would overheat however a mouse would get frostbite. The fact that this is not so is caused by the fractal geometry of the order condition of the living being.

This quality forms the basis of the fractal structure that really shows a geometrical regularity with unlimited complexity. Then over and over again one bumps into the same basic elements with analysis of fractal dimensions: With living beings these are for example the cells or the network of PG/GAGs in the ECM (see Figure). Consequently for example the liver cell of a mouse is just as big as that of an elephant. The same is valid for all other cell types.

Fractal structures contain the repetition of a pattern (overview in 8). The cell pattern stored in the genes contains all information for all living beings for the development of a same species individual (just as shown e.g. by the clones of mammals). However this does not correspond to the holographic principle of an optical memory of information which contains the whole information in each of its parts (so called hologram). The order in determined chaos is time limited. It is subject to a self organizing criticality.

This can be demonstrated very well in a sand pile: During its filling it goes over a certain fill level – depending on the quality of the sand, subsoil, temperature, humidity and altitude among other things – to a departure of sand avalanches until a sand pile comes in another stable self similar form on which the process can recur (7).

In living systems the filling occurs by autocatalytic processes and not by coincidence. As a result only genes and their transcription could develop, in the final analysis the evolution of living beings (8). Autocatalysis (autopoiesis) at the margin of chaos contains no coincidence, but leads to self similarity (type, pattern, kind). And so a weakness is evident in the Darwinian Theory of Evolution which only recognizes coincidental mutations and selection (8, 9).

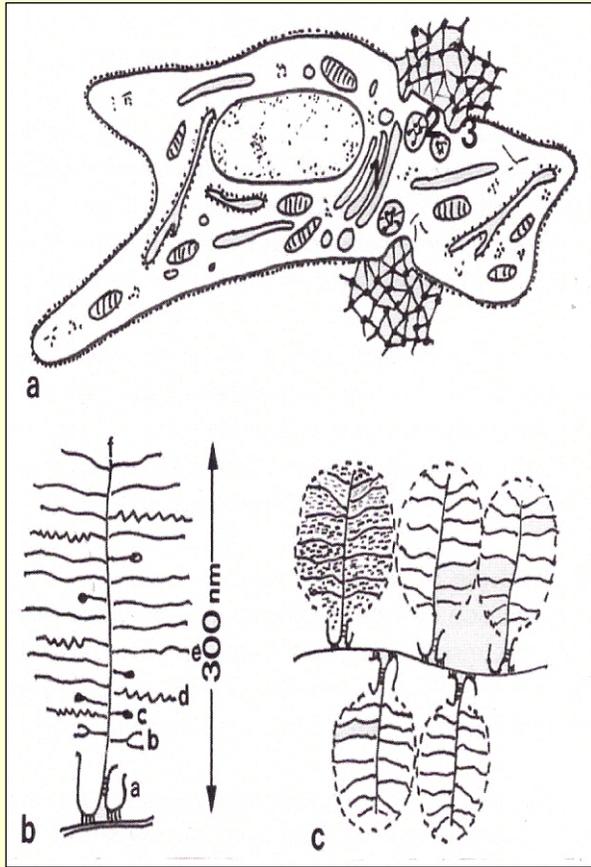


Figure 1: Structure and Synthesis of the PG/GAGs.

a) Diagram of a PG/GAG synthesizing fibroblast. 1 Golgi apparatus, 2 Golgi vesicle with PG/GAGs, 3 Emission of PG/GAGs into the ECM

b) Diagram of a PG which above left (connection) binds protein a to hyaluronic acid (double line); b dermatan sulfate, c keratin sulfate, d heparin sulfate, e chondroitin sulfate. b-e bound to the protein spine.

c) Diagram of the liquid-crystalline water connection (fine dotted) between the GAG chains and the water domain (rough dotted cover) of the PGs; as well as their connection in hyaluronic acid (fine dotted) between the GAG chains and the water domain (rough dotted cover) of the PGs; as well as their connection in hyaluronic acid.

The autopoiesis also causes the adaptation of internal and external milieu factors (epigenetic) as well as the un-physiological processes with the development of illnesses.

Cells and the Surrounding Milieu

The smallest common functional denominator of an organism is not to see the cell – as Virchow believed – but rather the cell with its surrounding milieu across which it is supplied and waste is disposed. Even single celled organisms need surroundings conducive for them. Originally this seems to have been sea water since the tissue water has nearly the same composition (7).

The ECM and the cell surface must show certain physical-chemical qualities (molecule size and charge, oncotic pressure, pH and rH gradient, among other things) in order to be able to coordinate their functions. Namely it must surely be submitted that the “internal circulation” (with 75 kg body weight approx. 15-18 liters of tissue water) in the sense of an active metabolism always remains in motion (4). The tissue water represents a protein

free ultra-filtrate of the arterial capillary blood. Its drainage occurs as a reabsorption over the femoral venous capillaries, a small portion runs off over the lymph system (Eppinger 1949). All capillary damage is connected with a permeability change and endangers the supply and waste disposal of the downstream cells. The “internal circulation” is especially dependent on the impermeability of the capillaries for the large molecule proteins. There is no illness in which the “internal circulation” would not be involved.

Bear in mind that the tissue water does not flow freely into the ECM, but on the basis of their construction are organized as water bound polysaccharides containing macromolecules of hydro-type gel (Fig. 1). With fluid loss that gel can hold the stored water stronger than the plasma albumin in the capillaries is capable of. In this way the important colloidal osmotic (oncotic) pressure between the intra- and extra- valent space will be maintained for the “internal circulation”. With over-watering the hydrogel soaks, and then a further surplus is led away over the lymph vessel system. Only when this possibility is also overtaxed, pericapillary edema occurs as the first sign of illness, with overflow of plasma proteins into the ECM with proinflammatory disturbance of the “internal circulation” (4, 8).

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➤ **Conferences and Conventions:**

- Final reminder for the **MORA® Nova Training Workshop:**

MORA® Nova Training Workshop	
June 7-9, 2013	
St. Louis, Missouri, USA	
	
Let us introduce you to the future of BioResonance Therapy . This is the medicine that works to bring about healing from within the smallest quanta of biophoton light in our bodies, but which is capable of taking us to the stars. The MORA Nova is true BioResonance Therapy with the latest and most sophisticated technology available.	
Instructor: Your instructor is Nuno Ruivo, DO from Med-Tronik, who is a long time MORA user and one of the technology and software developers of the Nova device.	Recommended Hotel: Hilton St. Louis Frontenac, 1335 So. Lindbergh Blvd., St. Louis, MO 63131 Phone: 1-314-993-1100 Free Shuttle service between the Airport, Hotel and Clinic.
Schedule: <u>Friday, June 7</u> (9:00 AM to 6:00 PM) will be basic introductory information to help you get the device setup and do your first treatments and assessments. <u>Saturday, June 8</u> (9:00 AM to 6:00 PM) and <u>Sunday morning June 9</u> (9:00 AM to 12:00 Noon) will be more intermediate work with an emphasis on practical application in your practice.	Fees: Payable at least one week prior to the training and is not refundable. Friday Basic sessions: \$200 – you can deduct this amount from your MORA-Nova purchase placed prior to July 15, 2013. Saturday and Sunday sessions: \$300
Venue: The classroom in the private clinic of Simon Yu, MD at 10908 Schuetz Road, St. Louis, Missouri 63146 USA.	Sign-up: 1) Call Prevention and Healing, Inc. and ask for Kate, our Office Manager at 314-432-7802 2) Email all your contact info (Full Name, Professional Degree, Address, Phone, Email) to: simonyumd@aol.com
Sponsors: Med-Tronik GmbH, Friesenheim, Germany Simon Yu, MD of Prevention and Healing , 10908 Schuetz Rd., St. Louis, Missouri 63146 USA Occidental Institute Research Foundation , PO Box 100, Penticton, BC V2A 6J9 Canada	

➤ The **8th International Alternative Medical Conference, St. Louis, Missouri, September 13-15, 2013**. This conference is sponsored by Prevention and Healing and **Simon Yu, MD**, and will feature **Dietrich Klinghardt MD, Hal Huggins DDS, Douglas Cook DDS, Karim Dhanani ND**, and several others. Be sure to visit their website at www.IAMCONF.com for full details and registration information. This is one of the most important educational conferences of 2013 in North America. OIRF highly recommends this conference and will have an exhibit booth there. Come and see the MORA Nova in action! We look forward to meeting you there.

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Occidental Institute Research Foundation

39th Biological Medicine Tour to Germany

Theme: Tools, Techniques and Applications

Part 1, Oct. 25-29, 2013 - Tools: Visit or hear from five quality and effectiveness proven instrumentation companies with practical demonstrations of their latest innovations and introduction of the latest research and development.

Part 2, Oct. 29-Nov. 4, 2013- Techniques: Visit and participate in the famous Medicine Week Congress in Baden-Baden And hear privately arranged English language lectures from:

- **Dr. Jürgen Aschoff** – Practitioner & Researcher
- **Dr. Thomas Rau** – Practitioner & Teacher
- **Prof. Dr. Hendrik Treugut** – Biological Medicine Researcher

Attend Medicine Week (English) lectures featuring:

- **Dr. Reimar Banis** – Psychosomatic Energetics
- **Dr. Friedrich Douwes** – Integrative & Cancer Medicine
- **Dr. Hans-Peter Friedrichsen** – Integrative Medicine
- **Dr. Dietrich Klinghardt** – Practitioner & Teacher
- **Illobrand von Ludwiger** – Astrophysicist & Author

Part 3, Nov. 4-7, 2013 – Applications:

Visit three very famous clinics including the **Paracelsus Clinic** in Switzerland with a lecture from **Dr. Thomas Rau** on Live Cell Therapy. See these Biological Medicine “Tools and Techniques” in practical everyday application.

- Our private lectures present the latest information and research in our field, with ample time for questions and hands-on.
- An opportunity to talk with like-minded colleagues and learn from the experience and expertise of attending OIRF Directors and Advisors.
- Hear from a well known German pharmacy of biological remedies
- Travel in comfort with plenty of room for luggage
- Tour prices includes full tour program, single room accommodations and most meals
- Be treated like family with good food, good friends and good conversation in friendly hotels

SPACES ARE LIMITED AND ADVANCE REGISTRATION IS RECOMMENDED.

[Biological Medicine Tour #40](#) information and [Register here](#)

For more details contact: Occidental Institute, www.oirf.com; E-Mail: support@oirf.com

PO Box 100, Penticton, BC V2A 6J9 Canada and register at 800-663-8342 or (250) 490-3318

🔄 Updates, Reminders and Announcements:

➤ Watch for the sixth 2013 issue of the “The Bridge” newsletter to arrive in your Inbox around mid-June with an article from OIRF Director and Medical Advisor **Dr. Karim Dhanani**.



➤ **LEASING IS NOW AVAILABLE:** All arrangements have been finalized to make leasing available to purchasers of the larger (more expensive) OIRF recommended instrumentation. Contact Elaine at 1-800-663-8342 to obtain applicable forms and instructions for your current or future instrumentation purchases.

➤ Are you looking for one of the former **RM-10/S diagnostic devices from Med-Tronik?** It was capable of EAV and Vega type diagnostics and can be attached to a special interface unit to access the Electronic Test Sets. We have received notices from two docs who have slightly used RM-10/S's for sale. Contact Elaine today at 800-663-8342 to get contact and order information.

➤ Be sure to order your set of 12 DVDs with the manual from the **[Biological Medicine Symposium 2012](#)**.

➤ Visit our **Facebook** page – will you be our friend?



➤ **Updates, Reminders and Announcements** (continued):

➤ For a complete [listing of resource materials](#), including publications, reports, books and videos please follow this link to our website. There are full descriptions of all printed and recorded materials online.

➤ For a complete [listing of recommended instrumentation](#), including diagnostic, therapeutic and BioResonance devices please follow this link to our website. There are full descriptions of all instrumentation online.

I trust you will find much of interest in these pages. We look forward to meeting you during our 2013 activities and programs. As always your comments are welcome. Remember that this is your newsletter – your suggestions, article contributions, critiques, FAQ's and compliments – are gratefully accepted. See you in St. Louis . . .

Carolyn

Carolyn L. Winsor-Sturm
Managing Director
Phone: (250) 490-3318
support@oirf.com

WEBWATCH

P.S. I just glanced through my daily newsletter from “The Health Ranger”. This is great! It’s a “rant” I wish I had written. I know, the [NaturalNews](#) newsletter is just another one of those pesky emails that litter up your Inbox, but every now and again he really hits the nail on the head. I’ve been upset ever since hearing Angelina Jolie’s “news”. It is truly a wonder how such misinformation and irrational reasoning can lead to such a terrible “preventive therapy”. Here is the link to his strident, “funny” but absolutely correct interpretation of these events:

www.naturalnews.com/040334_Angelina_Jolie_double_mastectomy_breast_cancer_prevention.html

If you are not on his mailing list here’s the contact info:

www.NaturalNews.com/ReaderRegistration.html

‘Til next time, *Carolyn*

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