



# 2<sup>nd</sup> DYNHOM COLLOQUIUM

## Medicine & Homeopathy

Saturday, 13 May 2017



Crowne Plaza Brussels Airport Hotel

# PROGRAMME

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## WELCOME

This 2nd DYNHOM colloquium is devoted to the links between good manufacturing practice of homeopathic medicines, results from basic research and the daily practice of homeopathy.

A coherent rationale will be proposed explaining clinical results in man and animals obtained using a remedy of metal origin (copper) and a vegetal remedy (Gelsemium).

An expert panel representing various skill areas is invited. They will present their own understanding of the matter, each contributing a piece of a puzzle which will make an integrated whole when assembled. We expect there to be an interactive discussion which will result in a number of “take home messages”.

More than two years ago, UNIO HOMŒOPATHICA BELGICA initiated the DYNHOM project. This aims to elucidate the nature of the specific information contained in a homeopathic remedy. The most modern and innovative measurement methodologies were used, ranging from electron microscopy to electro-photonics analysis and nuclear magnetic resonance.

We hope that this colloquium will further communication between medical doctors for the benefit of all patients.

We wish you an instructive and stimulating day!

Dr Philippe Devos  
President Unio Homoeopathica Belgica



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2017, 10 ans déjà que nous vous décrochons la lune !

## PROGRAMME AT A GLANCE

08.00 Registration

09.00 **Introduction**

Dr. Philippe Devos (UHB)

09.10 **1st Part: Cuprum metallicum**

Moderators: Prof. J.P. Degaute (ULB); Dr. P Kelchtermans (UHB)

Dr Yves Faingnaert (B)

Dr Hélène Renoux (F)

Dr Arlette Blanchy (B)

PhD Etienne Capieaux (B)

Ph Martine Goyens (B)

Prof. Marc Henry (F)

Dr Michel Van Wassenhoven (B)

Dr Léon Scheepers (B)

10.40 **Coffee break**

11.00 **2nd Part: Gelsemium sempervirens**

Moderators: Prof. J.P. Degaute (ULB); Dr. P Kelchtermans (UHB)

Dr Yves Faingnaert (B)

Dr Hélène Renoux (F)

Dr Arlette Blanchy (B)

PhD Etienne Capieaux (B)

Ph Martine Goyens (B)

Prof. Marc Henry (F)

Dr Michel Van Wassenhoven (B)

Dr Léon Scheepers (B)

13.00 **Lunch**

14.00 **3rd Part: Scientific framework**

Moderators: Prof. J.P. Degaute (ULB); Dr. P Kelchtermans (UHB)

PhD Etienne Capieaux (B)

Prof. Marc Henry (F)

16.00 **Coffee break**

16.20 **4th Part: Practical conclusions**

Moderators: Prof. J.P. Degaute (ULB); Dr. P Kelchtermans (UHB)

Dr Lex Rutten (NL)

PhD Etienne Capieaux (B)

Ph Martine Goyens (B)

Dr Philippe Devos (B)

Dr Michel Van Wassenhoven (B)

17.00 **Panel discussion**

19.30 **Colloquium Dinner**

## PROCEEDINGS - 1st Part: Cuprum metallicum (09.10 - 10.40)

### Materia Medica

*Dr Yves Faingnaert (B)*

Well known homeopathic medicine for **cramps**. Deep fixation on «**not to displease**». Patient very **sensitive to love perception** from the time of birth. Real or perceived love failure can have a negative impact for live. In fact homeopathic remedy with very deep impact.

### MIND

Need for recognition and social status. Ambitious, disregarding limitations. Dominant. Oversensitive. Anxiety of conscience. Mental and physical exhaustion.

### SYMPTOMS

Week immunity – Violent symptoms! Cramps, convulsions, neuromuscular complaints after suppressed eruptions. Cyanosis, spastic breathing. Thirst (cold drinks).

### Child:

Mental and physical stress. Anxiety aggravated by any changes. Shy but dominant and reporting (feelings of injustice). Blue rings under eyes; reflux; whooping-cough; convulsions.

### Clinical case

*Dr H el ene Renoux (F)*

### Whooping cough of Claire

This is the case of a young mother who caught the whooping cough of her baby. In spite of antibiotics and different treatments she was still having a dry spasmodic and dyspneic cough. The very specific symptoms are the sudden sleep apneas, that awoke her, and the stitching pain in the lungs with the breathing. The mental keynote is the contrast between her self-devaluation inherited from her childhood maltreatment and her current behavior, demanding and proud of herself. With Cuprum metallicum 30CH the thoracic pains and the apneas have been soothed in one day and the cough in less than one week.

## PROCEEDINGS - 1st Part: Cuprum metallicum (09.10 - 10.40)

### Veterinary clinical case

*Dr Arlette Blanchy (B)*

### Epilepsy of Candy

Candy is a female dog, of indefinite breed, almost the same size of the cats living with her. Very sweet character, quiet but fast frightening and easily trembling. One peculiar symptom, always drinking a lot. Epileptic fit after getting a wooden cutting board on her head. After this accident, the dog respiration is fastened and is trembling. Moving the tongue as a snake, involuntary spastic movements of the lips. Cuprum 30K given directly allowed complete cure of the symptoms.

### Biological evidence for an effect of high homeopathic potencies using biomolecular tools

*PhD Etienne Capieaux (B)*

Our own experiments, as others recently published, make it clear that a homeopathic medicine is able to influence the expression profile of particular genes of cells when they are in contact with the remedy. Each medicine has its own genes targets.

A beam of obvious scientific facts suggests that one of the modes of action of homeopathic medicines, at genetic level, is of epigenetic nature. Etymologically, epi-genetic means 'above' the gene, not 'in' the gene. As such the remedy does not change the linear gene sequence's as a mutagenic medicine would do. An epigenetic mode of action does not alter the nature of the gene, only its expression. Just like the cursor of an amplifier of a hi-fi system allows to increase or to decrease the sound, a homeopathic medicine is able to increase or decrease the targeted gene expression. Each homeopathic remedy is assigned to targeted genes but the orientation and the power of the modulation depends of the potentization level.

The revolution for the homeopathic domain is that this biological action, also for the highest dilutions/dynamizations, is now identifiable by molecular biology technologies such as PCR (also used in criminology), Micro-arrays and heterologous expression. These 3 tools, applied for 3 groups of homeopathic stocks are presented today during 3 separated presentations.

Such epigenetic regulations are observed for both simple molecular stocks (Cuprum) as for a complex molecular mix (root of Gelsemium). Be careful not to confuse, when the unicist homeopath prescribes Gelsemium, it is indeed one single remedy but containing at the origin all roots molecules. It is a really complex mix where each molecular element could have an impact on the genome.

## PROCEEDINGS - 1st Part: Cuprum metallicum (09.10 - 10.40)

With Cuprum and Gelsemium, we have two representative members of these two different stock families. Well, it is a good thing, because they are also the research topics of this colloquium. What do we know about epigenetic and these both remedies?

### GELSEMIUM

Major steps forward were published by the university team of Verona directed by Professor Paolo Bellavite. This team established by Micro-arrays the extreme sensitivity to this Gelsemium stock of 56 genes expressed in human neurocytes. Among them genes implicated in calcium homéostasis, G-protein coupled receptor signaling pathways, inflammatory response and neuropeptide receptors This has been verified for a range of potentizations (2C,3C,4C,5C,9C and 30C) for this medicine.

### CUPRUM

Several teams of the university of Florence (Pharmacologic and chemistry department among others) have published Micro-arrays results showing a modification of the gene expression profile in a human prostate epithelial cell line after exposition to extremely low copper concentration (from 10<sup>-6</sup> to 10<sup>-17</sup> Mol/l). A set of genes belonging to different gene families were modulated by copper, precisely the families of the heat shock proteins and metallothioneins. At all concentrations tested, some genes were modulated in a dose-dependent way, while the others in a dose-independent way.

Another kind of molecular biology analysis (RT-PCR), performed on four different genes on five biological replicates for selected genes, on each copper concentration tested confirms the observations emerging from the Micro-arrays experiences.

### CONCLUSION

The efficacy of a homeopathic medicine can be highlighted using various approaches. The advanced technologies of molecular biology are opening new ways to explore the impact of “informational” medicine prepared homeopathically. Even if more studies are always justified and needed, the already published results by different teams in the world no longer allow to deny an effect of high potentized homeopathic medicines and in particular homeopathic remedies are influencing the biological activity of human cells “in vitro” and “in vivo”.

## PROCEEDINGS - 1st Part: Cuprum metallicum (09.10 - 10.40)

### GPP (+video)

*Ph Martine Goyens (B)*

### Particle signature, NMR and electro-photonic analysis

*Prof. Marc Henry (F) & Dr Michel Van Wassenhoven (B)*

### Mass Spectrometry SP-ICP-MS

SP-ICP-MS (metals): Single Particle Inductively Coupled Plasma Mass Spectrometry. In 20cc of 4CH dynamized water solution maximum 0,02µg of cuprum would be expected and 0,2g of Lactose.

Results in Cupr 4CH: In the solution, there is a **huge background signal but these particles are far too small to be detected by single particle ICP-MS**, the detection limit for copper particles is 45 nm (52 nm for Cu<sub>2</sub>O). Later on we did the same using a concentrate after lyophilisation of 200cc of solution with a similar outcome.

### Dynamic Light Scattering

Similar size of small nano-particles in cuprum 4CH and lactose 4CH, **between (0,5nm/2,5nm)**. The presence of the expected 0,02µg of coper in 20cc cuprum metallicum 4CH dynamization is not yet confirmed but possible (small mean size difference compared with lactose control). These nano particles are **not detectable with DLS above 4CH**. Greater heterogeneity of particles in lactose 4CH.

### Zeta Potential

In opposition to DLS, if the preparation is filtered (filter 0,1µ) this signal became unstable and irrelevant. This means that other detected larger particles (see further) play a role in stabilisation of this information.

With zeta potential the mean difference between water control and other samples is significant and possible between Cuprum 4CH and lactose control.

### Nano Tracking Analyser

The presence of particles even in highest dynamisation stays in a relatively stable concentration. **The particles sizes evolution for potentised Cuprum metallicum can clearly be differentiated from the two control groups**. The sizes and the dispersion of the particles sizes is growing only in CH potentized Cuprum.

### Scanning Electron Microscopy with X-ray microanalysis

Clearly it is possible, using this methodology, to differentiate visually cuprum metallicum in several potentisations from controls or other remedies.

CH and K preparations generate specific images.

For Cuprum 4C the expected quantity of dry material was almost completely collected. In the highest dilutions/potentizations theoretically unforeseen dry material was collected.

There are indeed big differences in the amount of collected material depending on the performed dilution/potentization process but also according to the different soluble or insoluble stocks used. In the soluble plant extract (Gelsemium) there is the biggest quantity of material (36 times more than in copper for the same potentization 30C). Compared to other metals, copper is the stock that gives the smallest amount of residual dry material.

The presence of this material demonstrate that the used step by step process (dynamized or not) is not a simple dilution process. For all stocks, after a simple dilution, there are always significant larger quantities of dry material collected in comparison with the potentized samples.

The lyophilized dry material obtained observed by SEM/EDS, allowing a detailed view of the nature of the obtained lyophilized dry material, produce remarkable images. If we compare the nature of the material, it is possible to discriminate the shapes not only between a metal, a salt and a plant but also between different metals and between different dilutions/potentizations process.

The chemistry of the materials, determined by EDS, shows that this material is not composed of all original molecular compounds of the MT. We did not find copper or silver in the samples; nevertheless, there is a specific composition for each of the samples, stocks and/or dilution/dynamizations.

The proportion of the different atoms results in a specific chemical profile. Because of the absence of any particles in the used deionized pure water (NTA), the presence of these atoms can only be justified by an interaction between the original stock, the used glass containers and the deionized water.

The specificities between different samples force us to also recognize an impact of the original stock all along the dilution or potentization process. A simple dilution is not a potentization and a difference exists between the C, K potentization processes and controls.

When using PET containers for the potentization of Aqua pura 30K no significant particles can be observed but in the potentized Cuprum metallicum 30K in PET container, specific particles are observed. This fact confirms the role of the stock during the potentization process. The percentage of silica is the highest in the Silicium 30C.

### Nuclear Magnetic Resonance

We obtained curves that could be specific but a question arise: « **Are these values specific and as such allowing to discriminate the medicines between each other or are they aleatory values?** ». To answer this question, statistical analyses are needed. During the session after the break the response to this question will be given.

### Electrophotonic Analyse

Electro Photonic Analyze allows testing liquids and pillules as they are manufactured in real world, the presence of alcohol does not disturb the results as it is the case for other techniques such as Nano Tracking Analyze or Nuclear Magnetic Resonance.

Electric Corona discharges are well known to science for a long time. Properties offer many commercial and industrial applications among which include the production of ozone, surface treatment of certain polymers or, without being exhaustive, their use in electrostatic separation of conductive and nonconductive materials. However, in medicine, applications of the corona effect are rare. The "Electrophotonic Ingénierie" laboratory in France developed a prototype device starting from the new pulse generator (called AEPG ©) which, combined with a specific electrode and a high-definition camera system with a very large light spectrum including the UV spectrum. This device allows recording of until now unknown photonic information's.

607 images were taken of our samples, 3 subsequent measurements on each liquid sample, one for each pill sample (very stable results). Each drop of 15µl is suspended at the end of the pipette in direct contact with an electrode. To obtain imaging, an electric potential of 10000 Volts (400 Hz) is generated exciting all electrons of the air around this drop (ionization process). When voltage stopped, electrons return to their normal orbit, emitting light (photons) that is recorded; we can see a light corona around the drop. For pillules the electrode is touching the pill and the used electric potential is 11000 Volts (400 Hz). The operation occurs in darkness, temperature (in the laboratory and outside), humidity and climatic conditions are followed all the time during the process. Further analysis of results will be presented during following session.

### EBM

*Dr Léon Scheepers (B)*

**Evidence Based Homeopathy** is elaborated from a traditional homeopathic process of gaining knowledges: Probability, Possibility, Confirmation, Corroboration and verification. For Cuprum metallicum all these steps are fully documented.

**Evidence Based Medicine** is elaborated by the evaluation of the results of research studies using the Oxford scale to give a score to the obtained evidence. In a randomized, good quality placebo controlled, cross over design study on 20 patients in hemodialysis and presenting cramps the effect on cramps is clearly in favor of the Cuprum metallicum 9CH. **EBM level 1b** and all levels below are obtained today.

## PROCEEDINGS - 2nd Part: Gelsemium sempervirens (11.00 - 13.00)

### Materia Medica

*Dr Yves Faingnaert (B)*

Anxiety. Fear examinations. Anticipation. Fear losing control. Clinging. Mental and physical inhibition. Influenza: wet spring.

### MIND

Stage fright. Anticipation. Uncertain. Coward. Apathetic.

### SYMPTOMS

Weak. Sensation cardiac arrest, ameliorated by motion. Paralysis. Parturition – labor. Fever: heat with chills. Aggravation by warm humidity. Amelioration by urination.

### Clinical case

*Dr H  l  ne Renoux (F)*

#### Sleeplessness & Cassandra

This is the case of a 66 years old woman, suffering sleep disorders together with very old anxious symptoms and episodes of confusion. At the medical interview it appears that this anxiety goes back to a terrible accident she witnessed when she was a child. And since this she tends to anticipate accidents in each assumed dangerous situation. The only physical symptoms are her extreme frilosity, and her lack of thirst. With Gelsemium 200K she gets rid of her episodes of confusion and starts stopping the anxiolytic treatment. After 3 months she has to take again Gelsemium in low potency ( LM5) to slowly wean herself of sleeping pills.

### Veterinary clinical cases

*Dr Arlette Blanchy (B)*

#### The vestibular syndrome of Bambou

Bambou is a cat presenting chronically recurrent violent sneezing periods but in good general condition. Affectionate, need of company and accepting easily the presence and disturbances of two little child's in the owner family. Suddenly the cat presented a totally abnormal behaviour, head tilted to side, front legs apart, nearly falling at each movement. Vestibular syndrome is the most logical diagnose. Putting together the old (coryza) and new symptoms Gelsemium 30K was given, two days intake was enough to clear all symptoms.

## PROCEEDINGS - 2nd Part: Gelsemium sempervirens (11.00 - 13.00)

### Biological evidence for an effect of high homeopathic potencies using biomolecular tools.

*PhD Etienne Capieaux (B)*

See CUPRUM part of these proceedings for a full text comprising data on GELSEMIUM.

### GPP (+video)

*Ph Martine Goyens (B)*

### Particle signature, NMR and electro-photonic analysis

*Prof. Marc Henry (F) & Dr Michel Van Wassenhoven (B)*

### High Performance Liquid Chromatography. HPLC-UV

Markers of Gelsemium sempervirens are detectable and quantifiable up to the 5D potentization. At 6D (3CH), they are detectable but no more quantifiable.

### Nano Tracking Analyser

Particles exist even in highest dilutions but in very low quantities in a relatively stable concentration. Compared with a metal or potentized water control in glass containers, the concentration of particles is similar in all samples. Only for K potencies is the amount of detectable particles higher. There is a clear difference for all aspects between potentized Gelsemium and potentized water control prepared in PET containers. This PET water control is at the limit of the NTA methodology, the visualized particles are considered here as non-homogenous artefacts. The nature of the particles needs further identification by SEM/EDS.

### Scanning Electron Microscopy with X-ray microanalysis

Clearly it is possible, using this methodology, to differentiate visually Gelsemium sempervirens in several potentisations from controls or other remedies. CH and K preparations generate specific images. Quantities of collected material are much higher for plants than for metals or water control.

For Cuprum 30C, the number of particles was comparable but only 1 µg/g was collected (40 times lower than in Gelsemium 30C). The presence of this material demonstrate that the used step by step process (dynamized or not) is not a simple dilution process. The lyophilized dry material obtained from Gelsemium 4C, 30C, 200K, dilution 10-60, Cuprum 30C and Water 30C observed by SEM/EDS, allowing a detailed view of the obtained lyophilized dry material, produce remarkable images.

If we compare the nature of the material, the diversity of shapes is the most complex in the 4C but can also be found in Gelsemium 30C and 200K. The shapes are also easily discriminated from simply diluted Gelsemium 10-60, potentized copper or Kalium muriaticum 30C or potentized water 30C materials.

The chemistry of the materials, determined by EDS, shows that this material is not composed of all original molecular compounds of the MT.

Example: already in Gels 4C, no nitrogen found, meaning absence of specific Gelsemium alkaloids. There is a specific composition for each of the samples. The proportion of the different atoms results in a specific chemical profile.

The Molybdenum identified in Gelsemium 4C is an original component of the MT. This atom was not found in the other samples, excluding an involvement of glass containers. It is part of the xanthine oxidase, enzyme largely expressed in the roots of plants. Because of the absence of any particles in the used deionized pure water (NTA), the presence of these atoms can only be justified by an interaction between the original stock, the used glass containers and the deionized water.

A simple dilution is not a potentization and a difference exists between the C, K potentization processes and controls.

When using PET containers for the potentization of Aqua pura 30K no significant particles can be observed. Nevertheless, for the potentized Cuprum metallicum 30K also in PET container, particles are observed.

This fact confirms the role of the stock during the potentization process.

### Nuclear Magnetic Resonance

NMR proton relaxation is sensitive to the dynamics of the water molecule H<sub>2</sub>O (solvent), through the interaction of the spin of the proton (1H) with external magnetic and electromagnetic fields.

This study confirms that it is possible to monitor dilution and potentization processes through measurements of 1H spin-lattice T<sub>1</sub> and spin-spin T<sub>2</sub> relaxation times. In order to interpret the recorded fluctuations, experimental data have been linearized (dilution integral or DI). It was possible to show that such fluctuations cannot be attributed to random noise and/or experimental errors, evidencing a kind of memory effect that can be quantified. **All potentized samples show very good discrimination (at least nine-sigma level) against aqua pura, lactose or simple dilution.** Our experiments point to a considerable **slowing down of molecular movements** around water molecules up to a distance of 3.7 Å, values. It was also possible to rule out other possible mechanisms of relaxation (diffusive motion, 17O-1H relaxation or coupling with the electronic spin, S = 1, of dissolved dioxygen molecules).

This is clear evidence that homeopathic solutions **cannot be considered as pure water** as commonly assumed. Instead, we have evidence a clear memory effect upon dilution/potentization of a substance (water, lactose, copper, gelsemium) reflected by different rotational correlation times and average H...H distances.

A possible explanation for such a memory effect may lie in the formation of mesoscopic **water structures around nanoparticles and/or nanobubbles** mediated by zero-point fluctuations of the vacuum electromagnetic field as suggested by quantum field theories. It follows that the existence of a putative **Avogadro's wall for homeopathically-prepared medicines is not supported by our data.** It should be rather considered that all dilutions may have a specific material configuration ruled not only by the potentized substance but also by the chemical nature of the containers, the chemical nature of dissolved gases and even by the electromagnetic environment.

This sensitivity of homeopathically-prepared medicines towards electromagnetic fields may be amplified by the highly non-linear processing routinely applied in the preparation of homeopathic medicines. Future work is obviously needed in such directions, and we think that time is now ripe for a **complete demystification of the principles involved in the preparation of homeopathic remedies.**

### Electrophotonic Analyse

Granules impregnated with cuprum metallicum or gelsemium dynamized solutions are clearly distinguishable using electro photonic analysis. Hahnemann's and Korsakov's protocols also lead to distinguishable images for the same kind of samples. It was also observed that samples aged of tens of years remains distinguishable from the reference or from fresh samples, evolving with time and evidencing a kind of bonification over time quite similar to that observed with wine and alcohols for example. All electro photonic images display a characteristic more or less brilliant globular aspect, meaning that samples reacts mainly to the negative pulses of the generator and are insensitive to the positive pulses.

A similar analyze is ongoing on liquid samples compared with even more set of control samples. These results will be presented in future symposiums.

## PROCEEDINGS - 2nd Part: Gelsemium sempervirens (11.00 - 13.00)

### EBM

*Dr Léon Scheepers (B)*

**Evidence Based Homeopathy** is elaborated from a traditional homeopathic process of gaining knowledges: Probability, Possibility, Confirmation, Corroboration and verification. For Gelsemium sempervirens all these steps are fully documented.

**Evidence Based Medicine** is elaborated by the evaluation of the results of research studies using the Oxford scale to give a score to the obtained evidence.

**Animal surveys:** The overall pattern of results provides evidence that Gelsemium sempervirens acts on the emotional reactivity of mice, and that its anxiolytic-like effects are apparent, with a non-linear relationship, even at high dilutions. This pooled data analysis confirms and reinforces the evidence that Gelsemium s. regulates emotional responses and behaviour of laboratory mice in a nonlinear fashion with dilution/dynamization.

**Human survey:** Sempervirine (extract of Gelsemium sempervirens in 5, 7, 30CH) have a significant anxiolytic effect on animals (Guillemain et al 1989; Cardenne M 1991) and in human in 5, 7 9CH, using the “State-Trait Anxiety Inventory” (STAI) in two groups of 60 patients (Sempervirine versus benzodiazepine) have a statistically significant comparable efficacy on anxiety and an added change in personality (anxious component) at long time for the Sempervirine group.

**EBM level 1a for animals and 2b for humans** (Individual cohort clinical trial) and all lower levels; an attempt to reach level 1 with Gelsemium in psychiatric disorders with anxiety failed. **No ethical problems to prescribe this homeopathic remedy** for patients. This fact is confirmed by the EPI-3 survey.

## PROCEEDINGS - 3rd Part: Scientific framework (14.00 - 16.00)

### Changes in gene expression induced by high homeopathic potencies of short nucleic acid fragments

*PhD Etienne Capieaux (B)*

Homeopathy considers human being as a global, mind and physical, entity. Mankind is closely connected with the global universe. Homeopathy is connected with **LIFE** in all its components. Rhythm is part of all living systems and an important pillar of the pharmaceutical manufacturing of high potentizations.

It is thus important to assist basic physicochemical researches by investigations starting of **LIVING** systems, human, animal or vegetal as examples.

New and unique experimental data's are presented at this colloquium, a window on new horizons. As example, we have studied the impact of high potentization on baker's yeast. It is an **LIVING** eukaryotic unicellular organism worldwide used for scientific research. It is genetically and biochemically very close of human cells.

We can see a yeast gene answer to the contact with homeopathic stocks and this in a reproducible manner. The gene response is identified by the appearance of a color quantified by measuring its specific absorbance. Here again an experimental design derived from extensively published classical scientific research. The uniqueness of the presented data at this colloquium is that this model totally fit for the investigation of informational and potentized homeopathic medicines.

The presented experimental data reveal the existence of peculiar yeast genetic areas influencing the tested gene expression. Clearly, the gene expression could be controlled by subtle information's carried by precise DNA sequences.

The homeopathic medicine modulates the information carried on these sequences. Advanced technologies of molecular biology offer new tools to study the effect of a homeopathic medicine on biologic systems.

For Cuprum and Gelsemium, we explained this morning how the Micro-arrays technologies and PCR could help us to understand the impact of these remedies on our genes.

Using the yeast model, we are at the level of the heterologous gene expression and the impact on reporter's genes. The information about gene expression is reported through response intensity, a color in this specific case. This molecular biology tool, designed for classical experimental studies on high dosed conventional medicines, lend itself remarkably also in homeopathic medicines allowing to objectivize their activities.

## PROCEEDINGS - 3rd Part: Scientific framework (14.00 - 16.00)

The common point of these diverse experimental approaches is the study on gene expression or gene behavior after contact with high potentized homeopathic medicine. The actual bibliographic state-of-the-art demonstrates firmly this new direction.

1. Yes, there is an interaction between the homeopathic medicine and the subject genome when contact is established.
2. Yes, a biologic activity can be started within a **LIVING** being by a homeopathic medicine.
3. The experimental results presented today on the unicellular yeast is a prove that this biological activity is not a placebo effect.

### Quantum Physics & homeopathic medicine

*Prof. Marc Henry (F)*

The original suggestion of Samuel Hahnemann of the existence of an immaterial dynamical force for explaining homeopathy is analyzed within the frame of quantum theory. Based on quantum field theory and the concept of 2D coherence domains, a plausible model of action of homeopathic remedies is proposed allowing discussing the concept of water memory and information transfer through electromagnetic signals within a scientific rigorous quantitative frame. This quantum-mechanical viewpoint points to the crucial role played by lipidic membranes, a universal component of any living system. Attempts to assimilate homeopathy to a mere placebo effect and trials to block research funding on homeopathic remedies should be viewed as a conservative attitude stemming from a sticking to a materialistic philosophy based upon classical physics laws. Time is now ripe for physicians and biologists to realize that quantum physics applies at all scales, giving to homeopathy its credentials as a rational medical approach for healing people.

## PROCEEDINGS - 4th Part: Practical conclusions (16.20 - 17.00)

### Clinical verification: EBM in patient's perspective

*Dr Lex Rutten (NL)*

There is proof for homeopathy based on Randomized Controlled Trials (RCTs) and some people conclude that this proof is not inferior to proof for conventional medicine, others conclude that it is not enough. Nobody knows when proof is enough, because up to now no new medical method has been recognized on proof. If 110 homeopathy trials show the same effect as comparable conventional trials, will RCT evidence really make the difference?

If we want to progress from here we should include the patient's perspective in our research. The patient wants to know if his medicine will work for him. RCT evidence does not give that answer.

We can apply science to fulfil the patient's needs; this is possible with prognostic factor research. In prognostic factor research we verify the symptoms that we know from worldwide consensus that enable us to make a personalized prescription. The individual patient will benefit more from this research than from RCT.

### The high-speed train (TGV) « Homeopathy » run on new scientific rails towards new destinations

*PhD Etienne Capieaux (B)*

Using molecular biology objectifiable methods we have to conclude that: **there is an interaction between a homeopathic medicine and patient's genome.**

This interactivity includes epigenetics. Indeed, these molecular biology methods, daily used in university centers and hospitals, showed that a homeopathic medicine is able to increase or decrease human gene expression. As such it modifies the (human or animal) physiology of the receiver.

These "in vitro" or "in vivo" experimental observations confirm that a high potentized homeopathic remedy is a medicine, in its classical and noble sense, because it generates a biological activity in the body.

Furthermore, the results with "in vitro" unicellular model (*Saccharomyces cerevisiae* – baker's yeast), presented during this colloquium, excludes a simple placebo effect. Under the impulse of these new technologies, earlier exclusively used for allopathic medicines, homeopathy comes again on new high-speed scientific rails, as a TGV.

## PROCEEDINGS - 4th Part: Practical conclusions (16.20 - 17.00)

It opens new horizons for compelling investigations on its mode of action and many open questions.

We can consider 6 research pillars:

1. Better understanding of implemented biological pathways (biochemical waterfalls) at the intake of a homeopathic medicine.
2. Better understanding of the “power” (biologic impact) on living systems when the potentization (dilution/dynamization) level increases.
3. Better understanding of the individualization principle of a homeopathic medicine.
4. Better understanding of the nature of the physicochemical transmitters of the homeopathic information to the genome. The implication of the nuclei-backbone and the tridimensional structure of the transcription promotion areas is a solid hypothesis.
5. A new definition of the homeopathic proving concept (on healthy volunteers) through the identification of the concerned genes after intake of a questioned homeopathic medicine in different potentization's. We could call them Homeopathic genetic provings. It could assist the prescribers beside classical provings results (corroboration).
6. Better understanding of the resonance areas of the genome when the homeopathic information has been received at a specific gene, modulation of the gene expression under control of this area.

### The role of the pharmacist in homeopathy

*Ph Martine Goyens (B)*

The pharmacist plays a central relay and communication role. They may be a catalyst for the development of homeopathy. They ensure the exact delivery of the prescription (GPP); know the nomenclature, abbreviations, synonyms and prescription agreements. They complement it with judicious advice (material required and possible delegation). They may also advice in acute situation answering the ever-increasing demand from the public. They are allowed to prepare magistral and officinal preparations also in homeopathy if they comply the GPP (Good Pharmaceutical Practice) standards.

Pharhom (PHARmaceutical Association for HOMEopathy) brings together pharmacists who are interested in homeopathy, helping for education, documentation, contacts with authorities, accessibility of remedies and research. Future research on GPP is surely needed. Our association has actively collaborated in the Dynhom project. We are also proposing research tracks for the future.

## PROCEEDINGS - 4th Part: Practical conclusions (16.20 - 17.00)

### The future of the profession

*Dr Philippe Devos (B)*

1. The homeopathic medicines are subjected to a control of quality, safety and homeopathic use whose standards are imposed by a European directive. In the future prescribers must have all the necessary remedies to cure all the patients who turn to them. Quality and safety standards must also take account of traditional confirmations and checks of these drugs (same starting materials, same quality as in the past). The role of competent pharmacists in homeopathic preparation should be put at its true value.
2. The teaching of homeopathy to doctors in Belgium follows a common program validated by peers in Europe. In the future it will have to follow the European standards (CEN) which have been applied since a few months
3. In order to protect patients from inappropriate practices, the complementary title of homeopathic competence will henceforth be reserved in Belgium to doctors, dentists and midwives who have undergone such training and are continuously trained in this field. It is urgent that the specialized ministerial committee meet in order to put this Royal Decree in place properly. This will also have implications for the future teaching of homeopathy to these professions within a framework set by the Law. The delivery of the homeopathic medicine will however remain free in pharmacy and for all doctors.
4. Research on both homeopathic medicine and its clinical results should be promoted and financed where possible in collaboration with the universities which are interested in these research projects, taking into account the specificities of this practice, such as the individualization of treatments and the law of similarity.
5. Then we can hope that new doctors, dentists and midwives will be interested in the study and practice of homeopathy. Patients who wish to use homeopathy as complementary or alternative therapies are too numerous for the number of professionals in place today. The results that have been presented today are proof that this approach makes sense and that it is necessary to go beyond preconceived ideas.
6. For this we need a strong and firm Professional Union as well as an effective patient association and all this will then become possible. So join these organizations that work tirelessly for the future to be worthy of this great tradition.



## TAKE-HOME MESSAGES

This second DYNHOM colloquium delivered several responses to the question of the nature of the homeopathic medicines (signature).

- Using the most advanced technologies, there is a complete coherence between all measurements on homeopathic medicines (HPLC-UV; NTA; SEM-EDS; RMN; AEP ...).
- A dynamized dilution is not a simple dilution.
- A step by step dilution is not a common dilution and the Avogadro number cannot be applied to this manufacturing method.
- The “K” manufacturing process is not comparable to the “CH” manufacturing method.
- Discrimination between homeopathic potentizations of two different medicines is possible even in highest dilutions.
- Tools commonly used in Molecular Biology can be applied to homeopathic remedies and a specific effect is demonstrable.
- Quantic Physic of fluids is able to explain all these facts.
- The homeopathic medicine is more than a placebo preparation.
- The use of homeopathic medicines is justified by an appropriated EBM level.
- The efficiency of homeopathy in general practice is at least comparable to the conventional approach avoiding iatrogenic secondary effects.
- Homeopathy used as complementary approach of patient’s complaints is ethically justified.

All these are good reasons to implement the Royal Decree on Homeopathic Practice in Belgium.

## THANK YOU MESSAGE

Thanks for all your gifts!

We could finalise this first phase of the DYNHOM research project with the collected 30.921,20 euros. To go on with this project we need, of course, new funds. We count on you!

**How to donate for DYNHOM research project:** For each donation of 120 euros we are able to walk a step further. It allows one measurement of a product and of needed controls and as such to come closer to answers. Thousands of patients are relying to homeopathy, if each of them would be able to make the step further ...?

Bank transfer to Unio Homoeopathica Belgica labeled  
"Donation DYNHOM research project"

IBAN: BE25 0882 4940 5482  
SWIFT: CKCCBEBB

Thanks for your involvement in this research project.

## REGISTRATION

### Registration Fees

UHB/Pharahom Member	€ 110,00
Non-Member	€ 125,00
Patient	€ 100,00
Profit Organization	€ 250,00
Student*	€ 100,00
Dinner	€ 80,00

*\*Certificate of student status is required.*

The registration fees include participation in the scientific sessions and exhibition, simultaneous translation, the coffee breaks and high quality lunch.

### Payment

Payments can be made by credit card or cash.

### Cancellation Policy

Any participant cancelling his/her registration before 1 March 2017, will receive a refund, less 25,00 Euro covering administration costs. No refunds are made after this date.

## GENERAL INFORMATION

### Venue

Crowne Plaza Brussels Airport Da Vincilaan 4 1831 Brussels Belgium

### Car Park

Free parking at the Crowne Plaza Brussels Airport. Parking tickets will be available at the registration desk during opening hours.

### Public Transport

A free shuttle bus from the airport to the Crowne Plaza is available for all participants. The bus stop is situated on Level 0 of Brussels Airport, departure bay E and runs every 20 minutes from 06.00 hrs to 22.00 hrs.

### Accreditation

A request for accreditation has been submitted to RIZIV/INAMI. All MDs must sign the lists of accreditations in the morning and the afternoon.

All participants will receive a Certificate of Attendance by email at the end of the Colloquium.

### Liability

Neither the organisers, Crowne Plaza nor Medicongress accept liability for damages and/or losses of any kind which may be incurred by participants during the Colloquium. Participants are advised to take out insurance against loss, accidents or damage which could be incurred during the Colloquium.

### WiFi

WiFi codes will be available at the registration desk.

## EXHIBITORS AND SPONSORS

