



i-Tech[®]
INDUSTRIES
The science of skin

Mobilization,
vascularization
and metabolic exchanges

International Expert Meeting

Scientific book



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The science of skin

I-Tech Industries srl, the producer of icoone[®], has always carried out innovative technologies to work with the skin and connective tissue.

We are willing to continue deepening our knowledge in order to improve and innovate our expertise. We strongly believe in research: our mission is constantly searching and improving technologies to stay at the edge of innovation.

We constantly work to develop new protocols, to evaluate new applications and results to support the icoone[®] users and to keep growing.

The following pages are the extracts of the presentations made by the doctors during the meeting.

The following abstract are introduced according to the order of presentation.

Scientific book



Dr. Jean-Claude Guimberteau

Plastic surgeon in France, specialized in microsurgical replantation and transplantation.

Member of the Aquitany Hand Institute that treats hand trauma and hand chronic diseases.

This experience of hand surgery and microsurgery has made him perform a new procedure for tendon reconstruction with vascularized sliding system.



Of Cells, Fibers and the Living Human body.

«Connective tissue is not just a connecting tissue, but the constitutive tissue.

It is important to know the anatomical architecture of the subcutaneous tissues in order to understand the suppleness and elasticity. The mechanical behavior is assumed by a fibrillar network embedding cells with a irregular and chaotic architecture and made of collagen and elastin. The fibrillar tissue starts from the surface of the skin and it is in contact with the cells. The groups of the cells are completely integrated into the fibrillar network. If the fibrillar network is stimulated by mechanical action, the group of cells remains bound to the fibers and it is affected by the mechanical action. Fibers and cells are inseparable.

Everything is in physical and histological continuity. It's important also to study the cells in the human body because they have different behaviors compared to those in vitro. The cells have an attraction towards the blood vessels. **There is a connection between fibers, cells and vessels** and a connection between cells and mechanical action. The extracellular environment is as important as the intracellular environment. The fibrillar network is responsible for body shapes, and body elasticity. **The relationship between cells, fibers and vessels is global.»**

i-Tech:

«The mechanical action of icoone® influences the cells behavior. **If the fibers move, the cells and blood vessels also move.** icoone®, with the Multi Micro Alveolar Stimulation, stimulates the connective tissue fibers generating a global action throughout the body.»

Scientific book

Prof. **Raoul Saggini**

Full Professor Physical and Rehabilitation Medicine Department of Medical Oral and Biotechnological Sciences, Director of the School of Specialty in Physical and Rehabilitation Medicine, "Gabriele d'Annunzio" University, Chieti-Pescara (Italy), National Coordinator of Schools of Specialty in Physical and Rehabilitation Medicine.



Posture & Aesthetic-Functional Harmony.

«The rapid and widespread need for human health linked to the change in lifestyle, which is increasingly affecting modern society, has brought about a request for well-being based on efficiency, on the social presentable, on the psychic equilibrium and on the ability to interact with the environment and with themselves. This has led health professionals to identify a new clinical and therapeutic approach, such as "biopsychosocial approach" through functional aesthetic rehabilitative medicine. **The structures of the human body is able to transmit the action of the parts involved**, in order to generate a movement. Each of the neural structures is harmonized in increasingly complex integrations; therefore, the movement involving a certain part of the body can substantially influence the motor expression of the whole. imoove® with a Élisphérique® concept (naturally inside in the man) gives a global action. Working with imoove I evaluated that its action is expressed also in aesthetics and using imoove in combination with icooone®, I have demonstrated that **the two technologies have a global action on the body** to achieve harmony, the total beauty and health of the whole body.

icooone® and imoove® combination has proven effective in clinical practice for the resolution of patients' morphological, postural and aesthetic problems. This further strengthens the concept of a connection between the aesthetic alteration of the body and that of its sensorial-motor function.»

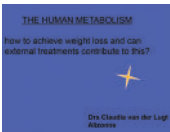
i-Tech:

«It is important to take care of all the body in its entirety.
Thanks to the evolution of icooone® and imoove® combination, it is possible.»

Scientific book

Dr. **Claudia Van der Lugt**

Doctor in Netherland specialized in all kinds of lasers, fractional lasers and LED therapy. Member of various international organizations. Medical director of Alizonne, clinic specialized in weight correction.



Dr. Van der Lugt was not present at the meeting but we wanted to insert her abstract as well.

The human metabolism: "how to achieve weight loss and can external body treatments contribute to weight loss?"

«As quantified, 25% percent of children in the industrial countries are overweight, and overall we now count 37% overweight adults. So if we want to preserve our and the future generation from additional health problems we need to act now!! Nutrition is a necessary source for the human metabolism to serve the body building or energy substances. But what if the human body already has a large reserve of energy sources stored in fat tissue? Can we use this fat tissue appropriately in respect of the cosmetically wanted contourshaping? The essence is to realize **the non-reflection** of fat tissue location on the weight scale. These extra fat tissues are just a simple non-qualified reflection of extra body mass on the scale.

Visceral fat is detrimental on health, subcutaneous fat deposits are purely cosmetic. How to determine the location of these fat deposits? Can subcutaneous fats be expelled by external body treatments and serve as an energy source in dietary regimes to reduce weight? The essence is to qualify and quantify the fatdeposits to address the correct treatment. The body mass index does not reflect the location of fat deposits and has never been designed for an overweight measurement. Food is absorbed as proteins, carbohydrates and fat. The metabolism of proteins is not less or more important than the metabolism of carbohydrates and lipids. Proteins and other non-protein nitrogen compounds are essential for growth, replacement and repair of body tissues. In order to act on the adipose cells in terms of weight loss, it is necessary to first locate the excess fat tissue. If this is visceral than nutrition reduction is in place. But if this fat tissue storage is a combination of visceral and subcutaneous storage than a food restriction, physical activity and external treatments are in place. External treatments, like **icoone®**, **work in order to reshape the body** can add to the liberating of fats from subcutaneous cells to be used as energy sources in a food regime while simultaneous enhance the needed skin retraction.»

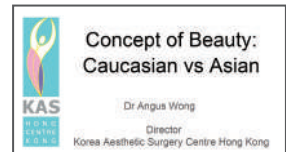
i-Tech:

«The body takes energy from the areas of the body where it is easier to take it. Multi Micro Alveolar Stimulations allows to take fat in the areas where we want, where the person needs. This is because it mobilizes fat cells, activating their metabolism.»

Scientific book

Dr. **Angus Wong**

Aesthetic Doctor in Hong Kong
Director Korea Aesthetic
Surgery Centre Hong Kong.



Concept of Beauty: Caucasian vs Asian.

«The concept of the beauty could seem different in Caucasian and Asian people. This is because there are some fundamental morphological differences. For example, in general, the Asian people have more rounded and flatter face, while Caucasian people have more angular face. Facial features are more prominent in Caucasian than Asian. The nose is higher in Caucasian, while it is usually flatter in Asian.

Researchers at Glasgow University have collected images of people from different countries. They have generated average faces of the specific countries using computer. The average faces of different countries are quite different. However, when the images of the pretty faces from different countries are averaged and compared, they look quite similar. The differences in their facial features seem to converge into a general ideal facial beauty. This is true even for different racial groups.

The concept of facial beauty is universal. There are minor cultural or regional differences including colour of skin and the preference for skin tone but in general it is very similar among different people in different countries.»

i-Tech:

«With **icoone®** it is possible to work in order to reach the absolute beauty of the face and body. **icoone®** treats the skin according to its needs. This is an universal concept because **icoone®** allows to treat all kind of skin, respecting it and guaranteed the beauty.»

Scientific book



Dr. Alain Bardon

Osteopath, Physiotherapist in France.
Specialized in bio mechanical and muscles rehabilitation.
Expert in mechanized massages with rollers technologies for 25 years.



Matrisome ECM and Mechanization.

«Considered from the biological point of view, a cell cannot be considered in itself without taking into account its environment. The living matrix is a means by which this produces a cascade of activities. The triad of vertebrate life is: capillary-cell-matrix.

In the human body, ***the role of the artery is absolutely supreme.***

icoone® has a biomechanical action on the arteries. The arteries have significant biomechanical influences on the movement of a structure, as much as the muscular system. ***The sympathetic nervous system has a very strong connection with the vascular system.*** The arteries can be considered a true path of the autonomic nervous system. Multi Micro Alveolar Stimulation (MMAS) of icoone® produces a cascade of reactions in all structures and organic functions. So this action can influence biochemical processes in an important way and at all layers.»

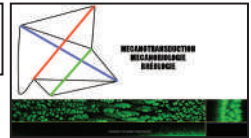
i-Tech:

«icoone®, with its fractional stimulation, it's a different way to treat the skin and the connective tissue, in fact it creates a cascade action at different levels without stress for the tissues and creating a complete regeneration of the whole body.
It is a global action.»

Scientific book

Dr. Frederic Dubayle

Physiotherapist in France,
Developer of new physiotherapy
techniques rollers technologies
evaluation expert.



Mechanotrasduction, Mechanobiology, Rheology.

«The cells communicate with each other by chemical or mechanical messages. Mechanical exercises are essential for the proper functioning of the body. The principle of these processes is called: mechano-transduction, it is the transmission of a mechanical signal in another type of signal. **The connective system is a mechanical transducer.** Healthy skins have the particularity of spontaneously adapting to mechanical stresses. On pathological skin, this vasodilatation is diminished or absent. The role of the mechanically sensitive ASIC3 channel in this physiological process has been demonstrated. The ASIC3 is activated by mechanical action and triggers the entry into play of sensory nerve endings that implement the release of neuropeptide vasodilators.

These neuropeptides bind to endothelial cells which in turn release prostaglandins and nitric oxide to relax the muscle. MMAS acts on the inner wall of the blood vessels, the endothelium, to increase the availability of nitric oxide (NO), promote dilatation and improve vascular elasticity systemically. The action of nitric oxide (NO) is one of the most powerful mechanisms that can lead to the relaxation of muscle fibers in the vascular wall, which allows a regulation of the flow according to the needs of the body. This vasodilatation causes an increase in blood flow from the center to the periphery of the body, improving the microcirculation. The diffusion of (NO) in the blood creates vasodilatation, the improvement of the microcirculation and the oxygenation of the muscles, the lymphatic drainage, the regulation of the body (sleep, gastrointestinal function, anti - stress), systemic management of edema and traumatic contusions.»

i-Tech:

«The Multi Micro Alveolar Stimulation of icône® on the connective tissue generates the transmission of mechanical information from the surface of the skin to the deeper tissues. This allows a delicate action on the tissue but at the same time intense and effective.»

Scientific book



Dr. **Chantal Bardon**

Physiotherapist, Osteopath in France
Specialized in reflexology and muscular chains.
Expert in mechanized massage with rollers
technologies for 25 years.



Posture and Back Reinforcement to improve beauty results.

«The shape of the foot is very important to ensure body harmony. The articular and muscular chains are an organization that unifies the body, from head to hands and feet. The spiroïd movement is used physiologically to join the muscle chains around the joint chain in a synchronous action.

The Élisphérique® movement derives from the observation of the movement of the vertebrae on each other. Restart the natural movement of the vertebrae for postural control it's necessary for anybody. The action coupled between imoove and icoone gives a complete external and internal effect for the well-being of the whole body. The Élisphérique® method is a method aimed at the complete postural reprogramming of the natural spiral movements of the human body in an upright position. This **biomechanical revival** is guided by the motorized platform with the Élisphérique® movement of imoove® that recruits the muscular spirals. It allows reproducing neuro-motor patterns forgotten by the brain. The postural activation of the Élisphérique® movement takes root in the arch and spreads to the deep muscles of the back.»

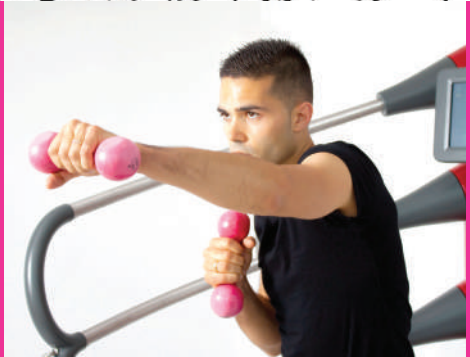
i-Tech:

«The corrective action on the posture determines an improvement not only on a healthy level, but also on an aesthetic level. The combination of icoone® and imoove brings to the harmony and global beauty. These two devices work in synergy internally and externally.»

Scientific book

Mickaël Liabeuf

Personal Trainer in France. Personal coach for all kind of people (sedentary to sportsman people). He sets up and manages the physical activity in a company and he takes care of rehabilitation patient in clinics.



Body workout for beauty and wellness industry.

“With imoove[®], like with icone[®], it's possible to **customize the treatments**. imoove[®] and icone[®], can be use by all kind of people, young to old, in good or in bad physical condition, in good health or injured. The devices fit to all. Before to start with the imoove[®] training, there is the body evaluation, aims definition, sessions preparation. This allows to reply exactly to the needs of the body. Further, the customers can use imoove[®] with a coach or alone thanks to the embeded programs. imoove[®] mobilizes the 95% of muscular tissue on the body and deeper muscles. imoove[®] is a technology that works for the beauty of the body. Moreover, with imoove[®] it's possible to act with a global action able to give the harmonization of the body. **The combination with icone[®] helps to reach the global beauty.** icone[®] works on the skin, on the connective tissue in order to produce a complete regeneration of the body and mobilize fat tissue; imoove[®] mobilizes the body, burning the fat cells. icone[®] improves the skin quality; imoove[®] gives muscle harmony. Working with these two technologies, the body receives a complete stimulation: internal and external, moreover the technologies are easy to use, the sessions are pleasant. This aspect gives wellness to the body.»

i-Tech:

«Our goal is to combine aesthetic beauty with health of the body. This in order to reach the global harmony. To do it, we created a new concept, i-boost. Thanks to this concept, we are able to reply to a new approach of the beauty and health.»

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*would like to thank the doctors that
shared with us their experiences:*

Dr. Guimberteau

Prof. Saggini

Dr. Van del Lugt

Dr. Wong

Dr. A. Bardon

Dr. Dubayle

Dr. C. Bardon

M. Liabeuf

Castelbrando, 20-21 November 2017

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