7th Biophotonics Internacional Forum

NOVEMBER 9th – 10th, 2021

Hystory of the Laser Academy and Laser Florence Congress

L. LONGO, MD

Professor of Laser Surgery and Medicine, e-Campus University of Milan Institute Laser Medicine, Firenze, Italy







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The International Academy for

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Selection criteria for Fellowship

Scientists with

Open mind

Coherent

Loyal



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Selection criteria for data

Experimentation must follow:

- Helsinki Declaration rules (measuring, repeating, reproducing) (Statistical Observation)
- Virchow's approach: "At first we study the Facts, then the causes of Facts" (Analytical Observation)
- W.H.O. approach: We must study and verify each substance, energy, tool which modifies a physiological process of the human body

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Diffusion of knowledge

Solution Conferences : WFSLMS, ISLSM

as International Conferences with Pre-Conference short Courses

Residential Courses and Congresses

American Society For Laser Medicine And Surgery - ASLMS

Tithuanian Soc. Laser Med. and Surg. – BALM

Rumanian Soc. Laser Med. Surg. – RSLMS

🟵 Israelian Soc. Laser Med. Surg.

Czech Rep. Purkjnje Soc.

Poland Soc. Aesthetic Medicine

Origination States of States and States and

IMeLas Master Tokyo - International Medical Laser Specialist
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TRANSLATING RESEARCH FROM THE LABORATORY BENCH TO THE BED SIDE: THE ROLE OF INTERNATIONAL CONFERENCES



Juanita J. Anders, Ph.D.

Professor of Anatomy, Physiology and Genetics Professor of Neuroscience USUHS

INTERNATIONAL SCIENTIFIC CONFERENCES:

Inspire research ideas





Establish collaborations



NETWORKS GENERATED BY LASER FLORENCE CONFERENCES

1997: Pulse light for vascular lesions, advantages and limits. **Endovascular Laser therapy for varicous veins**. Indication and contraindications for Laser resurfacing procedures.

1998: Mechanism of action, ant inflammatory and anti-edema effects of Laser. Advantages and limits for laser in dentistry. Types of laser recommended for treatment of telangiectases and reticular veins.

1999: Prostatectomy laser. Non surgical endovenous laser modulating the immune system. Advantages and limits of Laser and IPL as hair removal techniques.

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2000: PDD and PDT for the treatment of gastrointestinal and urological cancers. Laser therapy for wound healing and skin ulcers, stretch marks, scars, keloids. Laser and IPL in skin rejuvenation.

2001: Laser treatment for diabetes type 1 and 2 (live demonstration on patients during the congress, probably, for the first time in the world). Advantages and limits of pulsed light in aesthetic medicine and surgery. What kind of laser should be in rheumatology and sport traumas? Role of European Community and World Health Organization in these issues.

2002: Laser Treatment of disk Hernias. Laser and light treatment for Psoriasis and Vitiligo.

2003: Laser therapy for nervous cells regeneration, in vitro and experimental. Complications of laser and light therapy and their treatment. Selection of affordable instrumentation. Advantages and limits of laser in ophthalmology. Position of FDA and other International Institution on non surgical laser.

NETWORKS GENERATED BY LASER FLORENCE CONFERENCES

2004: Laser therapy of spinal cord injuries in clinical practice; first diabetic patients treated with laser in Italy, following Helsinki declaration rules; news on mechanisms of anti-inflammatory and regenerative effects of lasers on the human tissues; prostatectomy laser in day surgery; advantages and limits of endoluminal laser surgery of varicose veins ; laser coupled with radio frequency scalpel for skin lesion treatment. Laser treatment of progenitor cells.

2005: Cesarean incision with laser. Photodyalisis laser for chronic degenerative conditions. Followup of laser therapy for diabetes. Laser therapy of traumatic spinal cord injuries. Action mechanism of laser beam on nervous tissue.

2006: Photopletismography multi laser in vascular diseases. News substances for PDT of lung cancer. Ant inflammatory and regenerative mechanisms of laser treatment of experimental myocardial infarct. News on Laser therapy in sport traumatology. Radio protective effects of non surgical laser.

2007: Laser in stem cells therapy: preclinical phase. Laser therapy for traumatic and degenerative spinal cord injuries with live patients presentation. Follow-up of laser therapy in diabetes type 1 e 2. Laser therapy for female infertility. Laser vascular and aesthetic surgery. State-of-the art on laser dentistry and PDD/PDT.

2008: Laser in brain traumatic injuries; Laser therapy for male infertility. Laser and energetic medicine; laser and nervous progenitor cells.

2009: Guidelines for the use of non surgical lasers. Laser therapy for infertility. Laser Diagnosis. Laser and stem cells.



NETWORKS GENERATED BY LASER FLORENCE CONFERENCES

2010: Follow up of positive results on central nervous system traumatic injuries. Laser therapy for peripheral nerve reconstruction. Laser therapy for prevent central nervous system post-traumatic damages. Laser diagnosis of early cancer of lung, uterus, breast, urinary bladder, prosthate. Laser and photodynamic therapy of prosthate cancer and lung cancer. Laser therapy of the menopause. Light for improving the follow-up of laser therapy of diabetes. Laser and stem cells for treatment of myocardial lesions.

2011: mechanisms of laser effects in quantum medicine; new procedures of percutaneous laser disc decompression of inter-vertebral disks. antimicrobial photodynamic therapy in chronic osteomyelitis. Multispectral visualization of glial brain tumors containing ppix in diffuse and laser-induced fluorescent light. Follow-up of laser treatment of spinal cord traumatic injuries.

2012: new treatment of non ablative laser for hypertrophic scars and keloids; new 2013: newplatenteriment of non ablative laser for hypertrophic scars and keloids; new any platenteriment of non ablative laser for hypertrophic scars and keloids; new disease plative laser the application of neural progenitor cell, laser biomodulation of normal and neoplastic cells; sEMG-biofeedback for the evaluation of laser therapy on traumatic central nervous system injuries; updata on laser and physical therapy applied to traumatic central nervous system injuries; laser for tennis player shoulder; multidiodes laser for dentistry application.

NETWORKS GENERATED BY LASER FLORENCE CONFERENCES

2015: Diamond laser in medicine and surgery; laser therapy in sexually transmitted diseases, respectively in the associated sexual dysfunctions; breast cancer detection based on serum sample surface enhanced Raman spectroscopy; $\frac{f_{EP}}{f_{EP}}$ novel family of osmium complex photosensitizers for multi-wavelength pdt; laser therapy multiwavelength coupled with new physical therapy in the treatment of central nervous system injuries; effect of laser light on tumor growth and invasion; new trends in veterinary medicine

2017: Laser Applications in Medicine: An Evolution; Laser Therapy: Equivalence Between Biophotonic Field And Thin Energy in The Coherence's Reactivation of Life Energy; Photobiological Dosimetry of Tissue Exposure; Dynamic Changes in Gamma-Irradiated Mice Treated With Laser; Fundamental Applications of Er, Cr:Ysgg Laser In Combination With Diode 980nm Wavelength; Laser And Bioscaffolds In Oromaxillofacial Surgery; A Sutureless Conductive Patch For Enhancing The Cardiac Electric Signal ; Innovative Combination Technique For Lower Face And Neck Contouring And Rejuvenation; Photobiomodulaton of Autoimmune Skin Diseases in Small Animals; The Microvascular Response To Photobiomodulation With Non-Coherent Light Sources In Healthy Subjects: The Role Of Wavelenght, Gender And Age

2019: mechanism of action of the light in human life and in the human body ; new applications of Laser in Dentistry ; new applications in vitiligo and different pigmented lesions; complications of the use of lasers in dermatology and their treatment ; Transmyocardial revascularization, laser ENT and Broncology ; laser PBM of childhood asthma, rhinitis, hair loss, onychomycosis, acne vulgaris, erectile disfunction, sport performance, neurological diseases; laser Fluorescence for early cancer diagnosis: laser therapy in pain management ; laser photobiomodulation in the treatment of X-ray radiation; laser in traumatic spinal cord injuries

LASER FLORENCE ABSTRACTS

Published on





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Laser Florence 2001 A Window on the Laser Medicine World

Alfons G. Hofstetter Mihail-Lucian Pascu Wilhelm R. A. Waidelio Editors

7-11 November 20 Florence, Italy

Organized by WLMS—The International Academy for Laser Medicine and Surge LM—Institute for Laser Medicine of Florence Ittily! Laser Florence Proceedings - ISSN

1999/2004 – SPIE Publisher, Bellingham, USA 2005/2006 – LIMS, Springer London Publisher, UK 2007 – Librux Publisher, Prague, Czech Republic 2008/2011 – American Institute of Physics, NY, USA 2012- Medimond Publisher, Bologna, Italy 2013 -2015 SPIE Publisher, Bellingham, USA 2017-2019 – Filodritto Publisher, Bologna, Italy

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ADVANCES IN LASEROLOGY -Selected papers of LASER FLORENCE 2011

A Window on the Laser Medicine World

Firenze, Italy 4 – 5 November 201





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Title: LIGHT AS A REPLACEMENT FOR MITOGENIC FACTORS ON PROGENITOR CELLS

Inventors: Tara B. Romanczyk and Juanita J. Anders (USU), Ilko K. Ilev, and Ronald W. Waynant (FDA), and Leonardo Longo (Institute of Laser Medicine, University of Siena, Siena, Italy) Provisional Patent Application: No. 60/666,582 filed on 03/31/2005; Patent Cooperation Treaty Patent Application No. PCT/US2006/011573 filed on 03/30/2006; United States Patent Application No. 11/909,145 filed on 09/19/2007; Japanese Patent Application No. 2008-504334 filed on 09/29/2007; Canadian Patent Application No. 2,603,443 filed on 10/01/2007; European Patent Application No. 06740014.3 filed on 10/17/2007; Australian Patent Application No. 2006230329 filed on 10/30/2007; European Divisional Patent Application No. 12159277.8 filed on 03/13/2012; and Japanese Divisional Patent Application No. 2013-96959 filed on 05/02/2013.

Anders, J.J., H. Moges, X. Wu, I. Ilev, R. Waynant, and L. Longo (2010) The Combination of Light and Stem Cell Therapies: A Novel Approach in Regenerative Medicine. American Institute of Physics Proceedings, 1 226: 3-10. Laser Florence 2009, Editor L. Longo, AIP Conference Proceedings, Melville, NY



Laser PBM influence

proliferation, maturation, migration and activity

of stem cells

Copyright 2003 by J. Anders , L. Longo, R. Waynant, T. Romanczyk – USHUS Bethesda, FDA, USA ;

* ILM Firenze, Italy



Actual Proposal of investigation Using Laser PBM

- Hymmuno-modulation of laser beam intra-venous and for external irradiation
- Effects of intra- and extra- venous laser irradiation on Hemato-chemical parameters
- Hypoglicemic effects of laser on diabetes type 1 2
- Effects of laser on spinal cord and brain injuries
- Lasers effects on Human Energy Field



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LED for hypoglicaemic effect (*patented*)



Handbook of Low-Level Laser Therapy

1

edited by

Michael R. Hamblin Marcelo Victor Pires de Sousa Tanupriya Agrawal

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Brain Traumatic Injuries EEG control

Patient 48 y.o., suffering of traumatic cranial Haemorragia occurred 20 years before Laser Therapy (80 sessions)

APRIL 2007 – LEFT TEMPORO-PARIETAL AND DIFFUSE SUFFERENCE WITHOUT CHANGE UNDER STIMULATION

MAY 2008 – LEFT FOCAL TEMPORO-PARIETAL SUFFERENCE WITH ANSWER UNDER STIMULATION



Longo L. Non Surgical Laser and Light in the treatment of chronic diseases, Laser Physics Letters, 7, No 11, 2010, 771-786, Wiley Publisher

CONGENITAL FACIAL PARALYSIS





Before NSLT

AFTER 40 SESSIONS

100

CONGENITAL FACIAL PARALYSIS





Before NSLT

AFTER 40 SESSIONS

NSLT antinflammatory anti-oedema

E. Mester, 1968; V. Chekurov, 1975 ; M. Trelles, 1979; K. Atsumi, 1979; P. Lievens, 1981;H. Popp. 1983; M. Dyson, 1983; L. Longo, 1984; R. Lubart, 1985; A. Pinheiro, 1985; G.D. Barter, 1986; J. Anders, 1993.

- Diode laser 808 nm Eufoton
- Spot-size 5 cm

NSLT regenerative

R. Fork, 1971; S. Rochkind, 1981; Y. Asagai, 1991; J. Anders, 1993; R. Lubart, 1997

- Diode laser 808 nm Eufoton
- Spot-size 5 cm
- Fluence 4 J/ cm²
- Energy density J 240
- PW 10 Hz
- Target Trigger points of the nerves, coherence domains



Before NSLT

AFTER 60 SESSIONS

10

CONGENITAL FACIAL PARALYSIS Fluence 12 J/ cm² Energy density 720 J PW 1000 Hz

- Target Lesion
 - 1-4 sessions for day
 - Cycle of 4 15 sessions

TRANSLATION OF RESEARCH

FROM THE LABORATORY BENCH TO THE BED SIDE





9 Weeks Post Light Treated

Pre-Surgery 9 Weeks Post Control



PATIENTS TREATED SINCE 2004 / 2018 305 in total

76 Patients stopped the treatment, only 9 without results

10 Patients had post-trauma Brain Injuries- BI

219 had post-trauma Spinal Cord Injuries- SCI

www.longolaser.it

longo.leonardo@gmail.com

EFFECTS OF LASER PBM

Neuro-regenerative & Neuro-protective

INCREASING

- Massive axonal sprouting
- Survival times
- Synthesis of various molecules such as Growth-Associated-Protein-43 (GAP-43), Calcitonin Gene-Related Peptide (CGRP), and TGF beta1
- Proliferation of rat Schwann cells
- Macrophages and fibroblasts

DECREASING

- Nitric oxide (NO) activity (a neurotoxic agent) therefore reducing cell death of axotomized neurons
- Chromatolysis and motorneurons atrophy of Wallerian degeneration

Light enhance recovery of neurons from injury by altering mitochondrial oxidative metabolism

L. Longo – Laser Manual of Medical Technology, OEO Publisher, Firenze, 2015

SCI D11 - L1 level done in September 2005

June 2006 Start laser treatment January 2007 After 52 sessions





EVALUATION OF THE RESULTS UNTIL TODAY on 305 CNSI patients

returned minimum to 2 dermatome levels below the lesion

SENSATION

- UNVOLUNTARY MOTOR
- VOLUNTARY MOTOR
- ANAL SPHINCTER
- URETRAL SPHINCTER
- SEXUAL ACTIVITY
- ABILITY TO STAND
- ABILITY TO WALK (ASIA C D)
- A.I.S. & other classifications
- NMR. CT

EEG

- SSEP, SMEP, sEMG , HHD
 - progressive IMPROVEMENT
- improvement in muscle tone, posture, MIN 1 ° / Cycle variable, strictly connected to degree of fitness improvement 90% to normal function, a. 120 irradiations NO for men, normalization in women, a. 120 irradiations quite normal in 99 % of patients, a. 100 irradiations 171 p, after an average of 100 irradiations 45 p, after an average of 120 irradiations minimal improvement by 1 degree/6 months inflammation diseappear, Medulla lesion reduced after 60 irradiation a. improvement of MIN 2 muscles each two cycles

Year 2013 - Lesion T10-11 ASIA A, patient 35 y.o., without right arm, with Baclofen permanent pump

PUMP REMOVED AFTER 76 IRRADIATIONS

ASSISTED WALK AFTER 88 SESSIONS



Photobiomodulation in the Brain

Low-Level Laser (Light) Therapy in Neurology and Neuroscience



Edited by Michael R. Hamblin and Ying-Ying Huang



Chapter 41

Laser treatment of central nervous system injuries: an update and prospects

L. Longo

Institute for Laser Medicine, International Academy for Laser Medicine and Surgery, Florence, Italy

41.1 Introduction

Laser treatments of the central and peripheral nervous systems date from the late 1966s. One of the earliest articles by Fork (1971) in *Science* on argon laser treatment of nerves, came shortly after Mester et al. (1968) published their work on tissue stimulation with ruby and other wavelength lasers.

Then, Walker (1983) treated amputation neuromas of the lower limbs with ruby laser, and over the years, many other authors have dealt with the topic. There are many cited references in the *Proceedings of the International Congress of Laser Medicine* which is held in Florence and is now in its 30th edition. The *Proceedings of Laser Florence* 1999, 2000, 2001, 2002, 2003, and 2004, were published by SPIE (Longo et al., 1999); *Laser Florence* 2008, 2009, 2010, 2011, and 2012 by the American Institute of Physics (Longo, 2008–2012); *Laser Florence* 2013 and 2015 by Medimond, Bologna (Longo, 2012-2013-2015); and *Laser Florence* 2017, once again by SPIE (Longo, 2017).

There are many other collections of bibliographies on the subject (Rochkind, 2008, 2009a,b; Longo, 2010; Hamblin et al., 2017), as well as approximately 100 other articles concerning laser treatment of the central nervous system (CNS) in international journals. My first book (Longo, 1986), and especially my latest *Laser Manual of Medical Technology*, describe laser's mechanisms of action in the diagnosis, treatment and surgery of all human tissues (Longo, 2015) (Fig. 41.1)

We began using this type of treatment at the end of 2003, selecting our patients on the basis of the inclusion/exclusion criteria listed in Table 41.1 (Longo, 2010). In the beginning the only patients who came to us had spinal cord damage with complete lesions, ranging from 6 months to many years, with complete lack of motor and sensory function classified AIS A, without any hope for improvement, and they brought medical reports written by eminent physicians who recommended against any type of treatment because they considered it useless.

However, things turned out differently, and we also began treating patients with incomplete spinal cord lesions, classified as AIS B, that is those who still had some sensation below the level of the lesion.

In all of our patients we gradually try to eliminate all their pharmacological medications on the basis of the results obtained—or which can be obtained—with laser treatment and associated physiotherapy. The patients always continued with personalized program of physiotherapy which is not the conservative type that is generally prescribed by the protocols of spinal units and centers of rehabilitation.

As to the exclusions, we do not even start treating patients who had undergone inadvisable surgeries such as muscle transposition, or had ruptured and/or strained tendons since these lesions cannot be remedied with regenerative laser treatment.

If there is no measurable and objective improvement after the first cycle of laser treatment we immediately interrupt the treatment. We also interrupt the treatment if the patient uses drugs, especially cocaine or excessive amounts of cannabis. We also stop treatment if the patient continues using nonprescribed drugs or if he or she does not comply with the recommended treatment intervals, or stops physiotherapy, or does not follow the prescribed program.

Photohiomodulation in the Brain. DOI: https://doi.org/10.1016/8978-0-12-815305-5.00041-5 © 2019 Elsevier Inc. All rights reserved.



LASER TREATMENT OF THE INDURATIO PENIS PLASTICA (IPP) AND DUPUYTREN'S SYNDROME

L. Longo, MD, *D. Longo, PT, G. Cherubini, PT, V. Mange', PT, O. Sheykh, MD

Institute Laser Medicine of Florence – ITALY *University of Florence, Italy









POST-SURGERY SCARS performed on 31 January 2012 with laser "non ablative" (?) 1450 nm in association with re-cell graft (?) for the treatment of acnis hypotrophic scars - Pre Test May 24, 2012



June 8th, 2012 – Start Therapy With PBM (IPL 590-1200 Nm + Laser 810, 1064 Nm)









September 29, 2014 - After 20 sessions



Woman 23 y.o., 16 March 2016





Before



1 month after 1st session





After two session

After three sessions

TODAY



Isaac Kaplan - First Plastic Surgeon which used Laser - 1964



Some Laser Florence Columns



Laser Florence USA Group



RUSSIAN GROUP IN LASER FLORENCE 2019



Japan and UK group J. Asagai, G.D. Baxter, T. Ohshiro, M. Dyson



India and Japan B.K. Rau and T. Ohshiro



Lithuanian Family A. Vaitkuviene & J. Vaitkus



Czech Rep. – Navratil's Family







17^m ISLSM CONGRESS

22^{ad} IALMS CONGRESS

LASER FLORENCE 2007 ... the Laser Medicine World

Firenze, November 8th - 10th, 2007

INFORMATION www.laserflorence.org info@laserflorence.org Fax +39.055.39069632









Laser Florence Awards







UNINOVE GROUP IN LASER FLORENCE 2019





3rd International Meeting & Hand-on Courses 15th International Congress Laser Medicine ICLM 2000

LASER FLORENCE 2000

A WINDOW ON LASER MEDICINE WORLD

President L. LONGO, MD

Program Chairperson K. Khatri , MD M. POSTIGLIONE, MD

FLORENCE, OCTOBER 18TH - 22TH, 2000

VILLA VIVIANI CONVENTION CENTER

MEETING TOPICS

- BASIC RESEARCH ~
- RESEARCH AND APPLICATIONS
- GENERAL SURGERY & ENDOSCOPY
- DENTISTRY
- ENT ٠
- PLASTIC SURGERY
- BIOMODULATION
- COSMETIC SURGERY
- DERMATOLOGY
- PHLEBOLOGY
- HAIR REMOVAL
- UROLOGY
- GYNECOLO GY
- NEUROSURGERY
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- MISCELLANEA

I.L.M. Phone / FAX #390552260619 Borgo Pinti, 57-50121 Firenze



Congress Chairmen A. HOFSTETTER, MD

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17th INTERNATIONAL CONGRESS LASER MEDICINE 5th INTERNATIONAL TRADE FAIR ON LASER TECHNOLOGY

LASER FLORENCE 2002

A WINDOW ON THE LASER MEDICINE WORLD



FLORENCE, October 28th – 31st, 2002 Villa Viviani – Viale D'Annunzio, 230

MEDICINE AND SURGERY, BIOLOGY, VETERINARY, PHYSICS, ENGINEERING



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		FAX	#39 0552260619	
info@lase	rflorence.	org	http://www.	laserflorence.org



I.A.L.M.S. - INTERNATIONAL ACADEMY LASER MEDICINE AND SURGERY

23th International Congress Laser Medicine with Pre-Conference Courses

...a Gallery through the Caser Medicine World Researchers, Physicians, Surgeons, Biologists, Physics, Engine FLORENCE, November 6th - 7th, 2009

Tlorence 200

Program Chairperson

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PHONE <mark>+</mark> 39 0552342330 FAX +39 055390<mark>6963</mark>2 INTERNATIONAL ACADEMY LASER MEDICINE & SURGERY 24th International Laser Medicine Congress and Courses

... the 50th Birthday of Laser Medicine World

NON SHOT TONS

First Laser, T. Maiman, May 16th, 1960

Florence, November 5th- 6th Villa Viviani



Organizing Secretary: IALMS - Borgo Pinti 57 - 50121 - Firenze Fax #39 05539069632 www.laserflorence.org ialms@laserflorence.org

29th International Medical Congress



INTERNATIONAL ACADEMY LASER MEDICINE & SURGERY 25th International Laser Medicine Congress For Researchers, Physicians, Surgeons, Biologists, Physical Therapists, Engineers, Physics

Laser Florence

Florence, 4th - 5th November 2011

Organizing Secretary: IALMS - Borgo Pinti 57 - 50121 - Firenze Fax #39 05539069632 www.laserflorence.org - ialms@laseflorence.org



Firenze, 9th - 10th November St. Apollonia, via San Gallo 25/A



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Info.laserflorence@gmail.com





NTERNATIONAL FAR OF LIGHT

CONCLUSION

- Network
- Expand your knowledge base
- Share your expertise
- Establish collaborations
- Enjoy magnificant Florence
- Make friendships that will last a lifetime







LASER FLORENCE 2019

A Rainbow on the Laser Medicine World Via San Gallo 25 © + 39055.2342330 info@laserflorence.eu www.laserflorence.eu

NOVEMBER

Auditorium St. Apollonia

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.....but knowledge must support that ! L. Longo

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