

**CURRICULUM VITAE
EUROPEAN FORMAT**



PERSONAL INFORMATION

Name

Address
Telephone number
Fax
E-mail
Nationality
Birth date and place

**Mario
Marazzi**
Cavaliere al Merito della Repubblica Italiana (27 December 2008)
Via Roma 43, 26016 Spino d'Adda (CR)
0039 0373 966412

gsm.marazzi@tin.it
ITALIAN
1st February 1951, Lodi (LO), Italy

PROFESSIONAL EXPERIENCE

• Year (from-to)
• Employer's name and address

• Type of Employer's Company
• Job Description

• Main activities and responsibilities

• Year (from-to)

1991-up to now
Azienda Ospedaliera Niguarda Ca' Granda Milano
20162 MILAN, P.zza Ospedale Maggiore 3
02-64444681
Public Hospital
Tissue Therapy Centre (Struttura semplice di Terapia Tissutale) Chief

**Regional Reference Centre for Human Epidermis in vitro culture and
Bank for Tissue Cryopreservation.**

Hard Wounds Outpatient Clinic Director from 1993 to 2007

Advanced Tissue Therapies Outpatient from 2007- up to now

Management responsibilities

PROFESSIONAL EXPERIENCE:

- **1982 to 1990** volunteer and fellowship at III Clinical Surgery and Centre for wound healing E.Trabucchi (headed by Prof. Walter Montorsi) at "Università degli Studi", Milan
- **1987 to 1992** Occupational Health Manager for large retailers companies.
- **1991 up to now** working at Niguarda Hospital as Director Manager of the Regional Reference Centre for Human Epidermis in vitro culture and Bank for Tissue Cryopreservation.

- **31/10/1989 to 15/01/1991** Volunteer Physician at Plastic Surgery and Burn Centre helping with the creation of the Tissue Bank and the Laboratory for keratinocytes culture.
- From **2001** is the Director of the Tissue Therapy Centre
- **Professor of Plastic and Reconstructive Surgery at “Università Politecnica delle Marche” (Ancona, Italy)**
- **Professor of Plastic and Reconstructive Surgery at “Università degli Studi, Milan**

EDUCATION AND TRAINING

- Years
- Nome e tipo di istituto di istruzione o formazione

1987 Degree in Medicine and Surgery

1987 Qualification to the physician and surgeon activity (Board Exam)

1992 Majori in Surgery of digestive system and digestive endoscopy surgery.

2004 Tissue Banks inspector course for the National Transplantation Centre (Centro Nazionale Trapianti)

2008 Training Course for Tissue Banks inspectors for the National Transplantation Centre (Centro Nazionale Trapianti)

2008 Public merit from the Council in Spino d'Adda (Cremona) for “effort, research and innovation in Scientific field, which allowed application of new Technologies in patients' care”

2008 Appointment with Ministerial Decree as **Qualified Person** with managerial competence according to art. 52 of Legislative Decree 24th April 2006, n° 219, of Leg. D. n° 165/2001 and 145/2002. Note AIFA /UAO/120355/P/I.s.f.c. of 21st November 2008.

2009 Appointment as **Qualified Person** of Regional Reference Centre for Human Epidermis in vitro culture and Bank for Tissue Cryopreservation, Deliberation of the General Director N. 30, 15th January 2009 Atti 924/08 all. 80, Azienda Ospedaliera, Ospedale Niguarda Cà Granda, Milan.

PERSONAL COMPETENCES AND ABILITIES

ACTIVITIES AT TISSUE THERAPY CENTRE:

As the Director of the Tissue Therapy Unit and of the Regional Reference Centre for Human Epidermis in vitro culture and Bank for Tissue Cryopreservation, he manages the laboratory for the culture of keratinocytes sheets, artificial derma, chondrocytes and fibroblasts suspensions including the laboratory staff and he coordinates the team of physicians responsible for the organs collection from donors.

He also supervises the writing of the Centre's internal procedures and the initial training of each staff member.

He carries out his activity as a physician at the Advanced Tissue Therapies Unit and all the units which ask for examinations or advices inside the hospital

Stable Cooperation with many different units within the same hospital to promote an interdisciplinary approach:

Within the Niguarda hospital, he usually cooperates with the following Units or Departments:

the Burn Unit, for the treatment of burnt patients with skin substitutes like the following: keratinocytes sheets (autologous/allogous), artificial derma, and multiorgan donor's skin

The Spinal Unit (S.C. di Unità Spinale Unipolare) for the treatment of decubitus skin injuries for quadriplegic and paraplegic patients.

the Spina Bifida Unit (Centro Spina Bifida) for the treatment of young patients with skin injuries

the Orthopedics Unit and Trauma Centre (S.C. di Ortopedia e Traumatologia) for eligibility screenings in patients suitable for cartilage transplantation

All the departments of Niguarda Ca' Granda Hospital for the examination of difficult skin injuries

The Neonatology and Intensive Care Unit for the evaluation and care of hospitalized newborn babies

the Permanent Commission for the prevention of pressure skin injuries at Niguarda Ca' Granda Hospital.

the Nursing Service for tutoring activity in training class for prevention of pressure skin injuries.

the Pathological Anatomy Unit for morphology quality control (histology, immunohistology and electronic microscopy) in both routine control activity and researches on cells-biomaterials interaction in scaffolds used as cells carrier.

the Microbiology Laboratory for the optimization of the methods sampling and processing cells and tissues to be transplanted, and to improve sterility

controls (in particular multiorgan donor's skin) and safety efficacy of cells and tissues transplantation.

The positive collaboration with the Orthopedics and Trauma Unit allowed Niguarda hospital to be totally self-sufficient in the transplantation of in vitro expanded autologous chondrocytes to cure articular injuries. From this experience This working group wrote an essay with on the treatment of cartilage knee's injuries with autologous in vitro cultured chondrocytes ("Indicazioni al trattamento delle lesioni cartilaginee del ginocchio con innesti di condrociti autologhi coltivati in vitro").

Engineered skin is also used to cure "difficult injuries" caused by several diseases, such as diabetes, vascular insufficiency/failures, decubitus.

Science and technologies work together to help medicine to improve the quality of life in these patients. For example, in the Spinal Unit young tetraplegic and paraplegic patients often need tissue engineering products to heal from severe skin injuries caused by the prolonged staying in the same position on wheels chairs or in bed.

Specific experience and professional activities:

From 1982 to 1991 he actively collaborated with the Wound Healing Research Centre (directed by Prof. Emilio Trabucchi) of University of Milan for researching on wound healing. The studies focused on cultured cells morphology, the use of hyaluronic acid in tissue repair process and the relations between mastocytes and granulation tissue, mastocytes and fibroblasts.

Tutor and professor at the first Plastic Surgery Specialization School (Director Prof. Luigi Donati) of University of Milan during the following academic years: 91/92, 92/93, 93/94, 94/95, 95/96, 96/97, 97/98, 98/99.

He collaborated with Biomaterials Research Centre and Tissue Engineering in Plastic Surgery at University of Milan, Milan (Director Prof. Luigi Donati).

Tutor at Università Cattolica del Sacro Cuore in Piacenza regarding Legal-Medical aspects of Human Biologic Materials derived from Tissue Engineering.

From 1998 he has been teaching professor at International School for Tissue Repairing promoted by the Department of Sperimental Pathology, Medical Biotechnologies and Epidemiology at University of Pisa.

From 1999 to 2004 he was professor of Wound Care Course at "Università degli Studi of Milano Bicocca", Milan.

From 2004 teacher of Wound Care Training Course at University and Health

Local Unit in Modena.

Member of the Committee working on the “Guidelines on safety and quality control of trials in cellular therapy and use of Tissue Engineering products”, organized by the Italian Government, (Presidenza del Consiglio dei Ministri, Dipartimento per il Coordinamento Nazionale delle Politiche Comunitarie, Comitato Nazionale per la Biosicurezza e le Biotecnologie).

Member of the Committee working on the “guidelines to define the use of multiorgan donor’s skin and Tissue Engineering products” organized by Regione Lombardia according to Decree n. 4691, March 2002

Member of the Regional Committee with consulting and auditing functions about Organ Collection and Transplantation Activities (created by Regione Lombardia with Decree n. 15317, October 2005

Scientific Director of the Regional Committee created for the definition of the guidelines in surgery treatment of chronic skin injuries (Regione Lombardia con Decreto 8844 del 30/05/2003 della Direzione Generale Sanità N. 1367, “Istituzione di un gruppo di lavoro per la definizione delle linee guida per il trattamento medico-chirurgico delle lesioni cutanee croniche nell’ambito del Progetto Regionale Vulnologico; nonché criteri per la corretta codifica, erogazione e remunerazione delle stesse”).

Member of the Regional Committee for consulting and verification functions for transplantation activities (DRG 8 Febbraio 2002 N. 7987. Regione Lombardia with Decreto 11760 del 22/10/2008 of Direzione Generale Sanità N. 1009) object “Constitution of a working group for criteria definition for authorization of tissue preservation and implantation”.

Member of the committee working on the definition of guidelines for Skin Banks in Italy (National Transplantation Centre).

Inspector for the National Transplantation Centre for verifications at Tissue Banks in Italy.

Supervisor Professor for 6 Master Degree Thesis at Medicine School of University of Milan, 2 in Mechanical Engineering and Bioengineering at Politecnico di Milano, 2 in Biotechnology at Università degli Studi di Milano-Bicocca, 1 in Pharmacy at Università degli Studi di Pavia, 1 in Medical and Pharmaceutical Biotechnologies at Università degli Studi di Pavia, 1 in Biology applied to Biomedical Research at Università degli Studi di Milano,

Tutor at Politecnico di Milano for students in Bioengineering .

Tutor at Università degli Studi of Milano-Bicocca for students in Biotechnologies

Member of Director Board of AIUC (Associazione Italiana Ulcere Cutanee).

Collaboration with the editorial board of the International Wound Journal .

Collaboration with the editorial board of medical journal Acta Vulnologica,

Minerva Medica.

Member of the Scientific Board of Neurothorax .

210 national and international papers as first author and co-author.

174 participations in National and International meetings.

232 Congresses, seminars and courses attended.

Research with National and International Institutions:

He collaborated with Prof. Giuseppe Remuzzi and Prof. Andrea Remuzzi of Istituto Mario Negri di Bergamo on Isolation and Transplantation of pancreatic islets from multiorgan donor to Diabetic patients.

He collaborated with Biological Structures Mechanics Laboratory (Director Prof. Riccardo Pietrabissa) of Politecnico di Milano on the creation of new materials and technologies for skin and cartilage reconstruction using bioreactors.

He collaborated on several projects for the CNR (National Research Centre) regarding Biomaterials and Tissue Repair.

He collaborated with Prof. J. Burke from Boston, on tissue engineering at Harvard University, USA

He attended the cellular culture laboratory, directed by Prof. L. Andreassi, of University of Siena, and Biology Department, directed by Prof. M. Malcovati, of University of Milan, for learning of tissue's cells production techniques and tissue's banks management (from 2/03/1990 to 5/04/1990, from 30/07/1990 to 3/08/1990, from 16/09/1992 to 19/09/1992, 1-2/03/1993).

From 1996 to 1998 he participated in the first research project "Artificial Replacements, Artificial Organs and Organs' Transplantation" at Istituto Superiore di Sanità.

He collaborates on pancreatic islets isolation and transplantation with Prof. Camillo Ricordi (Scientific Director and Chief Academic Officer, Diabetes Research Institute, Division of cellular Transplantation, Department Of Surgery, Miller School of Medicine, University of Miami, U.S.A.).

He collaborated with Prof. Vincent Falanga (Department of Dermatology and Skin Surgery of Boston University School of Medicine, U.S.A.), on tissue repairing and Wound Bed Preparation.

He also worked on many other research projects: studies on oesophagus pathology for evaluation of injuries caused by reflusso duodeno gastro esofageo; Physiopathology of Vein Trombosis and the protective effect of Heparin on the Endothelium; O₂ Free Radicals detrimental action on gastric mucous and on skin tissue repairing processes; Cytoprotection of Prostaglandin duodenal mucous.

He collaborated on studies of early differential diagnosis of Inflammatory Diseases and he worked on post-surgery complications of Retto-Colite Ulcerosa.

Member of "Working Group on Autologous Chondrocytes Transplantation" ("Treatment of knee's cartilage injuries with implants of in vitro cultured autologous chondrocytes") Regione Lombardia.

Member of the Working Group of NITp (North Italian Transplant) Skin Banks.

Member of the Working Group of Tissue Engineering of CNT (Centro Nazionale Trapianti).

Prof. Mario Marazzi
Chief of S.S. Terapia Tissutale
Centro di Riferimento Regionale per la coltura di epidermide umana in vitro e banca per la crioconservazione dei tessuti
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OTHERS

- Reading
- Writing
- Speaking

ENGLISH

Good

Good

Good

TECHNICAL AND INFORMATICS
COMPETENCES

MICROSOFT WORD, EXCEL, OUTLOOK, OUTLOOK EXPRESS

OTHER INFORMATION

Place, Date

Milan, February, 22th, 2010

SIGNATURE _____ Mario Marazzi _____

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