

Curriculum vitae PD Dr. med. Paolo Erba

Particulars

Address: Via Vincenzo Vela 11, 6600 Locarno, Switzerland
Telephone: 0041/91.224.55.22
E-mail: info@dottorerba.ch
Birthplace: Locarno, Switzerland
Nationality: Swiss

Interests

1995 Swiss Champion Paired Figureskating
1998 Selection Swiss Military Pilots
Hobbies: Beekeeper, Sailing, Biking, Alpinism

Languages

Italian Mother language
German, English, French Fluently spoken and written
Spanish Average

Education

1984-1997 Primary and Secondary School, Locarno, Switzerland
1995-1996 Exchange Program Hastings, Iowa, USA
June 1996 Graduation High School, Hastings, Iowa, U.S.A.
June 1997 Graduation Secondary School, Locarno, Switzerland

1997-1999 University of Bern, Switzerland, Medical School (1st - 2nd)
August 1999 Graduation 1st Part Medical School University of Bern, Switzerland
1999-2003 University of Basel, Switzerland, Medical School (3rd - 6th)
November 2003 Graduation 2nd Part Medical School University of Basel, Switzerland

2003-2004 Graduate student (MD Thesis), University of Zürich, Medical School
September 2004 Thesis Medical School University of Zürich, Switzerland
Acute mountain sickness is related to nocturnal hypoxemia but not to hypoventilation
P.Erba et al., European Respiratory Journal, 24:1-6, 2004

November 2004 Swiss Basic Surgery Examination, Bern, Switzerland

Sep/Nov 2008 EBOPRAS Examination, Brussels / Zagreb
November 2008 European Board Certification Plastic, Reconstructive and Aesthetic Surgery (EBOPRAS)
July 2010 Swiss Board Certification Plastic, Reconstructive and Aesthetic Surgery (FMH)

April 2011 Privat Dozent (= Assistant Professor) University of Lausanne, Switzerland

November 2016 Swiss Board Examination Otolaryngology

Clinical and Research Employments

January 2004 – March 2004	Research Fellow Plastic, Reconstructive and Aesthetic Surgery University Hospital Basel, Switzerland Prof. G. Pierer <i>Research area: Surgical Basic Skills Multimedia Project</i>
April 2004 – March 2006	Resident General Surgery Regional Hospital Locarno, Switzerland Dr. med. P. Biegger
April 2006 – March 2008	Resident Plastic, Reconstructive and Aesthetic Surgery University Hospital Basel, Switzerland Prof. G. Pierer
April 2008 – September 2008	Post-Doctoral Research Fellow Tissue Injury & Repair Research University of Manchester, England Prof. G. Terenghi, Prof. D.A. McGrouther <i>Research area: Adipose Tissue Derived Stem Cells and Peripheral Nerve Regeneration</i>
July 2008 – September 2008	Resident Anesthesiology Ospedale Regionale di Lugano Dr. Sergio Castellanelli
October 2008 – September 2009	Post-Doctoral Research Fellow Tissue Engineering and Wound Healing Laboratory Harvard Medical School Boston, Massachusetts, U.S.A. Prof. D.P. Orgill, Prof. R.J. D'Amato, Prof. G.F. Murphy <i>Research area: Wound Healing, Angiogenesis</i>
October 2009 – June 2010 July 2010 – June 2014	Resident Consultant Plastic, Reconstructive, Aesthetic, Hand and Burns Surgery University Hospital Lausanne and Basel, Switzerland Prof. W. Raffoul, Prof. D. J. Schaefer
July 2014 – March 2015 April 2015 – December 2017	Resident Consultant (Stv. Oberarzt) Otolaryngology, Head and Neck Surgery University Hospital of Bern Prof. M.D. Caversaccio Hôpital Neuchatelois (May 2016-April 2017) Dr. Yves Jaquet

Academic Degrees

April 2011

Privat Dozent University of Lausanne

Visiting Experiences :

- Prof. Ronaldo Pontes and Dr. Gisela Pontes, Rio de Janeiro, Brasil, 2011

Focus area: Facial Rejuvenation

- Dr. Alain Fogli, Marseille, France, 2013

Focus area : Aesthetic Surgery

- Dr. Emmanuel Delay, Lyon, France, 2013

Focus Area : Breast reconstruction

- Dr. Bahman Guyuron, Cleveland, USA, 2014

Focus Area : Migrane Surgery and Rhinoplasty

- Dr. Fazil Apaydin, Izmir, Turkey, 2015
- Dr. Thomas Hundt, München, Germany, 2016
- Dr. Abel-Jan Tasman, St.Gallen, Switzerland, 2016

Focus Area : Rhinoplasty

Editorial Appointments

Editorial Advisory Board Journal of Plastic, Reconstructive and Aesthetic Surgery
(Best European Plastic Surgery Journal, IF 1.508)

Reviewer:

- | | | |
|---|----------|--|
| - Reviewer Annals of Surgery | IF 7.474 | Ranking Surgery 1/187 |
| - Reviewer Wound Repair and Regeneration | IF 3.443 | Ranking Surgery 14/166
Ranking Dermatology 9/48 |
| - Reviewer Stem Cell Research and Therapy | IF 3.65 | |
| - Reviewer Mediators of Inflammation | IF 3.88 | |
| - Reviewer Naturwissenschaften | IF 2.278 | |
| - Reviewer Journal of Reconstructive Microsurgery | IF 1.432 | Ranking Surgery 94 |

Preises

1) **Best 10 Multimedia projects, Medida Prix 2006, Rostock, Germany.**
Surgical Basic Skills Multimedia Project (2006) (Chirurgische Basiskompetenzen, Modul I, 2006)

2) **DAM Mikrosurgical Fellowship (German Speaking European Microsurgical Society) Zürich, Switzerland 2007.**

In vivo Differentiation of Adult Mesenchymal Stem Cells For Nerve Regeneration

3) **Best Oral Presentation “Research” Swiss Plastic Surgery Congress 2011, Horgen**
Erba P, Ackermann M, Wettstein R, Konerding M, Raffoul W. Lymphangiogenesis and hemangiogenesis in a mouse tail model. Swiss Congress Plastic, Reconstructive and Aesthetic Surgery Society, Horgen, 2011

Courses

- 2004 **AO-Course Principles of Operative Fracture Treatment**, Davos, Switzerland
- 2005 **Vascular International Course**, Pontresina, Switzerland
- 2006 **Microsurgery Course**, SGPRAC, University Hospital Basel, Switzerland
- 2006 **Burns Workshop**, SGPRAC, University Hospital Zürich, Switzerland
- 2007 **Reduction Mammoplasty Course**, SGPRAC, St.Gallen, Switzerland
- 2007 **Rhinoplasty Course**, Prof. W. Gubisch, Stuttgart, Germany
- 2007 **Mini ISAPS Course**, SGPRAC, Montreux, Switzerland
- 2007 **Evidence Based Medicine Course** European Union (EU-EBM), Basel, Switzerland
- 2008 **Management Course for MDs**, FMH / College M, Zürich/Bern, Switzerland
- 2008 **Animal Licence Course** (mice, rat, rabbit), Manchester University, England
- 2008 **Otoplasty Course**, Zürich, Switzerland
- 2008 **Didactic Course** (Modul II Sammelzertifikat), Universität Basel, Switzerland
- 2008 **EBOPRAS Course**, Zagreb, Croatia
- 2009 **Presentation Skills: Preparation and Delivery Course**, Harvard University
- 2009 **Communicating at Work Course**, Harvard University, Boston MA, USA
- 2009 **Project Management Course**, Harvard University, Boston MA, USA
- 2009 **Animal Licence Course (pig)**, Harvard University, Boston MA, USA
- 2009 **Difficult Conversations Course**, Harvard University, Boston MA, USA
- 2009 **Delegating and Giving Feedback Course**, Harvard University, Boston MA, USA
- 2009 **Course of Introductory Statistics for Medical Researchers**, Harvard University
- 2009 **Harvard Leadership Essentials Course**, Harvard University, Boston MA, USA
- 2009 **Power, Influence and Negotiation Course**, Harvard University, Boston MA, USA
- 2010 **GCP Kurs Modul 1**, Zürich, Switzerland
- 2010 **Swiss Animal Licence Course Modul 1**, Geneva, Switzerland
- 2010 **Ulnar Compression Syndrome**, Schulthess Klinik, Zürich, Switzerland
- 2011 **Dallas Cosmetic Surgery Symposium**, Dallas, USA
- 2011 **Dallas Rhynoplasty Symposium**, Dallas, USA
- 2011 1ere Journée du **Diplome Universitaire "Injectables"**, Paris, France
- 2011 **Anatomy Course for Hand Surgery**, Bern, Switzerland
- 2011 **From Fat Injection to Regenerative Medicine**, Marseille, France
- 2012 **Botox and Hyaluronic Acid Course**, Allergan, Lausanne, Switzerland
- 2012 **Mentor Advanced Course in Breast Reshaping**, Prof. del Yerro, Madrid, Spain
- 2013 **Workshop Measurement and Planning Breast Prosthesis**, Allergan, Lausanne
- 2013 **Cosmetic Genital Surgery – Live Surgery Course/Meeting**, Leipzig, Germany
- 2014 **Workshop Botox and Fillers**, Allergan, Lausanne
- 2014 **Ultrasound Head and Neck Course**, Fribourg/Luzern/Basel
- 2015 **Advanced Rhinoplasty Course**, Utrecht, Netherland
- 2017 **Nocturnal Respiratory Polygraphy Course**, Liestal

Publications

- 1) **Erba P**, Anastasi S, Senn O, Maggiorini M, Bloch KE. Acute mountain sickness is related to nocturnal hypoxemia but not to hypoventilation. *European Respiratory Journal*, 24:1-6, 2004
- 2) Kalbermatten DF, Rieger UM, Uike K, **Erba P**, Laifer G, Hintermann B, Pierer G. Infection with *Aeromonas hydrophila* after Use of Leeches (*Hirudo medicinalis*) in a Free Microvascular Osteo-(myo-)cutaneous Flap - Suggestions for Successful Management. *Handchir Mikrochir Plast Chir*, 39(2):108-11, 2007.
- 3) **Erba P**, Farhadi J, Wettstein R, Arnold A, Harr T, Pierer G. Morphoeic basal cell carcinoma of the face. *Scand J Plast Reconstr Surg Hand Surg*. 2007;41(4):184-8.
- 4) Kalbermatten DF, Wettstein R, **Erba P**, Schumacher R, Dagorov P, Pierer G. Laser scanner analysis in reconstruction of traumatic laceration of the facial nerve. *Laser Physics Letters* 2007; 4, No. 6
- 5) Kalbermatten DF, **Erba P**, Wettstein R, Pierer G, Hemiface Rhytidectomy. *Aesthetic Plast Surg*. 2008; 32(2):227-233
- 6) Kalbermatten DF, Wettstein R, **Erba P**, Von Känel O, Wiberg M, Pierer G, Haug M. Sensate lateral arm flap for defects of the lower leg. *Ann Plast Surg*. 2008 Jul;61(1):40-6.
- 7) Wettstein R, **Erba P**, Farhadi J, Kalbermatten DF, Arnold A, Haug M and Pierer G. Incomplete excision of basal cell carcinoma in the subunits of the nose. *Scand J Plast Reconstr Surg Hand Surg*. 2008;42(2):92-95.
- 8) **Erba P**, Wettstein R, Rieger UM, Haug M, Pierer G, Kalbermatten DF. A study of the effect of sartorius transposition on lymph flow after ilioinguinal node dissection. *Ann Plast Surg*. 2008 Sep;61(3):310-3.
- 9) **Erba P**, Wettstein R, Rieger U, Beltraminelli H, Pierer G, Kalbermatten DF. Reducing the learning curve for the treatment of the morphoeic basal cell carcinoma of the face. *Scand J Plast Reconstr Surg Hand Surg*. 2008;42(3):122-6.
- 10) Rieger UM, **Erba P**, Wettstein R, Schumacher R, Haug M, Pierer G, Kalbermatten DF. Does Abdominoplasty with Liposuction of the Love Handles Yield a Shorter Scar? An Analysis with Abdominal 3D Laser Scanning. *Ann Plast Surg*. 2008 Oct;61(4):359-363.
- 11) **Erba P**, Rieger UM, Pierer G, Kalbermatten DF. Vacuum Assisted Closure (VAC) for Venous Congestion of the Nipple Areola Complex. *J Plast Reconstr Aesthet Surg*. 2008 Jul;61(7):852-4.
- 12) Rieger UM, **Erba P**, Kalbermatten DF, Schaefer DJ, Pierer G, Haug M. An Individualized Approach to Abdominoplasty in the Presence of Bilateral Subcostal Scars after Open Gastric Bypass. *Obes Surg*. 2008 Jul;18(7):863-9.
- 13) Kalbermatten D, **Erba P**, Mahay D, Wiberg M, Pierer G, Terenghi G. Schwann Cell Strip for Peripheral Nerve Repair. *Journal of Hand Surgery (European Volume)* 2008 33E:5:587-594.
- 14) Schmid D, Di Summa P, Wettstein R, **Erba P**, Raffoul W, Kalbermatten D. Posterior Auricular Perichondrial Cutaneous Graft Combined with Cartilage Strip in Nostril Reconstruction. *Eplasty* 2008, Aug 20; 8:e42.
- 15) **Erba P**, Wettstein R, Tolnay M, Rieger U, Pierer G, Kalbermatten DF. Neurocutaneous Sural Flap in Paraplegic Patients. *J Plast Reconstr Aesthet Surg*. 2009 Aug;62(8):1094-8.
- 16) Rieger U, **Erba P**, Pierer G, Kalbermatten DF. Hidradenitis suppurativa of the groin treated by radical excision and defect closure by medial thigh lift: Aesthetic surgery meets reconstructive surgery. *J Plast Reconstr Aesthet Surg*. 2009 Oct;62(10):1355-60.
- 17) **Erba P**, Wettstein R, D'Arpa S, Kalbermatten D.F. Donor site morbidity of the posterior conchal region. *Dermatologic Surgery* 2009 Jun;35(6):960-4.
- 18) Kalbermatten D, Wettstein R, **Erba P**, Rieger U, Pierer G, Raffoul W. Body Taping for contour Surgery. *Aesthetic Plast Surg*. 2009 May;33(3):324-6.
- 19) **Erba P** (co-first author), Balcin H, Wettstein R, Pierer G, Kalbermatten DF. A comparative study of two surgical treatment strategies for painful neuroma. *J Bone Joint Surg Br*. 2009 Jun;91(6):803-8

- 20) **Erba P**, Terenghi G, Kingham PJ. Neural Differentiation and Therapeutic Potential of Adipose Tissue Derived Stem Cells. *Curr Stem Cell Res Ther*. 2010 Jun;5(2):153-60.
- 21) **Erba P**, Farhadi J, Schaefer DJ, Pierer G, Fat embolism syndrome following combined aesthetic surgery. *J Plast Surg Hand Surg*. 2011 Feb;45(1):51-3.
- 22) **Erba P**, Wettstein R, Schumacher R, Schwenger-Zimmerer K, Pierer G, Kalbermatten DF. Silicone moulding for pressure sore debridement. *J Plast Reconstr Aesthet Surg*. 2010 Mar;63(3):550-3.
- 23) **Erba P**, Di Summa PG, Wettstein R, Raffoul W, Kalbermatten DF. Fibrin Sealant for fasciocutaneous flaps. *J Reconstr Microsurg*. 2010 May;26(4):213-7.
- 24) **Erba P**, Ogawa R, Vyas R, Orgill DP. The Reconstructive Matrix – A New Paradigm in Reconstructive Plastic Surgery. *Plast Reconstr Surg*. 2010 Aug;126(2):492-8.
- 25) **Erba P**, Mantovani C, Kalbermatten DF, Pierer G, Terenghi G, Kingham PJ. Regeneration Potential and Survival of Transplanted Undifferentiated Adipose Tissue Derived Stem Cells in Peripheral Nerve Conduits. *J Plast Reconstr Aesthet Surg*. 2010 Dec;63(12):e811-7.
- 26) **Erba P**, Ogawa R, Ackermann M, Adini A, Miele LF, Dastouri P, Helm D, Mentzer SJ, D'Amato RJ, Murphy GF, Konerding MA, Orgill DP. Angiogenesis in Wounds Treated by Microdeformational Wound Therapy. *Ann Surg*. 2011 Feb;253(2):402-9.
- 27) **Erba P**, Ogawa R, Vyas R, Orgill DP. The Reconstructive Ladder in Light of Evidence-Based Medicine. *Plast Reconstr Surg*. 2011 Feb;127(2):1018-1019.
- 28) **Erba P**, Orgill DP. The new reconstructive ladder: modifications to the traditional model. *Plast Reconstr Surg*. 2011 Jan;127 Suppl 1:213S-214S.
- 29) Koch N, **Erba P**, Benathan M., Raffoul W. Nouveautés dans la reconstruction cutanée: cultures de cellules et substituts dermiques et revue de la littérature. *Annals of Burns and Fire Disasters* 2010; 23(3) 131-136
- 30) **Erba P**, Di Summa PG, Raffoul W, Schaefer DJ, Kalbermatten DF. Tip Anchor Flap in Decubital Surgery. *Aesthetic Plast Surg*. 2011 Dec;35(6):1133-6.
- 31) **Erba P**, Miele LF, Adini A, Ackermann M, Lamarches JM, Orgill B, Helm D, D'Amato RJ, Konerding MA, Mentzer SJ, Orgill DP. A morphometric study of mechanotransductively induced dermal neovascularization. *Plast Reconstr Surg*. 2011 Oct;128(4):288e-299e
- 32) **Erba P**, Adini A, Demcheva M, Vournakis JN, Orgill DP. sNAG nanofibers improve the woundhealing properties of the VAC foam interface. *J Trauma*. 2011 Aug;71(2 Suppl 1):S187-93.
- 33) **Erba P** (co-first author), Depner C, Rieger M, Schaefer JD, Haug M. Donor site morbidity of the sensate extended lateral arm flap. *J Reconstr Microsurg*. 2012 Feb;28(2):133-8.
- 34) **Erba P**, Harbi P, Thacher T, Pries AR, Ambrosio G, Raffoul W. Early Detection of Microcirculatory Perfusion Changes with a High Resolution, Real Time Laser Doppler Imaging Camera - Frostbite Case Study. *BMJ Case Rep*. 2011 Sep 19;2011.
- 35) Heit YI, Dastouri P, Helm D, Pietramaggiori G, Younan G, **Erba P**, Münster S, Orgill DP, Scherer SS. Foam pore size is a critical interface parameter of suction based wound healing devices. *Plast Reconstr Surg*. 2012 Mar;129(3):589-97.
- 36) **Erba P**, Espinosa D, Christen T, Koch N, Serov A, Raffoul W. Fluxexplorer a new high speed laser doppler imaging system Preliminary results of clinical application in plastic surgery. *Skin Res Technol*. 2012 Nov;18(4):456-61.
- 37) Di Summa PG, Wettstein R, **Erba P**, Raffoul W, Kalbermatten DF. Scar asymmetry after abdominoplasty: the unexpected role of seroma. *Ann Plast Surg*. 2012 Nov 8.
- 38) Nordback S, **Erba P**, Wehrli L, Raffoul W, Egloff D. Trapezeotomy and tendon suspension with or without a mitek anchor fixation in the thumb basal joint osteoarthritis. *J Hand Surg Eur Vol*. 2012 Sep;37(7):625-31.

- 39) **Erba P**, Raffoul W, Bauquis O. Safe Dissection of the Distally Based Anterolateral Thigh flap. *J Reconstr Microsurg*. 2012 Jul;28(6):405-11.
- 40) Wettstein R, **Erba P**, Itin P, Schaefer DJ, Kalbermatten DF. Treatment of basal cell carcinoma with surgical excision and perilesional interferon. *J Plast Reconstr Aesthet Surg*. 2013 Jul;66(7):912-6.
- 41) Spring P, Perrier P, **Erba P**, Hagmann P, Mihm MC, Hohl D. Large agminated cellular “plaque-type” blue nevus surrounding the ear: a case and review. *Dermatology*. 2013;227(1):21-5
- 42) **Erba P**, Raffoul W. Le lymphoedème et ses traitements. Accepted in *info@herz+gefäss Journal* 2013
- 43) Roberti del Vecchio P, Christen T, Raffoul W, **Erba P**. Ulnar nerve transposition at the elbow under local anesthesia: a patient satisfaction study. *J Reconstr Microsurg*. 2015 Mar;31(3):187-90
- 44) **Erba P** (co-first author), Fulco I, Valeri, R, Vournakis J, Schaefer DJ. Poly-N-acetyl glucosamine nano-fibers for negative-pressure wound therapies. *Wound Repair Regen*. 2015 Mar-Apr;23(2):197-202
- 45) Mueller CT, Uckay I, **Erba P**, Lipsky BA, Hoffmeyer P, Beaulieu JY. Septic Tenosynovitis of the Hand: Factors Predicting Need for Subsequent Debridement. *Plast Reconstr Surg*. 2015 Sep;136(3):338e-343e
- 46) Mermod T, El Ezzi O, Raffoul W, **Erba P**, de Buys Roessingh A. Assessment of the role of LASER-Doppler in the treatment of port-wine stains in infants. *J Pediatr Surg*. 2015 Aug;50(8):1388-92
- 47) Ackermann M, Wettstein R, Senaldi C, Kalbermatten DF, Raffoul W, Konerding M, **Erba P**. Platelet rich plasma and adipose stem cells in a murine tail lymphedema model. *Microvasc Res*. 2015 Nov;102:78-85
- 48) Zaugg P, Koch N, **Erba P**, Raffoul W. Pyoderma gangrenosum, an etiology of chronic ulcer disregarded? *Rev Med Suisse*. 2016 Feb 10;12(505):318-21

Patents

1. Platelet Rich Plasma (PRP) and Prolongin-1 derived Peptide stimulate lymphangiogenesis

PCT/IB2012/056110

Inventors: **Paolo Erba**

Applicant: CHUV, 2012

Books / Multimedia Projects

1) WoundsApp (for patients) & WoundsApp Pro (for medical professionals)

Smartphone/Tablet/PC Application Software (2012)

eHealth/Telemedicine project for the treatment of chronic ulcers in Switzerland

2) Surgical Basic Skills Multimedia Project (2006) (Chirurgische Basiskompetenzen, Modul I, 2006)

Farhadi J¹, Pierer K², **Erba P**¹, Kraus R¹, Lehmann T³, Blattner A³, Schaefer DJ¹, Pierer G^{1,4}.

¹Univ. Klinik für Wiederherstellende Chirurgie, Abteilung für Plastische und Rekonstruktive Chirurgie, ²Studiendekanat der Medizinischen Fakultät, Universität Basel, ³New Media Center der Universität Basel, ⁴Fachbereich Knowledge Management, Bereich Operative Medizin

<http://www.nmc.unibas.ch/nahtkurs/>

3) Tissue Engineering: The reconstruction of the Skin. Edited by L. Kamolz, D.N. Herndon, Springer Verlag Wien New York. *In Press*

“Dermal substitute evolution from two step to one step surgery” **P. Erba and W. Raffoul**