Curriculum Vitae

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Personal data

Date of birth: Place of birth: Nationality: Marital status:	02.12.1981 St.Gallen, Switzerland Swiss Unmarried		
Education			
10/2014 – present	Post-doctoral JSPS fellowship in the unit of Jay W. Shin, RIKEN Yokohama, Japan		
10/2008 – 06/2014	PhD in the group of Prof. Dr. Ernst Reichmann Tissue biology research unit, Department of surgery – University Children's Hospital, Zurich. FP6 EuroStec PhD program <u>http://www.eurostec.eu/</u>		
03/2006 – 05/2008	Master of Science in Animal Biology in the group of Prof. Dr. Silvia Arber Biocenter, Basel Titel of the Master thesis: Unraveling genetic control-mechanisms of motor circuitry in mouse		
06/2002 - 01/2006	Study of Biology at the Biocenter in Basel		
07/2001	High school graduation, Romanshorn, Switzerland		
Work experience			
07/2003 – 09/2003	Volunteer at Tortugas, Mexico		
07/2002 – 09/2002	Internship at Nestlé Schweiz AG, Quality-control lab Basel. Revision of a new concept documenting laboratory equipment (standard operating procedure), chemical examinations etc.		
08/2001 – 12/2001	Internship at Nestlé Schweiz AG, Quality-control lab Basel. Compile approx. 170 instructions that describe the examination of all primary products used in the manufactory: pH, common salt, photospectrometric examination, peroxid-number, free fatty acids, sensory examination etc.		

Professional Skills

Cell culture: human, rat, pig and mouse primary cell types; assembly and analysis of human skin substitutes in vitro and in vivo; assembly and analysis of a human dermal microvasculature consisting of blood and lymphatic microvessels; animal surgery (mouse and rat); FACS; immunofluorescence; in situ hybridization; confocal microscopy; molecular cloning, PCR, RT-PCR; Northern and Western blots; histology

Further education and workshops

- Education and training of persons carrying out animal experiments, Basel, Switzerland, 10/2006
- LTK Module 20E: Introductory Course in Laboratory Animal Science, Zürich, Switzerland, 05/2009
- Weiterbildung: Das Zürcher Schweinemodell, Bern, Switzerland, 08/2011
- Novartis Topik basic information security training, Basel, Switzerland, 11/2006

Publications

Luginbuhl, J., Marino, D., Hartmann-Fritsch, F., Scola, S., Meuli, M., Reichmann, E.. Pre-existing capillaries and early inosculation significantly improve the physiological healing of transplanted bioengineered dermo-epidermal skin substitutes. *In preparation (2013)*.

Marino, D. and <u>Luginbuhl, J.</u>, Meuli, M., Reichmann, E. Prevascularizing dermo-epidermal skin grafts with blood and lymphatic capillaries: Generating the missing lymphatic link. *Submitted (2013)*

Scola, S., <u>Luginbühl, J.</u>, Busetto, A., Biedermann, T., Marino, D., Pontiggia, L., Reichmann, E. Redefining Stem Cells in Human Skin Epidermis: Suprabasal Keratinocytes are Transit Amplifying Cells. In preparation (2013)

Hartmann-Fritsch, F., Biedermann, T., Braziulis, E., <u>Luginbuhl, J.</u>, Pontiggia, L., Bottcher-Haberzeth, S., van Kuppevelt, T.H., Faraj, K.A., Schiestl, C., Meuli, M., et al. Collagen hydrogels strengthened by biodegradable meshes are a basis for dermo-epidermal skin grafts intended to reconstitute human skin in a one-step surgical intervention. *J Tissue Eng Regen Med*. [Epub ahead of print]

Hartmann-Fritsch, F., Hosper, N., <u>Luginbuhl, J</u>., Biedermann, T., Reichmann, E., and Meuli, M. Human amniotic fluid derived cells can competently substitute dermal fibroblasts in a tissue-engineered dermo-epidermal skin analog. *Pediatr Surg Int* 29:61-69.

Kottmann, J., Rey, J.M., <u>Luginbuhl, J</u>., Reichmann, E., and Sigrist, M.W. Glucose sensing in human epidermis using mid-infrared photoacoustic detection. *Biomed Opt Express* 3:667-680.

Braziulis, E., Diezi, M., Biedermann, T., Pontiggia, L., Schmucki, M., Hartmann-Fritsch, F., <u>Luginbuhl, J</u>., Schiestl, C., Meuli, M., and Reichmann, E. Modified plastic compression of collagen hydrogels provides an ideal matrix for clinically applicable skin substitutes. *Tissue Eng Part C Methods* 18:464-474.

Montano, I., Schiestl, C., Schneider, J., Pontiggia, L., <u>Luginbuhl, J.</u>, Biedermann, T., Bottcher-Haberzeth, S., Braziulis, E., Meuli, M., and Reichmann, E. Formation of human capillaries in vitro: the engineering of prevascularized matrices. *Tissue Eng Part A* 16:269-282.

Conferences with oral presentations

ESAO TERMIS	European society for artificial organs, Porto, Portugal, September 2011 Tissue engineering and regenerative medicine international society, Granada, Spain, June 2011
TERMIS	Tissue engineering and regenerative medicine international society, Galway, Ireland, June 2010
JPSS	The 22nd International Symposium on Paediatric Surgical Research, Genoa, Italy, September 2009
TERMIS	Tissue engineering and regenerative medicine international society, Seoul, South Korea, September 2009

Languages

Interests

German	Mother language	Playing and writing music, sports (sailing,
English	Excellent	dancing, jogging), reading, travelling.
French	Good	