

## Publikationen PD Dr. med. Reto Wettstein

2015

### **Brustkrebs - die Rolle der plastischen Chirurgie.**

Wettstein R, Erni D, Harder Y, Fulco I, Ling B, Schaefer DJ, Weber W, Haug M.  
*Swiss Med Forum* 15:65-67, 2015

### **Phase II metabolism in human skin: skin explants show full coverage for glucuronidation, sulfation, N-acetylation, catechol methylation, and glutathione conjugation.**

Manevski N, Swart P, Balavenkatraman KK, Bertschi B, Camenisch G, Kretz O, Schiller H, Walles M, Ling B, **Wettstein R**, Schaefer DJ, Itin P, Ashton-Chess J, Pognan F, Wolf A, Litherland K  
*Drug Metab Dispos.* 2015 Jan;43(1):126-39.

2014

### **Eigenfettgewebetransplantation in die Brust – ja aber!**

Wettstein R, Ling BM, Harder Y, Schaefer DJ.  
*Swiss Med Forum* 14:954-56, 2014

### **Ischemic tissue injury in the dorsal skinfold chamber of the mouse: a skin flap model to investigate acute persistent ischemia.**

Harder Y, Schmauss D, **Wettstein R**, Egana JT, Weiss F, Weinzierl A, Schuldt A, Machens HG, Menger MD, Rezaeian F.  
*J Vis Exp* 17:e51900, 2014

### **Power assisted liposuction (PAL) of multiple symmetric lipomatosis (MSL)- a longitudinal study.**

Tremp M, **Wettstein R**, Tschang LA, Schaefer DJ, Rieger UM, Kalbermatten DF.  
*Surg Obes Relat Dis*, 2014

### **Aldehyde oxidase activity in fresh human skin.**

Manevski N, Balavenkatraman KK, Bertschi B, Swart P, Walles M, Camenisch G, Schiller H, Kretz O, Ling B, **Wettstein R**, Schaefer DJ, Pognan F, Wolf A, Litherland K.  
*Drug Metab Dispos.* 2014 Dec;42(12):2049-57.

### **Treatment of Secondary Burn Wound Progression in Contact Burns-A Systematic Review of Experimental Approaches.**

Schmauss D, Rezaeian F, Finck T, Machens HG, **Wettstein R**, Harder Y.  
*J Burn Care Res.* 2014 Oct 13.

### **Defect reconstruction over the olecranon with the distally extended lateral arm flap.**

**Wettstein R**, Helmy N, Kalbermatten DF.  
*J Plast Reconstr Aesthet Surg* 67:1125-8, 2014

### **Superior epigastric artery perforator flap for sternal osteomyelitis defect reconstruction.**

**Wettstein R**, Weisser M, Schaefer DJ, Kalbermatten DF.  
*J Plast Reconstr Aesthet Surg* 67:634-9, 2014

### **Progenitor cell therapy for sacral pressure sore: a pilot study with a novel human chronic wound model.**

**Wettstein R**, Savic M, Pierer G, Scheufler O, Haug M, Halter J, Gratwohl A, Schaefer DJ, Kalbermatten DF.  
*Stem Cell Res Ther* 29:18, 2014

### **Efficacy, safety and complications of autologous fat grafting to healthy breast tissue: A systematic review.**

Largo R, Tchang LA, Mele V, Scherberich A, Harder Y, **Wettstein R**, Schaefer DJ.  
*J Plast Reconstr Aesthet Surg* 67:437-48; 2014

### **Bovine dermal matrix as coverage of facial nerve grafts.**

Kappos EA, Engels PE, **Wettstein R**, Schaefer DJ, Kalbermatten DF.  
*Case Rep Med.* 2014

## 2013

### **Efficacy, safety and complications of autologous fat grafting to healthy breast tissue: A systematic review.**

Largo RD, Tchang LA, Mele V, Scherberich A, Harder Y, **Wettstein R**, Schaefer DJ.  
*J Plast Reconstr Aesthet Surg*, 2013

### **Local flap therapy for the treatment of pressure sore wounds.**

**Wettstein R**, Tremp M, Baumberger M, Schaefer DJ, Kalbermatten DF.  
*Int Wound J*, 2013

### **Second free radial forearm flap for urethral reconstruction after partial flap necrosis of tube-in-tube phalloplasty with radial forearm flap: A report of two cases.**

Tchang LA, Largo RD, Babst D, **Wettstein R**, Haug MD, Kalbermatten DF, Schaefer DJ.  
*Microsurgery* 2013

### **Local shockwave-induced capillary recruitment improves survival of musculocutaneous flaps.**

Tobalem M, **Wettstein R**, Pittet-Cuénod B, Vigato E, Machens HG, Lohmeyer JA, Rezaeian F, Harder Y.  
*J Surg Res* 184:1196-204;2013

### **Treatment of basal cell carcinoma with surgical excision and perilesional interferon- $\alpha$ .**

**Wettstein R**, Erba P, Itin P, Schaefer DJ, Kalbermatten DF.  
*J Plast Reconstr Aesthet Surg* 66:912-6;2013

### **Three-dimensional laser surface scanning in rhinosurgery.**

Largo RD, **Wettstein R**, Fulco I, Tremp M, Schaefer DJ, Gubisch W, Haug MD.  
*Facial Plast Surg* 29:116-20;2013

### **Long-term preconditioning with erythropoietin reduces ischemia-induced skin necrosis.**

Rezaeian F, **Wettstein R**, Scheuer C, Schenk TL, Egana JT, Machens HG, Menger MD, Harder Y.  
*Microcirculation* 2013

### **Laser scanning evaluation of atrophy after autologous free muscle transfer.**

**Wettstein R**, Largo RD, Raffoul W, Schumacher R, Schaefer DJ, Kalbermatten DF.  
*Ann Plast Surg*, 2013

### **Secondary burn progression decreased by erythropoietin.**

Tobalem M, Harder Y, Rezaeian F, Wettstein R.  
*Crit Care Med.* 41:963-71;2013

### **Scar asymmetry after abdominoplasty: the unexpected role of seroma**

Di Summa P, **Wettstein R**, Erba P, Raffoul, Kalbermatten DF.  
*Ann Plast Surg* 71:461-3;2013

### **First-aid with warm water delays burn progression and increases skin survival.**

Tobalem M, Harder Y, Tschanz E, Speidel V, Pittet-Cuénod B, **Wettstein R**  
*J Plast Reconstr Aesthet Surg* 66:260-6;2013

## 2012

### **Secret scar free gracilis flap.**

Tremp M, **Wettstein R**, Raffoul W, Schaefer DJ, Kalbermatten DF.  
*J Reconstr Microsurg* 28:341-4;2012

### **Erythropoietin in the prevention of experimental burn progression.**

Tobalem M, Harder Y, Schuster T, Rezaeian F, **Wettstein R**.  
*Br J Surg* 99:1295-303;2012

**Ghrelin protects musculocutaneous tissue from ischemic necrosis by improving microvascular perfusion.**

Rezaeian F, **Wettstein R**, Scheuer C, Bäumker K, Menger MD, Harder Y.  
*Am J Physiol* 302:H603-10;2012

**2011**

**Locating perforator vessels by dynamic infrared imaging and flow Doppler with no thermal cold challenge.**

Tenorio X, Mahajan AL, Elias B, van Riempest JS, **Wettstein R**, Harder Y, Pittet B  
*Ann Plast Surg* 67:143-6;2011,

**Superior pedicle breast reduction for hypertrophy with massive ptosis**

**Wettstein R**, Christofide E, Pittet B, Psaras G, Harder Y.  
*J Plast Reconstr Aesthet Surg* 64:500-7;2011

**Split-thickness skin graft harvested with saline moistening.**

**Wettstein R**, Betsi EE, Racine C, Raffoul W, Kalbermatten DF  
*J Burn Care Res Jan-Feb* 32(1):e13, 2011

**2010**

**Gender-specific ischemic tissue tolerance in critically perfused skin.**

Harder Y, Amon M, **Wettstein R**, Rucker M, Schramm R, Menger MD.  
*Langenbecks Arch Surg.* 395:33-40;2010

**Erythropoietin-induced upregulation of endothelial nitric oxide synthase but not vascular endothelial growth factor prevents musculocutaneous tissue from ischemic damage.**

Rezaeian F, **Wettstein R**, Egger JF, Sandmann F, Rucker M, Tobalem M, Vollmar B, Menger MD, Harder Y.  
*Lab Invest* 90:40-51;2010

**Fibrin sealant for fasciocutaneous flaps.**

Erba P, Di Summa PG, **Wettstein R**, Raffoul W, Kalbermatten DF.  
*Journal of Reconstructive Microsurgery* 26:213-7;2010

**A comparative study of two surgical treatment strategies for painful neuroma.**

Balcin H, Erba P, **Wettstein R**, Schaefer DJ, Pierer G, Kalbermatten DF  
*J Bone Joint Surg Br* 91-B:803-8;2009

**Silicone molding for pressure sore debridement.**

Erba P, **Wettstein R**, Pierer G, Kalbermatten DF  
*J Plast Reconstr Aesthet Surg* 63:550-3;2010

**2009**

**Body taping for contour surgery.**

Kalbermatten DF, **Wettstein R**, Erba P, Rieger UM, Pierer G, Raffoul W.  
*Aesthetic Plast Surg* 33:324-6;2009

**Donor site morbidity of the posterior conchal region.**

Erba P, **Wettstein R**, D'Arpa S, Kalbermatten DF.  
*Dermatol Surg* 35:960-4;2009

**Early detection of flap failure using a new thermographic device.**

Tenorio X, Mahajan AJ, **Wettstein R**, Harder Y, Pawlovski M, Pittet B.  
*J Surg Res* 151:15-21;2009

**Neurocutaneous sural flap in paraplegic patients.**

Erba P, **Wettstein R**, Tolnay M, Rieger UM, Pierer G, DF Kalbermatten.  
*J Plast Reconstr Aesthet Surg* 62:1094-8;2009

**2008**

**Erythropoietin protects critically perfused flap tissue from necrosis.**

Rezaeian F, **Wettstein R**, Amon M, Scheuer C, Schramm R, Menger MD, Pittet B, Harder Y.  
*Ann Surg* 248(6):919-29;2008

**Does abdominoplasty with liposuction of the love handles yield a shorter scar? An analysis with abdominal 3D laser scanning.**

Rieger UM, Erba P, **Wettstein R**, Schumacher R, Haug M, Pierer G, Kalbermatten DF.  
*Ann Plast Surg* 61:359-63, 2008

**A study of the effect of sartorius transposition on lymph flow after ilioinguinal node dissection.**

Erba P, **Wettstein R**, Rieger UM, Haug M, Pierer G, Kalbermatten DF.  
*Ann Plast Surg.* 61(3):310-3, 2008

**Sensate lateral arm flaps for defects of the lower leg.**

Kalbermatten DF, **Wettstein R**, von Kanel O, Erba P, Pierer G, Wiberg M, Haug M.  
*Ann Plast Surg* 61(1): 40-6, 2008

**Reducing the learning curve for the treatment of morphoeic (sclerosing) basal cell carcinoma of the face.**

Erba P, **Wettstein R**, Rieger UM, Beltraminelli H, Pierer G, Kalbermatten DF.  
*Scand J Plast Reconstr Surg Hand Surg* 42(3):122-6, 2008

**Incomplete excision of basal cell carcinoma in the subunits of the nose.**

**Wettstein R**, Erba P, Farhadi J, Kalbermatten DF, Arnold A, Haug M, Pierer G.  
*Scand J Plast Reconstr Surg Hand Surg* 42(2):92-5, 2008

**Review of 197 consecutive free flap reconstructions in the lower extremity.**

**Wettstein R**, Schürch R, Banic A, Erni D, Harder Y.  
*J Plast Reconstr Aesthet Surg* 61(79):772-6, 2008

**Microvascular experimental evidence on the relative significance of restoring oxygen carrying capacity vs. blood viscosity in shock resuscitation.**

Salazar Vázquez BY, **Wettstein R**, Cabrales P, Tsai AG, Intaglietta M.  
*Biochim Biophys Acta* 1784(10):1421-7; 2008

**Marjolin's ulcer revisited – Basal cell carcinoma arising from grenade fragments?**

Rieger UM, Kalbermatten DF, **Wettstein R**, Heider I, Haug M, Pierer G.  
*J Plast Reconstr Aesthet Surg* 61(1):65-70; 2008

**An old dream revitalised: preconditioning strategies to protect surgical flaps from critical ischaemia and ischaemia-reperfusion injury.**

Harder Y, Amon M, Laschke MW, Schramm R, Rucker M, **Wettstein R**, Bastiaanse J, Frick A, Machens HG, Küntscher M, Germann G, Vollmar B, Erni D, Menger MD.  
*J Plast Reconstr Aesthet Surg* 61:503-11, 2008

**Posterior auricular perichondrial cutaneous graft combined with cartilage strip in nostril reconstruction.**

Schmid DW, Di Summa PG, **Wettstein R**, Erba P, Raffoul W, Kalbermatten DF.  
*Eplasty* 412-18, 2008

**Successful therapy for a patient with an infected ascending aortic graft and sternal osteomyelitis without graft removal.**

Schmid DW, Orasch-Jörg Ch, **Wettstein R**, Kalbermatten DF, Todorov A, Pierer G.  
*Eplasty* 419-22, 2008

## 2007

### **Hemiface Rhytidectomy.**

Kalbermatten DF, Erba P, **Wettstein R**, Pierer G.  
*Aesthetic Plast* 32(2):227-33, 2007

### **Morphoeic basal cell carcinoma of the face.**

Erba P, Farhadi J, **Wettstein R**, Arnold A, Harr T, Pierer G.  
*Scand J Plast Reconstr Hand Surg* 41:184-8, 2007

### **Laser scanner analysis in reconstruction of traumatic laceration of the facial nerve.**

Kalbermatten DF, **Wettstein R**, Erba P, Schumacher R, Dagorov P, Pierer G.  
*Laser Physics Letters* 4: 476-9, 2007

### **Selective blockade of endothelin-B receptor improves survival of critically perfused musculocutaneous flaps.**

**Wettstein R**, Morsdorf P, Bachle A, Amon M, Pittet B, Menger MD, Harder Y.  
*Langenbecks Arch Surg* 392:331-8, 2007

### **Hemoglobin vesicles to treat critical ischemia.**

Erni D, **Wettstein R**, Contaldo C, Plock JA, Rafatmehr N, Sakai H, Tsuchida E.  
*Artificial Blood* 15(2): 58-64, 2007

## 2006

### **Laser surface scanning analysis in reconstructive rhytidectomy.**

**Wettstein R**, Kalbermatten DF, Rieger UM, Schumacher R, Dagorov P, Pierer G.  
*Aesthetic Plast Surg* 30:637-40, 2006

### **High magnification assessment improves complete resection of facial tumors.**

**Wettstein R**, Kalbermatten DM, Rieger U, Farhadi J, Harr T, Pierer G.  
*Ann Plast Surg* 57:517-20, 2006

### **Early resuscitation with polymerized bovine hemoglobin reverses acidosis, but not peripheral tissue oxygenation in a severe hamster shock model.**

**Wettstein R**, Tsai AG, Harder Y, Erni D, Intaglietta M.  
*Shock* 26:496-503, 2006

### **Rapid restoration of microcirculatory blood flow with hyperviscous and hyperoncotic solutions lowers the transfusion trigger in resuscitation from hemorrhagic shock.**

**Wettstein R**, Erni D, Intaglietta M, Tsai AG.  
*Shock* 25:641-6, 2006

### **Effective treatment of permanent tattoos with combustible particles due to blast injuries with a V-shaped device.**

Kalbermatten DF, **Wettstein R**, Haug M, du Croo de Jongh NT, Pierer G.  
*J Plast Reconstr Aesthet Surg* 59:398-403, 2006

## 2005

### **New posterior auricular perichondrial cutaneous graft for stable reconstruction of nasal defects.**

Kalbermatten DF, Haug M, **Wettstein R**, Schaefer DJ, Pierer G.  
*Aesthetic Plast Surg* 29:489-95, 2005

## 2004

### **Resuscitation from hemorrhagic shock with MalPEG-albumin: Comparison with MalPEG-hemoglobin.**

**Wettstein R**, Cabrales P, Erni D, Tsai AG, Winslow RM, Intaglietta M.  
*Shock* 22(4):351-7; 2004

**Improving microcirculation is more effective than substitution of red blood cells to correct metabolic disorder in experimental hemorrhagic shock.**

**Wettstein R**, Tsai AG, Erni D, Torchilin VP, Intaglietta M.  
*Shock* 21(3):235-40, 2004

**An effective blood replacement fluid that targets oxygen delivery, increases plasma viscosity, and has high oxygen affinity.**

Tsai AG, Sakai H, **Wettstein R**, Kerger H, Intaglietta M.  
*Transfusion Alternatives in Transfusion Medicine* 5(6):507-15, 2004

## 2003

**Improved oxygenation in ischemic hamster flap tissue is correlated with increasing hemodilution with Hb vesicles and their O<sub>2</sub> affinity.**

Contaldo C, Schramm S, **Wettstein R**, Sakai H, Takeoka S, Tsuchida E, Leunig M, Banic A, Erni D.  
*Am J Physiol Heart Circ Physiol* 285:H1140-7, 2003

**Resuscitation with MalPEG-Hemoglobin improves microcirculatory blood flow and tissue oxygenation after hemorrhagic shock in awake hamsters.**

**Wettstein R**, Tsai AG, Erni D, Winslow R.M, Intaglietta M.  
*Crit Care Med* 31:1824-30; 2003

**Normovolemic hemodilution with Hb vesicle solution attenuates hypoxia in ischemic hamster flap tissue.**

Erni D, **Wettstein R**, Schramm S, Contaldo C, Sakai H, Takeoka S, Tsuchida E, Leunig M, Banic A.  
*Am J Physiol Heart Circ Physiol* 284:H1702-9; 2003

## 2002

**Systemic and microvascular responses to hemorrhagic shock and resuscitation with Hb vesicles.**

Sakai H, Takeoka S, **Wettstein R**, Tsai AG, Intaglietta M, Tsuchida E.  
*Am J Physiol Heart Circ Physiol* 283:H1191-9;2002

**Radical sternectomy and primary musculocutaneous flap reconstruction to control sternal osteitis.**

**Wettstein R**, Erni D, Berdat P, Rothenfluh DA, Banic A.  
*J Thorac Cardiovasc Surg* 123:1185-90; 2002

**Acute normovolemic hemodilution improves oxygenation in ischemic flap tissue.**

Schramm S, **Wettstein R**, Wessendorf R, Jakob SM, Banic A, Erni D.  
*Anesthesiology* 96:1478-84; 2002

## 2001

**Endothelin Receptor Blockade Improves Oxygenation in Contralateral TRAM Flap Tissue.** Erni D,

Wessendorf R, **Wettstein R**, Schilling MK, Banic A.  
*Br J Plast Surg* 54:412-8; 2001

## 2000

**The effect of pedicle artery vasospasm on microhemodynamics in anatomically perfused and extended flap tissue.**

**Wettstein R**, Wessendorf R, Sckell A, Leunig M, Banic A, Erni D.  
*Ann Plast Surg* 45:155-61; 2000

## **Buchkapitel**

### **Frontiers in Drug Discovery: Erythropoietic Stimulating Agents**

Effects of Erythropoietin in Skin Regeneration and Repair.

Sorg H, **Wettstein R**, Vogt PM, Harder Y.

2013, 160-179

### **Manual of soft-tissue management in orthopaedic trauma**

Editors: D. Volgas, Y. Harder, 2011

#### ***Chapter 2: Basic anatomical principles and functions of soft tissue and bone***

**General anatomical considerations.**

**Wettstein R, Erni D**

**The Fascial connective tissue framework.**

**Wettstein R, Erni D**

**Skin and subcutaneous tissue.**

**Wettstein R, Erni D**

**Tendon and muscle.**

**Wettstein R, Erni D**

**Regional variations in vascular anatomy.**

**Wettstein R, Erni D**

#### ***Chapter 5: Preoperative assessment and classification of soft-tissue injuries***

**Preoperative assessment of soft-tissue injuries.**

Rezaeian F, **Wettstein R**, Erni D, Harder Y

#### ***Chapter 8: Principles of wound closure and coverage***

**Principles of decision making.**

**Wettstein R, Kalbermatten DF**

**Aim of reconstruction.**

Kalbermatten DF, **Wettstein R**

#### ***Chapter 10: Wound closure and coverage techniques***

**Flaps in general - principles.**

Calcagni M, Giovanoli P, **Wettstein R**, Harder Y

**Postoperative management.**

Lohmeyer JA, Harder Y, **Wettstein R**