

## Publikationen

- 1. Changes in skin physiology after local heat application using two different methods in individuals with complete paraplegia: A feasibility and safety trial.**  
Scheel-Sailer A, Aliyev N, Jud D, Annaheim S, Harder Y, Krebs J, Wildisen A, **Wettstein R.**  
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- 2. Treatment and cost of pressure injury stage III and IV in four patients with spinal cord injury: the basel decubitus concept.**  
Meier C, Boes S, Gemperli A, Gmünder HP, Koligi K, Metzger S, Schaefer DJ, Schmitt K, Schwegmann W, **Wettstein R,** Scheel-Sailer A.  
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- 3. Reconstruction of spinal soft tissue defects with perforator flaps from the paraspinal region.**  
Di Summa PG, Largo RD, Ismail T, Tremp M, Lunger A, **Wettstein R,** Krähenbühl SM, Giordano S, Schaefer DJ, Schaeren S, Kalbermatten DF.  
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- 4. Comparison of anterolateral thigh and radial forearm free flaps in head and neck reconstruction.**  
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- 5. Patient height, weight, BMI and age as predictors of gracilis muscle free-flap mass in lower extremity reconstruction.**  
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*In Vivo.* 32:591-95, 2018
- 6. The medial sural artery perforator flap: The first choice for soft-tissue reconstruction about the knee.**  
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- 7. The „nugget design“: A modified segmental gracilis free flap for small-sized defect reconstruction on the lower extremity.**  
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- 8. Extending the limits of the anterior tibial artery as a recipient vessel for around the knee and proximal lower extremity defect reconstruction using the free anterolateral thigh and gracilis flap.**  
Tremp M, Kappos EA, Oranges CM, di Summa PG, Schaefer DJ, Zhang YX, **Wettstein R,** Kalbermatten D.  
*Microsurgery* 38:60-65; 2018
- 9. Nipple reconstruction after autologous or expander breast reconstruction: A multimodal and 3-dimensional analysis.**  
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*Aesthet Surg J.* 37:179-87, 2017
- 10. A simple, reliable, and inexpensive intraoperative external expansion system for enhanced autologous structural fat grafting.**  
Oranges CM, Tremp M, Ling B, **Wettstein R,** Largo RD, Schaefer DJ.  
*Arch Plast Surg* 43:466-9, 2016

11. **Pedicated instep flap and tibial nerve reconstruction in a Cynomolgus monkey (Macaca fascicularis).**  
Weiss R, **Wettstein R**, Kappos EA, Jacobsen B, Kalbermatten DF, Bergadano A.  
*Case Rep Vet Med.* 4386249, 2016
12. **The medial femoral trochlea flap with a monitor skin island. Report of two cases.**  
Trempe M, Hauer A, **Wettstein R**, Zhang YX, Honigmann P, Schaefer DJ, Kalbermatten DF.  
*Microsurgery* 37:431-35; 2017
13. **Impact of platelet rich plasma and adipose stem cells on lymphangiogenesis in a murine tail lymphedema model.**  
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*Microvasc Res.* 102:78-85, 2015
14. **Ischemic tissue injury in the dorsal skinfold chamber of the mouse: a skin flap model to investigate acute persistent ischemia.**  
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*J Vis Exp* 17:e51900, 2014
15. **Power assisted liposuction (PAL) of multiple symmetric lipomatosis (MSL)- a longitudinal study.**  
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*Surg Obes Relat Dis*, 11:155-60; 2015
16. **Phase II metabolism in human skin: skin explants show full coverage for glucuronidation, sulfation, N-acetylation, catechol methylation, and glutathione conjugation.**  
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17. **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.  
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18. **Treatment of Secondary Burn Wound Progression in Contact Burns-A Systematic Review of Experimental Approaches.**  
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*J Burn Care Res* 36:e176-89; 2015
19. **Defect reconstruction over the olecranon with the distally extended lateral arm flap. Wettstein R, Helmy N, Kalbermatten DF.**  
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20. **Superior epigastric artery perforator flap for sternal osteomyelitis defect reconstruction.**  
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21. **Progenitor cell therapy for sacral pressure sore: a pilot study with a novel human chronic wound model.**  
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*Stem Cell Res Ther* 29:18, 2014

22. **Efficacy, safety and complications of autologous fat grafting to healthy breast tissue: A systematic review.**  
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23. **Local flap therapy for the treatment of pressure sore wounds.**  
**Wettstein R**, Tremp M, Baumberger M, Schaefer DJ, Kalbermatten DF.  
*Int Wound J*, 12:572-6; 2015
24. **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.**  
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*Microsurgery* 34:58-63;2014
25. **Local shockwave-induced capillary recruitment improves survival of musculocutaneous flaps.**  
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26. **Treatment of basal cell carcinoma with surgical excision and perilesional interferon- $\alpha$ .**  
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28. **Long-term preconditioning with erythropoietin reduces ischemia-induced skin necrosis.**  
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29. **Laser scanning evaluation of atrophy after autologous free muscle transfer.**  
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30. **Secondary burn progression decreased by erythropoietin.**  
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31. **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
32. **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
33. **Secret scar free gracilis flap**  
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34. **Erythropoietin in the prevention of experimental burn progression.**  
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*Br J Surg* 99:1295-303;2012

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36. **Locating perforator vessels by dynamic infrared imaging and flow Doppler with no thermal cold challenge.**  
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37. **Superior pedicle breast reduction for hypertrophy with massive ptosis**  
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39. **Erythropoietin-induced upregulation of endothelial nitric oxide synthase but not vascular endothelial growth factor prevents musculocutaneous tissue from ischemic damage.**  
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43. **Body taping for contour surgery.**  
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46. **Neurocutaneous sural flap in paraplegic patients.**  
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47. **Erythropoietin protects critically perfused flap tissue from necrosis.**  
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48. **Does abdominoplasty with liposuction of the love handles yield a shorter scar? An analysis with abdominal 3D laser scanning.**  
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50. **Sensate lateral arm flaps for defects of the lower leg.**  
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54. **Hemiface Rhytidectomy.**  
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55. **Morphoeic basal cell carcinoma of the face.**  
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56. **Laser scanner analysis in reconstruction of traumatic laceration of the facial nerve.**  
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- 62. Effective treatment of permanent tattoos with combustible particles due to blast injuries with a V-shaped device.**  
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- 63. New posterior auricular perichondrial cutaneous graft for stable reconstruction of nasal defects.**  
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## Review articles (peer reviewed)

1. **The burn comb model revisited.** Tobalem M, **Wettstein R**, Tschanz E, Plock J, Lindenblatt N, Harder Y, Rezaeian F.  
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2. **Decubitus – ein Update.**  
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3. **Brustkrebs – die Rolle der plastischen Chirurgie**  
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4. **Eigenfettgewebetransplantation in die Brust – ja aber!**  
**Wettstein R**, Ling BM, Harder Y, Schaefer DJ.  
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5. **Efficacy, safety and complications of autologous fat grafting to healthy breast tissue: A systematic review.**  
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6. **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
7. **Marjolin’s ulcer revisited – Basal cell carcinoma arising from grenade fragments?** Rieger UM, Kalbermatten DF, **Wettstein R**, Heider I, Haug M, Pierer G.  
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8. **An old dream revitalised: preconditioning strategies to protect surgical flaps from critical ischaemia and ischaemia-reperfusion injury.**  
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*Artificial Blood* 15(2): 58-64, 2007
10. **An effective blood replacement fluid that targets oxygen delivery, increases plasma viscosity, and has high oxygen affinity.**  
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## Case reports, letters to the editor (peer reviewed)

1. **Bovine dermal matrix as coverage of facial nerve grafts.**  
Kappos EA, Engels PE, **Wettstein R**, Schaefer DJ, Kalbermatten DF.  
*Case Rep Med.* 2014
2. **Split-thickness skin graft harvested with saline moistening.**  
**Wettstein R**, Betsi EE, Racine C, Raffoul W, Kalbermatten DF  
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3. **Posterior auricular perichondrial cutaneous graft combined with cartilage strip in nostril reconstruction.**

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4. **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

## Buchkapitel

1. **Effects of Erythropoietin in Skin Regeneration and Repair.** Sorg H, **Wettstein R**, Vogt PM, Harder Y. *Frontiers in Drug Discovery: Erythropoietic Stimulating Agents 2013*, 160-179
2. **General anatomical considerations.** **Wettstein R**, Erni D. *Manual of soft-tissue management in orthopaedic trauma / 17 / 2011*
3. **The Fascial connective tissue framework.** **Wettstein R**, Erni D. *Manual of soft-tissue management in orthopaedic trauma / 17-21 / 2011*
4. **Skin and subcutaneous tissue.** **Wettstein R**, Erni D. *Manual of soft-tissue management in orthopaedic trauma / 21-22 / 2011*
5. **Tendon and muscle.** **Wettstein R**, Erni D. *Manual of soft-tissue management in orthopaedic trauma / 23 / 2011*
6. **Regional variations in vascular anatomy.** **Wettstein R**, Erni D. *Manual of soft-tissue management in orthopaedic trauma / 25-26 / 2011*
7. **Preoperative assessment of soft-tissue injuries.** Rezaeian F, **Wettstein R**, Erni D, Harder Y. *Manual of soft-tissue management in orthopaedic trauma / 55-60 / 2011*
8. **Principles of decision making.** **Wettstein R**, Kalbermatten DF. *Manual of soft-tissue management in orthopaedic trauma / 101-104 / 2011*
9. **Aim of reconstruction.** Kalbermatten DF, **Wettstein R**. *Manual of soft-tissue management in orthopaedic trauma / 104 / 2011*
10. **Flaps in general - principles.** Calcagni M, Giovanoli P, **Wettstein R**, Harder Y. *Manual of soft-tissue management in orthopaedic trauma / 145-152 / 2011*
11. **Postoperative management.** Lohmeyer JA, Harder Y, **Wettstein R**. *Manual of soft-tissue management in orthopaedic trauma / 198-201 / 2011*