

# Curriculum Vitae

## Dr. med. Justin Gabriel Schlager

Date of birth: 4<sup>th</sup> September 1987

### Current position

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Specialist in Dermatology

Department for Dermatology and Allergology, LMU University Hospital, Munich, Germany

- Outpatient unit for dermatologic surgery
- Outpatient clinic for chronic wounds and phlebology

### Medical training

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Department for Dermatology and Allergy, LMU University Hospital, Munich, Germany

2016 and 2019-2023

Department for General Surgery, University Hospital, Augsburg, Germany

2017 - 2019

### Medical studies

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Charité Universitätsmedizin Berlin, Germany

2011-2015

Université Victor Segalen Bordeaux II, France

2012-2013

University of Göttingen, Germany

2009-2011

### Scientific and professional commitments

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Initiator and principal investigator of the research project

2019

“Surgical site infection in skinsurgery: riskfactors, prophylaxis and the role of the skin microbiome”

Local coordinator and deputy principal investigator of multicenter wound healing studies

- RHEACELL\_allo-APZ2-CVU-IIb

2023

- Medolysin Woundspray

2019

Member of the Antibiotic Stewardship working group of the German Society for Dermatologic Surgery

since 2022

Member of the interdisciplinary wound commission at the LMU University Hospital

since 2020

Voluntary work for open.med Munich, Doctors of the World

since 2020

### Scholarships

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Mentoring program of the German Society for Dermatologic Surgery (DGDC)

2023

Observership program of the DGDC at the Department for Dermatologic Surgery, University Hospital Zurich

2022

### Memberships

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European Wound Management Association (EWMA)

German Dermatological Society (DDG)

German Society for Dermatologic Surgery (DGDC)

International Society for Dermatologic Surgery (ISDS)

International Society of Dermatology in the Tropics e.V.

## Recent activities as scientific speaker

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La infección en heridas de pierna – EWMA-Webinar in Spanish language	2024
Xenogenic extracellular matrix - EADV-Congress, Berlin	2023
Risk Factors for Surgical Site Infections – ISDS annual meeting, Rio de Janeiro, Brasil	2023
Wundinfektionen in der Dermatochirurgie – DGDC annual meeting, Dortmund, Germany	2023
Ulcéras vasculares: venosas, arteriales, mixtas, Madrid, Spain	2023
Stammzelltherapie – der Durchbruch in der Behandlung chronischer Wunden? - Venalpina, Engelberg, Switzerland	2023

Munich, April 2024

# Publications

Dr. med. Justin Gabriel Schlager

## Original research as first or senior author

1. Benjamin Kendziora, Kathrin Patzer, Lars E French, **Justin G Schlager\***, Daniela Hartmann\* (\*shared senior-authorship)  
Antibiotic Prophylaxis of Surgical Site Infections in Cutaneous Surgery: A Prospective Observational Study  
Acta Derm Venereol. 2023 May 10;103:adv4469. doi: 10.2340/actadv.v103.4469. PMID: 37165683; PMCID: PMC10186389.
2. **Justin Gabriel Schlager**, Kathrin Patzer, Jens Wallmichrath, Lars E French, Elena Kunrad, Sophia Schlingmann, Daniel Stiefel, Benjamin Kendziora, Daniela Hartmann  
Surgical site infection in skin surgery—An observational study  
Int Wound J. 2023 Nov;20(9):3514-3522. doi: 10.1111/iwj.14224. Epub 2023 May 8. PMID: 37156639; PMCID: PMC10588314.
3. **Justin Gabriel Schlager**, Virginia Ruiz San Jose, Kathrin Patzer, Lars E. French, Benjamin Kendziora, Daniela Hartmann  
Are specific body sites prone for wound infection after skin surgery? A systematic review and meta-analysis.  
Dermatol Surg. 2022 Apr 1;48(4):406-410. doi: 10.1097/DSS.0000000000003387. PMID: 35066551.
4. **Justin Gabriel Schlager**, Daniela Hartmann, Jens Wallmichrath, Virginia Ruiz San Jose, Kathrin Patzer, Lars E. French, Benjamin Kendziora  
Patient-dependent risk factors for wound infection after skin surgery: A systematic review and meta-analysis  
Int Wound J. 2022 Nov;19(7):1748-1757. doi: 10.1111/iwj.13780. Epub 2022 Mar 1. PMID: 35229471; PMCID: PMC9615300.
5. Benjamin Kendziora, Jessica Frey, Markus Reinholz, Franziska Ruëff, Eva Oppel, Torsten Zuberbier, Daniela Hartmann, **Justin G. Schlager\***, Lars E. French\* (\*shared senior-authorship)  
Efficacy and safety of medications for antihistamine-refractory chronic spontaneous urticaria: a systematic review and network meta-analysis  
Allergo J Int 32, 83–92 (2023).  
Impact factor (2023):
6. **Justin Gabriel Schlager**, Daniela Hartmann, Virginia Ruiz San Jose, Kathrin Patzer, Lars E. French, Benjamin Kendziora  
Procedure-Related Risk Factors for Surgical Site Infection in Dermatologic Surgery  
Dermatol Surg. 2022 Oct 1;48(10):1046-1050. doi: 10.1097/DSS.0000000000003546. Epub 2022 Jul 15. PMID: 35862641.
7. **Schlager JG**, Kendziora B, Patzak L, Kupf S, Rothenberger C, Fiocco Z, French LE, Reinholz M, Hartmann D.  
Impact of COVID-19 on wound care in Germany.  
Int Wound J. 2021 Aug;18(4):536-542. doi: 10.1111/iwj.13553. Epub 2021 Feb 7. PMID: 33554436; PMCID: PMC8014846.
8. **Schlager JG**, Rosumeck S, Werner RN, Jacobs A, Schmitt J, Schlager C, Nast A.  
Topical treatments for scalp psoriasis.  
Cochrane Database Syst Rev. 2016 Feb 26;2(2):CD009687. doi: 10.1002/14651858.CD009687.pub2. PMID: 26915340; PMCID: PMC8697570.

## Original research as co-author

1. Fiocco Z, **Schlager JG**, Kendziora B, Patzak L, Kupf S, French LE, Hartmann D. Impact of the COVID-19 pandemic on patients with hidradenitis suppurativa. *Int Wound J*. 2022 Nov;19(7):1686-1692. doi: 10.1111/iwj.13772. Epub 2022 Feb 6. PMID: 35128802; PMCID: PMC9111782.
2. Maron RC, Hekler A, Haggenmüller S, von Kalle C, Utikal JS, Müller V, Gaiser M, Meier F, Hobelsberger S, Gellrich FF, Sergon M, Hauschild A, French LE, Heinzerling L, **Schlager JG**, Ghoreschi K, Schlaak M, Hilke FJ, Poch G, Korsing S, Berking C, Heppt MV, Erdmann M, Haferkamp S, Schadendorf D, Sondermann W, Goebeler M, Schilling B, Kather JN, Fröhling S, Lipka DB, Krieghoff-Henning E, Brinker TJ. Model soups improve performance of dermoscopic skin cancer classifiers. *Eur J Cancer*. 2022 Sep; 173:307-316. doi: 10.1016/j.ejca.2022.07.002. Epub 2022 Aug 13. PMID: 35973360.
3. COVIDSurg Collaborative; GlobalSurg Collaborative. SARS-CoV-2 infection and venous thromboembolism after surgery: an international prospective cohort study. *Anaesthesia*. 2022 Jan;77(1):28-39. doi: 10.1111/anae.15563. Epub 2021 Aug 24. PMID: 34428858; PMCID: PMC8652887.
4. COVIDSurg Collaborative, GlobalSurg Collaborative. SARS-CoV-2 vaccination modelling for safe surgery to save lives: data from an international prospective cohort study. *Br J Surg*. 2021 Sep 27;108(9):1056-1063. doi: 10.1093/bjs/znab101. PMID: 33761533; PMCID: PMC7995808.
5. COVIDSurg Collaborative; GlobalSurg Collaborative. SARS-CoV-2 infection and venous thromboembolism after surgery: an international prospective cohort study. *Anaesthesia*. 2022 Jan;77(1):28-39. doi: 10.1111/anae.15563. Epub 2021 Aug 24. PMID: 34428858; PMCID: PMC8652887.
6. Maron RC, **Schlager JG**, Haggenmüller S, von Kalle C, Utikal JS, Meier F, Gellrich FF, Hobelsberger S, Hauschild A, French L, Heinzerling L, Schlaak M, Ghoreschi K, Hilke FJ, Poch G, Heppt MV, Berking C, Haferkamp S, Sondermann W, Schadendorf D, Schilling B, Goebeler M, Krieghoff-Henning E, Hekler A, Fröhling S, Lipka DB, Kather JN, Brinker TJ. A benchmark for neural network robustness in skin cancer classification. *Eur J Cancer*. 2021 Sep; 155:191-199. doi: 10.1016/j.ejca.2021.06.047. Epub 2021 Aug 11. PMID: 34388516.
7. COVIDSurg Collaborative; GlobalSurg Collaborative. Effects of pre-operative isolation on postoperative pulmonary complications after elective surgery: an international prospective cohort study. *Anaesthesia*. 2021 Nov;76(11):1454-1464. doi: 10.1111/anae.15560. Epub 2021 Aug 9. PMID: 34371522.
8. Maron RC, Hekler A, Krieghoff-Henning E, Schmitt M, **Schlager JG**, Utikal JS, Brinker TJ. Reducing the Impact of Confounding Factors on Skin Cancer Classification via Image Segmentation: Technical Model Study. *J Med Internet Res*. 2021 Mar 25;23(3):e21695. doi: 10.2196/21695. PMID: 33764307; PMCID: PMC8074854.
9. Höhn J, Krieghoff-Henning E, Jutzi TB, von Kalle C, Utikal JS, Meier F, Gellrich FF, Hobelsberger S, Hauschild A, **Schlager JG**, French L, Heinzerling L, Schlaak M, Ghoreschi K, Hilke FJ, Poch G, Kutzner H, Heppt MV, Haferkamp S, Sondermann W, Schadendorf D, Schilling B, Goebeler M, Hekler A, Fröhling S, Lipka DB, Kather JN, Krahl D, Ferrara G, Haggenmüller S, Brinker TJ.

Combining CNN-based histologic whole slide image analysis and patient data to improve skin cancer classification.  
Eur J Cancer. 2021 May;149:94-101. doi: 10.1016/j.ejca.2021.02.032. Epub 2021 Apr 7. PMID: 33838393.

10. COVIDSurg Collaborative; GlobalSurg Collaborative.  
Timing of surgery following SARS-CoV-2 infection: an international prospective cohort study. Anaesthesia. 2021 Jun;76(6):748-758. doi: 10.1111/anae.15458. Epub 2021 Mar 9. PMID: 33690889; PMCID: PMC8206995.
11. Hekler A, Kather JN, Krieghoff-Henning E, Utikal JS, Meier F, Gellrich FF, Upmeyer Zu Belzen J, French L, **Schlager JG**, Ghoreschi K, Wilhelm T, Kutzner H, Berking C, Heppt MV, Haferkamp S, Sondermann W, Schadendorf D, Schilling B, Izar B, Maron R, Schmitt M, Fröhling S, Lipka DB, Brinker TJ.  
Effects of Label Noise on Deep Learning-Based Skin Cancer Classification.  
Front Med (Lausanne). 2020 May 6;7:177. doi: 10.3389/fmed.2020.00177. PMID: 32435646; PMCID: PMC7218064.
12. Steeb T, **Schlager JG**, Kohl C, Ruzicka T, Heppt MV, Berking C.  
Laser-assisted photodynamic therapy for actinic keratosis: A systematic review and meta-analysis.  
J Am Acad Dermatol. 2019 Apr;80(4):947-956. doi: 10.1016/j.jaad.2018.09.021. Epub 2018 Sep 27. PMID: 30267719.
13. Heppt MV, Steeb T, **Schlager JG**, Rosumeck S, Dressler C, Ruzicka T, Nast A, Berking C.  
Immune checkpoint blockade for unresectable or metastatic uveal melanoma: A systematic review.  
Cancer Treat Rev. 2017 Nov;60:44-52. doi: 10.1016/j.ctrv.2017.08.009. Epub 2017 Aug 24. PMID: 28881222.

## Case-reports

1. **Schlager JG**, Hayani KM, Betke M, Wolff H.  
Prurigo pigmentosa [Prurigo pigmentosa].  
Hautarzt. 2020 Jul;71(Suppl 1):63-66. German. doi: 10.1007/s00105-020-04645-9. PMID: 32974721.
2. **Schlager JG**, Baev S, Anthuber M.  
Ein ungewöhnlicher Hauttumor in der Notaufnahme [An uncommon skin tumor in the emergency department].  
Chirurg. 2018 Nov;89(11):921-924. German. doi: 10.1007/s00104-018-0670-x. PMID: 29992356.

## Reviews

1. **Schlager JG**, Hartmann D, Kendziora B.  
Bakterielle Endokarditis und hämatogene Gelenkprotheseninfektion: Perioperative Antibiose in der Dermatochirurgie sinnvoll? Dermatologie (Heidelb). 2024 Jan;75(1):70. German. doi: 10.1007/s00105-023-05264-w. Epub 2023 Nov 22. PMID: 37991532.
2. **Justin Gabriel Schlager**, Daniela Hartmann, Benjamin Kendziora  
Surgical site infection and perioperative antibiotics in dermatosurgery  
Dermatologie (Heidelb). 2023 Nov;74(11):827-834. German. doi: 10.1007/s00105-023-05233-3. Epub 2023 Oct 12. PMID: 37823917.

3. Galina Balakirski, Sören L Becker, Daniela Hartmann, Lukas Kofler, Christian Kunte, Cornelia S L Müller, Thomas Volz, Benjamin Kendziora, **Justin Gabriel Schlager**, Christoph R Löser  
Perioperative antibiotic prophylaxis in skin surgery - Position paper of the Antibiotic Stewardship working group of the German Society for Dermatologic Surgery (DGDC), Part 2: Special indications and situations  
J Dtsch Dermatol Ges. 2023 Oct;21(10):1109-1117. doi: 10.1111/ddg.15153. Epub 2023 Jul 27. PMID: 37501398.
4. Christoph R Löser, Sören L Becker, Daniela Hartmann, Lukas Kofler, Christian Kunte, Cornelia S L Müller, **Justin Gabriel Schlager**, Galina Balakirski  
Perioperative antibiotic prophylaxis in skin surgery - Position paper of the Antibiotic Stewardship working group of the German Society for Dermatologic Surgery (DGDC), Part 1: Procedure- and patient-related risk factors  
J Dtsch Dermatol Ges. 2023 Sep;21(9):949-957. German. doi: 10.1111/ddg.14947\_g. PMID: 37700414.
5. Hauser K, Kurz A, Haggenmüller S, Maron RC, von Kalle C, Utikal JS, Meier F, Hobelsberger S, Gellrich FF, Sergon M, Hauschild A, French LE, Heinzerling L, **Schlager JG**, Ghoreschi K, Schlaak M, Hilke FJ, Poch G, Kutzner H, Berking C, Heppt MV, Erdmann M, Haferkamp S, Schadendorf D, Sondermann W, Goebeler M, Schilling B, Kather JN, Fröhling S, Lipka DB, Hekler A, Krieghoff-Henning E, Brinker TJ.  
Explainable artificial intelligence in skin cancer recognition: A systematic review.  
Eur J Cancer. 2022 May;167:54-69. doi: 10.1016/j.ejca.2022.02.025. Epub 2022 Apr 5. PMID: 35390650.
6. **Schlager JG**  
Wunden richtig beurteilen und behandeln [Assess and treat wounds accurately].  
Urologe A. 2022 Mar;61(3):309-310. German. doi: 10.1007/s00120-022-01801-y. Epub 2022 Feb 24. PMID: 35201366.
7. Haggenmüller S, Maron RC, Hekler A, Utikal JS, Barata C, Barnhill RL, Beltraminelli H, Berking C, Betz-Stablein B, Blum A, Braun SA, Carr R, Combalia M, Fernandez-Figueras MT, Ferrara G, Freitag S, French LE, Gellrich FF, Ghoreschi K, Goebeler M, Guitera P, Haenssle HA, Haferkamp S, Heinzerling L, Heppt MV, Hilke FJ, Hobelsberger S, Krahl D, Kutzner H, Lallas A, Liopyris K, Llamas-Velasco M, Malvey J, Meier F, Müller CSL, Navarini AA, Navarrete-Dechent C, Perasole A, Poch G, Podlipnik S, Requena L, Rotemberg VM, Saggini A, Sanguenza OP, Santonja C, Schadendorf D, Schilling B, Schlaak M, **Schlager JG**, Sergon M, Sondermann W, Soyer HP, Starz H, Stolz W, Vale E, Weyers W, Zink A, Krieghoff-Henning E, Kather JN, von Kalle C, Lipka DB, Fröhling S, Hauschild A, Kittler H, Brinker TJ.  
Skin cancer classification via convolutional neural networks: systematic review of studies involving human experts.  
Eur J Cancer. 2021 Oct; 156:202-216. doi: 10.1016/j.ejca.2021.06.049. Epub 2021 Sep 8. PMID: 34509059.
8. Höhn J, Hekler A, Krieghoff-Henning E, Kather JN, Utikal JS, Meier F, Gellrich FF, Hauschild A, French L, **Schlager JG**, Ghoreschi K, Wilhelm T, Kutzner H, Heppt M, Haferkamp S, Sondermann W, Schadendorf D, Schilling B, Maron RC, Schmitt M, Jutzi T, Fröhling S, Lipka DB, Brinker TJ.  
Integrating Patient Data Into Skin Cancer Classification Using Convolutional Neural Networks: Systematic Review.  
J Med Internet Res. 2021 Jul 2;23(7):e20708. doi: 10.2196/20708. PMID: 34255646; PMCID: PMC8285747.
9. Brinker TJ, **Schlager G**, French LE, Jutzi T, Kittler H.  
Computerassistierte Hautkrebsdiagnose: Wann kommt künstliche Intelligenz in der Praxis an? [Computer-assisted skin cancer diagnosis: Is it time for artificial intelligence in clinical practice?].  
Hautarzt. 2020 Sep;71(9):669-676. German. doi: 10.1007/s00105-020-04662-8. PMID: 32747996.

10. **Schlager JG**, Rosumeck S, Werner RN, Jacobs A, Schmitt J, Schlager C, Nast A. Topical treatments for scalp psoriasis: summary of a Cochrane Systematic Review. *Br J Dermatol.* 2017 Mar;176(3):604-614. doi: 10.1111/bjd.14811. Epub 2016 Oct 19. PMID: 27312814.

## Book chapters

1. Markus V. Heppt, **Gabriel Schlager** & Carola Berking  
Book Chapter 113: Epithelial Precancerous Lesions  
*Fitzpatrick's Dermatology*, 9. Edition, 2018

## Other publications

1. **Justin Gabriel Schlager**  
Lokalthherapie chronischer Wunden - ein Leitfadens für die klinische Praxis  
*DERMAforum* 2023
2. **Justin Gabriel Schlager**, Daniela Hartmann  
Wundheilungsstörungen – und wie man damit umgeht  
*State-of-the-Art Kompendien in der Dermatologie 2021*, Georg-Thieme Verlag
3. **Justin Schlager**, Anne Guertler, Klaus Bauer, Elke Sattler, Lars E. French, Daniela Hartmann  
Wundversorgung in der Hausarztpraxis  
*CME* 17, 59–74 (2020). <https://doi.org/10.1007/s11298-020-8000-2>
4. **Schlager G**, Schrempf M, Anthuber M.  
Präoperative Diät reduziert den Blutverlust bei Leberteilektomien [Preoperative diet reduces blood loss after liver surgery].  
*Chirurg.* 2019 Apr;90(4):324. German. doi: 10.1007/s00104-019-0808-5. PMID: 30725148.
5. Schmitt J, Deckert S, Alam M, Apfelbacher C, Barbaric J, Bauer A, Chalmers J, Chosidow O, Delamere F, Doney E, Eleftheriadou V, Grainge M, Johannsen L, Kottner J, Le Cleach L, Mayer A, Pinart M, Prescott L, Prinsen CA, Ratib S, **Schlager JG**, Sharma M, Thomas KS, Weberschock T, Weller K, Werner RN, Wild T, Wilkes SR, Williams HC.  
Report from the kick-off meeting of the Cochrane Skin Group Core Outcome Set Initiative (CSG-COUSIN)  
*Br J Dermatol.* 2016 Feb;174(2):287-95. doi: 10.1111/bjd.14337. Epub 2016 Jan 18. PMID: 26779929.