Sabine Eming

Personal Data

Title	Prof. Dr.
First name	Sabine
Name	Eming
Current position	Professor of Medicine, permanent
Current institution(s)/site(s), country	Dep. of Dermatology Faculty of Medicine, University of Cologne, Germany
Identifiers/ORCID	000-0001-8485-3921

Qualifications and Career

Stages	Periods and Details
Medical Doctoral Degree	1994, Prof. Michael G. Pfreundschuh, Internal Medicine/ Immunology, University of Saarland, Homburg, Germany
Medical School	1986–1992, University of Cologne, Germany

Stages of Academic/Professional Career

Associate Professor (W2)	2020–present, Associated Member, Institute of Zoology, Faculty of Mathematics and Natural Sciences, University of Cologne, Germany
Associate Professor (W2)	2009–present, University of Cologne, Germany
Specialization	2005, Board Certification for Phlebology 2003, Board Certification for Allergology 2000, Board Certification for Dermatology and Venerology
Habilitation	2004, Habilitation in Dermatology and Venerology, University Hospital Cologne, Germany
Assistant Professor	2003–2008, Dermatology, University Hospital Cologne, Germany
Resident	1996–2000, Prof. Thomas Krieg, Dermatology, University Hospital Cologne, Germany
Postdoctoral Fellow	1993–1996, Prof. Martin L. Yarmush and Prof. Jeffrey R. Morgan, Shriners Burns Institute, Harvard Medical School, Boston, MA, USA
Junior Research Fellow	1989–1990, Prof. Frank Dixon, Immunology, Scripps Research Foundation, La Jolla, CA, USA

Activities in the Research System

Institutional Responsibilities (selected)

2020–present	Vice Chair, Center for Molecular Medicine Cologne (CMMC), University of Cologne, Germany
2019–present	Head of Clinical Trial, Phase II, DupiMorph, University Hospital Cologne, Germany
2019–2023	Coordinator, Research Area 2 “Stress Response Mechanisms of Tissue-related and Interorgan Communication in Aging and Aging-associated Diseases”, CECAD Cluster of Excellence EXC 2030 (DFG) “Cellular Stress Responses in Aging-associated Diseases”, University of Cologne, Germany
2015–present	Member, Budget and Strategy Committee, University of Cologne, Germany

2011–present	Executive Board Member, Center for Molecular Medicine Cologne (CMMC), University of Cologne, Germany
2011–2015	Coordinator, Research Network (BioNRW funding program) “Tissue Regeneration: from model organisms to therapy”, University of Cologne, Germany
2010–2020	Member, Doctoral Committee, University of Cologne, Germany
2006–2010	Member, Habilitation Committee, University of Cologne, Germany

Service to the Scientific Community (selected)

2024–2028	Secretary, International Societies for Investigative Dermatology (ISID)
2023–present	Scientific Program Committee Member, 53. Annual ESDR Meeting, Lisbon, Portugal
2023	Scientific Program Committee Member, Inaugural Meeting of International Societies for Investigative Dermatology, Tokyo, Japan
2023	Scientific Program Committee Member, 52. DDG Jahrestagung, Berlin, Germany
2022–present	President and Board Member, European Society for Dermatological Research (ESDR)
2022–2024	Member, Board of Directors, International Societies for Investigative Dermatology (ISID)
2022	Chair, ESDR Academy for Future Leaders in Dermatology, Valencia, Spain
2022	Scientific Program Committee Member, 51. Annual ESDR Meeting, Amsterdam, The Netherlands
2022	Co-Organizer, The ISRB Regeneration Around the World Meeting (virtual)
2021	Scientific Program Committee Member, 50. Annual ESDR Meeting (virtual)
2020–2023	Member, DFG Fachkollegium “Medicine”, Bonn, Germany
2020–2023	Co-Founder, International Society for Regenerative Biology (ISRB)
2017	Chair, 33. Ernst-Klenk Symposium, CMMC, Cologne, Germany
2014	Chair, 41. Annual ADF Meeting, Cologne, Germany
2013	Chair, Gordon Research Conference, Tissue Repair Regeneration, New London, NH, USA
2012–2015	President, Arbeitsgemeinschaft Dermatologische Forschung (ADF), Berlin, Germany
2011	Vice Chair, Gordon Research Conference, Tissue Repair Regeneration, New London, NH, USA
2009–2011	President, European Tissue Repair Society (ETRS)

Scientific Results

Category A

Injarabian, L., Willenborg, S., Welcker, D., Sanin, D.E., Pasparakis, M., Kashkar, H., and **Eming, S.A.** (2024). FADD- and RIPK3-mediated cell death ensures clearance of Ly6C^{high} wound macrophages from damaged tissue. **J Invest Dermatol** *144*:152–164. doi: 10.1016/j.jid.2023.06.203. (open access)

Sanin, D.E.[#], Ge, Y., Marinkovic, E., Kaba, A.M., Castoldi, A., Caputa, G., Grzes, K.M., Curtis, J.D., Willenborg, S., Dichtl, S., Dahl, A., Pearce, E.L.[#], **Eming, S.A.[#],** Gerbaulet, A.[#], Roers, A.[#], Murray, P.J.[#], and Pearce, E.J.[#] (2022). A common framework of monocyte-derived macrophage activation. **Sci Immunol** *7*:eabl7482. doi: 10.1126/sciimmunol.abl7482. (open access)

Willenborg, S., Sanin, D.E., Jais, A., Ding, X., Ulas, T., Nuchel, J., Popovic, M., MacVicar, T., Langer, T., Schultze, J.L., Gerbaulet, A., Roers, A., Pearce, E.J., Brüning, J.C., Trifunovic, A., and **Eming, S.A.** (2021). Mitochondrial metabolism coordinates stage-specific repair processes in macrophages during wound healing. **Cell Metab** *33*:2398–2414. doi: 10.1016/j.cmet.2021.10.004. (open access)

Ding, X., Willenborg, S., Bloch, W., Wickström, S.A., Wagle, P., Brodesser, S., Roers, A., Jais, A., Brüning, J.C., Hall, M.N., Rüegg, M.A., and **Eming, S.A.** (2020). Epidermal mTORC2 controls lipid synthesis and filaggrin processing in epidermal barrier formation. **J Allergy Clin Immunol** *145*:283–300. doi: 10.1016/j.jaci.2019.07.033.

Kim, C.S.*, Ding, X.*, Allmeroth, K., Biggs, L.C., Kolenc, O.I., L'Hoest, N., Chacón-Martínez, C.A., Edlich-Muth, C., Giavalisco, P., Quinn, K.P., Denzel, **Eming, S.A.**#, and Wickström, S.A.# (2020). Glutamine metabolism controls stem cell fate reversibility and long-term maintenance in the hair follicle. **Cell Metab** *32*:629–642.e8. doi: 10.1016/j.cmet.2020.08.011. (open access)

Schiffmann, L.M.*, Werthenbach, J.P.*, Heintges-Kleinhofer, F., Seeger, J.M., Fritsch, M., Günther, S.D., Willenborg, S., Brodesser, S., Lucas, C., Jüngst, C., Albert, M.C., Schorn, F., Witt, A., Moraes, C.T., Bruns, C.J., Pasparakis, M., Krönke. M., **Eming, S.A.**, Coutelle, O., and Kashkar, H. (2020). Mitochondrial respiration controls neoangiogenesis during wound healing and tumour growth. **Nat Commun** *11*:3653–3666. doi: 10.1038/s41467-020-17472-2. (open access)

Ding, X., Bloch, W., Iden, S., Rüegg, M.A., Hall, M.N., Leptin, M., Partridge, L., and **Eming, S.A.** (2016). mTORC1 and mTORC2 regulate skin morphogenesis and epidermal barrier formation. **Nat Commun** 7:1–15. doi: 10.1038/ncomms13226. (open access)

Jais, A.*, Solas, M.*, Backes, H., Chaurasia, B., Kleinridders, A., Theurich, S., Mauer, J., Steculorum, S.M., Hampel, B., Goldau, J., Alber, J., Förster, C.Y., **Eming, S.A.**, Schwaninger, M., Ferrara, N., Karsenty, G., and Brüning, J.C. (2016). Myeloid-cell-derived VEGF maintains brain glucose uptake and limits cognitive impairment in obesity. **Cell** *165*:882–895. doi: 10.1016/j.cell.2016.08.010.(open access)

Kakanj, P., Moussian, B., Grönke, S., Bustos, V., **Eming, S.A.**, Partridge, L.#, and Leptin, M.# (2016). Insulin and TOR signal in parallel through FOXO and S6K to promote epithelial wound healing. **Nat Commun** *7*:1–16. doi: 10.1038/ncomms12972. (open access)

Knipper, J.A.*, Willenborg, S.*, Brinckmann, J., Bloch, W., Maaß, T., Wagener, R., Krieg, T., Sutherland, T., Munitz, A., Rothenberg, M.E., Niehoff, A., Richardson, R., Hammerschmidt, M., Allen, J.E., and **Eming, S.A.** (2015). Interleukin-4 receptor α signaling in myeloid cells controls collagen fibril assembly in skin repair. **Immunity** *43*:803–816. doi: 10.1016/j.immuni.2015.09.005. (open access)

* *shared first authorship,* # *shared corresponding authorship*

Category B

Preprints, Reviews, and Commentaries (Non-peer-reviewed, selected)

Ding, X., Kakanj., P., Leptin, M., and **Eming, S.A.** (2021). Regulation of the wound healing response during aging. **J Invest Dermatol** *141*:1063–1070. doi: 10.1016/j.jid.2020.11.014. (open access)

Eming, S.A.#, Murray, P.J.#, and Pearce, E.J.# (2021). Metabolic orchestration of the wound healing response. **Cell Metab** *7*:1726–1743. doi: 10.1016/j.cmet.2021.07.017. (open access)

Eming, S.A.#, Wynn, T.A.#, and Martin, P.# (2017) Inflammation and metabolism in tissue repair and regeneration. **Science** *9*:1026–1030. doi: 10.1126/science.aam7928.

Eming, S.A.#, Martin, P.#, andTomic-Canic, M.# (2014). Wound repair and regeneration: mechanisms, signaling, and translation. **Sci Transl Med** *3*:265sr6. doi: 10.1126/scitranslmed.3009337.

Books and Book Chapters

Eming, S.A., McGraw-Hill. Associated Editor (in press). Fitzpatrick's Dermatology in General Medicine**,** 10th Edition.

Academic Distinctions

2020	Elected Member, Leopoldina (German National Academy of Sciences)
2019	Alfred-Marchionini-Research Award
2017	Oscar Gans Prize, Deutsche Dermatologische Gesellschaft (DDG)
2013	Science Award, Berlin Foundation for Dermatology (BSD), Germany
2007	Victor von Bruns Award, German Wound Healing Society (DGfW)
2005	Young Investigator Award, European Tissue Repair Society (ETRS)
2004	Best Patent Application Award, North Rhine-Westphalia Universities, Germany
1994–1996	Scholarship, DFG
1993–1994	Scholarship, Fritz Thyssen Stiftung, Cologne, Germany 1989–
1990	Scholarship, Scripps Research Foundation, La Jolla, CA, USA