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# Curriculum Vitae Personal Data

Title	Dr. (M.D., Ph.D.)
First name	Rald
Name	Groven
Current position	Surgical Resident
Current institution(s)/site(s),	Department of Orthopedic, Trauma- and Reconstructive
country	Surgery, RWTH Aachen University Hospital, Aachen,
	Germany
Identifiers/ORCID	0000-0001-8733-289X

## **Qualifications and Career**

Stages	Periods and Details
Degree programme	Bachelor and Master of Medicine (cum laude),
	2017 – 2023, Maastricht University, Maastricht, The
	Netherlands
	Bachelor of Biomedical Sciences, 2016 - 2019
	Maastricht University, Maastricht, The Netherlands
Doctorate (Ph.D.)	Ph.D. in Trauma Surgery and Regenerative
	Medicine, 2020 - 2024, MERLN Institute for
	Technology Inspired Regenerative Medicine,
	Maastricht University, Maastricht, The Netherlands
Stages of academic/professional	<b>Surgical Residency</b> , Department of Orthopedic,
career	Trauma- and Reconstructive Surgery, 2024 –
	present, RWTH Aachen University Hospital,
	Aachen, Germany
	Ph.D. Candidate, 2020 - 2024, Maastricht
	University, Maastricht, The Netherlands
	Electives and observerships,
	- Mar 2025, Trauma and Acute Care Surgery,
	University Hospital Chicago, Chicago, IL (Prof.
	Dr. S.O. Rogers)
	- Feb 2023 – May 2023, Traumatology
	Department, University Hospital Zurich, Zurich,
	Switzerland (Prof. Dr. Hans-Christoph Pape)

# **Activities in the Research System**

# A) Reviewer Activities:

- Langenbeck's Archives of Surgery
- European Journal of Trauma and Emergency Surgery
- Journal of Orthopaedic Surgery and Research
- European Journal of Medical Research

# B) Memberships:

- German Surgical Society, Section of Surgical Science
- Deutsche Gesellschaft für Orthopädie und Unfallchirurgie
- European Society for Trauma and Emergency Surgery

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#### Dutch Trauma Association

## C) Supervision of Researchers in Early Career Phases:

Tutoring courses in the fields of biomedical sciences and medicine as well as >10 supervisions of early career students and scientists (Internships, B.Sc., M.Sc., Dr. med. Theses) in interdisciplinary fields including biology, biotechnology, biomedical engineering, and medicine.

### **Scientific Results**

## Category A

- 1. Fangzhou Lu, Rald VM Groven, Dennis M Meesters, Albert Bitorina, Martijn Poeze, Shan Tang, Martijn van Griensven, Taco J Blokhuis, Ronit Shiri-Sverdlov. Cathepsin D and G expression correlates with human fracture healing phases and specific neutrophil N1 and N2 phenotypes. Bone. 2025; 199: 117574. doi: 10.1016/j.bone.2025.117574
- 2. Rald VM Groven, Ümit Mert, Johannes Greven, Klemens Horst, Virginie Joris, Lara Bini, Martijn Poeze, Taco J Blokhuis, Markus Huber-Lang, Frank Hildebrand, Martijn van Griensven. Early total care and damage control orthopedics result in partially contrasting microRNA expression patterns at the fracture site and in the systemic circulation. The Bone and Joint Journal. 2025; 107 (2): 193-203. doi: 10.1302/0301-620X.107B2
- 3. Ümit Mert, Rald VM Groven, Johannes Greven, Zhizhen He, Mohamad Agha Mahmoud, Martijn van Griensven, Markus Huber-Lang, Tom Eirik Mollnes, Elizabeth Rosado Balmayor, Klemens Horst, Frank Hildebrand. Damage Control Orthopaedics Induced Less Trauma-Induced Coagulopathy than Early Total Care in a Porcine Polytrauma Model. European Surgical Research. 2024: 65 (1); 115-22. DOI: 10.1159/000541399
- 4. Nan Zhou, Rald VM Groven, Klemens Horst, Ümit Mert, Johannes Greven, Tom Eirik Mollnes, Markus Huber-Lang, Martijn van Griensven, Frank Hildebrand, Elizabeth R. Balmayor. Pulmonary miRNA expression after polytrauma depends on the surgical invasiveness and displays an anti-inflammatory pattern by the combined inhibition of C5 and CD14. Frontiers in immunology. 2024: 15; 1402571. DOI: 10.3389/fimmu.2024.1402571
- **5. Rald VM Groven**, Christel Kuik, Johannes Greven, Ümit Mert, Freek G Bouwman, Martijn Poeze, Taco J Blokhuis, Frank Hildebrand, Berta Cillero-Pastor, Martijn van Griensven. Fracture hematoma proteomics. **Bone and Joint Research.** 2024: 13(5); 214-25. DOI: 10.1302/2046-3758.135.BJR-2023-0323.R1
- 6. Fangzhou Lu, Rald VM Groven, Martijn van Griensven, Martijn Poeze, Jan AP Geurts, Shan S Qiu, Taco J Blokhuis. Polytherapy versus monotherapy in the treatment of tibial non-unions: a retrospective study. Journal of Orthopaedics and Traumatology. 2024: 25(1); DOI: 10.1186/s10195-024-00763-5
- 7. Rald VM Groven, Johannes Greven, Ümit Mert, Klemens Horst, Qun Zhao, Taco Johan Blokhuis, Markus Huber-Lang, Frank Hildebrand, Martijn van Griensven. Circulating miRNA expression in extracellular vesicles is associated with specific injuries after multiple trauma and surgical invasiveness. Frontiers in Immunology. 2023: 14; 1273612. doi: 10.3389/fimmu.2023.1273612
- Rald VM Groven, Job T Blokhuis, Martijn Poeze, Martijn van Griensven, Taco J Blokhuis. Surgical suction filter derived bone graft displays osteogenic miRNA and mRNA patterns. European Journal of Trauma and Emergency Surgery. 2023: 1-12. doi: 10.1007/s00068-023-02350-5
- Rald VM Groven, Carlos J Peniche Silva, Elisabeth R Balmayor, Bart NJ van der Horst, Martijn Poeze, Taco J Blokhuis, Martijn van Griensven. Specific miRNAs are associated with fracture healing phases, patient age and multi-trauma. Journal of Orthopaedic Translation. 2022: 37; 1-11. doi: 10.1016/j.jot.2022.07.002
- 10. Rald VM Groven, Sylvia P Nauta, Jane Gruisen, Britt SR Claes, Johannes Greven, Martijn van Griensven, Martijn Poeze, Ron MA Heeren, Tiffany Porta-Siegel, Berta Cillero-Pastor, Taco J Blokhuis. Specific lipids are associated to bone fracture healing over time: lipid analysis of fracture hematoma with MALDI-MSI. Frontiers in Chemistry. 2022: (9). doi: 10.3389/fchem.2021.780626

#### **Academic Distinctions**

**Best oral presentation**, ESTES Euroscience Contest, 24th European Congress of Trauma and Emergency Surgery, Aachen, Germany

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2025	Best European Resident Trauma Paper of ATLS Region 15, American College of
	Surgeons, 100th Committee on Trauma and ATLS annual meeting, Chicago, USA.
2024	Nominated for the German Society for Orthopaedics and Trauma Wilhelm Roux
	award, German Congress for Orthopaedics and Traumatology, Berlin, Germany
2024	DGOU OUMN Publication prize, German Society for Orthopaedics and Trauma, Berlin,
	Germany.
2022	Travel grant & best oral presentation, 17th Biennial Meeting of the Orthopaedic
	Research Society and the International Section of Fracture Repair, Edinburgh, United
	Kingdom.
2022	Best Poster Prize, 17th Biennial Meeting of the Orthopaedic Research Society and the
	International Section of Fracture Repair, Edinburgh, United Kingdom.
2022	Best Poster Prize, 21st European Congress of Trauma and Emergency Surgery, Oslo,
	Norway.
2022 - 2024	University fund Limburg research grant (€15,050), Maastricht University, Maastricht
	University

### Data protection and consent to the processing of optional data

If you provide voluntary information (marked as optional) in this CV, your consent is required. Please confirm your consent by checking the box below.

[x] I expressly consent to the processing of the voluntary (optional) information, including "special categories of personal data" in connection with the DFG's review and decision-making process regarding my proposal. This also includes forwarding my data to the external reviewers, committee members and, where applicable, foreign partner organisations who are involved in the decision-making process. To the extent that these recipients are located in a third country (outside the European Economic Area), I additionally consent to them being granted access to my data for the above-mentioned purposes, even though a level of data protection comparable to EU law may not be guaranteed. For this reason, compliance with the data protection principles of EU law is not guaranteed in such cases. In this respect, there may be a violation of my fundamental rights and freedoms and resulting damages. This may make it more difficult for me to assert my rights under the General Data Protection Regulation (e.g. information, rectification, erasure, compensation) and, if necessary, to enforce these rights with the help of authorities or in court.

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<sup>1</sup> Special categories of personal data are those "revealing racial or ethnic origin, political opinions, religious or philosophical beliefs, or trade union membership, and (...) genetic data, biometric data for the purpose of uniquely identifying a natural person, data concerning health or data concerning a natural person's sex life or sexual orientation" (Article 9(1) GDPR).