

Prof. Dr. med. Kalliopi Pitarokoili



Professor, Ruhr-University Bochum, Germany
Ass. Professor, Neurological department, University of Crete
Board-certified neurologist
Born February 25th, 1983, Heraklion, Crete, Greece, Greek, single
Department of Neurology, Ruhr-University Bochum (RUB)
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<https://www.klinikum-bochum.de/fachbereiche/neurologie/zentren-labore/forschungszentrum-neuroimmunologisches.html>

Academic Education

Medical school

2000-2006 Medical degree, Medical Faculty of the University of Crete, Greece
Overall score: 8,17 'very good'

2006-2008 Master Programm "Medical Neurosciences" Medical Faculty of the University of Crete, Overall score: 9,4 'excellent'

Master Thesis Cecilie-Vogt Clinic for Neurology, Neurosciences Research Center (NWFZ), Institute of Neuroimmunology Charité University Medical Center, Berlin, Germany, Dr. rer. Nat. Carmen Infante-Duarte, Prof. Dr. med. Frauke Zipp

Academic Degrees

Doctoral thesis

2013-2016 Distinction: *Magna cum laude*
Neuroimmunological laboratory Ruhr-University Bochum, Center for Clinical Research

Supervisor: Prof. Dr. R. Gold
Title: Laquinimod exerts strong clinical and immunomodulatory effects in Lewis rat experimental autoimmune neuritis

2020 Assistant Professor for Neurology, Ruhr-University Bochum, Germany
2025 Assistant Professor for Neurology, University of Crete, Greece

Academic career

2015 - present	<u>Basic research</u> Group leader: Immunomodulatory and neuroprotective mechanisms in peripheral immune neuropathies, Neuroimmunological laboratory of the Ruhr-University Bochum, Center for Clinical Research <u>Clinical research:</u> Nerve ultrasound for autoimmune neuropathies, Group leader since 2018
2019	Foundation of INHIBIT (Immune-mediated neuropathies Biomaterial and data register)

	<p>patient registry for immune mediated neuropathies</p> <p>doi: 10.1111/ene.14476</p> <p>doi: 10.1186/s42466-020-00088-8</p> <p>doi: 10.1111/ene.14716</p> <p>doi: 10.1111/ene.14759</p>
02.2020	Ass. – Prof. for Neurology (Privatdozentin)
01.2021 – 05.2026	Coordinator of educational program of medical students in St Josef Hospital, Neurology (5.,6.,7. semester, Practical Year, Hospitation - Famulatur)
01.2021 - present	<p>Foundation and coordination of 'Neuritis-Network' German Network for peripheral immune-mediated neuropathies (20 centers in Germany) with national and international cooperations for clinical and basic research,</p> <p>doi: 10.1007/s00115-022-01377-0</p> <p>doi: 10.3389/fneur.2023.1330484</p>
01/2023 - present	Coordination of the scientific board for the German guidelines for immune-mediated neuropathies, diagnosis and treatment together with Prof. Claudia Sommer, University Clinic Würzburg
03/2026 - present	Scientific Board for German Guidelines for pregnancy, breastfeeding and fertility for neuroimmunological diseases

Clinical career

09.2008 - 06.2009	Assistant physician, internal medicine Ierapetra, Crete, Greece (9 months)
09.2009 – 02.2010	Assistant physician, Psychiatry , Psychiatric Hospital Leros, Dodecanese, Greece (6 months)
04.2010 – 04.2015	Assistant physician, Neurology , St. Josefs Hospital, Bochum, Germany Director: Prof. Dr. med. Ralf Gold
04.2015	Senior physician, Neurology , St. Josefs Hospital, Bochum, Germany Director: Prof. Dr. med. Ralf Gold
05.2016	License for nerve conduction studies , Prof. Dr. med. H. Buchner, Knappschafts Krankenhaus, Recklinghausen
04.2015 - present	Senior consultant, Neurology , St. Josef Hospital, Bochum, Germany Director: Prof. Dr. med. Ralf Gold 04.2015 – 08.2016 Senior leader physician Stroke Unit
01.2018 - present	- Head of the inpatient clinical department and outpatient clinic for neuroimmunological PNS diseases

02.2019 - 12.2024	Managing director of the neurological department, St Josef-Hospital, Bochum
01.2025 - 20.05.2026 (sabbatical)	Leading Director of the neurological department, St Josef-Hospital, Bochum
21.05.2025 - present	Senior consultant Neurology , University of Crete

Awards and honors

State Organization for Scholarships: Prize for the best academic achievement in the Faculty of Medicine of the University of Crete	2001-2002
State Organization for Scholarships: Prize for the best academic achievement in the Faculty of Medicine of the University of Crete	2002-2003
Scholarship 'Christina Spyraiki' from the University of Crete for the best academic achievement in the first year of the Master's degree in medical neurosciences	2006-2007
International Federation of Clinical Electrophysiology 'Young Investigators Award	2014
Interlaken Leadership Awards (CSL Behring) Project: Effects of intrathecal application of human immunoglobulins on EAN Model in Rats as opposed to intravenous application of Igs on clinical, electrophysiological and histological grounds.	2015
Hermann-Fabry Förderpreis: First prize of the medical society Bochum for the medical dissertation with topic 'Laquinimod exerts strong clinical and immunomodulatory effects in Lewis rat experimental autoimmune neuritis'	2016
Arnold-Haarmann Preis German GBS/ CIDP initiative e.V.	2018
GBS-CIDP International Foundation – Clinical study on the effects of Propionate in CIDP	2021
Biomarkers in CIDP – LFB Foundation	2022

Memberships

German Society of Neurology (DGN)
German Society of Clinical Neurophysiology and Functional Imaging (DGKN)
Peripheral Nerve Association (PNS)
European Academy of Neurology (EAN)
German Society of Ultrasound in Medicine (DEGUM)
International Graduate School of Neuroscience (IGSN)
Greek Neurological Organisation
Greek Neuroimmunological organisation

Clinical studies (selection)

Ofatumumab for multiple sclerosis, CBAF312A2304, Principal Investigator (2018)
Siponimod for multiple sclerosis, NCT01665144, Principal Investigator (2019)
Efgartigimod for CIDP ARGX-1802, ARGX-1902, Principal Investigator (2022)
Efgartigimod for MMN ARGX-117-2002, Principal Investigator (2022)
Batoclimab for CIDP IMVT-1401: Principal investigator (2023)

Nipocalimab for CIDP Janssen: Principal investigator (2023)

HyQVIA for CIDP (TAKEDA): Principal Investigator (2025)

Ig20Pro for post-COVID PoTs (CSL Behring): Principal Investigator (2025)

Sub-investigator in further 5 studies for Myasthenia gravis and 2 Studies for Multiple sclerosis

Last GCP Training 10.2025

Committees and further activities (selection)

Since 2023 Co-Head of the commission of the German Neurological Society on the development of guidelines for diagnostics and treatment of polyneuropathies

Since 2025 Member of commission of the German Neurological Society on the development of guidelines for pregnancy, breastfeeding for neuroimmunological diseases

Medical Books

- Klinische Neurologie Berlitz »Ultraschalldiagnostik der peripheren Nerven« doi:10.1007/978-3-662-44768-0_18-1)
- Autoimmune Diseases (Chapter: Encephalomyelopathies) Editors: Ian Mackay Noel R Rose
- Sturm, Biesalski, Höffken Neurologische Pathophysiologie, Springer Verlag
- Polyneuropathie , Diagnostik und Therapie, Lehmann, Grishold, 2022, Kohlhammer (Verlag) 978-3-17-039170-3 (ISBN)

Research profile

The focus of my research is the investigation of the mechanisms of demyelination and axonal degeneration in the context of the diseases of the peripheral nervous system. On the one hand my research group is investigating during the past 14 years the immunological mechanisms of inflammation and degeneration using immunohistochemistry, flow cytometry, genetic analyses in a variety of models of demyelinating inflammatory, axonal and hereditary neuropathies. We focus also on small non-myelinating pain fibers using skin biopsies, histological corneal analyses and analyses of the enteric nervous system. On the other hand, in a translational basis I founded and lead the registry for patients with polyneuropathies (INHIBIT – Immune-mediated Neuropathies Biomaterial and Data-Registry). Through a variety of methods focusing on large (nerve conduction studies, nerve and muscle ultrasound) as well as small (corneal confocal microscopy, skin biopsy) nerve fibers and the biobank of the registry (disease markers, immunological and antibody analyses) we investigate parallel mechanisms in human disease. I hold a leading position and works together with further scientists in Germany for research and treatment for immune-mediated neuropathies (Neuritis-Netz, BioNerv II). My goal is the characterization of the immunological background of each patient (personalized medicine) in order to apply more specific immunomodulatory treatment for inflammation, demyelination, remyelination and axonal protection.

10 selected publications

1. Sgodzai M, Klöster K, Karakaya H, Didhevar P, Horstkemper L, Rilke N, Demir S, Klimas R, Pedreituria X, Blusch A, Bohle J, Groß J, Kautzner D, Walke D, Heinzen J, Sarpong B, Toben C, Fisse AL, Grüter T, Faissner A, Motte J, Nitschke L, Hünig T, Gold R, Pitarokoili K. Tipping the balance: the PD1-axis as modulator in chronic inflammatory demyelinating polyneuropathy. *Brain*. 2025 Aug 16:awaf304. doi: 10.1093/brain/awaf304. Epub ahead of print. PMID: 40817835.
2. Habib M, Wiessler AL, Fischer P, Niesner M, Selcho M, Abrante L, Werner C, Sodmann A, Koch M, Zare A, Prüss H, Dargvainiene J, Lewerenz J, Handreka R, Körtvelyessy P, Reinhold D, Thaler FS, **Pitarokoili K**, Kittel RJ, Briese M, Sendtner M, Rittner H, Leypoldt F, Sommer C, Blum R, Doppler K, Villmann C. Neuropathic Pain and Distinct CASPR2 Autoantibody IgG Subclasses Drive Neuronal Hyperexcitability. *Neurol Neuroimmunol Neuroinflamm*. 2025 Jul;12(4):e200423. doi: 10.1212/NXI.000000000200423. Epub 2025 Jun 25. PMID: 40561371; PMCID: PMC12202018.
3. Motte J, Klimas R, Sgodzai M, Schücke C, Wunsch F, Schmitz E, Rehm A, Mika T, Fisse AL, Borie D, Mougikakos D, Haghikia A, **Pitarokoili K**, Schroers R, Gold R. CD19-targeted CAR T-cell therapy for treatment-refractory autoimmune neuropathies. *Lancet Neurol*. 2025 Jul;24(7):564-566. doi: 10.1016/S1474-4422(25)00199-1. PMID: 40541202.

4. Klimas R, Kohle F, Horstkemper L, Benkert P, Rehm A, Seibert A, Riesner M, Sgodzai M, Grüter T, Rilke N, Gisevius B, Beyer L, Gerwert K, Kuhle J, Schroeter M, Lehmann HC, Gold R, Fisse AL, Motte J, **Pitarokoili K**. Serum Neurofilament. Light Chain as a Biomarker for CIDP Diagnosis, Severity, and Treatment Outcome. *Neurol Neuroimmunol Neuroinflamm*. 2025 Jul;12(4):e200419. doi: 10.1212/NXI.0000000000200419. Epub 2025 Jun 5. PMID: 40472292; PMCID: PMC12153944.
5. Grüter T, Mohamad N, Rilke N, Blusch A, Sgodzai M, Demir S, Pedreiturria X, Lemhoefer K, Gisevius B, Haghikia A, Fisse AL, Motte J, Gold R, **Pitarokoili K**. Propionate exerts neuroprotective and neuroregenerative effects in the peripheral nervous system. *Proc Natl Acad Sci U S A*. 2023 Jan 24;120(4):e2216941120. doi: 10.1073/pnas.2216941120. Epub 2023 Jan 20. PMID: 36669102; PMCID: PMC9942889.
6. Mork H, Motte J, Fisse AL, Grüter T, Brünger J, Stoykova Z, Bulut Y, Athanasopoulos D, Sturm D, Tegenthoff M, Gold R, Enax-Krumova E, **Pitarokoili K**. Prevalence and determinants of pain in chronic inflammatory demyelinating polyneuropathy: Results from the German INHIBIT registry. *Eur J Neurol*. 2022 Jul;29(7):2109-2120. doi: 10.1111/ene.15341. Epub 2022 Apr 12. PMID: 35357725.
7. Martín-Aguilar L, Lleixà C, Pascual-Goñi E, Caballero-Ávila M, Martínez-Martínez L, Díaz-Manera J, Rojas-García R, Cortés-Vicente E, Turon-Sans J, de Luna N, Suárez-Calvet X, Gallardo E, Rajabally Y, Scotton S, Jacobs BC, Baars A, Cortese A, Vegezzi E, Höftberger R, Zimprich F, Roesler C, Nobile-Orazio E, Liberatore G, Hiew FL, Martínez-Piñeiro A, Carvajal A, Piñar-Morales R, Usón-Martín M, Albertí O, López-Pérez MÁ, Márquez F, Pardo-Fernández J, Muñoz-Delgado L, Cabrera-Serrano M, Ortiz N, Bartolomé M, Duman Ö, Bril V, Segura-Chávez D, **Pitarokoili K**, Steen C, Illa I, Querol L. Clinical and Laboratory Features in Anti-NF155 Autoimmune Nodopathy. *Neurol Neuroimmunol Neuroinflamm*. 2021 Nov 2;9(1):e1098. doi: 10.1212/NXI.000000000001098.
8. Klimas R, Sgodzai M, Motte J, Mohamad N, Renk P, Blusch A, Grüter T, Pedreiturria X, Gobrecht P, Fischer D, Schneider-Gold C, Reinacher-Schick A, Tannapfel A, Yoon MS, Gold R, **Pitarokoili K**. Dose-dependent immunomodulatory effects of bortezomib in experimental autoimmune neuritis. *Brain Commun*. 2021 Oct 9;3(4):fcab238. doi: 10.1093/braincomms/fcab238. PMID: 34708206; PMCID: PMC8545613.
9. **Pitarokoili K**, Bachir H, Sgodzai M, Grüter T, Hauptelshofer S, Duscha A, Pedreiturria X, Motte J, Gold R. Induction of Regulatory Properties in the Intestinal Immune System by Dimethyl Fumarate in Lewis Rat Experimental Autoimmune Neuritis. *Front Immunol*. 2019 Sep 10;10:2132. doi: 0.3389/fimmu.2019.02132. PMID: 31552056; PMCID: PMC6746892.
10. **Pitarokoili K**, Kronlage M, Bäumer P, Schwarz D, Gold R, Bendszus M, Yoon MS. High-resolution nerve ultrasound and magnetic resonance neurography as complementary neuroimaging tools for chronic inflammatory demyelinating polyneuropathy. *Ther Adv Neurol Disord*. 2018 Mar 5;11:1756286418759974. doi: 10.1177/1756286418759974. PMID: 29552093; PMCID: PMC5846906.

Training of early career researchers (medical students):

Name	Period	Title - Publication	Current position
Sean Fiegert	2021-2023	Fisse AL, Fiegert S, Stoykova Z, Brünger J, Athanasopoulos D, Grüter T, Motte J, Gold R, Pitarokoili K. Increased muscle echointensity correlates with clinical disability and muscle strength in chronic inflammatory demyelinating polyneuropathy. <i>Eur J Neurol</i> . 2021 May;28(5):1698-1705. doi: 10.1111/ene.14716. Epub 2021 Jan 27. PMID: 33404183.	MD
Diamantis Athanasopoulos	2020-2022	Athanasopoulos D, Motte J, Grüter T, Köse N, Yoon MS, Otto S, Schneider-Gold C, Gold R, Fisse AL, Pitarokoili K. Evaluation of the EFNS/PNS diagnostic criteria in a cohort of CIDP patients. <i>Ann Clin Transl Neurol</i> . 2021 May;8(5):1110-1121. doi: 10.1002/acn3.51357. Epub 2021 Apr 7. PMID: 33826247; PMCID: PMC8108415.	MD
Hannah Mork	2020-2021	Mork H, Motte J, Fisse AL, Grüter T, Brünger J, Stoykova Z, Bulut Y, Athanasopoulos D, Sturm D, Tegenthoff M, Gold R, Enax-Krumova E, Pitarokoili K. Prevalence and determinants of pain in chronic inflammatory demyelinating polyneuropathy: Results from the German INHIBIT registry. <i>Eur J Neurol</i> . 2022 Jul;29(7):2109-2120. doi: 10.1111/ene.15341. Epub 2022 Apr 12. PMID: 35357725.	MD

Yesim Bulut	2020-2021	Grüter T, Motte J, Bulut Y, Kordes A, Athanasopoulos D, Fels M, Schneider-Gold C, Gold R, Fisse AL, Pitarokoili K. Axonal damage determines clinical disability in chronic inflammatory demyelinating polyradiculoneuropathy (CIPD): A prospective cohort study of different CIPD subtypes and disease stages. <i>Eur J Neurol.</i> 2022 Feb;29(2):583-592. doi: 10.1111/ene.15156. Epub 2021 Nov 13. PMID: 34687104.	MD candidate
Jil Brünger	2020-2021	Brünger J, Motte J, Grüter T, Mork H, Bulut Y, Carolus A, Athanasopoulos D, Yoon MS, Gold R, Pitarokoili K, Fisse AL. Nerve Ultrasound Distinguishes Non-Inflammatory Axonal Polyneuropathy From Inflammatory Polyneuropathy With Secondary Axonal Damage. <i>Front Neurol.</i> 2022 Jan 28;12:809359. doi: 10.3389/fneur.2021.809359. PMID: 35153986; PMCID: PMC8831897.	MD candidate
Anna Kordes	2020-2021	Klimas R, Kordes A, Huckemann S, Gasz Z, Philipps J, Sgodzai M, Grüter T, Sevindik M, Schneider-Gold C, Gold R, Keyvani K, Yoon MS, Fisse AL, Pitarokoili K, Motte J. The multiple roles of nerve biopsy in the diagnosis and prognosis of suspected immune neuropathies. <i>J Neurol.</i> 2024 Aug;271(8):5109-5121. doi: 10.1007/s00415-024-12456-4. Epub 2024 May 29. PMID: 38811396; PMCID: PMC11319532.	MD
Marie Spenner	2021-2023	Untersuchung der Größenhomogenität und Echogenität von Nerven und Faszikeln im Nervenultraschall bei verschiedenen Subgruppen der chronisch inflammatorischen demyelinisierenden Polyneuropathie	MD candidate
Fynn Schmitz	2021-2023	Schmitz F, Klimas R, Spenner M, Schumacher A, Hieke A, Greiner T, Enax-Krumova E, Sgodzai M, Fels M, Brünger J, Huckemann S, Stude P, Tegenthoff M, Gold R, Philipps J, Fisse AL, Grüter T, Pitarokoili K, Motte J, Sturm D. Morphological Differentiation of Corneal Inflammatory Cells. <i>Cornea.</i> 2024 Dec 1;43(12):1481-1488. doi: 10.1097/ICO.0000000000003543. Epub 2024 Apr 4. PMID: 38588437.	MD candidate
Zornitsa Stoykova /Gasz	2021-2023	Schumacher A, Hieke A, Spenner M, Schmitz F, Sgodzai M, Klimas R, Brünger J, Huckemann S, Motte J, Fisse AL, Gold R, Pitarokoili K, Grüter T. Early therapy initiation is crucial in chronic inflammatory demyelinating polyneuropathy: prospective multimodal data from the German INHIBIT registry. <i>J Neurol.</i> 2025 Jan 7;272(1):100. doi: 10.1007/s00415-024-12860-w. PMID: 39775066; PMCID: PMC11706869.	MD candidate
Aurelian Schumacher	2021-2023	Schumacher A, Hieke A, Spenner M, Schmitz F, Sgodzai M, Klimas R, Brünger J, Huckemann S, Motte J, Fisse AL, Gold R, Pitarokoili K, Grüter T. Early therapy initiation is crucial in chronic inflammatory demyelinating polyneuropathy: prospective multimodal data from the German INHIBIT registry. <i>J Neurol.</i> 2025 Jan 7;272(1):100. doi: 10.1007/s00415-024-12860-w. PMID: 39775066; PMCID: PMC11706869.	MD candidate
Max Schröder	2021-2023	Schröder M, Pasic A, Hirche F, Rozanova S, Sgodzai M, Gisevius B, Horstkemper L, Gold R, Marcus K, Pitarokoili K, Motte J, Barkovits K, Stangl G, Fisse AL. Oral supplementation with propionate is reflected in the serum of healthy individuals. <i>Ther Adv Neurol Disord.</i> 2025 Jan 23;18:17562864241309755. doi: 10.1177/17562864241309755. PMID: 39866754; PMCID: PMC11758918.	MD
Alina Hieke	2021-2023	Hieke A, Spenner M, Schmitz F, Schumacher A, Schröder M, Klimas R, Sgodzai M, Brünger J, Grüter T, Gold R, Pitarokoili K, Fisse AL, Motte J. The impact of the SARS-CoV-2-pandemic on patients with chronic inflammatory neuropathies: results from the German INHIBIT register. <i>J Neurol.</i> 2023 Apr;270(4):1815-1822. doi: 10.1007/s00415-022-11527-8. Epub 2022 Dec 22. PMID: 36550388; PMCID: PMC9778453.	MD candidate
Colak Devrim	2022-..	Correlation of fasciculations in muscle sonography and pathological spontaneous activity in the electromyography as markers of axonal degeneration in CIPD	MD candidate
Lüling Benjamin	2022-..	Longitudinal study on inflammatory and neurodegeneration markers in nerve ultrasound, MR-neurography and cerebrospinal fluid in patients with CIPD (INHIBIT Registry)	MD candidate
Annika Altenborg	2022-2024	Klimas R, Sturm D, Altenborg A, Stylianou N, Huckemann S, Gasz Z, Grüter T, Philipps J, Greiner T, Maier C, Eitner L, Enax-Krumova E, Vorgerd M, Schwenkreis P, Gold R, Fisse AL, Motte J, Pitarokoili K. Assessing axonal pathology and disease	MD candidate

		progression in chronic inflammatory demyelinating polyneuropathy using corneal confocal microscopy. J Neurol. 2024 Dec 12;272(1):51. doi: 10.1007/s00415-024-12812-4. PMID: 39666102; PMCID: PMC11638281.	
Rupa Balasubramaniam	2024 - ..	Validierung einer automatisierten Evaluation der elektrophysiologischen Kriterien gemäß der aktuellen diagnostischen Kriterien von 2021 in einer Bochumer Kohorte von Patienten mit chronisch-inflammatorischer demyelinisierende Polyneuropathie	MD candidate
Carolin Tennhoff	2024- ..	Longitudinale Studie zum klinischen und elektrophysiologischen Verlauf bei Patienten mit immunvermittelter Neuropathie assoziiert mit einer monoklonalen Gammopathie unklarer Signifikanz (MGUS) und Charakterisierung von zellulären Markern der Krankheitsaktivität im peripheren Blut	MD candidate
Jana Dergham	2024- ...	Entwicklung klinischer Verlaufsparemetere unter einer Therapie mit Immunglobulinen in einer intravenösen und subkutanen Applikationsform	MD candidate
Köz Dilara	2024 - ...	Deep Learning und ACCMetrics zur Auswertung der konfokalen kornealen Mikroskopie bei Patienten mit chronisch inflammatorisch demyelinisierender Polyneuropathie.	MD candidate

Co-supervision of early career researchers 2014-2019 (medical students):

Name	Primary Supervisor	Paper corresponding to the thesis	Achieved degree
Rafael Klimas	Prof. Dr. Yoon	Klimas R, Sgodzai M, Motte J, Mohamad N, Renk P, Blusch A, Grüter T, Pedreiturria X, Gobrecht P, Fischer D, Schneider-Gold C, Reinacher-Schick A, Tannappel A, Yoon MS, Gold R, Pitarokoili K. Dose-dependent immunomodulatory effects of bortezomib in experimental autoimmune neuritis. Brain Commun. 2021 Oct 9;3(4):fcab238. doi: 10.1093/braincomms/fcab238. PMID: 34708206; PMCID: PMC8545613.	MD
Sophie Huckemann	Prof. Dr. Yoon	Huckemann S, Mueller K, Averdunk P, Kühn E, Hilker L, Kools S, Scholz L, Bulut Y, Brünger J, Fiegert S, Grüter T, Fisse AL, Motte J, Yoon MS, Gold R, Schneider-Gold C, Tönges L, Pitarokoili K . Vagal cross-sectional area correlates with parasympathetic dysfunction in Parkinson's disease. Brain Commun. 2023 Jan 18;5(1):fcad006. doi: 10.1093/braincomms/fcad006. PMID: 36726777; PMCID: PMC9883711.	MD candidate
Eva Kühn	Prof Dr. Toenges	Kühn E, Averdunk P, Huckemann S, Müller K, Biesalski AS, Hof Zum Berge F, Motte J, Fisse AL, Schneider-Gold C, Gold R, Pitarokoili K , Tönges L. Correlates of polyneuropathy in Parkinson's disease. Ann Clin Transl Neurol. 2020 Oct;7(10):1898-1907. doi: 10.1002/actn.3.51182. Epub 2020 Sep 17. PMID: 32940017; PMCID: PMC7545593.	MD
Felix Kohle	Prof Dr. Yoon	Pitarokoili K , Kohle F, Motte J, Fatoba O, Pedreiturria X, Gold R, Yoon MS. Anti-inflammatory and immunomodulatory potential of human immunoglobulin applied intrathecally in Lewis rat experimental autoimmune neuritis. J Neuroimmunol. 2017 Aug 15;309:58-67. doi: 10.1016/j.jneuroim.2017.05.008. Epub 2017 May 19. PMID: 28601289.	MD
Donata Gamber	Prof. Dr. Yoon	Gamber D, Motte J, Kerasnoudis A, Yoon MS, Gold R, Pitarokoili K , Fisse AL. High-Resolution Nerve Ultrasound to Assess Nerve Echogenicity, Fascicular Count, and Cross-Sectional Area Using Semiautomated Analysis. J Neuroimaging. 2020 Jul;30(4):493-502. doi: 10.1111/jon.12717. Epub 2020 Jun 10. PMID: 32521091.	MD
Nuray Köse	Prof. Dr. Yoon	Motte J, Fisse AL, Köse N, Grüter T, Mork H, Athanasopoulos D, Fels M, Otto S, Siglienti I, Schneider-Gold C, Hellwig K, Yoon MS, Gold R, Pitarokoili K . Treatment response to cyclophosphamide, rituximab, and bortezomib in chronic immune-mediated sensorimotor neuropathies: a retrospective cohort study. Ther Adv Neurol Disord. 2021 Mar 5;14:1756286421999631. doi: 10.1177/1756286421999631. PMID: 33747132; PMCID: PMC7940507.	MD candidate
Schäfer Emelie	PD Dr med Fisse	Fisse AL, Schäfer E, Hieke A, Schröder M, Klimas R, Brünger J, Huckemann S, Grüter T, Sgodzai M, Schneider-Gold C, Gold R, Nguyen HP, Pitarokoili K, Motte J, Arning L. Association of the neonatal Fc receptor promoter variable number of tandem repeat polymorphism with immunoglobulin response in patients with chronic inflammatory demyelinating polyneuropathy. Eur J Neurol. 2024 Apr;31(4):e16205. doi: 10.1111/ene.16205. Epub 2024 Jan 11. PMID: 38205888; PMCID: PMC11235998.	MD candidate
Arlinda Belegu	PD Dr. med. Fisse	Erhebung sonographischer Normwerte für die proximalen Nervenwurzeln C5, C6 und C7 bei einer gesunden Kohorte, Differenzierung von CIDP-Varianten sowie Differenzierung zu nicht-inflammatorischen Polyneuropathien anhand der sonographischen Darstellung der proximalen Nervenwurzeln	MD candidate

Leonie Hülsmann	PD Dr. med. Fisse	Longitudinale Beobachtung der Korrelation zwischen Muskelveränderungen in der hochauflösenden Muskelsonographie und der klinischen Manifestation bei Patient:innen mit chronisch-entzündlicher demyelinisierender Polyneuropathie	MD candidate
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Training of early career basic researchers (students from the department of biology, biochemistry and molecular biology):

Bachelor Thesis:

Hussein Bachir, Emine Bayrak (2018), Lisa Holtkamp (2019), Mona Shaygan Tabar, Finn Specht (2024), Lisa Drinhaus, Parisa Naisie Mianei (2025)

Wahlpflichtmodul – Practical Laboratory Training (8 weeks):

Lisa Holtkamp, Joy Steinkamp, Nuwin Mohammad (2019), Katharina Klöster, Lena Tappen (2020), Niklas Rilke (2021) Pardis Didehvar, Hilal Karakaya, Ivan Sheptyakov (2022), Judith Bohle, Lea Joswig (2023) Finn Specht, Justin Groß (2024), Hannah Porter (2025)

Master Students:

Name	Period	Title / Publication
Hussein Bachir	2018-2019	Pitarokoiili K, Bachir H, Sgodzai M, Grüter T, Hauptelshofer S, Duscha A, Pedreiturria X, Motte J, Gold R. Induction of Regulatory Properties in the Intestinal Immune System by Dimethyl Fumarate in Lewis Rat Experimental Autoimmune Neuritis. <i>Front Immunol.</i> 2019 Sep 10;10:2132. doi: 10.3389/fimmu.2019.02132. PMID: 31552056; PMCID: PMC6746892.
Melissa Sgodzai		Pitarokoiili K, Sgodzai M, Grüter T, Bachir H, Motte J, Ambrosius B, Pedreiturria X, Yoon MS, Gold R. Intrathecal triamcinolone acetonide exerts anti-inflammatory effects on Lewis rat experimental autoimmune neuritis and direct anti-oxidative effects on Schwann cells. <i>J Neuroinflammation.</i> 2019 Mar 9;16(1):58. doi: 10.1186/s12974-019-1445-0. PMID: 30851725; PMCID: PMC6408772.
Karolin Drzymalla	2019-2020	Propionic acid: immunomodulatory potential in the context of autoimmune neuritis in vitro
Katharina Klöster Nuwin Mohamad	2020-2021	- Neue CD8-vermittelte transgene Mausmodelle für experimentelle Autoimmunneuritis - Grüter T, Mohamad N, Rilke N, Blusch A, Sgodzai M, Demir S, Pedreiturria X, Lemhoefer K, Gisevius B, Haghikia A, Fisse AL, Motte J, Gold R, Pitarokoiili K. Propionate exerts neuroprotective and neuroregenerative effects in the peripheral nervous system. <i>Proc Natl Acad Sci U S A.</i> 2023 Jan 24;120(4):e2216941120. doi: 10.1073/pnas.2216941120. Epub 2023 Jan 20. PMID: 36669102; PMCID: PMC9942889. - Charakterisierung und Etablierung von neuen transgenen Mausmodellen mit dem Ziel der Induktion einer experimentellen autoimmunen Neuritis mit OTI-Zellen. - Analyse von Bioproben einer Kohorte mit Immunneuropathien und Untersuchung der immunvermittelten Immunität gegen COVID-19
Tobias Stahlhut Emine Bayrak		
Pia Renk	2021-2022	- Renk P, Sgodzai M, Klimas R, Blusch A, Grüter T, Motte J, Pedreiturria X, Gebel J, Gobrecht P, Fischer D, Gold R, Pitarokoiili K. Small fibre integrity and axonal pathology in the rat model of experimental autoimmune neuritis. <i>Brain Commun.</i> 2024 Mar 1;6(2):fcae059. doi: 10.1093/braincomms/fcae059. PMID: 38482371; PMCID: PMC10935649. - Untersuchung von immunomodulatorischen und neuroprotektiven Eigenschaften von Butyrat im peripheren Nervensystem
Clarissa Lohmann		
Niklas Rilke	2022-2023	Grüter T, Mohamad N, Rilke N, Blusch A, Sgodzai M, Demir S, Pedreiturria X, Lemhoefer K, Gisevius B, Haghikia A, Fisse AL, Motte J, Gold R, Pitarokoiili K. Propionate exerts neuroprotective and neuroregenerative effects in the peripheral nervous system. <i>Proc Natl Acad Sci U S A.</i> 2023 Jan 24;120(4):e2216941120. doi: 10.1073/pnas.2216941120. Epub 2023 Jan 20. PMID: 36669102; PMCID: PMC9942889.
Pardis Didehvar Hilal Karakaya	2023-2024	- Die Rolle von verschiedenen CD8 T Zell Populationen bei den Immunneuropathien - Die Rolle des PD-1 Immun-Checkpoint Signalwegs bei der autoimmunen Neuritis
Justin Groß Judith Bohle Lea Joswig Finn Specht	2024-2025	- Modulation des Immun-Checkpoint Signalwegs im Rahmen der Immunneuropathien - Charakterisierung der Immun-checkpoint Moleküle in autoimmunen Neuritis - Capsaicin für die Immunomodulation des peripheren Nervensystems inkl. Kleinfaserpathologie - Grundlagen der Schwann Zellen im Rahmen der Inflammation des peripheren Nervensystems

PhD Students:

Name	Period	Title - Publication	Current position
Melissa Sgodzai	2018-2024	'Neue T-Zell transgene Modelle für autoimmune Neuritis' International Graduate School of Neuroscience (IGSN)	Dr.rer. nat PhD 'Suma cum laude'
Niklas Rilke	2023 -	MR-Neurographie zur Untersuchung der Inflammation und Neurodegeneration bei der experimentellen autoimmune Neuritis.	PhD cand.

		International Graduate School of Neuroscience (IGSN) Kooperation mit Prof. Manahan-Vaughan (Abteilung für Neurophysiologie RUB)	
Baffour Sarpong	2023 -	Capsaicin und Propionat: Neuroprotektion bei der inflammatorischen Neuropathien International Graduate School of Neuroscience (IGSN) Deutscher Akademischer Austauschdienst, German Academic Exchange Service (DAAD) Kooperation mit Prof. Winkhöfer (Abteilung für Biochemie und Pathobiochemie, RUB) Prof. Theis (Abteilung für Zytologie, RUB)	PhD cand.

Funded projects since 2016:

Project	Funding agency	Funding period
Novel mouse models for immune-mediated neuropathies	Klaus-Tschira Stiftung	2016
Laquinimod in experimental autoimmune neuritis	FoRUM Forschungsförderung der medizinischen Fakultät Bochum, Research Funding Ruhr University Bochum Position Funding	2017-2018
Fingolimod for experimental autoimmune neuritis	Sanofi	2018
Bortezomid in experimental autoimmune neuritis	FoRUM Forschungsförderung der medizinischen Fakultät Bochum, Research Funding Ruhr University Bochum Project funding	2020
Propionate study on CIDP	GBS-CIDP Foundation	2021
DMF / DRF for Experimental autoimmune neuritis	Biogen idec	2017 / 2021
Biomarkers for CIDP	LFB Foundation	2022
Small fiber Neuropathy and cornea pathology in EAN	FoRUM Forschungsförderung der medizinischen Fakultät Bochum, Research Funding Ruhr University Bochum Project funding	2023
MR-Neurography for experimental autoimmune neuritis and correlation with findings in chronic inflammatory demyelinating neuropathy and diabetic neuropathy	InnovationFonds Forschungsförderung der medizinischen Fakultät Bochum, Research Funding Ruhr University Bochum Project funding	2023
Nerve biopsy for CIDP	CSL Behring	2024
Improvement of the diagnosis of autonomic neuropathy	CSL Behring	2025
Capsaicin in vitro for nerve regeneration	Grünenthal	2025
Patient Registry Data on chronic inflammatory demyelinating polyneuropathy	ARGENX	2026

Patient Registry Data on Multifocal motor Neuropathy	ARGENX	2026 Under consideration
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Congresses:

German and international

Since 2020 attendance of the following annual German and international congresses including Poster presentations, symposia coordination

- German Clinical Neurophysiology Congress
- Peripheral Nervous System International Meeting
- European Academy of Neurology

Greek congresses:

Since 2021 attendance of the annual meeting of the

- Greek Society of Neuroimmunology (2 Poster presentations / congress)
- 2025 Greek Society of Neurology one poster Presentation
- 2026 Greek Society of Neurology one poster Presentation, two invited talks (CAR-T cells, Ultrasound applications in neuromuscular diseases)

Teaching activities – University of Crete

Master program of Medical Neurosciences	<ul style="list-style-type: none"> - Polyneuropathies (2 hours) - Multiple sclerosis (2 hours) - Myositis (2 hours) - Amyotrophic lateral sclerosis, Myasthenia gravis (2 hours)
Master program of Molecular basis of human diseases	<ul style="list-style-type: none"> - Polyneuropathies (2 hours)
Clinical practical training medical students (6th year)	<ul style="list-style-type: none"> - Clinical training (neurological examination, neuroimmunological diseases, vascular ultrasound)
PhD students	<ul style="list-style-type: none"> - Automated Pupillometry as a prognostic marker for early neurological deterioration and malignant ischemic edema in patients with acute hemispheric ischemic stroke (Mr Drakoulakis, second supervisor)

Heraklion, May 2026