Date of Document: March 29, 2024

CURRICULUM VITAE

Antje Kroner-Milsch MD, PhD

Associate Professor
Department of Neurosurgery
Division of Research

OFFICE ADDRESS:

VA Medical Center
5000 W National Ave
Milwaukee, WI 53295

EDUCATION:

11/1995 - 06/2002 MD, Julius-Maximilians-University, Wuerzburg, Germany
01/2004 - 08/2008 PhD, Julius-Maximilians-University, Wuerzburg, Germany

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

09/2008 - 07/2009 Postdoctoral Fellow, Neurology, Developmental Neurobiology, Julius-Maximilians-University, Wuerzburg, Germany
08/2009 - 03/2014 Postdoctoral Fellow, Neurology, Centre for Research in Neuroscience, McGill University Health Centre, Montreal, QC
04/2014 - 08/2015 Research Associate, Neurology, Centre for Research in Neuroscience, McGill University Health Centre, Montreal, QC

FACULTY APPOINTMENTS:

09/2015 - 06/2022 Assistant Professor, Neurosurgery, Research, Medical College of Wisconsin, VA Medical Center, 5000 W National Ave, Milwaukee, WI 53295
08/2016 - 06/2022 Assistant Professor (Secondary Appointment), Microbiology & Immunology, Medical College of Wisconsin, WI
07/2022 - Present Associate Professor, Microbiology & Immunology, Medical College of Wisconsin, WI
07/2022 - Present Associate Professor, Neurosurgery, Medical College of Wisconsin, VA Medical Center, 5000 W National Ave, Milwaukee, WI 53295

EDUCATIONAL ADMINISTRATIVE APPOINTMENTS:

01/2018 - 05/2022 Director (Seminar Course MMG 25300A), Microbiology & Immunology, Medical College of Wisconsin

AWARDS AND HONORS:

05/2004 - 04/2007 MD/ PhD Scholarship, University of Wuerzburg, Germany
09/2005 Wyeth Young Investigator Award Multiple Sclerosis, Wyeth
10/2007 Travel Grant, ECTRIMS
05/2008 Chairs Fund Travel Grant, Gordon Research Conference Myelin
02/2009 - 06/2009 Habilitation Scholarship, University of Wuerzburg, Germany
08/2009 - 12/2009 Postdoctoral Fellowship, Canadian Institutes of Health Research (CIHR) Neuroinflammation Program
01/2010 - 05/2010 Postdoctoral Fellowship Award, German Research Foundation (DFG)
06/2010 - 03/2013 Postdoctoral Fellowship, Canadian Institutes of Health Research (CIHR)
04/2013 - 03/2014 Postdoctoral Fellowship, Canadian Institutes of Health Research (CIHR) Neuroinflammation Program
11/2013 Travel Grant, Canadian Institutes of Health Research (CIHR) Neuroinflammation Program
11/2013 Travel Grant, Canadian Institutes of Health Research (CIHR) Neuroinflammation Program

07/2016 Imagine More Award, Neuroscience Center, Medical College of Wisconsin
11/2020 Outstanding Graduate School Educator, Medical College of Wisconsin
10/2022 Faculty Service Award, Medical College of Wisconsin
10/2022 Outstanding Committee Service Award, MCW

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

10/2009 - Present Society for Neuroscience (Member)
01/2010 - Present German Association of Neuroscience (Member)
01/2010 - 01/2020 Canadian Association of Neuroscience (Member)
04/2016 - Present National Neurotrauma Society (Member)

EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:

Editorship

- 03/2018 - Present Frontiers in Molecular Neuroscience, Guest Associate Editor
- 01/2019 - 01/2020 Frontiers Molecular Neuroscience, Topic Editor: Immune Cell Interactions with Target Cells
- 06/2020 - Present Frontiers Cellular Neuroscience, Associate Editor: Non-Neuronal Cells
- 08/2021 - Present Frontiers Cellular Neuroscience, Topic Editor: Schwann Cells

Ad-Hoc Reviewer

- 01/2010 - Present PlosOne
- 02/2016 - Present Gene
- 03/2016 - Present Journal of Neuroscience
- 11/2016 - Present BMC Complementary and alternative medicine
- 03/2017 - Present Journal of Neuroscience Research
- 06/2017 - Present Molecular Cellular Neuroscience
- 07/2017 - Present Free Radical Biology and Medicine
- 09/2017 - Present Neurochemistry International
- 11/2017 - Present Nature Neuroscience
- 01/2018 - Present Journal of Neuroinflammation
- 02/2018 - Present Brain, Behavior, and Immunity
- 07/2018 - Present CNS Neuroscience & Therapeutics
- 01/2019 - Present Acta Neuropathologica Communications
- 09/2019 - Present Scientific reports
- 09/2019 - Present Oxidative Medicine and Cellular Longevity
- 12/2019 - Present Immunopharmacology and Immunotoxicology
- 12/2019 - Present Neuroscience Letters
- 02/2020 - Present International Journal of Molecular Sciences
- 03/2020 - Present Experimental and Molecular Pathology
- 05/2020 - Present Brain Research Bulletin
- 08/2020 - Present Glia
- 08/2020 - Present Neuroscience
- 09/2020 - Present Developmental Neurobiology
- 11/2020 - Present Experimental Neurology
- 02/2021 - Present Behavioral Brain Research
- 05/2021 - Present Frontiers in Pharmacology
- 07/2021 - Present Journal of Neurotrauma
- 08/2021 - Present Journal of Neuroimmunology
- 08/2021 - Present Journal of Neurotrauma
- 12/2021 - Present Journal of Advanced Research
- 06/2022 - Present Advanced Therapeutics
- 06/01/2023 - Present Journal of Inflammation Research
- 10/01/2023 - Present Nature Communications

LOCAL/REGIONAL APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

08/2019 - 10/2020 Reviewer, CTSI
11/2020 - 11/2021 Member, Neuroscience Research Workgroup, MCW
12/01/2020 - Present Vice Chair, IACUC, VA Medical Center

09/22/2021 - Present Chair, Institutional Biosafety Committee, VAMC

INTERNATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

01/2017 - Present Reviewer, Wings for Life- Spinal Cord Research Foundation, Salzburg, Austria
09/2020 - Present Reviewer, Independent Scientific Merit Review Panel, New Jersey Commission on Spinal Cord Research
01/01/2021 - Present Member, Editorial Board, ODC-SCI (Spinal cord injury database)
07/2021 Reviewer, PSI Foundation, ON, Canada
08/01/2021 - Present Member, Community Board, ODC-SCI (Spinal Cord Injury Database)
10/2021 Early Career Reviewer, NIH Study Section Clinical Neuroimmunology and Brain Tumors (CNBT)

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:

Active

Peer Review

Title:	Role of the pro-inflammatory cytokines IL-12 and IL-23 in secondary damage after spinal cord injury
Source:	VA Biomedical Laboratory Research and Development (BLR&D)
Role:	Co-Investigator
PI:	Karin Swartz
Dates:	01/01/2019 - 12/30/2022
Direct Funds:	$626,640

Title:	The functional role and therapeutic potential of heme binding proteins after cervical SCI Investigation of A1AT and A1AM after cSCI
Source:	Wings for Life
Role:	Principal Investigator
PI:	Antje Kroner-Milsch
Dates:	07/01/2020 - 06/30/2022
Direct Funds:	$200,000

Title:	Nimodipine promotes motor recovery after spinal cord injury
Source:	Craig H. Nielsen Foundation
Role:	Co-Investigator
PI:	Kajana Satkunendrarajah
Dates:	07/2020 - 07/2022
Direct Funds:	$300,000

Title:	Monitoring Early Acute Therapeutic Responses with MRI in Preclinical Spinal Cord Injury
Source:	W81XWH2010413, US Army Medical Research Acquisition Activity
Role:	Co-Investigator
PI:	Matthew Budde
Dates:	08/01/2020 - 07/31/2023
Direct Funds:	$500,000

Title:	Use of the CCR5 inhibitor Maraviroc to promote functional recovery and tissue protection after SCI
Source:	Advancing a Healthier Wisconsin

Role:	Principal Investigator
PI:	Antje Kroner
Dates:	06/2022 - 05/2023
Direct Funds:	$50,000
Title:	Use of the CCR5 inhibitor Maraviroc to promote functional recovery and tissue protection after SCI
Source:	Craig N. Neilsen Foundation
Role:	Principal Investigator
PI:	Antje Kroner
Dates:	07/2022 - 06/2024
Direct Funds:	$400,000
Title:	Role of the pro-inflammatory cytokines IL-12 and IL-23 in secondary damage after spinal cord injury
Source:	VA BLR&D
Role:	Co-Investigator
PI:	Karin Swartz
Dates:	06/01/2023 - 05/31/2027
Direct Funds:	$660,000

Non-Peer Review

Title:	Association Between CCR5 Mutation and Spinal Cord Injury Recovery
Source:	Initiation of New Research Project, Department of Neurosurgery
Role:	PI
PI:	Kroner
Dates:	01/01/2023 - 12/31/2023
Direct Funds:	$6,000

Pending

Peer Review

Title:	Impact of injury mediated inflammation on inhibition of synaptic plasticity and functional recovery after spinal cord injury
Source:	NIH Neurological Disorders and Stroke
Role:	Principal Investigator
PI:	Antje Kroner
Dates:	04/2022 - 03/2027
Direct Funds:	$1,575,000

Prior

Peer Review

Title:	Molecular control of myelin breakdown and phagocytosis after nerve injury
Source:	CIHR
Role:	Postdoctoral Fellow
PI:	Samuel David
Dates:	06/01/2010 - 03/31/2013
Direct Funds:	$120,000 (Postdoctoral Fellowship)

Title:	Inflammatory Response after Spinal Cord Injury
Source:	CIHR Neuroinflammation Training Program
Role:	Postdoctoral Fellow
PI:	Samuel David
Dates:	04/01/2013 - 03/31/2014
Direct Funds:	$20,000 (Fellowship)
Title:	Nature and extent of nervous system trauma and modifications to improve the diagnosis and treatment of brain injuries and other forms of nervous system trauma
Source:	Advancing a Healthier Wisconsin
Role:	Co-Investigator
PI:	Dennis Maiman (Parent Award)
Dates:	07/01/2015 - 06/30/2019
Direct Funds:	$507,856
Title:	Role of haptoglobin after SCI
Source:	Imagine More Award - Department of Neuroscience
Role:	Principal Investigator
PI:	Antje Kroner-Milsch
Dates:	07/01/2016 - 06/30/2017
Direct Funds:	$25,000
Title:	Role of macrophage inflammatory protein (MIP)-1alpha (CCL3) and its receptors after spinal cord
Source:	Wings for Life
Role:	Principal Investigator
PI:	Antje Kroner-Milsch
Dates:	07/01/2016 - 06/30/2019
Direct Funds:	$330,000
Title:	Influence of IL-12/IL-23 on tissue damage after spinal cord injury (SCI) in mice
Source:	Center for Imaging Research (MCW)
Role:	Principal Investigator
PI:	Kroner
Dates:	07/19/2017 - 07/18/2018
Direct Funds:	$5,000
Title:	Role of haptoglobin and hemopexin in secondary damage after SCI
Source:	Craig Neilsen Foundation
Role:	Principal Investigator
PI:	Kroner
Dates:	07/01/2018 - 09/30/2020
Direct Funds:	$299,866
Title:	Use of novel RNA inhibitors to inhibit pro-inflammatory mediators after SCI
Source:	Bryon Riesch Paralysis Foundation

Role:	Principal Investigator
PI:	Antje Kroner-Milsch
Dates:	07/01/2020 - 06/30/2021
Direct Funds:	$50,000

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

Local

Kroner, A., Role of macrophages after spinal cord injury, Seminar, Marquette University, 05/10/2016

Kroner, A., Inflammatory response after spinal cord injury, Seminar, Department of Microbiology, MCW, 05/24/2016

Kroner, A., Secondary damage in SCI, Neuroscience Board, MCW, Milwaukee, 11/21/2017

Kroner, A., Secondary injury after SCI, SCI Center, Clement J. Zablocki VAMC, Milwaukee, 12/08/2017

Kroner, A., Secondary damage after SCI, Seminar, Department of Biochemistry, MCW, 10/17/2018

Kroner, A., Inflammation after SCI, Immunolunch, Center for Immunology, MCW, Milwaukee, 11/20/2018

Kroner, A., Role of CCL3 after SCI, Neuroinflammation Group, MCW, Milwaukee, 11/29/2018

Kroner, A., Inflammation and secondary damage after SCI, Grand Rounds, Neurosurgery, MCW, Milwaukee, 12/21/2018

Kroner, A., Inflammation and hemorrhage after spinal cord injury, Center for Immunology Annual Scientific Retreat, Center fro Immunology, MCW, 03/12/2020

Kroner, A., Hemorrhage after Spinal cord injury, Round Table Discussion, Center for Immunology, MCW, Milwaukee, 11/13/2020

Antje Kroner, Secondary Damage: Interplay between inflammation and hemorrhage after SCI, SCI seminar, Clement J Zablocki VAMC, Milwaukee, 07/31/2023

Kroner, Antje, Targeting hemorrhage mediated damage after Spinal Cord Injury, Immunology Research Roundtable, MCW, 11/28/2023 - Present

Kroner, Antje, Neuroinflammation and SCI, Neuroinflammation Collaboration- NRC, Neuroscience Research Center, MCW, 12/14/2023 - Present

International

Kroner, A., Inflammation after Spinal cord injury, Seminar, University of Wuerzburg, Germany, 05/02/2016

Kroner, A., Role of macrophage inflammatory protein (MIP)-1alpha (CCL3) and its receptors after spinal cord injury (SCI) and its influence on secondary damage, Wings for Life Annual Meeting, Salzburg, Austria, 05/11/2017 - 05/12/2017

Kroner, A., Targeting inflammation to reduce secondary damage after SCI, International Symposium on Neural Regeneration, Asilomar, Pacific Grove, CA, 11/27/2017 - 11/30/2017

Kroner, A., Role of macrophage inflammatory protein (MIP)-1alpha (CCL3) and its receptors after spinal cord injury (SCI) and its influence on secondary damage, Wings for Life Annual Meeting, Salzburg, Austria, 04/23/2018 - 04/25/2018

Pelisch, N., Stehlik, K., Aperi, A., Rosas, J., Kroner, A., Role of macrophage inflammatory protein (MIP)-1alpha (CCL3) and its receptors after spinal cord injury (SCI) and its influence on secondary damage, Wings for Life Annual Meeting, Salzburg, Austria, 05/08/2019 - 05/10/2019

Kroner, A, Inflammation after Spinal Cord Injury, International Online SCI Research Seminars (IOSCIRS), virtual, 12/15/2020

Antje Kroner, Neuroinflammation n the injured spinal cord, Symposium: Inflammation and Neurological Disorders, Wuerzburg, Germany, 10/15/2022

S. Kafura, A. Bachmann, J. Page K. Satkunendrarajah and A. Kroner, Role of heme binding proteins after spinal cord injury, Wings for Life Scientific Meeting, Salzburg, Austria, 05/16/2023 - 05/17/2023

PEER REVIEWED WORKSHOPS/PRESENTATIONS:

Local

Kroner, A., Modulating Inflammation and Secondary Damage in a Mouse Model of Spinal Cord Injury By Targeting IL-12 and IL-23, From Community to Battlefield, MCW, Milwaukee, 12/07/2017

National

Kroner, A., Aperi, B., Stehlik, K., David S., Expression and role of pro-inflammatory cytokines IL-12 and, National Neurotrauma Society, Annual Meeting, Lexington, KY, 06/26/2016 - 06/29/2016

Kroner, A., Expression and role of the pro-inflammatory chemokine CCL3 and its receptors after spinal cord injury (SCI) and its influence on secondary damage, National Neurotrauma Society, Snowbird, UT, 07/08/2017 - 07/12/2017

Pelisch, N., Kroner, A., Macrophage inflammatory protein-1alpha (CCL3) and its receptors contribute to secondary damage following spinal cord injury, National Neurotrauma Society, Philadelphia, PA, 06/30/2019 - 07/03/2019

Kishan Patel, Nicolas Pelisch, Antje Kroner, Role of hemopexin in secondary damage after spinal cord injury, Global Neurosurgery Conference, virtual, 09/11/2020

International

Kroner A., Noguiera Santos E., Lopez-Vales R, David S., MK2 contributes to regeneration after peripheral nerve injury., Society of Neuroscience, Annual Meeting, Chicago, IL, 10/17/2015 - 10/21/2015

Kroner A., Aperi, B., Stehlik, K., David S., Expression and role of IL-12 and IL-23 in spinal cord injury, Society for Neuroscience Annual Meeting, San Diego, CA, 11/12/2016 - 11/16/2016

Zarruk, J.G., Noguiera Santos E., Kroner A., David S., Transplantation of bone marrow?derived, endMS conference, Toronto, ON, Canada, 12/06/2016 - 12/09/2016

Kroner, A., Role and expression of CCL3 and its receptors after spinal cord injury, Society for Neuroscience, Washington, DC, 11/11/2017 - 11/15/2017

Kroner, A., MIP-1alpha (CCL3): A role in spinal cord injury (SCI) and secondary damage, National and International Neurotrauma Society Meeting, Toronto, ON Canada, 08/13/2018 - 08/16/2018

Kroner, A., Role of IL-12, IL-23 and their receptors after spinal cord injury (SCI) and their impact on secondary damage, Society for Neuroscience, San Diego, CA, 11/03/2018 - 11/07/2018

Rosas, J., Pelisch, N., Stehlik, K., Aperi, B., Swartz, K., Kroner, A., The pro-inflammatory cytokine IL-12 impairs recovery after spinal cord injury., Gordon Research Conference, Waterville Valley, NH, 06/17/2019

Jose Rosas, Nicolas Pelisch, Brandy Aperi, Kyle Stehlik, Karin Swartz, Antje Kroner, Absence of IL-12p40 mediates a beneficial effect on recovery after spinal cord injury., Society for Neuroscience Annual Meeting, Chicago, 10/19/2019 - 10/22/2019

Nicolas Pelisch, Kyle Stehlik, Brandy Aperi, Antje Kroner1, Role of Macrophage inflammatory protein-1alpha (CCL3) in secondary damage following contusive spinal cord injury, Society for Neuroscience Annual Meeting, Chicago, 10/19/2019 - 10/22/2019

Nicolas Pelisch, Kishan Patel, Antje Kroner, Role of hemorrhage and impact of heme-binding proteins after spinal cord injury, ISNR Conference, Asilomar, CA, 01/26/2020 - 01/30/2020

Dan Reinhardt, Christina Dolick, Dante Graham, Kyle Stehlik, Antje Kroner, Kajana Satkunendrarajah, Nimodipine prevents spasticity and promotes motor recovery after spinal cord injury, Proceedings of Technological Advances in Science, Medicine and Engineering Conference 2021 (Tasme), virtual, 07/03/2021 - 07/04/2021

Antje Kroner, Nicolas Pelisch, Jose Rosas, Role of chemokine messaging after Spinal Cord Injury, Proceedings of Technological Advances in Science, Medicine and Engineering Conference 2021 (TASME), Virtual, 07/03/2021 - 07/04/2021

Jose Rosas, Nicolas Pelisch, Brandy Aperi, Kyle Stehlik, Matt Budde, Karin Swartz, Antje Kroner, IL-12p40 contributes to secondary damage and functional impairment after spinal cord injury, Proceedings of Technological Advances in Science, Medicine and Engineering Conference 2021 (Tasme), virtual, 07/03/2021 - 07/04/2021

Nicolas Pelisch, Jose Rosas, Kyle Stehlik, Brandy Aperi, Antje Kroner, Role of the heme-binding protein Hemopexin following spinal cord injury, Proceedings of Technological Advances in Science, Medicine and Engineering Conference 2021 (TASME), virtual, 07/03/2021 - 07/04/2021

Justin Page, Jose Rosas Almanza, Brandy Aperi, Kyle Stehlik, Antje Kroner, The functional role and therapeutic potential of heme binding proteins after cervical SCI, Society For Neuroscience, San Diego, CA, 11/12/2022 - 11/15/2022

Justin Page, Shannon Kafura, Alexandra Bachmann, Jose Rosas Almanza, Kajana Satkunendrarajah & Antje Kroner, The functional role and therapeutic potential of heme binding proteins after cervical SCI, International Symposium on Neural Regeneration, Stevenson, WA, 04/24/2023 - 04/27/2023

Alexandra Bachmann, Justin Page, Kajana Satkunendrarajah, Antje Kroner, CCR5 inhibition using maraviroc after spinal cord injury, Central Nervous System Injury and Repair Gordon Research Conference, Lucca, Italy, 07/09/2023 - 07/14/2023

Alexandra Bachmann, Justin Page, Anthony Raimondi, Shannon Kafura, Emma Tabor, Antje Kroner, Inhibition of CCR5 improves functional recovery and reduces secondary tissue damage after thoracic SCI, Society for Neuroscience, Washington DC, 11/11/2023 - 11/15/2023

H. SWEETMAN, D. GRAHAM, A. KRONER, S. GOSGNACH, C. M. OLSEN, K. SATKUNENDRARAJAH, PSTR341.09 / Z22 - Sensory cortical control of locomotion after spinal cord injury, Society for Neuroscience, Washington DC, 11/11/2023 - 11/15/2023

COMMITTEE SERVICE:

Medical College of Wisconsin

07/04/2016 - Present Member, Research Affairs Committee, MCW
11/01/2016 - Present Member, Equipment Committee, VA Medical Center
11/26/2018 - 05/30/2020 Member, Search Committee, Neuroscience Research Center, MCW
12/01/2022 - Present Member, Search Committee, Center for Immunology, MCW

Hospital

02/02/2016 - Present Scientific Member, IACUC, VA Medical Center

MEDICAL COLLEGE TEACHING ACTIVITIES:

Graduate Student Education

01/01/2018 - Present Course Director: Seminar Course
01/25/2021 - Present Instructor: Foundations in Biomedical Sciences IV

MCW STUDENTS, FACULTY, RESIDENTS AND CLINICAL/RESEARCH FELLOWS MENTORED:

Graduate Students

PhD Committees

Daniel Fehrenbach, Medical College of Wisconsin, 01/18/2018 - 11/22/2020 CD14 and the Macrophage in Salt-Sensitive Hypertension and Renal Injury, Graduation

Seung Yi Lee, MCW, 09/01/2019 - 04/15/2022 From Characterization to Treatment of Cervical Spinal Cord Injury in Rat Models Using Multimodal Magnetic Resonance Imaging, Graduation

PhD Students Advised

Jose Rosas, Medical College of Wisconsin, 02/01/2018 - 12/15/2022 IL-12 Promotes Secondary Damage and Locomotor Impairment in Spinal Cord Injury., Graduation

Postdoctoral Students

Nicolas Pelisch, MCW, 02/2019 - 10/2021 Supervising PI

EXTRAMURAL STUDENTS, FACULTY, RESIDENTS, AND CLINICAL/RESEARCH FELLOWS MENTORED:

High School Students

Athena Kafkas, SUPREMES Program, 02/01/2020 - 08/01/2021 Supervising PI

Undergraduate Students

Rebecca Kolbeck, MCW, VA Neuroscience Labs, 06/05/2017 - 08/15/2017 Supervising PI
Morgan Weaver, MCW, VA Neuroscience Labs, 06/09/2017 - 07/17/2017 Supervising PI
Edward O'Reilly, MCW/ Marquette, 09/01/2017 - 12/21/2017 Supervising PI
Nicholas Schneider, MCW/ Marquette, 09/01/2017 - 12/21/2017 Supervising PI

COMMUNITY SERVICE ACTIVITIES:

05/06/2018 Organizer for local "Wings for Life World Run" Fundraiser

BIBLIOGRAPHY

Refereed Journal Publications/Original Papers

1. David S, Jhelum P, Ryan F, Jeong SY, Kroner A. Dysregulation of Iron Homeostasis in the Central Nervous System and the Role of Ferroptosis in Neurodegenerative Disorders. Antioxid Redox Signal. 2022 Jul;37(1-3):150-170.
2. Pelisch N, Rosas Almanza J, Stehlik KE, Aperi BV, Kroner A. Use of a Self-Delivering Anti-CCL3 FANA Oligonucleotide as an Innovative Approach to Target Inflammation after Spinal Cord Injury. eNeuro. 2021;8(2). PMCID: PMC7986543
3. Pelisch N, Rosas Almanza J, Stehlik KE, Aperi BV, Kroner A. CCL3 contributes to secondary damage after spinal cord injury. J Neuroinflammation. 2020 Nov 27;17(1):362. PMCID: PMC7694914
4. Reinhardt DR, Stehlik KE, Satkunendrarajah K, Kroner A. Bilateral cervical contusion spinal cord injury: A mouse model to evaluate sensorimotor function. Exp Neurol. 2020 Sep;331:113381.
5. Kroner A, Rosas Almanza J. Role of microglia in spinal cord injury. Neurosci Lett. 2019 Sep 14;709:134370.
6. David S, Kroner A, Greenhalgh AD, Zarruk JG, López-Vales R. Myeloid cell responses after spinal cord injury. J Neuroimmunol. 2018 Aug 15;321:97-108.
7. Kaplan A, Morquette B, Kroner A, Leong S, Madwar C, Sanz R, Banerjee SL, Antel J, Bisson N, David S, Fournier AE. Small-Molecule Stabilization of 14-3-3 Protein-Protein Interactions Stimulates Axon Regeneration. Neuron. 2017 Mar 08;93(5):1082-1093.e5.
8. Greenhalgh AD, Passos Dos Santos R, Zarruk JG, Salmon CK, Kroner A, David S. Arginase-1 is expressed exclusively by infiltrating myeloid cells in CNS injury and disease. Brain Behav Immun. 2016 Aug;56:61-7.
9. Sadovnick AD, Traboulsee AL, Bernales CQ, Ross JP, Forwell AL, Yee IM, Guillot-Noel L, Fontaine B, Cournu-Rebeix I, Alcina A, Fedetz M, Izquierdo G, Matesanz F, Hilven K, Dubois B, Goris A, Astobiza I, Alloza I, Antigüedad A, Vandenbroeck K, Akkad DA, Aktas O, Blaschke P, Buttmann M, Chan A, Epplen JT, Gerdes LA, Kroner A, Kubisch C, Kümpfel T, Lohse P, Rieckmann P, Zettl UK, Zipp F, Bertram L, Lill CM, Fernandez O, Urbaneja P, Leyva L, Alvarez-Cermeño JC, Arroyo R, Garagorri AM, García-Martínez A, Villar LM, Urcelay E, Malhotra S, Montalban X, Comabella M, Berger T, Fazekas F, Reindl M, Schmied MC, Zimprich A, Vilariño-Güell C. Analysis of Plasminogen Genetic Variants in Multiple Sclerosis Patients. G3 (Bethesda). 2016 Jul 07;6(7):2073-9. PMCID: PMC4938660
10. Lill CM, Luessi F, Alcina A, Sokolova EA, Ugidos N, de la Hera B, Guillot-Noël L, Malhotra S, Reinthaler E, Schjeide BM, Mescheriakova JY, Mashychev A, Wohlers I, Akkad DA, Aktas O, Alloza I, Antigüedad A, Arroyo R, Astobiza I, Blaschke P, Boyko AN, Buttmann M, Chan A, Dörner T, Epplen JT, Favorova OO, Fedetz M, Fernández O, García-Martínez A, Gerdes LA, Graetz C, Hartung HP, Hoffjan S, Izquierdo G, Korobko DS, Kroner A, Kubisch C, Kümpfel T, Leyva L, Lohse P, Malkova NA, Montalban X, Popova EV, Rieckmann P, Rozhdestvenskii AS, Schmied C, Smagina IV, Tsareva EY, Winkelmann A, Zettl UK, Binder H, Cournu-Rebeix I, Hintzen R, Zimprich A, Comabella M, Fontaine B, Urcelay E, Vandenbroeck K, Filipenko M, Matesanz F, Zipp F, Bertram L. Genome-wide significant association with seven novel multiple sclerosis risk loci. J Med Genet. 2015 Dec;52(12):848-55.
11. Schrewe L, Lill CM, Liu T, Salmen A, Gerdes LA, Guillot-Noel L, Akkad DA, Blaschke P, Graetz C, Hoffjan S, Kroner A, Demir S, Böhme A, Rieckmann P, ElAli A, Hagemann N, Hermann DM, Cournu-Rebeix I, Zipp F, Kümpfel T, Buttmann M, Zettl UK, Fontaine B, Bertram L, Gold R, Chan A. Investigation of sex-specific effects of apolipoprotein E on severity of EAE and MS. J Neuroinflammation. 2015 Dec 16;12:234. PMCID: PMC4681148
12. Siqueira Mietto B, Kroner A, Girolami EI, Santos-Nogueira E, Zhang J, David S. Role of IL-10 in Resolution of Inflammation and Functional Recovery after Peripheral Nerve Injury. J Neurosci. 2015 Dec 16;35(50):16431-42. PMCID: PMC6605511
13. David S, Greenhalgh AD, Kroner A. Macrophage and microglial plasticity in the injured spinal cord. Neuroscience. 2015 Oct 29;307:311-8.
14. Zarruk JG, Berard JL, Passos dos Santos R, Kroner A, Lee J, Arosio P, David S. Expression of iron homeostasis proteins in the spinal cord in experimental autoimmune encephalomyelitis and their implications for iron accumulation. Neurobiol Dis. 2015 Sep;81:93-107.
15. Kroner A, Greenhalgh AD, Zarruk JG, Passos Dos Santos R, Gaestel M, David S. TNF and increased intracellular iron alter macrophage polarization to a detrimental M1 phenotype in the injured spinal cord. Neuron. 2014 Sep 03;83(5):1098-116.
16. Lill CM, Schilling M, Ansaloni S, Schröder J, Jaedicke M, Luessi F, Schjeide BM, Mashychev A, Graetz C,

Akkad DA, Gerdes LA, Kroner A, Blaschke P, Hoffjan S, Winkelmann A, Dörner T, Rieckmann P, Steinhagen-Thiessen E, Lindenberger U, Chan A, Hartung HP, Aktas O, Lohse P, Buttmann M, Kümpfel T, Kubisch C, Zettl UK, Epplen JT, Zipp F, Bertram L. Assessment of microRNA-related SNP effects in the 3' untranslated region of the IL22RA2 risk locus in multiple sclerosis. Neurogenetics. 2014 May;15(2):129-34.

17. International Multiple Sclerosis Genetics Consortium, Lill CM, Schjeide BM, Graetz C, Ban M, Alcina A, Ortiz MA, Pérez J, Damotte V, Booth D, Lopez de Lapuente A, Broer L, Schilling M, Akkad DA, Aktas O, Alloza I, Antigüedad A, Arroyo R, Blaschke P, Buttmann M, Chan A, Compston A, Cournu-Rebeix I, Dörner T, Epplen JT, Fernández Ó, Gerdes LA, Guillot-Noël L, Hartung HP, Hoffjan S, Izquierdo G, Kemppinen A, Kroner A, Kubisch C, Kümpfel T, Li SC, Lindenberger U, Lohse P, Lubetzki C, Luessi F, Malhotra S, Mescheriakova J, Montalban X, Papeix C, Paredes LF, Rieckmann P, Steinhagen-Thiessen E, Winkelmann A, Zettl UK, Hintzen R, Vandenbroeck K, Stewart G, Fontaine B, Comabella M, Urcelay E, Matesanz F, Sawcer S, Bertram L, Zipp F. MANBA, CXCR5, SOX8, RPS6KB1 and ZBTB46 are genetic risk loci for multiple sclerosis. Brain. 2013 Jun;136(Pt 6):1778-82. PMCID: PMC3673463
18. Ip CW, Kroner A, Groh J, Huber M, Klein D, Spahn I, Diem R, Williams SK, Nave KA, Edgar JM, Martini R. Neuroinflammation by cytotoxic T-lymphocytes impairs retrograde axonal transport in an oligodendrocyte mutant mouse. PLoS One. 2012;7(8):e42554. PMCID: PMC3414455
19. Schulz K, Kroner A, David S. Iron efflux from astrocytes plays a role in remyelination. J Neurosci. 2012 Apr 04;32(14):4841-7. PMCID: PMC6620916
20. David S, Kroner A. Repertoire of microglial and macrophage responses after spinal cord injury. Nat Rev Neurosci. 2011 Jun 15;12(7):388-99.
21. Nischwitz S, Cepok S, Kroner A, Wolf C, Knop M, Müller-Sarnowski F, Pfister H, Rieckmann P, Hemmer B, Ising M, Uhr M, Bettecken T, Holsboer F, Müller-Myhsok B, Weber F. More CLEC16A gene variants associated with multiple sclerosis. Acta Neurol Scand. 2011 Jun;123(6):400-6.
22. Nischwitz S, Cepok S, Kroner A, Wolf C, Knop M, Müller-Sarnowski F, Pfister H, Roeske D, Rieckmann P, Hemmer B, Ising M, Uhr M, Bettecken T, Holsboer F, Müller-Myhsok B, Weber F. Evidence for VAV2 and ZNF433 as susceptibility genes for multiple sclerosis. J Neuroimmunol. 2010 Oct 08;227(1-2):162-6.
23. Kohl B, Groh J, Wessig C, Wiendl H, Kroner A, Martini R. Lack of evidence for a pathogenic role of T-lymphocytes in an animal model for Charcot-Marie-Tooth disease 1A. Neurobiol Dis. 2010 Apr;38(1):78-84.
24. Kroner A, Ip CW, Thalhammer J, Nave KA, Martini R. Ectopic T-cell specificity and absence of perforin and granzyme B alleviate neural damage in oligodendrocyte mutant mice. Am J Pathol. 2010 Feb;176(2):549-55. PMCID: PMC2808063
25. Kroner A, Schwab N, Ip CW, Ortler S, Göbel K, Nave KA, Mäurer M, Martini R, Wiendl H. Accelerated course of experimental autoimmune encephalomyelitis in PD-1-deficient central nervous system myelin mutants. Am J Pathol. 2009 Jun;174(6):2290-9. PMCID: PMC2684193
26. Kroner A, Schwab N, Ip CW, Leder C, Nave KA, Mäurer M, Wiendl H, Martini R. PD-1 regulates neural damage in oligodendroglia-induced inflammation. PLoS One. 2009;4(2):e4405. PMCID: PMC2635015
27. Ip CW, Kroner A, Kohl B, Wessig C, Martini R. Tacrolimus (FK506) causes disease aggravation in models for inherited peripheral myelinopathies. Neurobiol Dis. 2009 Feb;33(2):207-12.
28. Buttmann M, Nowak E, Kroner A, Hemmer B, Lesch KP, Rieckmann P. Analysis of the stathmin rs182455 single nucleotide promoter polymorphism in patients with multiple sclerosis. J Neurogenet. 2008;22(3):181-6.
29. Kroner A, Schwab N, Ip CW, Sommer C, Wessig C, Wiendl H, Martini R. The co-inhibitory molecule PD-1 modulates disease severity in a model for an inherited, demyelinating neuropathy. Neurobiol Dis. 2009 Jan;33(1):96-103.
30. International Multiple Sclerosis Genetics Consortium (IMSGC). Refining genetic associations in multiple sclerosis. Lancet Neurol. 2008 Jul;7(7):567-9. PMCID: PMC2696028
31. Ip CW, Kohl B, Kleinschnitz C, Reuss B, Nave KA, Kroner A, Martini R. Origin of CD11b+ macrophage-like cells in the CNS of PLP-overexpressing mice: low influx of haematogenous macrophages and unchanged blood-brain-barrier in the optic nerve. Mol Cell Neurosci. 2008 Aug;38(4):489-94.
32. Ortler S, Leder C, Mittelbronn M, Zozulya AL, Knolle PA, Chen L, Kroner A, Wiendl H. B7-H1 restricts neuroantigen-specific T cell responses and confines inflammatory CNS damage: implications for the lesion pathogenesis of multiple sclerosis. Eur J Immunol. 2008 Jun;38(6):1734-44.

33. Weber F, Fontaine B, Cournu-Rebeix I, Kroner A, Knop M, Lutz S, Müller-Sarnowski F, Uhr M, Bettecken T, Kohli M, Ripke S, Ising M, Rieckmann P, Brassat D, Semana G, Babron MC, Mrejen S, Gout C, Lyon-Caen O, Yaouanq J, Edan G, Clanet M, Holsboer F, Clerget-Darpoux F, Müller-Myhsok B. IL2RA and IL7RA genes confer susceptibility for multiple sclerosis in two independent European populations. Genes Immun. 2008 Apr;9(3):259-63.
34. Yu X, Koczan D, Sulonen AM, Akkad DA, Kroner A, Comabella M, Costa G, Corongiu D, Goertsches R, Camina-Tato M, Thiesen HJ, Nyland HI, Mørk SJ, Montalban X, Rieckmann P, Marrosu MG, Myhr KM, Epplen JT, Saarela J, Ibrahim SM. mtDNA nt13708A variant increases the risk of multiple sclerosis. PLoS One. 2008 Feb 13;3(2):e1530. PMCID: PMC2217590
35. Leder C, Schwab N, Ip CW, Kroner A, Nave KA, Dornmair K, Martini R, Wiendl H. Clonal expansions of pathogenic CD8+ effector cells in the CNS of myelin mutant mice. Mol Cell Neurosci. 2007 Nov;36(3):416-24.
36. Kroner A, Grimm A, Johannssen K, Mäurer M, Wiendl H. The genetic influence of the nonclassical MHC molecule HLA-G on multiple sclerosis. Hum Immunol. 2007 May;68(5):422-5.
37. Ey B, Kobsar I, Blazyca H, Kroner A, Martini R. Visualization of degenerating axons in a dysmyelinating mouse mutant with axonal loss. Mol Cell Neurosci. 2007 May;35(1):153-60.
38. Ip CW, Kroner A, Crocker PR, Nave KA, Martini R. Sialoadhesin deficiency ameliorates myelin degeneration and axonopathic changes in the CNS of PLP overexpressing mice. Neurobiol Dis. 2007 Jan;25(1):105-11.
39. Buck D, Kroner A, Rieckmann P, Mäurer M, Wiendl H. Analysis of the C/T(-1) single nucleotide polymorphism in the CD40 gene in multiple sclerosis. Tissue Antigens. 2006 Oct;68(4):335-8.
40. Gronen F, Ruprecht K, Weissbrich B, Klinker E, Kroner A, Hofstetter HH, Rieckmann P. Frequency analysis of HLA-B7-restricted Epstein-Barr virus-specific cytotoxic T lymphocytes in patients with multiple sclerosis and healthy controls. J Neuroimmunol. 2006 Nov;180(1-2):185-92.
41. Ip CW, Kroner A, Bendszus M, Leder C, Kobsar I, Fischer S, Wiendl H, Nave KA, Martini R. Immune cells contribute to myelin degeneration and axonopathic changes in mice overexpressing proteolipid protein in oligodendrocytes. J Neurosci. 2006 Aug 02;26(31):8206-16. PMCID: PMC6673777
42. Salih HR, Wintterle S, Krusch M, Kroner A, Huang YH, Chen L, Wiendl H. The role of leukemia-derived B7-H1 (PD-L1) in tumor-T-cell interactions in humans. Exp Hematol. 2006 Jul;34(7):888-94.
43. Wang Ip C, Kroner A, Fischer S, Berghoff M, Kobsar I, Mäurer M, Martini R. Role of immune cells in animal models for inherited peripheral neuropathies. Neuromolecular Med. 2006;8(1-2):175-90.
44. Linker RA, Kroner A, Horn T, Gold R, Mäurer M, Bendszus M. Iron particle-enhanced visualization of inflammatory central nervous system lesions by high resolution: preliminary data in an animal model. AJNR Am J Neuroradiol. 2006;27(6):1225-9. PMCID: PMC8133929
45. Kobsar I, Oetke C, Kroner A, Wessig C, Crocker P, Martini R. Attenuated demyelination in the absence of the macrophage-restricted adhesion molecule sialoadhesin (Siglec-1) in mice heterozygously deficient in P0. Mol Cell Neurosci. 2006 Apr;31(4):685-91.
46. Zavala-Góngora R, Kroner A, Bernthaler P, Knaus P, Brehm K. A member of the transforming growth factor-beta receptor family from Echinococcus multilocularis is activated by human bone morphogenetic protein 2. Mol Biochem Parasitol. 2006 Apr;146(2):265-71.
47. Vogler S, Goedde R, Miterski B, Gold R, Kroner A, Koczan D, Zettl UK, Rieckmann P, Epplen JT, Ibrahim SM. Association of a common polymorphism in the promoter of UCP2 with susceptibility to multiple sclerosis. J Mol Med (Berl). 2005 Oct;83(10):806-11.
48. Kroner A, Vogel F, Kolb-Mäurer A, Kruse N, Toyka KV, Hemmer B, Rieckmann P, Mäurer M. Impact of the Asp299Gly polymorphism in the toll-like receptor 4 (tlr-4) gene on disease course of multiple sclerosis. J Neuroimmunol. 2005 Aug;165(1-2):161-5.
49. Kroner A, Mehling M, Hemmer B, Rieckmann P, Toyka KV, Mäurer M, Wiendl H. A PD-1 polymorphism is associated with disease progression in multiple sclerosis. Ann Neurol. 2005 Jul;58(1):50-7.
50. Rosche B, Cepok S, Stei S, Vogel F, Grummel V, Hoffmann S, Kroner A, Mäurer M, Rieckmann P, Sommer N, Hemmer B. The role of the polio virus receptor and the herpesvirus entry mediator B genes for the development of MS. J Neuroimmunol. 2004 Nov;156(1-2):171-7.
51. Kroner A, Mäurer M, Loserth S, Kleinschnitz C, Hemmer B, Rosche B, Toyka KV, Rieckmann P. Analysis of the monocyte chemoattractant protein 1 -2518 promoter polymorphism in patients with multiple sclerosis. Tissue Antigens. 2004 Jul;64(1):70-3.
52. Spiliotis M, Kroner A, Brehm K. Identification, molecular characterization and expression of the gene encoding the epidermal growth factor receptor orthologue from the fox-tapeworm Echinococcus multilocularis. Gene. 2003 Dec 24;323:57-65.

53. Zavala-Góngora R, Kroner A, Wittek B, Knaus P, Brehm K. Identification and characterisation of two distinct Smad proteins from the fox-tapeworm Echinococcus multilocularis. Int J Parasitol. 2003 Dec;33(14):1665-77.
54. Brehm K, Wolf M, Beland H, Kroner A, Frosch M. Analysis of differential gene expression in Echinococcus multilocularis larval stages by means of spliced leader differential display. Int J Parasitol. 2003 Sep 30;33(11):1145-59.
55. Konrad C, Kroner A, Spiliotis M, Zavala-Góngora R, Brehm K. Identification and molecular characterisation of a gene encoding a member of the insulin receptor family in Echinococcus multilocularis. Int J Parasitol. 2003 Mar;33(3):301-12.
56. David S, Ryan F, Jhelum P, Kroner A. Ferroptosis in Neurological Disease. Neuroscientist. 2023 Oct;29(5):591-615.
57. Rosas Almanza J, Stehlik KE, Page JJ, Xiong SH, Tabor EG, Aperi B, Patel K, Kodali R, Kurpad S, Budde MD, Tarima S, Swartz K, Kroner A. IL-12p40 promotes secondary damage and functional impairment after spinal cord contusional injury. J Neurosci Res. 2022 Dec;100(12):2213-2231.
58. Page JJ, Almanza JR, Xiong S, Aishwarya V, Kroner A. Self-delivering mRNA inhibitors of MK2 improve outcomes after spinal cord injury. J Neuroimmunol. 2023 Jun 15;379:578103.
59. St-Pierre MK, González Ibáñez F, Kroner A, Tremblay MÈ. Microglia/macrophages are ultrastructurally altered by their proximity to spinal cord injury in adult female mice. J Neuroinflammation. 2023 Nov 21;20(1):273. PMCID: PMC10664529