



MEDIZINISCHE
FAKULTÄT

Publikationsbericht 2025

Institut für Inflammation und Neurodegeneration

INSTITUT FÜR INFLAMMATION UND NEURODEGENERATION

1. LEITUNG

Prof. Dr. rer. nat. habil. Ildiko Rita Dunay

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFsätze

Arndt, Philipp; Morton Moreno, Lorena; Briese, Michael; Lämmlin, Naomi; Mattern, Hendrik; Hasanuzzaman, Mohammed; Westhues, Melina; Khoshneviszadeh, Mahsima; Appenzeller, Silke; Gündel, Daniel; Toussaint, Magali; Brust, Peter; Kniess, Torsten; Oelschlegel, Anja Maria; Goldschmidt, Jürgen; Meuth, Sven; Müller, Patrick; Braun-Dullaeus, Rüdiger; Debska-Vielhaber, Grazyna; Vielhaber, Stefan; Becker, Axel; Dityatev, Alexander; Henneicke, Solveig; Sendtner, Michael; Dunay, Ildikò Rita; Schreiber, Stefanie

Vascular and neural transcriptomics reveal stage-dependent pathways to inflammation and cognitive dysfunction in a rat model of hypertension

Journal of the American Heart Association - New York, NY : Association, Bd. 14 (2025), Artikel e040710, insges. 26 S. ;

[Online ahead of print]

[Imp.fact.: 5.3]

Arra, Aditya; Vogel, Katrin; Han, Irina Han; Behrendt, Christine; Dunay, Ildikò Rita; Häupl, Thomas; Feist, Eugen; Brunner-Weinzierl, Monika

PD1+ innate lymphoid cells 3 predict JAK-dependent inflammation in rheumatoid arthritis

Journal of autoimmunity - [Amsterdam]: Elsevier, Bd. 154 (2025), Artikel 103424, insges. 11 S.

[Imp.fact.: 7.0]

Claaß, Luise V.; Schick, Franziska; Rocktäschel, Tonia; Garza, Alejandra P.; Gaser, Christian; Reuken, Philipp Alexander; Stallmach, Andreas; Finke, Kathrin; Edwin Thanarajah, Sharmili; Walter, Martin; Dunay, Ildikò Rita; Besteher, Bianca; Opel, Nils

Relationship between body mass index, gray matter volume and peripheral inflammation in patients with post-COVID condition

Brain, behavior, & immunity - health - [Amsterdam]: Elsevier B.V., Bd. 50 (2025), Artikel 101137, insges. 9 S.

[Imp.fact.: 3.5]

Deshpande, Divija; Velleman, Laura; Schmitz, Janna; Forster, Patrycja M.; Schinke, Christian; Boulekou, Sotiria; Düsedau, Henning Peter; Krug, Susanne M.; Mertens, Till; Gao, Xuemei; Figueiredo, Caio Andreetta; Jarick, Katja Julika; Plum, Thomas; Sterczyk, Nele; Leclère, Pierre S.; Helfrich, Sofia; Tappe-Theodor, Anke; Kotsch, Katja; Steffen, Johannes; Vöhringer, David; Dürr, Claudia Ursula; Hauser, Anja Erika; Artis, David; Pitzer, Claudia; Dunay, Ildikò Rita; Klose, Christoph Siegfried Niki

Group 2 innate lymphoid cells regulate nociceptive and gait functions of the peripheral nervous system

Science immunology - Washington, DC : AAAS, Bd. 10 (2025), Heft 111, Artikel eadp7092, insges. 17 S.

[Imp.fact.: 16.3]

Düsedau, Henning Peter; Cangalaya Lira, Carla Marcia; Stoyanov, Stoyan; Dityatev, Alexander; Dunay, Ildikò Rita

Reduced synaptic tagging by complement protein C3 is associated with elevated extracellular matrix in the middle-aged cerebellum of mice

Frontiers in aging neuroscience - Lausanne : Frontiers Research Foundation, Bd. 17 (2025), Artikel 1616390, insges. 12 S.

[Imp.fact.: 4.5]

Garza, Alejandra P.; Morton Moreno, Lorena; Motsch, Anna-Lena; Puta, Christian; Stiebler, Marvin; Lading, Yves; Chakrabarty, Sabyasachi; Schreiber, Stefanie; Buzás, Edit I.; Braun-Dullaeus, Rüdiger; Müller, Patrick; Dunay, Ildikò Rita

Acute exercise alters immune responses in older adults, with extracellular vesicle changes observed in a high-intensity intervention

Frontiers in immunology - Lausanne : Frontiers Media, Bd. 16 (2025), Artikel 1661161, insges. 18 S.

[Imp.fact.: 5.9]

Hansen, Niels; Buschatzky, Vincent; Bastin, Anne Katharina; Rentzsch, Kristin; Teegen, Bianca; Lüdecke, Daniel; Skripuletz, Thomas; Maier, Hannah Benedictine; Bleich, Stefan; Gallinat, Jürgen; Esselmann, Hermann; Dunay, Ildikò Rita; Zerr, Inga; Fitzner, Dirk; Wiltfang, Jens; Neyazi, Alexandra; Schott, Björn H.; Malchow, Berend

Neural autoantibodies in psychiatric disorders are associated with antibodies against viral pathogens - a retrospective study of 619 patients

Journal of neural transmission - Wien [u.a.]: Springer, Bd. 132 (2025), Heft 7, S. 1063-1074

[Imp.fact.: 4.0]

Morton Moreno, Lorena; Garza, Alejandra P.; Debska-Vielhaber, Grazyna; Villafuerte, Luis E.; Henneicke, Solveig; Arndt, Philipp; Meuth, Sven; Schreiber, Stefanie; Dunay, Ildikò Rita

Pericytes and extracellular vesicle interactions in neurovascular adaptation to chronic arterial hypertension

Journal of the American Heart Association - New York, NY : Association, Bd. 14 (2025), Heft 1, Artikel e038457, insges. 31 S.

[Imp.fact.: 5.3]

Steffen, Johannes

Immunity recharged - harnessing deep brain stimulation to reverse immune dysregulation

Brain, behavior and immunity - Orlando, Fla. [u.a.]: Elsevier, Bd. 124 (2025), S. 95-96

[Imp.fact.: 7.6]

Steffen, Johannes; Deshpande, Divija; Düsedau, Henning Peter; Schmitz, Janna; Figueiredo, Caio Andreeta; Velleman, Laura; Pitzer, Claudia; Klose, Christoph Siegfried Niki; Dunay, Ildikò Rita

Group 2 innate lymphoid cells drive inhibitory synapse formation with lasting effects on learning and memory

Journal of neuroinflammation - London : BioMed Central, Bd. 22 (2025), S. 1-10, Artikel 163, insges. 10 S. ;

[Gesehen am: 08.12.2025]

[Imp.fact.: 10.1]

Toepffer, Antonia; Früh, Marlene; Rocktäschel, Tonia; Ballez, Johanna; Troll, Marie; Güllmar, Daniel; Finke, Kathrin; Reuken, Philipp Alexander; Stallmach, Andreas; Vonderlind, Sabine; Dunay, Ildikò Rita; Gaser, Christian; Walter, Martin; Besteher, Bianca

Cognition-associated gray matter volume alterations in long-COVID show sex-specific patterns

Frontiers in psychiatry - Lausanne : Frontiers Research Foundation, Bd. 16 (2025), Artikel 1653295, insges. 14 S.

[Imp.fact.: 3.2]

Wagner, Tina; Dunay, Ildikò Rita; Dauschies, Arwid; Wiedmer, Stefanie; Bangoura, Berit

Development of an in vitro assay using abscisic acid to study *Toxoplasma gondii* infectivity

Experimental parasitology - Orlando, Fla. : Academic Press, Bd. 277 (2025), Artikel 109011, insges. 8 S.

[Imp.fact.: 1.6]

ABSTRACTS

Erdmann-Wolff, Ines; Hahn, Nele; Düsedau, Henning Peter; Lockau, Juliane; Dunay, Ildikò Rita; Garbers, Christoph; Albrecht, Anne

IL-11 regulates VGAT protein levels in hippocampal neurons

Annals of anatomy - Jena : Elsevier, Bd. 260 (2025), Artikel 152549, insges. 1 S.

[Imp.fact.: 1.7]