

Publications Univ.-Prof. Dr. med. Joachim Weis

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- Reviews, guidelines, etc.
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- Others: Habilitation treatise (*Habilitationsschrift*), Doctoral thesis (*Dissertation*)

20 selected publications

Weis J, Schröder JM: Differential effects of nerve, muscle and fat tissue on regenerating nerve fibers in vivo. *Muscle & Nerve* 12: 723-734, 1989

Weis J, Fine SM, David C, Savarirayan S, Sanes JR: Integration site-dependent expression of a transgene reveals special features of cells associated with neuromuscular junctions. *J Cell Biol* 113: 1385-1397, 1991

Weis J: Jun, fos, myoD, and myogenin proteins are increased in skeletal muscle fiber nuclei after denervation. *Acta Neuropathol* 87: 63-70, 1994

Porter BE, **Weis J**, Merlie JP, Sanes JR: A motoneuron-selective stop signal for neurite outgrowth in the synaptic protein, s-laminin. *Neuron* 14: 549-559, 1995

Weis J, Lie DC, Ragoß U, Züchner S, Karpati G, Yancopoulos GD, DiStefano PS: CNTF receptor alpha expression is increased in acute denervation atrophy of human skeletal muscle. *J Neuropathol Exp Neurol* 57: 850-857, 1998

Brunello AG, Weissenberger J, Kappeler A, Vallan C, Peters M, Rose-John S, **Weis J**: CNS alterations in interleukin-6/soluble interleukin-6 receptor alpha double transgenic mice. *Am J Pathol* 157: 1485-1493, 2000

Weissenberger J, Loeffler S, Afanasieva T, Aguzzi A, Kopf M, **Weis J**: IL-6 is required for glioma development in a mouse model. *Oncogene* 23: 3308-3316, 2004

Bremer J, Baumann F, Tiberi C, Wessig C, Fischer H, Schwarz P, Steele AD, Toyka KV, Nave KA, **Weis J**, Aguzzi A. Axonal prion protein is required for peripheral myelin maintenance. *Nature Neurosci.* 13(3): 310-318, 2010

Brauers E, Dreier A, Roos A, Wormland B, **Weis J***, Krüttgen A*. Differential effects of myopathy-associated caveolin 3-mutants on growth factor signaling. *Am J Pathol.* 177(1): 261-70, 2010 *Equal contribution

Weis J*, Katona I*, Müller-Newen G, Sommer C, Necula G, Hendrich C, Ludolph AC, Sperfeld A-D. Small fiber neuropathy in ALS patients. *Neurology.* 76(23): 2024-2029, 2011. *Equal contribution

Prause J*, Goswami A*, Katona I, Roos A, Schnizler M, Bushuven E, Dreier A, Buchkremer S, Johann S, Beyer C, Deschauer M, Troost D, **Weis J**. Altered localization, abnormal modification and loss of function of Sigma receptor-1 in amyotrophic lateral sclerosis. *Hum Mol Genet.* 22(8): 1581-1600, 2013. *Equal contr.

Roos A, Buchkremer S, Kollipara L, Labisch T, Gatz C, Zitzelsberger M, Brauers E, Nolte K, Schröder JM, Kirschner J, Jesse CM, Goebel HH, Goswami A, Zimmermann R, Zahedi RP, Senderek J, **Weis J**. Myopathy in Marinesco-Sjögren syndrome links endoplasmic reticulum chaperone dysfunction to nuclear envelope pathology. *Acta Neuropathol.* 127(5): 761-777, 2014

Filézac de L'Etang A, Maharjan N, Cordeiro Braña M, Ruegsegger C, Rehmann R, Goswami A, Roos A, Troost D, Schneider BL, **Weis J**, Saxena S. Marinesco-Sjögren syndrome protein SIL1 regulates motor neuron subtype-selective ER stress in ALS. *Nature Neurosci.* 18(2): 227-238, 2015

Khaminets A, Heinrich T, Mari M, Grumati P, Huebner AK, Akutsu M, Liebmann L, Stolz A, Nietzsche S, Koch N, Mauthe M, Katona I, Qualmann B, **Weis J**, Reggiori F, Kurth I, Hübner CA, Dikic I. Regulation of endoplasmic reticulum turnover by selective autophagy. *Nature.* 522 (7556): 354-358, 2015

Goswami A, Jesse C, Chandrasekar A, Bushuven E, Vollrath J, Dreser A, Katona I, Beyer C, Johann S, Feller A, Grond M, Wagner S, Nikolin S, Troost D, **Weis J**. Accumulation of STIM1 is associated with the degenerative muscle fibre phenotype in ALS and other neurogenic atrophies. *Neuropathol Appl Neurobiol.* 41(3): 304-18, 2015

Jesse CM, Bushuven E, Tripathi P, Chandrasekar A, Simon CM, Drepper C, Yamoah A, Dreser A, Katona I, Johann S, Beyer C, Wagner S, Grond M, Nikolin S, Anink J, Troost D, Sendtner M, Goswami A, **Weis J**. ALS-associated endoplasmic reticulum proteins in denervated skeletal muscle: Implications for motor neuron disease pathology. *Brain Pathol.* 27(6):781-794, 2017

Dreser A, Vollrath JT, Sechi A, Johann S, Roos A, Yamoah A, Katona I, Boholega S, Wiemuth D, Tian Y, Schmidt A, Vervoorts-Weber J, Dohmen M, Beyer C, Anink J, Aronica E, Troost D, **Weis J***, Goswami A*. The ALS-linked E102Q mutation in Sigma receptor-1 leads to ER stress-mediated defects in protein homeostasis and dysregulation of RNA binding proteins. *Cell Death Differ.* 10:1655-1671, 2017. *Equal contribution

Bouhy D, Juneja M, Katona I, Holmgren A, Asselbergh B, De Winter V, Hochepped T, Goossens S, Haigh JJ, Libert C, Ceuterick-de Groote C, Irobi J, **Weis J**, Timmerman V. A knock-in/knock-out mouse model of HSPB8-associated distal hereditary motor neuropathy and myopathy reveals toxic gain-of-function of mutant Hspb8. *Acta Neuropathol.* 135(1): 131-148, 2018

Mair D, Biskup S, Kress W, Abicht A, Brück W, Zechel S, Knop KC, Koenig FB, Tey S, Nikolin S, Eggemann K, Kurth I, Ferbert A, **Weis J**. Differential diagnosis of vacuolar myopathies in the NGS era. *Brain Pathol.* 30(5): 877-896, 2020

Tripathi P, Guo H, Dreser A, Yamoah A, Sechi A, Jesse C, Katona I, Doukas P, Nikolin S, Ernst S, Aronica E, Troost D, Glass H, Hermann A, Steinbusch H, Feller A, Bergmann M, Jaarsma D*, **Weis J***, Goswami A*. Pathomechanisms of ALS8: Altered autophagy and defective RNA binding protein (RBP) homeostasis due to the VAPB-P56S mutation. *Cell Death Dis.* 2021 12(5): 466, 2021. *equal contribution

Chronological list of publications in scientific journals excluding reviews, guidelines and comments

Publications 2021

356. Della Marina A, Arlt A, Schara-Schmidt U, Depienne C, Gangfuß A, Köbel H, Sickmann A, Freier E, Kohlschmidt N, Hentschel A, **Weis J**, Czech A, Grüneboom A, Roos A. Phenotypical and Myopathological Consequences of Compound Heterozygous Missense and Nonsense Variants in SLC18A3. *Cells*. 10(12):3481, 2021

355. Hummel C, Leylamian O, Pösch A, **Weis J**, Aronica E, Beyer C, Johann S. Expression and cell type-specific localization of inflammasome sensors in the spinal cord of SOD1(G93A) mice and sALS patients. *Neuroscience*. 463: 288-302, 2021

354. Peters S, Kuespert S, Wirkert E, Heydn R, Jurek B, Johannesen S, Hsam O, Korte S, Ludwig FT, Mecklenburg L, Mrowetz H, Altendorfer B, Poupardin R, Petri S, Thal DR, Hermann A, Weishaupt JH, **Weis J**, Aksoylu IS, Lewandowski SA, Aigner L, Bruun TH, Bogdahn U. Reconditioning the Neurogenic Niche of Adult Non-human Primates by Antisense Oligonucleotide-Mediated Attenuation of TGF β Signaling. *Neurotherapeutics*. 18(3):1963-1979, 2021

353. Anderegg L, Mariani L, Beck J, Andres RH, Gralla J, Luedi MM, **Weis J**, Christ E. Lateral one-third gland resection in Cushing patients with failed adenoma identification leads to low remission rates: long-term observations from a small, single-center cohort. *Acta Neurochir (Wien)*. 47(6):840-855, 2021, 2021

352. Kohlschmidt N, Elbracht M, Czech A, Häusler M, Phan V, Töpf A, Huang KT, Bartok A, Eggermann K, Zippel S, Eggermann T, Freier E, Groß C, Lochmüller H, Horvath R, Hajnóczky G, **Weis J**, Roos A. Molecular pathophysiology of human MICU1-deficiency. *Neuropathol Appl Neurobiol*. 47(6):840-855, 2021

351 Freischmidt A, Goswami A, Limm K, Zimyanin VL, Demestre M, Glaß H, Holzmann K, Helferich AM, Brockmann SJ, Tripathi P, Yamoah A, Poser I, Oefner PJ, Böckers TM, Aronica E, Ludolph AC, Andersen PM, Hermann A, **Weis J**, Reinders J, Danzer KM, Weishaupt JH. A serum microRNA sequence reveals fragile X protein pathology in amyotrophic lateral sclerosis. *Brain*. 144(4):1214-1229, 2021

350. Franzka P, Henze H, Jung MJ, Schüler SC, Mittag S, Biskup K, Liebmann L, Kentache T, Morales J, Martínez B, Katona I, Herrmann T, Huebner AK, Hennings JC, Groth S, Gresing LJ, Horstkorte R, Marquardt T, **Weis J**, Kaether C, Mutchinick OM, Ori A, Huber O, Blanchard V, von Maltzahn J, Hübner CA. GMPPA defects cause a neuromuscular disorder with α -dystroglycan hyperglycosylation. *J Clin Invest*. 131(9):e139076, 2021

349. Tripathi P, Guo H, Dreser A, Yamoah A, Sechi A, Jesse C, Katona I, Doukas P, Nikolin S, Ernst S, Aronica E, Troost D, Glass H, Hermann A, Steinbusch H, Feller A, Bergmann M, Jaarsma D*, **Weis J***, Goswami A*. Pathomechanisms of ALS8: Altered autophagy and defective RNA binding protein (RBP) homeostasis due to the VAPB-P56S mutation. *Cell Death Dis*. 2(5):466, 2021. *equal contribution

348. Deschauer M, Hengel H, Rupprich K, Kreiß M, Schlotter-Weigel B, Grimm M, Admard J, Schneider I, Alhaddad B, Gazou A, Sturm M, Vorgerd M, Balousha G, Balousha O, Falna M, Kirschke JS, Kornblum C, Jordan B, Kraya T, Strom TM, **Weis J**,

Schöls L, Schara U, Zierz S, Riess O, Meitinger T, Haack TB. Bi-allelic truncating mutations in VWA1 cause neuromyopathy. *Brain* 144(2):574-583, 2021

347. Lausberg E, Gießelmann S, Dewulf JP, Wiame E, Holz A, Salvarinova R, Van Karnebeek C, Klemm P, Ohl K, Mull M, Braunschweig T, **Weis J**, Sommer C, Demuth S, Haase C, Debray F-G, Libiouille C, Choukair D, Oommen PT, Borkhardt A, Surowy H, Wiczorek D, Meyer R, Eggermann T, Begemann M, Van Schaftingen E, Häusler M, Tenbrock K, van den Heuvel L, Elbracht M, Kurth, Kraft F. A human multisystem disorder with autoinflammation, leukoencephalopathy and hepatopathy is caused by mutations in C2orf69. *J Clin Invest.* 131(12):e143078, 2021

346. Krasselt M, Schober R, **Weis J**, Baum P, Baerwald CGO, Seifert O. A Primary Myopathy Complicating Long-lasting Polymyalgia Rheumatica. *J Clin Rheumatol.* 27(1): e28-e29, 2021

Publications 2020

345. Kölbel H, Roos A, van der Ven PFM, Evangelista T, Nolte K, Johnson K, Töpf A, Wilson M, Kress W, Sickmann A, Straub V, Kollipara L, **Weis J**, Fürst DO, Schara U. First clinical and myopathological description of a myofibrillar myopathy with congenital onset and homozygous mutation in FLNC. *Hum Mutat.* 41(9): 1600-1614, 2020

344. Rabenstein M, **Weis J**, Abicht A, Fink GR, Lehmann HC, Wunderlich G. [Multiple acyl-CoA dehydrogenase deficiency/glutaric aciduria type 2: difficult diagnosis, easy to treat]. *Nervenarzt.* 91(4): 349-352, 2020

343. Mair D, Biskup S, Kress W, Abicht A, Brück W, Zechel S, Knop KC, Koenig FB, Tey S, Nikolin S, Eggermann K, Kurth I, Ferbert A, **Weis J**. Differential diagnosis of vacuolar myopathies in the NGS era. *Brain Pathol.* 30(5): 877-896, 2020

342. Mathis S, Vallat JM, **Weis J**. When botany inspired pathology of the peripheral nervous system. *Neurology.* 95(12): 532-536, 2020

341. Hedberg-Oldfors C, Meyer R, Nolte K, Abdul Rahim Y, Lindberg C, Karason K, Thuestad IJ, Visuttijai K, Geijer M, Begemann M, Kraft F, Lausberg E, Hitpass L, Götzl R, Luna EJ, Lochmüller H, Koschmieder S, Gramlich M, Gess B, Elbracht M, **Weis J**, Kurth I, Oldfors A, Knopp C. Loss of supervillin causes myopathy with myofibrillar disorganization and autophagic vacuoles. *Brain.* 143(8): 2406-2420, 2020

340. Yamoah A, Tripathi P, Sechi A, Köhler C, Guo H, Chandrasekar A, Nolte KW, Wruck CJ, Katona I, Anink J, Troost D, Aronica E, Steinbusch H, **Weis J***, Goswami A*. Aggregates of RNA Binding Proteins and ER Chaperones Linked to Exosomes in Granulovacuolar Degeneration of the Alzheimer's Disease Brain. *J Alzheimers Dis.* 75(1): 139-156, 2020. *equal contribution

339. Yilmazer-Hanke D, Mayer T, Müller HP, Neugebauer H, Abaei A, Scheuerle A, **Weis J**, Forsberg KME, Althaus K, Meier J, Ludolph AC, Del Tredici K, Braak H, Kasubek J, Rasche V. Histological correlates of postmortem ultra-high-resolution single-section MRI in cortical cerebral microinfarcts. *Acta Neuropathol Commun.* 8(1): 33, 2020

338. Altinova H, Hammes S, Palm M, Achenbach P, Gerardo-Nava J, Deumens R, Führmann T, van Neerven SGA, Hermans E, **Weis J**, Brook G. Dense fibroadhesive scar-

ring and poor blood vessel-maturation hamper the integration of implanted collagen scaffolds in an experimental model of spinal cord injury. *Biomed Mater.* 15(1): 015012, 2020

337. Farschtschi SC, Kluwe L, Schön G, Friedrich RE, Matschke J, Glatzel M, **Weis J**, Hagel C, Mautner VF. Distinctive low epidermal nerve fiber density in schwannomatosis patients provides a major parameter for diagnosis and differential diagnosis. *Brain Pathol.* 30(2): 386-391, 2020

336. Kulesa M, Weyer-Menkhoff I, Viergutz L, Kornblum C, Claeys KG, Schneider I, Plöckinger U, Young P, Boentert M, Vielhaber S, Mawrin C, Bergmann M, **Weis J**, Ziagaki A, Stenzel W, Deschauer M, Nolte D, Hahn A, Schoser B, Schänzer A. An integrative correlation of myopathology, phenotype, and genotype in late onset Pompe disease. *Neuropathol Appl Neurobiol* 46(4): 359-374, 2020

335. Altinova H, Hammes S, Palm M, Achenbach P, Gerardo-Nava J, Deumens R, Führmann T, van Neerven SGA, Hermans E, **Weis J**, Brook G. Dense fibroadhesive scarring and poor blood vessel-maturation hamper the integration of implanted collagen scaffolds in an experimental model of spinal cord injury. *Biomed Mater.* 13;15(1):015012, 2020

2019

334. Dafsari HS, Kocaturk NM, Daimagüler HS, Brunn A, Dötsch J, **Weis J**, Deckert M, Cirak S. Bi-allelic mutations in uncoordinated mutant number-45 myosin chaperone B are a cause for congenital myopathy. *Acta Neuropathol Commun.* 7(1): 211, 2019

333. Rudnik-Schöneborn S, Huemer M, **Weis J**, Sauer E, Meng G. Early onset facio-scapulothoracic muscular dystrophy - Long-term follow-up of a patient with total facial diplegia. *Neuromuscul Disord.* 29(12): 973-976, 2019

332. Stengel H, Vural A, Brunder AM, Heinius A, Appeltshauser L, Fiebig B, Giese F, Dresel C, Papagianni A, Birklein F, **Weis J**, Huchtemann T, Schmidt C, Körtvelyessy, Villmann C, Meinel E, Sommer C, Leyboldt F, Doppler K. Anti-pan-neurofascin IgG3 as a marker of fulminant autoimmune neuropathy. *Neurol Neuroimmunol Neuroinflamm.* 6(5). pii: e603, 2019

331. Romeike BFM, Becker K, Großkreutz J, Schulz S, **Weis J**, Cirak S. A family with limb girdle muscular dystrophy type 1B and multiple exostoses. *Clin Neuropathol.* 38(5):225-232, 2019

330. Gatz C, Hathazi D, Münchberg U, Buchkremer S, Labisch T, Munro B, Horvath R, Töpf A, **Weis J**, Roos A. Identification of Cellular Pathogenicity Markers for SIL1 Mutations Linked to Marinesco-Sjögren Syndrome. *Front Neurol.* 10: 562, 2019

329. Joseph S, Vingill S, Jahn O, Fledrich R, Werner HB, Katona I, Möbius W, Mitkovski M, Huang Y, **Weis J**, Sereda MW, Schulz JB, Nave KA, Stegmüller J. Myelinating gliaspecific deletion of Fbxo7 in mice triggers axonal degeneration in the central nervous system together with peripheral neuropathy. *J Neurosci.* 39(28): 5606-5626, 2019

328. Ross JA, Levy Y, Ripolone M, Kolb JS, Turmaine M, Holt M, Lindqvist J, Claeys KG, **Weis J**, Monforte M, Tasca G, Moggio M, Figeac N, Zammit PS, Jungbluth H, Fiorillo C, Vissing J, Witting N, Granzier H, Zanoteli E, Hardeman EC, Wallgren-Pettersson C,

Ochala J. Impairments in contractility and cytoskeletal organisation cause nuclear defects in nemaline myopathy. *Acta Neuropathol.* 138(3): 477-495, 2019

327. Fischbach F, Nedelcu J, Leopold P, Zhan J, Clarner T, Nellessen L, Beißel C, van Heuvel Y, Goswami A, **Weis J**, Denecke B, Schmitz C, Hochstrasser T, Nyamoya S, Victor M, Beyer C, Kipp M. Cuprizone-induced graded oligodendrocyte vulnerability is regulated by the transcription factor DNA damage-inducible transcript 3. *Glia.* 67(2): 263-276, 2019

326. Marrone L, Drexler HCA, Wang J, Tripathi P, Distler T, Heisterkamp P, Anderson EN, Kour S, Moraiti A, Maharana S, Bhatnagar R, Belgard TG, Tripathy V, Kalmbach N, Hosseinzadeh Z, Crippa V, Abo-Rady M, Wegner F, Poletti A, Troost D, Aronica E, Buskamp V, **Weis J**, Pandey UB, Hyman AA, Alberti S, Goswami A, Sternecker J. FUS pathology in ALS is linked to alterations in multiple ALS-associated proteins and rescued by drugs stimulating autophagy. *Acta Neuropathol.* 138(1): 67-84, 2019

325. Altinova H*, Hammes S*, Palm M, Gerardo-Nava J, Achenbach P, Deumens R, Hermans E, Führmann T, Boecker A, van Neerven S, Bozkurt A, **Weis J**, Brook GA. Fibroadhesive scarring of grafted collagen scaffolds interferes with implant–host neural tissue integration and bridging in experimental spinal cord injury. *Regenerative Biomaterials* 6(2): 75-87, 2019, *Equal contribution

324. Karsai G, Kraft F, Haag N, Korenke GC, Hänisch B, Othman A, Suriyanarayanan S, Steiner R, Knopp C, Mull M, Bergmann M, Schröder JM, **Weis J**, Elbracht M, Begemann M, Hornemann T, Kurth I. DEGS1-associated aberrant sphingolipid metabolism impairs nervous system function in humans. *J Clin Invest.* 129(3): 1229-1239, 2019

323. Kölbel H, Abicht A, Schwartz O, Katona I, Paulus W, Neuen-Jacob E, **Weis J**, Schara U. Characteristic clinical and ultrastructural findings in nesprinopathies. *Eur J Paediatr Neurol.* 23(2): 254-261, 2019

322. Phan V, Cox D, Cipriani S, Spendiff S, Buchkremer S, O'Connor E, Horvath R, Goebel HH, Hathazi D, Lochmüller H, Straka T, Rudolf R, **Weis J**, Roos A. SIL1 deficiency causes degenerative changes of peripheral nerves and neuromuscular junctions in fish, mice and human. *Neurobiol Dis.* 124: 218-229, 2019

2018

321. De Paepe B, Zschüntzsch J, Šokčević T, **Weis J**, Schmidt J, De Bleecker JL. Induction of Osmolyte Pathways in Skeletal Muscle Inflammation: Novel Biomarkers for Myositis. *Front Neurol.* 9: 846, 2018

320. Fischbach F, Nedelcu J, Leopold P, Zhan J, Clarner T, Nellessen L, Beißel C, van Heuvel Y, Goswami A, **Weis J**, Denecke B, Schmitz C, Hochstrasser T, Nyamoya S, Victor M, Beyer C, Kipp M. Cuprizone-induced graded oligodendrocyte vulnerability is regulated by the transcription factor DNA damage-inducible transcript 3. *Glia.* 2018 Dec 3. [Epub ahead of print]

319. Forsberg KME, Zhang Y, Reiners J, Ander M, Niedermayer A, Fang L, Neugebauer H, Kassubek J, Katona I, **Weis J**, Ludolph AC, Del Tredici K, Braak H, Yilmazer-Hanke D. Endothelial damage, vascular bagging and remodeling of the microvascular bed in human microangiopathy with deep white matter lesions. *Acta Neuropathol Commun.* 6(1): 128, 2018

318. Herbelet S, De Vlieghere E, Gonçalves A, De Paepe B, Schmidt K, Nys E, Weynants L, **Weis J**, Van Peer G, Vandesomepele J, Schmidt J, De Wever O, De Bleecker JL. Localization and Expression of Nuclear Factor of Activated T-Cells 5 in Myoblasts Exposed to Pro-inflammatory Cytokines or Hyperosmolar Stress and in Biopsies from Myositis Patients. *Front Physiol.* 9: 126, 2018
317. Vill K, Müller-Felber W, Gläser D, Kuhn M, Teusch V, Schreiber H, **Weis J**, Klepper J, Schirmacher A, Blaschek A, Wiessner M, Strom TM, Dräger B, Hofmeister-Kiltz K, Tacke M, Gerstl L, Young P, Horvath R, Senderek J. SACS variants are a relevant cause of autosomal recessive hereditary motor and sensory neuropathy. *Hum Genet.* 137(11-12): 911-919, 2018
316. Heinen MC, Babler A, **Weis J**, Elsas J, Nolte K, Kipp M, Jahnen-Dechent W, Häusler M. Fetuin-A protein distribution in mature inflamed and ischemic brain tissue. *PLoS One.* 13(11): e0206597, 2018
315. Quade A, **Weis J**, Kurth I, Rolke R, Bienert M, Schradling S, Rohrmann D, Yüksel Z, Häusler M. Microangiopathy and mild mixed neuromyopathic alterations in a patient with homozygous PIEZO-2 mutation. *Neuromuscul Disord.* 28(12):1006-1011, 2018
314. Vettermann FJ, Felsberg J, Reifenberger G, Hasselblatt M, Forbrig R, Berding G, la Fougère C, Galldiks N, Schittenhelm J, **Weis J**, Albert NL, Schüller U. Characterization of Diffuse Gliomas With Histone H3-G34 Mutation by MRI and Dynamic 18F-FET PET. *Clin Nucl Med.* 43(12): 895-898, 2018
313. Kork F, Jankowski J, Goswami A, **Weis J**, Brook G, Yamoah A, Anink J, Aronica E, Fritz S, Huck C, Schipke C, Peters O, Tepel M, Noels H, Jankowski V. Golgin A4 in CSF and granulovacuolar degenerations of Alzheimer patients. *Neurology.* 91(19): e1799-e1808, 2018
312. González Coraspe JA, **Weis J**, Anderson ME, Münchberg U, Lorenz K, Buchkremer S, Carr S, Zahedi RP, Brauers E, Michels H, Sunada Y, Lochmüller H, Campbell KP, Freier E, Hathazi D, Roos A. Biochemical and pathological changes result from mutated Caveolin-3 in muscle. *Skelet Muscle.* 8(1): 28, 2018
311. Arndt P, Leistner ND, Neuss S, Kaltbeitzel D, Brook GA, Grosse J. Artificial urine and FBS supplemented media in cytocompatibility assays for PLGA-PEG-based intravesical devices using the urothelium cell line UROtsa. *J Biomed Mater Res B Appl Biomater.* 106(6): 2140-2147, 2018
310. Laššuthová P, Vill K, Erdem-Ozdamar S, Schröder JM, Topaloglu H, Horvath R, Müller-Felber W, Bansagi B, Schlotter-Weigel B, Gläser D, Neupauerová J, Sedláčková L, Staněk D, Mazanec R, **Weis J**, Seeman P, Senderek J. Novel SBF2 mutations and clinical spectrum of Charcot-Marie-Tooth neuropathy type 4B2. *Clin Genet.* 94(5): 467-472, 2018
309. Boecker AH, Bozkurt A, Kim BS, Altinova H, Tank J, Deumens R, Tolba R, **Weis J**, Brook GA, Pallua N, van Neerven SGA. Cell-enrichment with olfactory ensheathing cells has limited local extra beneficial effects on nerve regeneration supported by the nerve guide Perimaix. *J Tissue Eng Regen Med.* 12(11): 2125-2137, 2018

308. Wunderlich G, Brunn A, Daimagüler HS, Bozoglu T, Fink GR, Lehmann HC, **Weis J**, Cirak S. Long term history of a congenital core-rod myopathy with compound heterozygous mutations in the Nebulin gene. *Acta Myol.* 37(2): 121-127, 2018
307. Fledrich R, Abdelaal T, Rasch L, Bansal V, Schütza V, Brügger B, Lüchtenborg C, Prukop T, Stenzel J, Rahman RU, Hermes D, Ewers D, Möbius W, Ruhwedel T, Katona I, **Weis J**, Klein D, Martini R, Brück W, Müller WC, Bonn S, Bechmann I, Nave KA, Stassart RM, Sereda MW. Targeting myelin lipid metabolism as a potential therapeutic strategy in a model of CMT1A neuropathy. *Nat Commun.* 9(1): 3025, 2018
306. Lohmann P, Piroth MD, Sellhaus B, **Weis J**, Geisler S, Oros-Peusquens AM, Mohlberg H, Amunts K, Shah NJ, Galldiks N, Langen KJ. Correlation of Dynamic O-(2-[18F]Fluoroethyl)-L-Tyrosine Positron Emission Tomography, Conventional Magnetic Resonance Imaging, and Whole-Brain Histopathology in a Pretreated Glioblastoma: A Postmortem Study. *World Neurosurg.* 119: e653-e660, 2018
305. Issop Y, Hathazi D, Khan MM, Rudolf R, **Weis J**, Spendiff S, Slater CR, Roos A, Lochmüller H. GFPT1 deficiency in muscle leads to myasthenia and myopathy in mice. *Hum Mol Genet.* 27(18): 3218-3232, 2018
304. Nikoubashman O, Heringer S, Feher K, Brockmann MA, Sellhaus B, Dreser A, Kurtenbach K, Pjontek R, Jockenhövel S, **Weis J**, Kießling F, Gries T, Wiesmann M. Development of a Polymer-Based Biodegradable Neurovascular Stent Prototype: A Preliminary In Vitro and In Vivo Study. *Macromol Biosci.* 18(7): e1700292, 2018
303. Yuan X, Klein D, Kersch S, West BL, **Weis J**, Katona I, Martini R. Macrophage depletion ameliorates peripheral neuropathy in aging mice. *J Neurosci.* 38(19): 4610-4620, 2018
302. Dusanic M, Dekomien G, Lücke T, Vorgerd M, **Weis J**, Epplen JT, Köhler C, Hoffjan S. Novel Nonsense Mutation in SLC39A13 Initially Presenting as Myopathy: Case Report and Review of the Literature. *Mol Syndromol.* 9(2): 100-109, 2018
301. Müller K, Brenner D, Weydt P, Meyer T, Grehl T, Petri S, Grosskreutz J, Schuster J, Volk AE, Borck G, Kubisch C, Klopstock T, Zeller D, Jablonka S, Sendtner M, Klebe S, Knehr A, Günther K, **Weis J**, Claeys KG, Schrank B, Sperfeld AD, Hübers A, Otto M, Dorst J, Meitinger T, Strom TM, Andersen PM, Ludolph AC, Weishaupt JH; German ALS network MND-NET. Comprehensive analysis of the mutation spectrum in 301 German ALS families. *J Neurol Neurosurg Psychiatry.* 89: 817-821, 2018
300. Lehmann S, Esch E, Hartmann P, **Goswami A**, Nikolin S, **Weis J**, Beyer C, Johann S. Expression profile of pattern recognition receptors in skeletal muscle of SOD1((G93A)) amyotrophic lateral sclerosis (ALS) mice and sporadic ALS patients. *Neuropathol Appl Neurobiol.* 37: 121-127, 2018
299. Radke J, Koll R, Preuße C, Pehl D, Todorova K, Schönemann C, Allenbach Y, Aronica E, de Visser M, Heppner FL, **Weis J**, Doostkam S, Maisonobe T, Benveniste O, Goebel HH, Stenzel W. Architectural B-cell organization in skeletal muscle identifies subtypes of dermatomyositis. *Neurol Neuroimmunol Neuroinflamm.* 5(3): e451, 2018
298. Naumann M, Pal A, Goswami A, Lojewski X, Japtok J, Vehlow A, Naujock M, Günther R, Jin M, Stanslawski N, Reinhardt P, Sternecker J, Frickenhaus M, Pan-Montojo F, Storkebaum E, Poser I, Freischmidt A, Weishaupt J, Holzmann K, Troost D, Ludolph A, Boeckers TM, Liebau S, Petri S, Cordes N, Hyman A, Wegner F, Grill S, **Weis J**, Storch

A, Hermann A. Impaired DNA damage response signaling by FUS-NLS mutations leads to neurodegeneration and aggregation formation. *Nature Commun.* 2018; 9: 335.

297. Brenner D, Yilmaz R, Müller K, Grehl T, Petri S, Meyer T, Grosskreutz J, Weydt P, Ruf W, Neuwirth C, Weber M, Pinto S, Claeys KG, Schrank B, Jordan B, Knehr A, Günther K, Hübers A, Zeller D; German ALS network MND-NET, Kubisch C, Jablonka S, Sendtner M, Klopstock T, de Carvalho M, Sperfeld A, Borck G, Volk AE, Dorst J, **Weis J**, Otto M, Schuster J, Del Tredici K, Braak H, Danzer KM, Freischmidt A, Meitinger T, Strom TM, Ludolph AC, Andersen PM, Weishaupt JH. Hot-spot KIF5A mutations cause familial ALS. *Brain.* 141: 688-697, 2018

296. Bouhy D, Juneja M, Katona I, Holmgren A, Asselbergh B, De Winter V, Hocheppied T, Goossens S, Haigh JJ, Libert C, Ceuterick-de Groote C, Irobi J, **Weis J**, Timmerman V. A knock-in/knock-out mouse model of HSPB8-associated distal hereditary motor neuropathy and myopathy reveals toxic gain-of-function of mutant Hspb8. *Acta Neuropathol.* 135(1): 131-148, 2018

295. Breuer T, Bleilevens C, Rossaint R, Marx G, Gehrenkemper J, Dierksen H, Delpierre A, **Weis J**, Gayan-Ramirez G, Bruells CS. Dexmedetomidine Impairs Diaphragm Function and Increases Oxidative Stress but Does Not Aggravate Diaphragmatic Atrophy in Mechanically Ventilated Rats. *Anesthesiology.* 128(4):784-795, 2018

294. Labisch T, Buchkremer S, Phan V, Kollipara L, Gatz C, Lentz C, Nolte K, Vervoorts-Weber J, González Coraspe JA, Sickmann A, Carr S, Zahedi RP, **Weis J**, Roos A. Tracking effects of SIL1 increase: taking a closer look beyond the consequences of elevated expression level. *Mol Neurobiol.* 2018; 55(3): 2524-2546

293. Quade A, Wiesmann M, **Weis J**, Kurth I, Jalaie H, Rohrbach M, Häusler M. Stroke in Ehlers-Danlos Syndrome Kyphoscoliotic Type: Dissection or Vasculitis? *Pediatr Neurol.* 28(12):1006-1011, 2018

2017

292. Wang H, Salter CG, Refai O, Hardy H, Barwick KES, Akpulat U, Kvarnung M, Chioza BA, Harlalka G, Taylan F, Sejersen T, Wright J, Zimmerman HH, Karakaya M, Stüve B, **Weis J**, Schara U, Russell MA, Abdul-Rahman OA, Chilton J, Blakely RD, Baple EL, Cirak S, Crosby AH. Choline transporter mutations in severe congenital myasthenic syndrome disrupt transporter localization. *Brain.* 2017;140(11):2838-2850.

291. Bozkurt A, Claeys KG, Schrading S, Rödler JV, Altinova H, Schulz JB, **Weis J**, Pallua N, van Neerven SGA. Clinical and biometrical 12-month follow-up in patients after reconstruction of the sural nerve biopsy defect by the collagen-based nerve guide Neuromaix. *Eur J Med Res.* 22(1): 34, 2017

290. Dreser A, Vollrath JT, Sechi A, Johann S, Roos A, Yamoah A, Katona I, Boholega S, Wiemuth D, Tian Y, Schmidt A, Vervoorts-Weber J, Dohmen M, Beyer C, Anink J, Aronica E, Troost D, **Weis J***, Goswami A*. The ALS-linked E102Q mutation in Sigma receptor-1 leads to ER stress-mediated defects in protein homeostasis and dysregulation of RNA binding proteins. *Cell Death Differ.* 10 24(10):1655-1671, 2017. *equal contribution

289. Cordts I, Bodart N, Hartmann K, Karagiorgou K, Tzartos JS, Mei L, Reimann J, Van Damme P, Rivner MH, Vigneron A, **Weis J**, Schulz JB, Tzartos SJ, Claeys KG. Screen-

ing for lipoprotein receptor-related protein 4-, agrin-, and titin-antibodies and exploring the autoimmune spectrum in myasthenia gravis. *J Neurol.* 264(6): 1193-1203, 2017

288. Schnitzler LJ, Schreckenbach T, Nadaj-Pakleza A, Stenzel W, Rushing EJ, Van Damme P, Ferbert A, Petri S, Hartmann C, Bornemann A, Meisel A, Petersen JA, Tousseyn T, Thal DR, Reimann J, De Jonghe P, Martin JJ, Van den Bergh PY, Schulz JB, **Weis J**, Claeys KG. Sporadic late-onset nemaline myopathy: clinico-pathological characteristics and review of 76 cases. *Orphanet J Rare Dis.* 12(1): 86. doi: 10.1186/s13023-017-0640-2, 2017

287. Fragoulis A, Siegl S, Fendt M, Jansen S, Soppa U, Brandenburg LO, Pufe T, **Weis J**, Wruck CJ. Oral administration of methysticin improves cognitive deficits in a mouse model of Alzheimer's disease. *Redox Biol.* 12: 843-853, 2017

286. Kollipara L, Buchkremer S, Coraspe JAG, Hathazi D, Senderek J, **Weis J**, Zahedi RP, Roos A. In-depth phenotyping of lymphoblastoid cells suggests selective cellular vulnerability in Marinesco-Sjögren syndrome. *Oncotarget.* 28;8(40):68493-68516, 2017

285. Reimann J, Kohlschmidt N, Tolksdorf K, **Weis J**, Kuchelmeister K, Roos A. Muscle pathology as a diagnostic clue to allgrove syndrome. *J Neuropathol Exp Neurol.* 76(5): 337-341, 2017

284. Hube L, Dohrn MF, Karsai G, Hirshman S, Van Damme P, Schulz JB, **Weis J**, Hornemann T, Claeys KG. Metabolic syndrome, neurotoxic 1-deoxysphingolipids and nervous tissue inflammation in chronic idiopathic axonal polyneuropathy (CIAP). *PLoS One.* 12(1): e0170583, 2017

283. Brauers E, Roos A, Kollipara L, Zahedi RP, Beckmann A, Mohanadas N, Bauer H, Häusler M, Thoma S, Kress W, Senderek J, **Weis J**. The Caveolin-3 G56S sequence variant of unknown significance: Muscle biopsy findings and functional cell biological analysis. *Proteomics Clin Appl.* 11(1-2) doi: 10.1002/prca.201600007, 2017

282. Jesse CM, Bushuven E, Tripathi P, Chandrasekar A, Simon CM, Drepper C, Yamoah A, Dreser A, Katona I, Johann S, Beyer C, Wagner S, Grond M, Nikolin S, Anink J, Troost D, Sendtner M, Goswami A, **Weis J**. ALS-associated endoplasmic reticulum proteins in denervated skeletal muscle: Implications for motor neuron disease pathology. *Brain Pathol.* 27(6): 781-794, 2017

2016

281. Buchkremer S, González Coraspe JA, **Weis J**, Roos A. Sil1-Mutant Mice Elucidate Chaperone Function in Neurological Disorders. *J Neuromuscul Dis.* 3(2): 169-181, 2016

280. Bouhy D, Geuens T, De Winter V, Almeida-Souza L, Katona I, **Weis J**, Hocheppied T, Goossens S, Haigh JJ, Janssens S, Timmerman V. Characterization of new transgenic mouse models for two Charcot-Marie-Tooth-causing HspB1 mutations using the Rosa26 locus. *J Neuromuscul Dis.* 3(2): 183-200, 2016

279. Altinova H, Möllers S, Deumens R, Gerardo-Nava J, Führmann T, van Neerven SG, Bozkurt A, Mueller CA, Hoff HJ, Heschel I, **Weis J**, Brook GA. Functional Recovery Not Correlated with Axon Regeneration through Olfactory Ensheathing Cell-Seeded Scaffolds in a Model of Acute Spinal Cord Injury. *Tissue Eng Regen Med.* 13(5): 585-600, 2016

278. Cordts I, Funk F, Schulz JB, **Weis J**, Claeys KG. Tubular aggregates in autoimmune Lambert-Eaton myasthenic syndrome. *Neuromuscul Disord.* 26(12): 880-884, 2016
277. van Neerven SG, Haastert-Talini K, Boecker A, Schriever T, Dabhi C, Claeys K, Deumens R, Brook GA, **Weis J**, Pallua N, Bozkurt A. Two-component collagen nerve guides support axonal regeneration in the rat peripheral nerve injury model. *J Tissue Eng Regen Med.* 2016 Dec 16. doi: 10.1002/term.2248. [Epub]
276. Unger A, Dekomien G, Güttsches A, Dreps T, Kley R, Tegenthoff M, Ferbert A, **Weis J**, Heyer C, Linke WA, Martinez-Carrera L, Storbeck M, Wirth B, Hoffjan S, Vorgerd M. Expanding the phenotype of BICD2 mutations toward skeletal muscle involvement. *Neurology.* 87(21): 2235-2243, 2016
275. Breuer T, Hatam N, Grabiger B, Marx G, Behnke BJ, **Weis J**, Kopp R, Gayan-Ramirez G, Zoremba N, Bruells CS. Kinetics of ventilation-induced changes in diaphragmatic metabolism by bilateral phrenic pacing in a piglet model. *Sci Rep.* 6: 35725, 2016
274. Bruells CS, Breuer T, Maes K, Bergs I, Bleilevens C, Marx G, **Weis J**, Gayan-Ramirez G, Rossaint R. Influence of weaning methods on the diaphragm after mechanical ventilation in a rat model. *BMC Pulm Med.* 16(1): 127, 2016
273. Joshi AR, Holtmann L, Bobylev I, Schneider C, Ritter C, **Weis J**, Lehmann HC. Loss of Schwann cell plasticity in chronic inflammatory demyelinating polyneuropathy (CIDP). *J Neuroinflammation.* 13(1): 255, 2016
272. Ferbert A, Zibat A, Rautenstrauß B, Kress W, Hügens-Penzel M, **Weis J**, Shah Y, Roth C. Laing distal myopathy with a novel mutation in exon 34 of the MYH7 gene. *Neuromuscul Disord.* 26(9): 598-603, 2016
271. Roos A, Kollipara L, Buchkremer S, Labisch T, Brauers E, Gatz C, Lentz C, Gerardo-Nava J, **Weis J**, Zahedi RP. Cellular Signature of SIL1 Depletion: Disease Pathogenesis due to Alterations in Protein Composition Beyond the ER Machinery. *Mol Neurobiol.* 53(8): 5527-41, 2016
270. Wolf HH, Kornhuber ME, **Weis J**, Posa A. Dysautonomic polyneuropathy as a variant of chronic inflammatory "demyelinating" polyneuropathy? *Clin Auton Res.* 26(4): 303-5; 2016
269. De Paepe B, Martin JJ, Herbelet S, Jimenez-Mallebrera C, Iglesias E, Jou C, **Weis J**, De Bleecker JL. Activation of osmolyte pathways in inflammatory myopathy and Duchenne muscular dystrophy points to osmoregulation as a contributing pathogenic mechanism. *Lab Invest.* 96(8): 872-84, 2016
268. Schrempf W, Katona I, Dogan I, Felbert VV, Wienecke M, Heller J, Maier A, Hermann A, Linse K, Brandt MD, Reichmann H, Schulz JB, Schiefer J, Oertel WH, Storch A, **Weis J**, Reetz K. Reduced intraepidermal nerve fiber density in patients with REM sleep behavior disorder. *Parkinsonism Relat Disord.* 29: 10-6, 2016
267. Werheid F, Azzedine H, Zwerenz E, Bozkurt A, Moeller MJ, Lin L, Mull M, Häusler M, Schulz JB, **Weis J**, Claeys KG. Underestimated associated features in CMT neuropathies: clinical indicators for the causative gene? *Brain Behav.* 6(4): e00451, 2016

266. Kollipara L, Buchkremer S, **Weis J**, Brauers E, Hoss M, Rütten S, Caviedes P, Zahedi RP, Roos A. Proteome Profiling and Ultrastructural Characterization of the Human RCMH Cell Line: Myoblastic Properties and Suitability for Myopathological Studies. *J Proteome Res.* 15(3): 945-55, 2016
265. Braczynski AK, Harter PN, Zeiner PS, Drott U, Tews DS, Preusse C, Penski C, Dunst M, **Weis J**, Stenzel W, Mittelbronn M. C5b-9 deposits on endomysial capillaries in non-dermatomyositis cases. *Neuromuscul Disord.* 26(4-5): 283-91, 2016
264. Claeys KG, Abicht A, Häusler M, Kleinle S, Wiesmann M, Schulz JB, Horvath R, **Weis J**. Novel genetic and neuropathological insights in NARP. *Muscle Nerve.* 54(2): 328-333, 2016
263. Rudnik-Schöneborn S, Deden F, Eggermann K, Eggermann T, Wieczorek D, Sellhaus B, Yamoah A, Goswami A, Claeys KG, **Weis J**, Zerres K. Autosomal dominant spinal muscular atrophy with lower extremity predominance: A recognizable phenotype of BICD2 mutations. *Muscle Nerve.* 54(3): 496-500, 2016
262. Altmann J, Büchner B, Nadaj-Pakleza A, Schäfer J, Jackson S, Lehmann D, Deschauer M, Kopajtich R, Lautenschläger R, Kuhn KA, Karle K, Schöls L, Schulz JB, **Weis J**, Prokisch H, Kornblum C, Claeys KG, Klopstock T. Expanded phenotypic spectrum of the m.8344A>G "MERRF" mutation: data from the German mitoNET registry. *J Neurol.* 263(5): 961-72, 2016
261. Ruegsegger C, Maharjan N, Goswami A, de L'Etang AF, **Weis J**, Troost D, Heller M, Gut H, Saxena S. Aberrant association of misfolded SOD1 with Na(+)/K(+)ATPase- α 3 impairs its activity and contributes to motor neuron vulnerability in ALS. *Acta Neuropathol.* 131(3): 427-51, 2016
260. Boecker AH, van Neerven SG, Scheffel J, Tank J, Altinova H, Seidensticker K, Deumens R, Tolba R, **Weis J**, Brook GA, Pallua N, Bozkurt A. Pre-differentiation of mesenchymal stromal cells in combination with a microstructured nerve guide supports peripheral nerve regeneration in the rat sciatic nerve model. *Eur J Neurosci.* 43(3): 404-16, 2016
259. Hodde D, Gerardo-Nava J, Wöhlk V, Weinandy S, Jockenhövel S, Kriebel A, Altinova H, Steinbusch HW, Möller M, **Weis J**, Mey J, Brook GA. Characterisation of cell-substrate interactions between Schwann cells and three-dimensional fibrin hydrogels containing orientated nanofibre topographical cues. *Eur J Neurosci.* 43(3): 376-87, 2016
258. Tauber SC, Staszewski O, Prinz M, **Weis J**, Nolte K, Bunkowski S, Brück W, Nau R. HIV encephalopathy: glial activation and hippocampal neuronal apoptosis, but limited neural repair. *HIV Med.* 17(2): 143-51, 2016
257. Röhrich M, Koelsche C, Schimpf D, Capper D, Sahm F, Kratz A, Reuss J, Hovestadt V, Jones DT, Bewerunge-Hudler M, Becker A, **Weis J**, Mawrin C, Mittelbronn M, Perry A, Mautner VF, Mechttersheimer G, Hartmann C, Okuducu AF, Arp M, Seiz-Rosenhagen M, Hänggi D, Heim S, Paulus W, Schittenhelm J, Ahmadi R, Herold-Mende C, Unterberg A, Pfister SM, von Deimling A, Reuss DE. Methylation-based classification of benign and malignant peripheral nerve sheath tumors. *Acta Neuropathol.* 131(6): 877-87, 2016

256. Bozkurt A, Boecker A, Tank J, Altinova H, Deumens R, Dabhi C, Tolba R, **Weis J**, Brook GA, Pallua N, van Neerven SG. Efficient bridging of 20 mm rat sciatic nerve lesions with a longitudinally micro-structured collagen scaffold. *Biomaterials*. 75: 112-22, 2016

2015

255. Khaminets A, Heinrich T, Mari M, Grumati P, Huebner AK, Akutsu M, Liebmann L, Stolz A, Nietzsche S, Koch N, Mauthe M, Katona I, Qualmann B, **Weis J**, Reggiori F, Kurth I, Hübner CA, Dikic I. Regulation of endoplasmic reticulum turnover by selective autophagy. *Nature*. 522 (7556): 354-8, 2015

254. Leipold E, Hanson-Kahn A, Frick M, Gong P, Bernstein JA, Voigt M, Katona I, Oliver Goral R, Altmüller J, Nürnberg P, **Weis J**, Hübner CA, Heinemann SH, Kurth I. Cold-aggravated pain in humans caused by a hyperactive NaV1.9 channel mutant. *Nature Commun*. 6: 10049, 2015

253. Brücken A, Derwall M, Bleilevens C, Stoppe C, Götzenich A, Gaisa NT, **Weis J**, Nolte KW, Rossaint R, Ichinose F, Fries M. Brief inhalation of nitric oxide increases resuscitation success and improves 7-day-survival after cardiac arrest in rats: a randomized controlled animal study. *Crit Care*. 19: 408, 2015

252. Derwall M, Ebeling A, Nolte KW, **Weis J**, Rossaint R, Ichinose F, Nix C, Fries M, Brücken A. Inhaled nitric oxide improves transpulmonary blood flow and clinical outcomes after prolonged cardiac arrest: a large animal study. *Crit Care*. 19: 328, 2015

251. Maier A, Mannartz V, Wasmuth H, Trautwein C, Neumann UP, **Weis J**, Grosse J, Fuest M, Hilz MJ, Schulz JB, Haubrich C. GAD Antibodies as Key Link Between Chronic Intestinal Pseudoobstruction, Autonomic Neuropathy, and Limb Stiffness in a Nondiabetic Patient: A CARE-Compliant Case Report and Review of the Literature. *Medicine (Baltimore)*. 94(31): e1265, 2015

250. Johann S, Heitzer M, Kanagaratnam M, Goswami A, Rizo T, **Weis J**, Troost D, Beyer C. NLRP3 inflammasome is expressed by astrocytes in the SOD1 mouse model of ALS and in human sporadic ALS patients. *Glia*. 63(12): 2260-73, 2015

249. Kronenbuerger M, Nolte KW, Coenen VA, Burgunder JM, Krauss JK, **Weis J**. Brain alterations with deep brain stimulation: New insight from a neuropathological case series. *Mov Disord*. 30(8): 1125-30, 2015

248. Chen YC, Auer-Grumbach M, Matsukawa S, Zitzelsberger M, Themistocleous AC, Strom TM, Samara C, Moore AW, Cho LT, Young GT, Weiss C, Schabhüttl M, Stucka R, Schmid AB, Parman Y, Graul-Neumann L, Heinritz W, Passarge E, Watson RM, Hertz JM, Moog U, Baumgartner M, Valente EM, Pereira D, Restrepo CM, Katona I, Dusl M, Stendel C, Wieland T, Stafford F, Reimann F, von Au K, Finke C, Willems PJ, Nahorski MS, Shaikh SS, Carvalho OP, Nicholas AK, Karbani G, McAleer MA, Cilio MR, McHugh JC, Murphy SM, Irvine AD, Jensen UB, Windhager R, **Weis J**, Bergmann C, Rautenstrauss B, Baets J, De Jonghe P, Reilly MM, Kropatsch R, Kurth I, Chrast R, Michiue T, Bennett DL, Woods CG, Senderek J. Transcriptional regulator PRDM12 is essential for human pain perception. *Nature Genet*. 47(7): 803-8, 2015

247. Baets J, Duan X, Wu Y, Smith G, Seeley WW, Mademan I, McGrath NM, Beadell NC, Houry J, Botuyan MV, Mer G, Worrell GA, Hojo K, DeLeon J, Laura M, Liu YT,

Senderek J, **Weis J**, Van den Bergh P, Merrill SL, Reilly MM, Houlden H, Grossman M, Scherer SS, De Jonghe P, Dyck PJ, Klein CJ. Defects of mutant DNMT1 are linked to a spectrum of neurological disorders. *Brain*. 138: 845-61, 2015

246. Brücken A, Kurnaz P, Bleilevens C, Derwall M, **Weis J**, Nolte K, Rossaint R, Fries M. Delayed Argon Administration Provides Robust Protection Against Cardiac Arrest-Induced Neurological Damage. *Neurocrit Care*. 22(1): 112-20, 2015

245. Roos A, **Weis J**, Korinthenberg R, Fehrenbach H, Häusler M, Züchner S, Mache C, Hubmann H, Auer-Grumbach M, Senderek J. Inverted formin 2-related Charcot-Marie-Tooth disease: extension of the mutational spectrum and pathological findings in Schwann cells and axons. *J Peripher Nerv Syst*. 20(1): 52-9, 2015

244. Stenzel W, Preuße C, Allenbach Y, Pehl D, Junckerstorff R, Heppner FL, Nolte K, Aronica E, Kana V, Rushing E, Schneider U, Claeys KG, Benveniste O*, **Weis J***, Goebel HH*. Nuclear actin aggregation is a hallmark of anti-synthetase syndrome-induced dysimmune myopathy. *Neurology*. 84(13): 1346-54, 2015 *Equal contribution

243. Dohrn MF, Othman A, Hirshman SK, Bode H, Alecu I, Fährndrich E, Karges W, **Weis J**, Schulz JB, Hornemann T, Claeys KG. Elevation of plasma 1-deoxy-sphingolipids in type 2 diabetes mellitus: a susceptibility to neuropathy? *Eur J Neurol*. 22(5): 806-e55, 2015

242. Filézac de L'Etang A, Maharjan N, Cordeiro Braña M, Ruegsegger C, Rehmann R, Goswami A, Roos A, Troost D, Schneider BL, **Weis J**, Saxena S. Marinesco-Sjögren syndrome protein SIL1 regulates motor neuron subtype-selective ER stress in ALS. *Nature Neurosci*. 18(2): 227-38, 2015

241. Goswami A, Jesse C, Chandrasekar A, Bushuven E, Vollrath J, Dreser A, Katona I, Beyer C, Johann S, Feller A, Grond M, Wagner S, Nikolin S, Troost D, **Weis J**. Accumulation of STIM1 is associated with the degenerative muscle fibre phenotype in ALS and other neurogenic atrophies. *Neuropathol Appl Neurobiol*. 41(3): 304-18, 2015

2014

240. Gerardo-Nava J, Hodde D, Katona I, Bozkurt A, Grehl T, Steinbusch HWM, **Weis J**, Brook GA. The growth and regeneration of axons: an in vitro model for studying interactions in 3D *Folia Neuropathologica* 52: 307-8, 2014

239. Schelleckes M, Lenders M, Guske K, Schmitz B, Tanislav C, Ständer S, Metze D, Katona I, **Weis J**, Brand SM, Duning T, Brand E. Cryptogenic stroke and small fiber neuropathy of unknown etiology in patients with alpha-galactosidase A -10T genotype. *Orphanet J Rare Dis*. 9(1): 178, 2014

238. Böhm J, Biancalana V, Malfatti E, Dondaine N, Koch C, Vasli N, Kress W, Strittmatter M, Taratuto AL, Gonorazky H, Laforêt P, Maisonobe T, Olivé M, Gonzalez-Mera L, Fardeau M, Carrière N, Clavelou P, Eymard B, Bitoun M, Rendu J, Fauré J, **Weis J**, Mandel JL, Romero NB, Laporte J. Adult-onset autosomal dominant centronuclear myopathy due to BIN1 mutations. *Brain*. 137(Pt 12): 3160-70, 2014

237. Semmler AL, Sacconi S, Bach J, Liebe C, Bürmann J, Kley RA, Ferbert A, Anderheiden R, Van den Bergh P, Martin JJ, De Jonghe P, Neuen-Jacob E, Müller O, Deschauer M, Bergmann M, Schröder J, Vorgerd M, Schulz JB, **Weis J**, Kress W,

Claeys KG. Unusual multisystemic involvement and a novel BAG3 mutation revealed by NGS screening in a large cohort of myofibrillar myopathies. *Orphanet J Rare Dis.* 9(1): 121, 2014

236. Altinova H, Möllers S, Führmann T, Deumens R, Bozkurt A, Heschel I, Damink LH, Schügner F, **Weis J**, Brook GA. Functional improvement following implantation of a microstructured, type-I collagen scaffold into experimental injuries of the adult rat spinal cord. *Brain Res.* 1585: 37-50, 2014

235. Müller TJ, Kraya T, Stoltenburg-Didinger G, Hanisch F, Kornhuber M, Stoevesandt D, Senderek J, **Weis J**, Baum P, Deschauer M, Zierz S. Phenotype of Matrin 3 related distal myopathy in 16 German patients. *Ann Neurol.* 76(5): 669-80, 2014

234. Vollrath JT, Sechi A, Dreser A, Katona I, Wiemuth D, Vervoorts J, Dohmen M, Chandrasekar A, Prause J, Brauers E, Jesse CM, **Weis J***, Goswami A*. Loss of function of the ALS protein SigR1 leads to ER pathology associated with defective autophagy and lipid raft disturbances. *Cell Death Dis.* 5: e1290, 2014. *Equal contribution

233. Bozkurt A, van Neerven SG, Claeys KG, O'Dey DM, Sudhoff A, Brook GA, Sellhaus B, Schulz JB, **Weis J**, Pallua N. The proximal medial sural nerve biopsy model: a standardised and reproducible baseline clinical model for the translational evaluation of bio-engineered nerve guides. *Biomed Res Int.* 2014:121452, 2014

232. Elbracht M, Senderek J, Schara U, Nolte K, Klopstock T, Roos A, Reimann J, Zerres K, **Weis J**, Rudnik-Schöneborn S. Clinical and morphological variability of the E396K mutation in the neurofilament light chain gene in patients with Charcot-Marie-Tooth disease type 2E. *Clin Neuropathol.* 33(5): 335-43, 2014

231. Roos A, Buchkremer S, Kollipara L, Labisch T, Gatz C, Zitzelsberger M, Brauers E, Nolte K, Schröder JM, Kirschner J, Jesse CM, Goebel HH, Goswami A, Zimmermann R, Zahedi RP, Senderek J, **Weis J**. Myopathy in Marinesco-Sjögren syndrome links endoplasmic reticulum chaperone dysfunction to nuclear envelope pathology. *Acta Neuropathol.* 127(5): 761-77, 2014

230. Del Bigio MR, Hainfellner JA, McLean CA, Powell SZ, Sikorska B, Takahashi H, **Weis J**, Xuereb JH. Neuropathology training worldwide - evolution and comparisons. *Brain Pathol.* 24(3): 285-98, 2014

229. Weinandy A, Piroth MD, Goswami A, Nolte K, Sellhaus B, Gerardo-Nava J, Eble M, Weinandy S, Cornelissen C, Clusmann H, Lüscher B, **Weis J**. Cetuximab induces eme1-mediated DNA repair: a novel mechanism for cetuximab resistance. *Neoplasia.* 16(3): 207-20, 2014

228. Brücken A, Kurnaz P, Bleilevens C, Derwall M, **Weis J**, Nolte K, Rossaint R, Fries M. Dose dependent neuroprotection of the noble gas argon after cardiac arrest in rats is not mediated by K(ATP)-Channel opening. *Resuscitation.* 85(6): 826-32, 2014

227. Haensch CA, Tosch M, Katona I, **Weis J**, Isenmann S. Small-fiber neuropathy with cardiac denervation in postural tachycardia syndrome. *Muscle Nerve.* 50(6): 956-61, 2014

226. Gerardo-Nava J, Hodde D, Katona I, Bozkurt A, Grehl T, Steinbusch HW, **Weis J**, Brook GA. Spinal cord organotypic slice cultures for the study of regenerating motor axon interactions with 3D scaffolds. *Biomaterials.* 35(14): 4288-96, 2014

225. Joshi PR, Hauburger A, Kley R, Claeys KG, Schneider I, Kress W, Stoltenburg G, **Weis J**, Vorgerd M, Deschauer M, Hanisch F. Mitochondrial abnormalities in myofibrillar myopathies. *Clin Neuropathol.* 33(2): 134-42, 2014
224. Schreckenbach T, Schröder JM, Voit T, Abicht A, Neuen-Jacob E, Roos A, Bulst S, Kuhl C, Schulz JB, **Weis J**, Claeys KG. Novel TPM3 mutation in a family with cap myopathy and review of the literature. *Neuromuscul Disord.* 24(2): 117-24, 2014
223. Katona I, **Weis J**, Hanisch F. Glycogenosome accumulation of the arrector pili muscle in Pompe disease. *Orphanet J Rare Dis.* 9(1): 17, 2014
222. Bruells CS, Bergs I, Rossaint R, Du J, Bleilevens C, Goetzenich A, **Weis J**, Wiggs MP, Powers SK, Hein M. Recovery of Diaphragm Function following Mechanical Ventilation in a Rodent Model. *PLoS One.* 9(1): e87460, 2014
221. Linz U, Ulus B, Neuloh G, Clusmann H, Oertel M, Nolte K, **Weis J**, Heussen N, Gilsbach JM. Can in-vitro chemoresponse assays help find new treatment regimens for malignant gliomas? *Anticancer Drugs.* 25(4): 375-84, 2014
220. Joshi PR, Gläser D, Dreßel C, Kress W, **Weis J**, Deschauer M. Anoctamin 5 muscular dystrophy associated with a silent p.Leu115Leu mutation resulting in exon skipping. *Neuromuscul Disord.* 24(1): 43-7, 2014
219. Poretti A, Häusler M, von Moers A, Baumgartner B, Zerres K, Klein A, Aiello C, Moro F, Zanni G, Santorelli FM, Huisman TA, **Weis J**, Valente EM, Bertini E, Boltshauser E. Ataxia, Intellectual Disability, and Ocular Apraxia with Cerebellar Cysts: A New Disease? *Cerebellum.* 13(1): 79-88, 2014
218. Wild F, Tuettenberg J, Grau A, **Weis J**, Krauss JK. Ligamentum flavum hematomas of the cervical and thoracic spine. *Clin Neurol Neurosurg.* 116: 24-7, 2014
217. Bruells CS, Maes K, Rossaint R, Thomas D, Cielen N, Bergs I, Bleilevens C, **Weis J**, Gayan-Ramirez G. Sedation Using Propofol Induces Similar Diaphragm Dysfunction and Atrophy during Spontaneous Breathing and Mechanical Ventilation in Rats. *Anesthesiology.* 120(3):665-72, 2014
216. Tauber SC, Harms K, Falkenburger B, **Weis J**, Sellhaus B, Nau R, Schulz JB, Reich A. Modulation of Hippocampal Neuroplasticity by Fas/CD95 Regulatory Protein 2 (Faim2) in the Course of Bacterial Meningitis. *J Neuropathol Exp Neurol.* 73(1): 2-13, 2014

2013

215. Schreckenbach T, Henn W, Kress W, Roos A, Maschke M, Feiden W, Dillmann U, Schulz JB, **Weis J**, Claeys KG. Novel FHL1 mutation in a family with reducing body myopathy. *Muscle Nerve.* 47(1): 127-34, 2013
214. Prause J*, Goswami A*, Katona I, Roos A, Schnizler M, Bushuven E, Dreier A, Buchkremer S, Johann S, Beyer C, Deschauer M, Troost D, **Weis J**. Altered localization, abnormal modification and loss of function of Sigma receptor-1 in amyotrophic lateral sclerosis. *Hum Mol Genet.* 22(8): 1581-600, 2013. *Equal contribution

213. Nolte KW, Trepels-Kottek S, Honnef D, **Weis J**, Bien CG, van Baalen A, Ritter K, Czermin B, Rudnik-Schöneborn S, Wagner N, Häusler M. Early muscle and brain ultrastructural changes in polymerase gamma 1-related encephalomyopathy. *Neuropathology*. 33(1): 59-67, 2013
212. Brücken A, Cizen A, Fera C, Meinhardt A, **Weis J**, Nolte K, Rossaint R, Pufe T, Marx G, Fries M. Argon reduces neurohistopathological damage and preserves functional recovery after cardiac arrest in rats. *Br J Anaesth*. 110 Suppl 1: i106-i112, 2013
211. Schulz A, Baader SL, Niwa-Kawakita M, Jung MJ, Bauer R, Garcia C, Zoch A, Schacke S, Hagel C, Mautner VF, Hanemann CO, Dun XP, Parkinson DB, **Weis J**, Schröder JM, Gutmann DH, Giovannini M, Morrison H. Merlin isoform 2 in neurofibromatosis type 2-associated polyneuropathy. *Nature Neurosci*. 16(4): 426-33, 2013
210. Funk F, Ceuterick-de Groote C, Martin JJ, Meinhardt A, Taratuto AL, De Bleecker J, Van Coster R, De Paepe B, Schara U, Vorgerd M, Häusler M, Koppi S, Maschke M, De Jonghe P, Van Maldergem L, Noel S, Zimmermann CW, Wirth S, Isenmann S, Stadler R, Schröder JM, Schulz JB, **Weis J**, Claeys KG. Morphological spectrum and clinical features of myopathies with tubular aggregates. *Histol Histopathol*. 28(8): 1041-54, 2013
209. Böhm J, Vasli N, Maurer M, Cowling B, Shelton GD, Kress W, Toussaint A, Prokic I, Schara U, Anderson TJ, **Weis J**, Tired L, Laporte J. Altered Splicing of the BIN1 Muscle-Specific Exon in Humans and Dogs with Highly Progressive Centronuclear Myopathy. *PLoS Genet*. 9(6): e1003430, 2013
208. Ermis U, **Weis J**, Schulz JB. PML in a patient treated with fumaric acid. *N Engl J Med*. 368(17): 1657-8, 2013
207. Elsas J, Sellhaus B, Herrmann M, Kinkeldey A, **Weis J**, Jahnen-Dechent W, Häusler M. Fetuin-A in the developing brain. *Dev Neurobiol*. 73(5): 354-69, 2013
206. Azzedine H, Zavadakova P, Planté-Bordeneuve V, Vaz Pato M, Pinto N, Bartesaghi L, Zenker J, Poirot O, Bernard-Marissal N, Arnaud Gouttenoire E, Cartoni R, Tittle A, Venturini G, Médard JJ, Makowski E, Schöls L, Claeys KG, Stendel C, Roos A, **Weis J**, Dubourg O, Leal Loureiro J, Stevanin G, Said G, Amato A, Baraban J, Leguern E, Senderek J, Rivolta C, Chrast R. PLEKHG5 deficiency leads to an intermediate form of autosomal recessive Charcot-Marie-Tooth disease. *Hum Mol Genet*. 22(20): 4224-32, 2013
205. Bruells CS, Maes K, Rossaint R, Thomas D, Cielen N, Bleilevens C, Bergs I, Loetscher U, Dreier A, Gayan-Ramirez G, Behnke BJ, **Weis J**. Prolonged Mechanical Ventilation Alters the Expression Pattern of Angio-neogenetic Factors in a Pre-Clinical Rat Model. *PLoS One*. 8(8): e70524, 2013
204. Claeys KG, Gorodinskaya O, Handt S, Reimann J, Kress W, Kornblum C, Kuhl C, Schulz JB, **Weis J**. Diagnostic challenge and therapeutic dilemma in necrotizing myopathy. *Neurology*. 81(10): 932-5, 2013
203. Leipold E, Liebmann L, Korenke GC, Heinrich T, Gießelmann S, Baets J, Ebbinghaus M, Goral RO, Stödberg T, Hennings JC, Bergmann M, Altmüller J, Thiele H, Wetzel A, Nürnberg P, Timmerman V, De Jonghe P, Blum R, Schaible HG, **Weis J**, Heinemann SH, Hübner CA, Kurth I. A de novo gain-of-function mutation in SCN11A causes loss of pain perception. *Nature Genet*. 45(11): 1399-404, 2013

202. Brunn A, Nagel I, Montesinos-Rongen M, Klapper W, Vater I, Paulus W, Hans V, Blümcke I, **Weis J**, Siebert R, Deckert M. Frequent triple-hit expression of MYC, BCL2, and BCL6 in primary lymphoma of the central nervous system and absence of a favorable MYC(low)BCL2 (low) subgroup may underlie the inferior prognosis as compared to systemic diffuse large B cell lymphomas. *Acta Neuropathol.* 126(4): 603-5, 2013

201. Gerardo-Nava J, Mayorenko II, Grehl T, Steinbusch HW, **Weis J**, Brook GA. Differential pattern of neuroprotection in lumbar, cervical and thoracic spinal cord segments in an organotypic rat model of glutamate-induced excitotoxicity. *J Chem Neuroanat.* 53: 11-7, 2013

200. Salih MA, Mundwiller E, Khan AO, Aldrees A, Elmalik SA, Hassan HH, Al-Owain M, Alkhalidi HM, Katona I, Kabiraj MM, Chrast R, Kentab AY, Alzaidan H, Rodenburg RJ, Bosley TM, **Weis J**, Koenig M, Stevanin G, Azzedine H. New Findings in a Global Approach to Dissect the Whole Phenotype of PLA2G6 Gene Mutations. *PLoS One.* 8(10): e76831, 2013

199. Rana OR, Schröder JW, Baukloh JK, Saygili E, Mischke K, Schiefer J, **Weis J**, Marx N, Rassaf T, Kelm M, Shin DI, Meyer C, Saygili E. Neurofilament light chain as an early and sensitive predictor of long-term neurological outcome in patients after cardiac arrest. *Int J Cardiol.* 168(2): 1322-7, 2013

198. Krieger M, Roos A, Stendel C, Claeys KG, Sonmez FM, Baudis M, Bauer P, Bornemann A, de Goede C, Dufke A, Finkel RS, Goebel HH, Häussler M, Kingston H, Kirschner J, Medne L, Muschke P, Rivier F, Rudnik-Schöneborn S, Spengler S, Inzana F, Stanzial F, Benedicenti F, Synofzik M, Lia Taratuto A, Pirra L, Tay SK, Topaloglu H, Uyanik G, Wand D, Williams D, Zerres K, **Weis J**, Senderek J. SIL1 mutations and clinical spectrum in patients with Marinesco-Sjogren syndrome. *Brain.* 136(Pt 12): 3634-44, 2013

197. Dohrn MF, Röcken C, De Bleecker JL, Martin JJ, Vorgerd M, Van den Bergh PY, Ferbert A, Hinderhofer K, Schröder JM, **Weis J**, Schulz JB, Claeys KG. Diagnostic hallmarks and pitfalls in late-onset progressive transthyretin-related amyloid-neuropathy. *J Neurol.* 260(12): 3093-108, 2013

196. Hanisch F, Weidemann W, Großmann M, Joshi PR, Holzhausen HJ, Stoltenburg G, **Weis J**, Zierz S, Horstkorte R. Sialylation and muscle performance: sialic Acid is a marker of muscle ageing. *PLoS One.* 8(12): e80520, 2013

195. Hans FJ, Geibprassert S, Krings T, **Weis J**, Deckert M, Ludolph A, Osieka R, Jost E. Solitary Plasmacytoma Presenting as an Intramedullary Mass of the Cervical Cord. *J Neurol Surg A Cent Eur Neurosurg.* 74 Suppl 1: e13-7, 2013

194. Deumens R, Van Gorp SF, Bozkurt A, Beckmann C, Führmann T, Montzka K, Tolba R, Kobayashi E, Heschel I, **Weis J**, Brook GA. Motor outcome and allodynia are largely unaffected by novel olfactory ensheathing cell grafts to repair low-thoracic lesion gaps in the adult rat spinal cord. *Behav Brain Res.* 237: 185-9, 2013

2012

193. Saygili E, Rana OR, Günzel C, Rackauskas G, Saygili E, Noor-Ebad F, Gemein C, Zink MD, Schwinger RH, Mischke K, **Weis J**, Marx N, Schauerte P. Rate and irregularity

of electrical activation during atrial fibrillation affect myocardial NGF expression via different signalling routes. *Cell Signal*. 24(1): 99-105, 2012

192. Bozkurt A, Lassner F, O'Dey D, Deumens R, Böcker A, Schwendt T, Janzen C, Suschek CV, Tolba R, Kobayashi E, Sellhaus B, Tholl S, Eummelen L, Schügner F, Olde Damink L, **Weis J**, Brook GA, Pallua N. The role of microstructured and interconnected pore channels in a collagen-based nerve guide on axonal regeneration in peripheral nerves. *Biomaterials*. 33(5): 1363-75, 2012

191. Dreier A, Barth S, Goswami A, **Weis J**. Cetuximab induces mitochondrial translocation of EGFRvIII, but not EGFR: involvement of mitochondria in tumor drug resistance? *Tumour Biol*. 33(1): 85-94, 2012

190. Parthey K, Kornhuber M, Kunze C, Wand D, Nolte KW, Nikolin S, **Weis J**, Schröder JM. SOX10 mutation with peripheral amyelination and developmental disturbance of axons. *Muscle Nerve*. 45(2): 284-90, 2012

189. De Paepe B, Creus KK, **Weis J**, De Bleecker JL. Heat shock protein families 70 and 90 in Duchenne muscular dystrophy and inflammatory myopathy: Balancing muscle protection and destruction. *Neuromuscul Disord*. 22(1): 26-33, 2012

188. Groh J, **Weis J**, Zieger H, Stanley ER, Heuer H, Martini R. Colony-stimulating factor-1 mediates macrophage-related neural damage in a model for Charcot-Marie-Tooth disease type 1X. *Brain*. 135(Pt 1): 88-104, 2012

187. Rana OR, Schröder JW, Kühnen JS, Saygili E, Gemein C, Zink MD, Schauerte P, Schiefer J, Schwinger RH, **Weis J**, Marx N, Kelm M, Meyer C, Saygili E. The Modified Glasgow Outcome Score for the prediction of outcome in patients after cardiac arrest: a prospective clinical proof of concept study. *Clin Res Cardiol*. 101(7): 533-43, 2012

186. Schoeler M, Loetscher PD, Rossaint R, Fahlenkamp AV, Eberhardt G, Rex S, **Weis J**, Coburn M. Dexmedetomidine is neuroprotective in an in vitro model for traumatic brain injury. *BMC Neurol*. 11: 12:20, 2012

185. Schwartz V, Krüttgen A, **Weis J**, Weber C, Ostendorf T, Lue H, Bernhagen J. Role for CD74 and CXCR4 in clathrin-dependent endocytosis of the cytokine MIF. *Eur J Cell Biol*. 91(6-7): 435-49, 2012

184. Saygili E, Kluttig R; Saygili Es, Rackauskas G, **Weis J**, Marx N, Schauerte P, Rana OR. Age-related regional differences in cardiac nerve growth factor expression. *Age (Dordr)*. 34(3): 659-67, 2012

183. Stratogianni A, Tosch M, Schlemmer H, **Weis J**, Katona I, Isenmann S, Haensch CA. Bortezomib-induced severe autonomic neuropathy. *Clin Auton Res*. 22(4): 199-202, 2012

182. Beier D, Schriefer B, Brawanski K, Hau P, **Weis J**, Schulz JB, Beier CP. Efficacy of clinically relevant temozolomide dosing schemes in glioblastoma cancer stem cell lines. *J Neurooncol*. 109(1): 45-52, 2012

181. Fries M, Brücken A, Çizen A, Westerkamp M, Löwer C, Deike-Glindemann J, Schnorrenberger NK, Rex S, Coburn M, Nolte KW, **Weis J**, Rossaint R, Derwall M. Combining xenon and mild therapeutic hypothermia preserves neurological function after prolonged cardiac arrest in pigs. *Crit Care Med*. 40(4): 1297-1303, 2012

180. Beier CP, Kumar P, Meyer K, Leukel P, Bruttel V, Aschenbrenner I, Riemenschneider MJ, Fragoulis A, Rümmele P, Lamszus K, Schulz JB, **Weis J**, Bogdahn U, Wischhusen J, Hau P, Spang R, Beier D. The cancer stem cell subtype determines immune infiltration of glioblastoma. *Stem Cells Dev.* 21(15): 2753-61, 2012
179. Creus KK, De Paepe B, **Weis J**, De Bleecker JL. The multifaceted character of lymphotoxin β in inflammatory myopathies and muscular dystrophies. *Neuromuscul Disord.* 22(8): 712-9, 2012
178. Claeys KG, Schrading S, Bozkurt A, Friedrich-Frekxa A, Pallua N, Kuhl C, Schulz JB, **Weis J**. Myopathy with lobulated fibers, cores, and rods caused by a mutation in collagen VI. *Neurology.* 79(23): 2288-90, 2012

2011

177. Schröder JM, Klossok T, **Weis J**. Oculopharyngeal muscle dystrophy: fine structure and mRNA expression levels of PABPN1. *Clin Neuropathol.* 30(3): 94-103, 2011
176. Rana OR, Saygili E, Gemein C, Zink MD, Buhr A, Saygili E, Mischke K, Nolte KW, **Weis J**, Weber C, Marx N, Schauerte P. Chronic electrical neuronal stimulation increases cardiac parasympathetic tone by eliciting neurotrophic effects. *Circ Res.* 108(10): 1209-19, 2011
175. Saygili E, Pekassa M, Saygili E, Rackauskas G, Hommes D, Noor-Ebad F, Gemein C, Zink MD, Schwinger RH, **Weis J**, Marx N, Schauerte P, Rana OR. Mechanical stretch of sympathetic neurons induces VEGF expression via a NGF and CNTF signaling pathway. *Biochem Biophys Res Commun.* 410(1): 62-7, 2011
174. **Weis J***, Katona I*, Müller-Newen G, Sommer C, Necula G, Hendrich C, Ludolph AC, Sperfeld A-D. Small fiber neuropathy in ALS patients. *Neurology.* 76(23): 2024-9, 2011 *Equal contribution
173. Hanisch F, Müller T, Dietz A, Bitoun M, Kress W, **Weis J**, Stoltenburg G, Zierz S. Phenotype variability and histopathological findings in centronuclear myopathy due to DNM2 mutations. *J Neurol.* 258(6): 1085-90, 2011
172. Guelly C, Zhu PP, Leonardis L, Papic L, Zidar J, Schabhüttl M, Strohmaier H, **Weis J**, Strom TM, Baets J, Willems J, De Jonghe P, Reilly MM, Fröhlich E, Hatz M, Trajanoski S, Pieber TR, Janecke AR, Blackstone C, Auer-Grumbach M. Targeted high-throughput sequencing identifies mutations in atlastin-1 as a cause of hereditary sensory neuropathy type I. *Am J Hum Genet.* 88(1): 99-105, 2011
171. Doorschodt BM, Schreinemachers MC, Behbahani M, Floriquin S, **Weis J**, Staat M, Tolba RH. Hypothermic machine perfusion of kidney grafts: Which Pressure is Preferred? *Ann Biomed Eng.* 39(3): 1051-9, 2011
170. Saygili E, Schauerte P, Pekassa M, Saygilli E, Rackauskas G, Schwinger RH, **Weis J**, Weber C, Marx N, Rana OR. Sympathetic neurons express and secrete MMP-2 and MT1-MMP to control nerve sprouting via pro-NFG Conversion. *Cell Mol Neurobiol.* 31(1): 17-25, 2011

169. Knosalla M, **Weis J**, Isenmann S, Haensch CA. L-Dihydroxyphenylserins as Therapy for the Rare Pure Autonomic Failure. *Klin Neurophysiol.* 42(2): 103-109, 2011

2010

168. Nachreiner T, Esser M, Tenten V, Troost D, **Weis J**, Krüttgen A. Novel splice variants of the amyotrophic lateral sclerosis-associated gene VAPB expressed in human tissues. *Biochem Biophys Res Commun.* 394(3): 703-8, 2010

167. Roehl AB, Hein M, Loetscher PD, Rossaint J, **Weis J**, Rossaint R, Coburn M. Neuroprotective properties of levosimendan in an in vitro model of traumatic brain injury. *BMC Neurol.* 10: 97, 2010

166. Bremer J, O'Connor T, Tiberi C, Rehrauer H, **Weis J**, Aguzzi A. Ablation of Dicer from murine Schwann cells increases their proliferation while blocking myelination. *PLoS One.* 5(8): e12450, 2010

165. Brücken A, Kaab AB, Kottmann K, Rossaint R, Nolte KW, **Weis J**, Fries M. Reducing the duration of 100% oxygen ventilation in the early reperfusion period after cardiopulmonary resuscitation decreases striatal brain damage. *Resuscitation.* 81(12): 1693-703, 2010

164. Urban PP, Wellach I, Faiss S, Layer P, Rosenkranz T, Knop K, **Weis J**. Subacute axonal neuropathy in Parkinson's disease with cobalamin and vitamin B6 deficiency under duodopa therapy. *Mov Disord.* 25(11): 1748-52, 2010

163. Claeys KG, Pellissier JF, Garcia-Bragado F, **Weis J**, Urtizberea A, Poza JJ, Cobo AM, Stoltenburg G, Figarella-Branger D, Willems PJ, Depuydt CE, Kleiner W, Pouget J, Piraud M, Brochier G, Romero NB, Fardeau M, Goebel HH, Bönnemann CG, Voit T, Eymard B, Laforet P. Myopathy with hexagonally cross-linked crystalloid inclusions: Delineation of a clinico-pathological entity. *Neuromuscul Disord.* 20(11): 701-8, 2010

162. Brauers E, Dreier A, Roos A, Wormland B, **Weis J***, Krüttgen A*. Differential effects of myopathy-associated caveolin 3-mutants on growth factor signaling. *Am J Pathol.* 177(1): 261-70, 2010 *Equal contribution

161. Kaemmer D, Bozkurt A, Otto J, Junge K, Klinik C, **Weis J**, Sellhaus B, O'Dey DM, Pallua N, Jansen M, Schumpelick V, Klinge U. Evaluation of tissue components in the peripheral nervous system using Sirius red staining and immunohistochemistry: A comparative study (human, pig, rat). *J Neurosci Methods.* 190(1): 112-6, 2010

160. Rana OR, Schauerte P, Kluttig R, Schröder JW, Koenen RR, Weber C, Nolte KW, **Weis J**, Hoffmann R, Marx N, Saygili E. Acetylcholine as an age-dependent non-neuronal source in the heart. *Auton Neurosci.* 156(1-2): 82-9, 2010

159. Meyer C, Rana OR, Saygili E, Gemein C, Becker M, Nolte K, **Weis J**, Schimpf T, Knackstedt C, Mischke K, Hoffmann R, Kelm M, Pauza D, Schauerte P. Augmentation of Left Ventricular Contractility by Cardiac Sympathetic Neural Stimulation. *Circulation.* 121(11): 1286-94, 2010

158. Saygili E, Schauerte P, Küppers F, Heck L, **Weis J**, Weber C, Schwinger RH, Hoffmann R, Schröder JW, Marx N, Rana OR. Electrical stimulation of sympathetic neurons induces autocrine/paracrine effects of NGF mediated by TrkA. *J Mol Cell Cardiol.*

49(1): 79-87, 2010

157. Reilich P, Schramm N, Schoser B, Schneiderat P, Strigl-Pill N, Müller-Höcker J, Kress W, Ferbert A, Rudnik-Schöneborn S, Noth J, Lochmüller H, **Weis J**, Walter MC. Fascioscapulohumeral muscular dystrophy presenting with unusual phenotypes and atypical morphological features of vacuolar myopathy. *J Neurol.* 257(7): 1108-18, 2010

156. Flohr S, Ewers P, Fink GR, **Weis J**, Krüttgen A. Impaired Neurotrophin-3 signaling in a TrkAll mutant associated with hereditary polyneuropathy. *Exp Neurol.* 224(1): 318-20, 2010

155. Helfrich I, Scheffrahn I, Bartling S, **Weis J**, von Felbert V, Middleton M, Kato M, Ergün S, Schadendorf D. Resistance to antiangiogenic therapy is directed by vascular phenotype, vessel stabilization, and maturation in malignant melanoma. *J Exp Med.* 207(3): 491-503, 2010

154. Funke AD, Esser M, Krüttgen A, **Weis J**, Mitne-Neto M, Lazar M, Nishimura AL, Sperfeld AD, Trillenber P, Senderek J, Krasnianski M, Zatz M, Zierz S, Deschauer M. The P56S mutation in the VAPB gene is not due to a single founder: the first European case. *Clin Genet.* 77(3): 302-3, 2010

153. Bremer J, Baumann F, Tiberi C, Wessig C, Fischer H, Schwarz P, Steele AD, Toyka KV, Nave KA, **Weis J**, Aguzzi A. Axonal prion protein is required for peripheral myelin maintenance. *Nature Neurosci.* 13(3): 310-18, 2010

152. Derwall M, Westerkamp M, Löwer C, Deike-Glindemann J, Schnorrenberger NK, Coburn M, Nolte KW, Gaisa N, **Weis J**, Siepmann K, Häusler M, Rossaint R, Fries M. Hydrogen sulfide does not increase resuscitability in a porcine model of prolonged cardiac arrest. *Shock.* 34(2): 190-5, 2010

151. Huttner HB, Richter G, Jünemann A, Kress W, **Weis J**, Schröder JM, Gal A, Doerfler A, Udd B, Schröder R. Incontinentia pigmenti-related myopathy or unsolved „double trouble“? *Neuromuscul Disord.* 20(2): 139-41, 2010

150. Evangelopoulos ME, Wüller S, **Weis J**, Krüttgen A. A role of nitric oxide in neurite outgrowth of neuroblastoma cells triggered by mevastatin or serum reduction. *Neurosci Lett.* 468(1): 28-33, 2010

149. van Neerven S, Joosten EAJ, Brook GA, Lambert CA, Mey J, **Weis J**, Marcus MA, Steinbusch HW, van Kleef M, Patijn J, Deumens R. Repetitive intrathecal VEGF 165 treatment has limited therapeutic effects after spinal cord injury in the rat. *J Neurotrauma.* 27(10): 1781-91, 2010

148. Mischke K, Zarse M, Schmid M, Gemein C, Brauers N, Spillner J, Dohmen G, Rana O, Saygili E, Knackstedt C, **Weis J**, Pauza D, Bianchi S, Schauerte P. Chronic augmentation of the parasympathetic tone to the atrioventricular node: A nonthoracotomy neurostimulation technique for ventricular rate control during atrial fibrillation. *J Cardiovasc Electrophysiol.* 21(2): 193-9, 2010

147. Schilling S, Klotz P, **Weis J**, Gold R. Steroid responsive dementia syndrome and vasculitic polyneuritis. *Akt Neurologie.* 37(2): 80-2, 2010

2009

146. Rotthier A, Baets J, De Vriendt E, Jacobs A, Auer-Grumbach M, Le'vy N, Bonello-Palot N, Sebnem Kilic S, **Weis J**, Nascimento A, Swinkels M, Kruyt MC, Jordanova A, De Jonghe P, Timmerman V. Genes for hereditary sensory and autonomic neuropathies: a genotype-phenotype correlation. *Brain*. 132: 2699-711, 2009
145. Schroeder A, Ertl-Wagner B, Britsch S, Schröder J, Nikolin S, **Weis J**, Müller-Felber W, Koerte I, Stehr M, Berweck S, Borggraefe I, Heinen F. Muscle biopsy substantiates long-term MRI alterations one year after a single dose of botulinum toxin injected into the lateral gastrocnemius muscle of healthy volunteers. *Mov Disord*. 24(10): 1494-503, 2009
144. Bozkurt A, Deumens R, Beckmann C, Olde Damink L, Schügner F, Heschel I, Sellhaus B, **Weis J**, Jahnen-Dechent W, Brook GA, Pallua N. In vitro cell alignment obtained with a Schwann cell enriched microstructured nerve guide with longitudinal guidance channels. *Biomaterials*. 30(2): 169-79, 2009
143. Andres RH, Guzman R, **Weis J**, Brekenfeld C, Fandino J, Seiler RW. Lhermitte-Duclos disease with atypical vascularization--case report and review of the literature. *Clin Neuropathol*. 28(2): 83-90, 2009
142. Fries M, Coburn M, Nolte KW, Timper A, Kottmann K, Kuru TH, **Weis J**, Rossaint R. Early administration of xenon or isoflurane may not improve functional outcome and cerebral alterations in a porcine model of cardiac arrest. *Resuscitation*. 80(5): 584-90, 2009
141. Balciūniene N, Tamasauskas A, Valanciūte A, Deltuva V, Vaitiekaitis G, Gudiniaviene I, **Weis J**, von Keyserlingk DG. Histology of human glioblastoma transplanted on chicken chorioallantoic membrane. *Medicina (Kaunas)*. 45(2): 123-31, 2009
140. Rana OR, Saygili E, Meyer C, Gemein C, Krüttgen A, Andrzejewski MG, Ludwig A, Schotten U, Schwinger RH, Weber C, **Weis J**, Mischke K, Rassaf T, Kelm M, Schauerte P. Regulation of nerve growth factor in the heart: the role of the calcineurin- NFAT pathway. *J Mol Cell Cardiol*. 46(4): 568- 78, 2009
139. Saygili E, Rana OR, Meyer C, Gemein C, Andrzejewski MG, Ludwig A, Weber C, Schotten U, Krüttgen A, **Weis J**, Schwinger RH, Mischke K, Rassaf T, Kelm M, Schauer- te P. The angiotensin-calcineurin-NFAT pathway mediates stretch-induced up-regulation of matrix metalloproteinases-2/-9 in atrial myocytes. *Basic Res Cardiol*. 104(4): 435-448, 2009
138. Creus K, De Paepe B, Werbrouck B, Vervaeet V, **Weis J**, De Bleecker J. Distribution of the NF-kB complex in the inflammatory exudates characterizing the idiopathic inflammatory myopathies. *Ann NY Acad Sci*. 1173: 370-7, 2009
137. De Paepe B, Creus K, Martin J, **Weis J**, De Bleecker J. A dual role for HSP90 and HSP70 in the inflammatory maopathies: from muscle fiber protection to active invasion by macrophages. *Ann NY Acad Sci*. 1173: 463-9, 2009
136. Rossaint J, Rossaint R, **Weis J**, Fries M, Rex S, Coburn M. Propofol: neuroprotec- tion in an in vitro model of traumatic brain injury. *Critical Care*. 13(2): R61, 2009
135. Evangelopoulos ME, **Weis J**, Krüttgen A. Mevastatin-induced neurite outgrowth of neuroblastoma cells via activation of EGFR. *J Neuroscience Res*. 87: 2138-44, 2009

134. Bozkurt A, Deumens R, Beckmann C, Olde Damink L, Schügner F, Heschel I, Sellhaus B, **Weis J**, Jahnen-Dechent W, Brook G, Pallua N. In vitro cell alignment obtained with a Schwann cell enriched microstructured nerve guide with longitudinal guidance channels. *Biomaterials*. 30(2): 169-79, 2009
133. Roessler GF, Laube T, Brockmann C, Kirschkamp T, Mazinani BA, Goertz M, Koch C, Kirsch I, Sellhaus B, Trieu HK, **Weis J**, Bornfeld N, Roethgen H, Messner A, Mokwa W, Walter P. Implantation and explantation of a wireless epiretinal retina implant device: Observations during the EPIRET 3 prospective clinical trial. *Invest Ophthalmol Vis Sci*. 50(6): 3003-08, 2009
132. Loetscher PD, Rossaint J, Rossaint R, **Weis J**, Fries M, Fahlenkamp A, Ryang YM, Grottko O, Coburn M. Argon: neuroprotection in in vitro models of cerebral ischemia and traumatic brain injury. *Crit Care*. 13(6): R206, 2009
131. Oertel M, Nolte K, Blaum M, **Weis J**, Gilsbach J, Korinth M. Primary intraventricular schwannomas. *Clin Neurol Neurosurg*. 111(9): 768-73, 2009
130. Schaakxs D, Bahm J, Sellhaus B, **Weis J**. Clinical and neuropathological study about the neurotization of the suprascapular nerve in obstetric brachial plexus lesions. *J Brachial Plex Peripher Nerve Inj*. 4: 15, 2009
129. Arnaud E, Zenker J, de Preux Charles AS, Stendel C, Roos A, Médard JJ, Tricaus N, **Weis J**, Suter U, Senderek J, Chrast R. SH3TC2/ KIAA1985 protein is required for proper myelination and the integrity of the node of Ranvier in the peripheral nervous system. *Proc Natl Acad Sci USA* 106. (41): 17528-33, 2009
128. Moises T, Wüller S, Saxena S, Senderek J, **Weis J**, Krüttgen A. Proteasomal inhibition alters the trafficking of the neurotrophin receptor TrkA. *Biochem Biophys Res Commun*. 387(2): 360-4, 2009

2008

127. Koy A, Ilkovski B, Laing N, North K, **Weis J**, Neuen-Jacob- E, Maytepek E. Nema-line myopathy with exclusively intranuclear rods and a novel mutation in ACTA1 (Q139H). *Neuropediatrics* 39: 1-5, 2008
126. Nolte KW, Hans VJ, Schattenfroh C, **Weis J**, Schröder JM. Perineurial cells filled with collagen in „atypical“ Cogan’s syndrome. *Acta Neuropathol* 115: 589-596, 2008
125. Urban PP, Kaczmarek E, Wellach I, Brüning R, Brüllke N, Schulte C, Knop K, **Weis J**. [Neurolymphomatosis : Subacute sensorimotor polyneuropathy as a first sign of non-Hodgkin's B cell lymphoma.] *Nervenarzt* 79: 699-702, 2008
124. Guzman R, Altrichter S, El-Koussy M, Gralla J, **Weis J**, Barth A, Seiler RW, Schroth G, Lövblad KO. Contribution of the apparent diffusion coefficient in perilesional edema for the assessment of brain tumors. *J Neuroradiol* 35:224-229, 2008
123. Fries M, Nolte K, Timper A, Kottmann K, **Weis J**, Rossaint R. Xenon reduces neurohistopathological damage and improves the early neurological deficit after cardiac arrest in pigs. *Critical Care Med* 36: 2420-2426, 2008

122. Fries M, Nolte K, Demir F, Kottmann K, Timper A, Coburn M, **Weis J**, Rossaint R. Neurocognitive performance after cardiopulmonary resuscitation in pigs. *Critical Care Med* 36: 842-847, 2008
121. Jeub M, Bitoun M, Guicheney P, Kappes-Horn K, Strach K, Druschky KF, **Weis J**, Fischer D: Dynamins 2 related centronuclear myopathy: Clinical, histological and genetic aspects of further patients and review of the literature. *Clin Neuropathol* 27: 430-438, 2008
120. Bozkurt A, Deumens R, Scheffel J, O'Dey DM, **Weis J**, Joosten EA, Führmann T, Brook G, Pallua N. CatWalk gait analysis in assessment of functional recovery after sciatic nerve injury. *J Neurosci Methods* 173: 91-98, 2008
119. Nolte KW, Janecke AR, Vorgerd M, **Weis J**, Schröder JM. Congenital type IV glycosinosis: the spectrum of pleomorphic polyglucosan bodies in muscle, nerve, and spinal cord with two novel mutations in the GBE1 gene. *Acta Neuropathol.* 116:491-506, 2008
118. Rudnik-Schöneborn S, **Weis J**, Kress W, Häusler M, Zerres K. Becker's muscular dystrophy aggravating facioscapulohumeral muscular dystrophy - double trouble as an explanation for an atypical phenotype. *Neuromuscul Disord.* 18:881-885, 2008
117. Roessler G, Laube T, Brockmann C, Kirschkamp T, Mazinani B, Goertz M, Koch C, Kirsch I, Sellhaus B, Trieu HK, **Weis J**, Bornfeld N, Röhgen H, Messner A, Mokwa W, Walter P. Implantation and explantation of a wireless epiretinal retina implant device in blind RP patients. *Invest Ophthalmol Vis Sci.* 50(6): 3003-8, 2008
- 2007**
116. Wirths O, **Weis J**, Kaye R, Saido TC, Bayer TA: Age-dependent axonal degeneration in an Alzheimer mouse model. *Neurobiol Aging.* 28: 1689-1699, 2007
115. Thiex R, **Weis J**, Krings T, Barreiro S, Yakisikli-Alemi F, Gilsbach JM, Rohde V: Combination with intravenous NMDA-Antagonists optimizes local fibrinolytic therapy of experimental intracerebral hemorrhages. *J Neurosurg* 106: 314-320, 2007
114. Smilowitz HM, Weissenberger J, **Weis J**, Brown JD, O'Neill RJ, Laissue JA: Orthotopic transplantation of v-src expressing glioma cell lines into immunocompetent mice: Establishment of a new transplantable in vivo model for malignant glioma. *J Neurosurg* 106: 652-659, 2007
113. Wühl E, Kogan J, Zurowska A, Matejas V, Vandevoorde RG, Aigner T, Lesniewska I, Bouvier R, Reis A, **Weis J**, Cochat P, Zenker M: Neurodevelopmental deficits in Pierson (microcoria-congenital nephrosis) syndrome. *Am J Med Genet A* 143: 311-319, 2007
112. Yen K, Lovblad KO, Scheurer E, Ozdoba C, Thali MJ, Aghayev E, Jackowski C, Anon J, Frickey N, Zwiggart K, **Weis J**, Dirnhofer R.: Post-mortem forensic neuroimaging: Correlation of MSCT and MRI findings with autopsy results. *Forensic Sci Int* 173: 21-35, 2007
111. Fathi A-R, Vassella E, Arnold M, Curschmann J, Reinert M, Vajtai I, **Weis J**, Deiana G, Mariani L: Objective response to radiation therapy and long term survival of patients

with WHO grade II astrocytic gliomas with known LOH 1p/19q status. *Strahlentherapie & Onkologie* 183: 517-22, 2007

110. Stendel C, Roos A, Deconinck T, Pereira JA, Castagner F, Niemann A, Kirschner J, Korinthenberg R, Battaloglu E, Parman Y, Nicholson G, Ouvrier R, Seeger J, De Jonghe P, **Weis J**, Krüttgen A, Bergmann C, Suter U, Zerres K, Timmerman V, Relvas J, Senderek J: Peripheral nerve demyelination caused by a mutant Rho GTPase guanine nucleotide exchange factor, frabin/FGD4. *Am J Hum Genet* 81: 158-64, 2007

109. Ponzoni M, Berger F, Chassagne-Clement C, Tinguely M, Jouvet A, Ferreri AJ, Dell'oro S, Terreni MR, Doglioni C, **Weis J**, Cerati M, Milani M, Iuzzolino P, Motta T, Carbone A, Pedrinis E, Sanchez J, Blay JY, Reni M, Conconi A, Bertoni F, Zucca E, Cavalli F, Borisch B; on Behalf of the International Extranodal Lymphoma Study Group (IELSG). Reactive perivascular T-cell infiltrate predicts survival in primary central nervous system B-cell lymphomas. *Br J Haematol* 138: 316-323, 2007

108. Ramaekers VT, **Weis J**, Sequeira JM, Quadros EV, Blau N. Mitochondrial Complex I Encephalomyopathy and Cerebral 5-Methyltetrahydrofolate Deficiency. *Neuropediatrics*, 38: 1-4, 2007

107. Andres RH, Guzman R, **Weis J**, Schroth G, Barth A. Granuloma formation and occlusion of an unruptured aneurysm after wrapping. *Acta Neurochir* 149: 953-958, 2007

106. Hehr U, Bauer P, Winner B, Schuele R, Olmez A, Koehler W, Uyanik G, Engel A, Lenz D, Seibel A, Hehr A, Ploetz S, Gamez J, Rolfs A, **Weis J**, Ringer TM, Bonin M, Schuierer G, Marienhagen J, Bogdahn U, Weber BHF, Topaloglu H, Schoels L, Riess O, Winkler J. Long-term course and mutational spectrum of spatacsin-linked spastic paraplegia. *Ann Neurol* 62: 656-665, 2007

105. Bozkurt A, Brook GA, Moellers S, Lassner F, Sellhaus B, **Weis J**, Woeltje M, Tank J, Beckmann C, Fuchs P, Damink LO, Schügner F, Heschel I, Pallua N. In vitro assessment of axonal growth using dorsal root ganglia explants in a novel three-dimensional collagen matrix. *Tissue Eng* 13: 2971-2979, 2007

2006

104. Yen K, Lövblad KO, Scheurer E, Ozdoba C, Thali MJ, Aghayev E, Jackowski C, Anon J, Frickey N, **Weis J**, Zwygart K, Bratzke H, Dirnhofer R: Line scan diffusion tensor imaging of the post-traumatic brainstem: Changes with neuropathological correlation. *AJNR Am J Neuroradiol* 27: 70-73, 2006

103. Muscular dystrophy with marked divergence between clinical and molecular genetic findings: case series. *Swiss Med Wkly* 136:189-193, 2006

102. Wirths O, **Weis J**, Szczygielski J, Multhaup G, Bayer TA: Prominent axonopathy in an APP/PS1 transgenic mouse model of Alzheimer's disease. *Acta Neuropathol* 111: 312-319, 2006

101. Möller JC, Krüttgen A, Burmester R, **Weis J**, Oertel WH, Shooter EM: Release of interleukin-6 via the regulated secretory pathway in PC12 cells. *Neurosci Lett* 400:75-79, 2006

100. Landolt HP, Glatzel M, Blättler Th, Achermann P, Roth C, Mathis J, **Weis J**, Tobler I, Aguzzi A, Bassetti CL: Sleep-wake disturbances in sporadic Creutzfeldt-Jakob Disease. *Neurology* 66:1418-1424, 2006
99. Hergersberg M, Mariani L, Vassella E, Murtin C, **Weis J**, Moschopoulos M, Laeng H, Landolt H, Huber A, Roelcke U: Age at diagnosis and loss of heterozygosity on chromosome 1p and 19q in oligodendroglial tumors. *J NeuroOncol* 80:215-217, 2006
98. Verhoeven K, Claeys KG, Züchner S, Schröder JM, **Weis J**, Ceuterick C, Jordanova A, Nelis E, De Vriendt E, Van Hul M, Seeman P, Mazanec R, Saifi GM, Szigeti K, Mancias P, Butler IJ, Kochanski A, Ryniewicz B, De Bleecker J, Van den Bergh P, Verellen C, Van Coster R, Goeman N, Robberecht W, Rasic VM, Nevo Y, Tournev I, Guergueltcheva V, Roelens F, Vieregge P, Vinci P, Moreno MT, Christen HJ, Shy ME, Lupski JR, Vance JM, De Jonghe P, Timmerman V: MFN2 mutation distribution and genotype/phenotype correlation in Charcot-Marie-Tooth type 2. *Brain* 129: 2093-102, 2006
97. Mariani L, Deiana G, Vassella E, Fathi AR, Murtin C, Arnold M, Vajtai I, **Weis J**, Siegenthaler P, Schobesberger M, Reinert MM: Loss of heterozygosity 1p36 and 19q13 is a prognostic factor for overall survival in patients with diffuse WHO grade 2 gliomas treated without chemotherapy. *J Clin Oncol* 24: 4758-4763, 2006
96. Ramelli GP, Gallati S, **Weis J**, Krähenbühl S, Burgunder J-M: Point Mutation tRNA^{Ser(UCN)} in a child with hearing loss and myoclonus epilepsy. *J Child Neurol* 21: 253-255, 2006

2005

95. Yen K, Sonnenschein M, Thali MJ, Ozdoba C, **Weis J**, Zwygart K, Aghayev E, Jackowski C, Dirnhofer R: Postmortem multislice computed tomography and magnetic resonance imaging of odontoid fractures, atlantoaxial distractions and ascending medullary edema. *Int J Legal Med* 119: 129-136, 2005
94. Hoelzinger DB, Mariani L, **Weis J**, Woyke T, Berens TJ, McDonough WS, Sloan A, Coons SW, Berens ME: Gene expression profile of glioblastoma multiforme invasive phenotype points to new therapeutic targets. *Neoplasia* 7: 7-16, 2005
93. Loeffler S, Fayard B, **Weis J**, Weissenberger J: IL-6 induces transcriptional activation of vascular endothelial growth factor in astrocytes in vivo and regulates VEGF promoter activity in glioblastoma cells via direct interaction between STAT3 and SP1. *Int J Cancer* 115: 202-213, 2005
92. Saxena S, Howe CL, Steiner P, Hirling H, Cosgaya JM, Chan JR, **Weis J**, Krüttgen A: Differential endocytic sorting of p75NTR and TrkA in response to NGF: a role for the ubiquitin/proteasome system in trafficking of TrkA into multivesicular bodies. *Mol Cell Neurosci* 28: 571-587, 2005
91. von Felbert V, Córdoba F, Weissenberger J, Vallan C, Kato M, Nakashima I, Braathen LR, **Weis J**: Interleukin-6 gene ablation in a transgenic mouse model of spontaneous malignant skin melanoma. *Am J Pathol* 166: 831-841, 2005

90. Córdoba F, Braathen LR, Weissenberger J, Vallan C, Kato M, Nakashima I, **Weis J**, von Felbert V: 5-aminolaevulinic acid photodynamic therapy in a mouse model of spontaneous skin melanoma. *Exp Dermatol* 14: 429-437, 2005
89. Evangelopoulos ME, **Weis J**, Krüttgen A: Signalling pathways leading to neuroblastoma differentiation after serum withdrawal: HDL blocks neuroblastoma differentiation by inhibition of EGFR. *Oncogene* 24: 3309-3318, 2005
88. Fayard B, Loeffler S, **Weis J**, Vögelin E, Krüttgen A: The secreted BDNF precursor proBDNF binds to TrkB and p75, but not to TrkA and TrkC. *J Neurosci Res* 80: 18-28, 2005
87. Kaindl AM, Jakubiczka S, Luecke T, Bartsch O, **Weis J**, Stoltenburg-Didinger G, Aksu F, Oexle K, Handschug K, Huebner A: Homozygous microdeletion of chromosome 4q11~12 causes severe limb-girdle muscular dystrophy type 2E with joint hyperlaxity and contractures. *Hum Mutat* 26: 279-280, 2005
86. Saxena S, Bucci C, **Weis J**, Krüttgen A: The late endosomal GTPase Rab7 controls the endosomal trafficking and signalling of TrkA. *J Neurosci* 25:10930-10940, 2005
85. Vielhaber S, Feistner H, **Weis J**, Kreuder J, Sailer M, Schroder JM, Kunz WS: Primary carnitine deficiency: adult onset lipid storage myopathy with a mild clinical course. *J Clin Neurosci* 11: 919-924, 2005
84. Marcão AM, Wiest R, Schindler K, Wiesmann U, **Weis J**, Schroth G, Miranda MSC, Sturzenegger M, Gieselmann V (2004) Adult onset metachromatic leukodystrophy without electroclinical peripheral nervous system involvement: A new mutation in the ARSA gene *Arch Neurol* 62: 309-313, 2005
83. Ozdoba C, **Weis J**, Plattner T, Dirnhofer R, Yen K (2005) Fatal scuba diving incident with massive gas embolism in cerebral and spinal arteries. *Neuroradiology* 47: 411-416, 2005
82. Jenne DE, Kley RA, Vorgerd M, Schröder JM, **Weis J**, Reimann H, Albrecht B, Nürnberg P, Thiele H, Müller CR, Meng G, Witt CC, Labeit S: Limb girdle muscular dystrophy in a sibling pair with a homozygous Ser606Leu mutation in the alternatively spliced IS2 region of calpain 3. *Biol Chem* 386: 61-67, 2005
81. Senderek J, Krieger M, Stendel C, Breitbach-Faller N, Bergmann C, Blaschek A, Wolf NI, Harting I, North K, Smith J, Herrmann R, Hendershot LM, Schröder JM, Lochmüller H, Voit T, **Weis J**, Ebinger F, Zerres K: Mutations in BAP/SIL1 cause Marinesco Sjögren syndrome, a cerebellar ataxia with cataract and myopathy. *Nature Genet* 37:1312-1314, 2005

2004

80. Chen L, Schaerer M, Lang D, Joncourt F, **Weis J**, Fritschi J, Kappeler L, Gallati S, Sigel E, Burgunder JM: Exon 17 skipping in CLCN1 leads to recessive congenital myotonia. *Muscle and Nerve* 29: 670-676, 2004
79. Evangelopoulos ME, **Weis J**, Krüttgen A: Neurotrophin effects on neuroblastoma cells: Correlation with Trk and p75NTR expression and influence of Trk receptor bodies. *J Neuro-Oncol* 66: 101-110, 2004

78. Mariani L, Siegenthaler P, Guzman R, Friedrich D, Fathi AR, Ozdoba C, **Weis J**, Ballinari P, Seiler RW: The impact of tumor volume and surgery on the outcome of adults with supratentorial WHO grade II astrocytic tumors. *Acta Neurochir* 146: 441-448, 2004

77. Weigel R, Senn P, **Weis J**, Krauss JK: Severe complications after methotrexate (MTX) for treatment of primary central nervous system lymphoma (PCNSL). *Clin Neurol Neurosurg* 106:82-87, 2004

76. Weissenberger J, Loeffler S, Afanasieva T, Aguzzi A, Kopf M, **Weis J**: IL-6 is required for glioma development in a mouse model. *Oncogene* 23: 3308-3316, 2004

75. Saxena S, Howe CL, Hu M, **Weis J**, Krüttgen A: Differences in the surface binding and endocytosis of neurotrophins by p75NTR. *Mol Cell Neurosci* 26: 292-307, 2004

74. Schaller B, **Weis J**, Brekenfeldt K, Seiler R, Mariani L Esthesioneuroblastoma of the pituitary gland: a clinicopathological entity? *J Neurosurg* 101: 1049-1052, 2004

2003

73. Burri SM, Krauss JK, Schroth G, **Weis J**, Steinlin M: Near-fatal cerebellar swelling caused by acute multifocal cerebellar necrosis. *Europ J Ped Neurol* 7: 139-142, 2003

72. Berkhoff M, **Weis J**, Schroth G, Sturzenegger M: Extensive white-matter changes in a case of adult polyglucosan body disease. *Neuroradiology* 43: 234-236, 2001; reprinted in *Review Series Neurology* 1: 20-22, 2003

71. Brun C, Suter D, Pauli C, Dunant P, Lochmüller H, Burgunder J-M, Schümperli D, **Weis J**: U7 snRNAs induce correction of mutated dystrophin pre-mRNA by exon skipping. *Cell Mol Life Sci* 60: 1-10, 2003

2002

70. Ferreri AJ, Reni M, Pasini F, Calderoni A, Tirelli U, Pivnik A, Aondio GM, Ferrarese F, Gomez H, Ponzoni M, Borisch B, Berger F, Chassagne C, Iuzzolino P, Carbone A, **Weis J**, Pedrinis E, Motta T, Jouvet A, Barbui T, Cavalli F, Blay JY: A multicenter study of treatment of primary CNS lymphoma. *Neurology* 28:1513-20, 2002

69. Guzman R, Barth A, Lovblad KO, El-Koussy M, **Weis J**, Schroth G, Seiler RW: Diffusion-weighted MR imaging for differentiation of purulent brain processes from cystic brain tumors. *J Neurosurg* 97: 1101-1107, 2002

68. Höllinger P, Humm AM, **Weis J**, Sturzenegger M: Meningeal carcinomatosis: Two unusual clinical, laboratory, and radiological presentations. *Eur Neurol* 48: 44-49, 2002

2001

67. Ramelli GP, Slongo T, Tschäppeler H, **Weis J**: Congenital pseudarthrosis of the ulna and radius in two cases of neurofibromatosis type 1. *Pediatr Surg Int* 17: 239-241, 2001

66. Ptak R, Birtoli B, Imboden H, Hauser C, **Weis J**, Schnider A: Hypothalamic amnesia with spontaneous confabulations and disorientation – a clinico-pathological study. *Neurology* 56: 1597-1600, 2001

65. Frei N, Weissenberger J, Beck-Sickingler AG, Höfliger M, **Weis J**, Imboden H: Immunocytochemical localization of angiotensin II receptor subtypes and angiotensin II with monoclonal antibodies in the rat adrenal gland. *Regulatory Peptides* 101: 149-155, 2001

2000

64. Thier M, Roeb E, Breuer B, Bayer TA, Halfter H, **Weis J**: Expression of matrix metalloproteinase-2 in glial and neuronal tumor cell lines: inverse correlation with proliferation rate. *Cancer Lett* 149: 163-170, 2000

63. **Weis J**, Kaussen M, Calvo S, Buonanno A: Denervation induces a rapid nuclear accumulation of MRF4 in mature myofibers. *Dev Dyn* 218: 438-451, 2000

62. Mayfrank L, Kim Y, Kissler J, Delsing P, Gilsbach JM, Schröder JM, **Weis J**: Morphological changes following experimental intraventricular haemorrhage and intraventricular fibrinolytic treatment with recombinant tissue plasminogen activator. *Acta Neuropathol* 100: 561-567, 2000

61. Brunello AG, Weissenberger J, Kappeler A, Vallan C, Peters M, Rose-John S, **Weis J**: CNS alterations in interleukin-6/soluble interleukin-6 receptor alpha double transgenic mice. *Am J Pathol* 157: 1485-1493, 2000

60. Ramelli GP, von der Weid N, Remonda L, Mariani L, **Weis J**: PXA derived from glioneuronal malformation in a child with intractable epilepsy. *J Child Neurol*, 15:270-272, 2000

59. Ramelli GP, Slongo T, **Weis J**, Tschäppler H, Vassella F: Pseudarthrose bei Neurofibromatose Typ 1. *Klin Pädiatr* 212: 26-30, 2000

58. Vielhaber S, Feistner H, Schneider W, **Weis J**, Kunz WS: Mitochondrial complex I deficiency in a female with arthrogryposis congenita. *Pediatr Neurol* 22: 53-56, 2000

1999

57. Thier M, Hall M, Heath JK, Pennica D, **Weis J**: Trophic effects of cardiotrophin-1 and interleukin-11 on rat dorsal root ganglion neurons in vitro. *Brain Res Mol Brain Res* 64: 80-84, 1999

56. Thier M, März P, Otten U, **Weis J**, Rose-John S: Interleukin-6 (IL-6) supports survival of sensory neurons: Autocrine effects of IL-6 and soluble IL-6 receptor and enhanced activity of an IL-6 designer cytokine. *J Neurosci Res* 55: 411-422, 1999

55. Kuhlenbäumer G, Young P, Kiefer R, Timmerman V, Wang JF, Schröder JM, **Weis J**, Ringelstein EB, van Broeckhoven C, Stögbauer F: A second family with autosomal dominant burning feet syndrome. *Ann N Y Acad Sci* 883: 445-448, 1999

54. Bayer TA, Thier M, Roeb E, Breuer B, Weggen S, Wiestler OD, **Weis J**: Migratory potential of transplantable neural tumor cell lines. *Acta Neuropathol* 97: 607-612, 1999
53. Stögbauer F, Young P, Kuhlenbäumer G, Kiefer R, Timmerman V, Ringelstein EB, Wang J-F, Schröder JM, Van Broeckhoven C, **Weis J**: Autosomal dominant burning feet syndrome. *J Neurol Neurosurg Psychiatr* 67: 78-81, 1999
52. **Weis J**, Schönrock L, Züchner SL, Sure U, DiStefano PS, Ringelstein EB, Stögbauer F, Schul C, Halfter H: Neurocytokines and their receptor subunits in human astrocytomas. *J Neuro-Oncol* 44: 243-253, 1999

1998

51. Brook GA, Schmitt A, **Weis J**, Schröder JM, Noth J: Distribution of B-50 (Gap-43) mRNA and protein in the normal adult human spinal cord. *Acta Neuropathol* 95: 378-386, 1998
50. **Weis J**, Weber U, Schröder JM, Lemke R, Althoff H: Phrenic nerves and diaphragmatic muscle fibers in sudden infant death: an electron microscopic and morphometric study. *Forensic Sci Int* 91: 133-146, 1998
49. Spetzger U, Reul J, **Weis J**, Bertalanffy H, Gilsbach JM: Endovascular coil embolization of microsurgically produced experimental bifurcation aneurysms in rabbits. *Surg Neurol* 49: 491-494, 1998
48. **Weis J**, Lie DC, Ragoß U, Züchner S, Karpati G, Yancopoulos GD, DiStefano PS: CNTF receptor alpha expression is increased in acute denervation atrophy of human skeletal muscle. *J Neuropathol Exp Neurol* 57: 850-857, 1998
47. Lie DC, **Weis J**: GDNF expression is increased in denervated human skeletal muscle. *Neurosci Lett* 250: 87-90, 1998
46. Reul J, Spetzger U, **Weis J**, von Buelow S, Ince A, Gilsbach JM, Thron A: The nature of early intraluminal thrombosis in terminal aneurysms occluded with Guglielmi detachable coils. *Interventional Neuroradiol* 4: 39-48, 1998
45. Schwarz M, Poeck K, De Bleser R, **Weis J**: A case of primary progressive aphasia: a 14 year follow-up study with neuropathological findings. *Brain* 121: 115-126, 1998
44. Godoy N, Ganesalingam N, Remonda L, **Weis J**, Seiler RW: Pediatric extra-axial cavernoma of the cerebellopontine angle presenting with intralesional hemorrhage. *Neurovascular Disease* 3: 177-182, 1998

1997

43. Küker W, Mull M, Mayfrank L, **Weis J**, Schiefer J, Thron A: A cystic lesion within the dural sinuses: a rare cause of increased intracranial pressure. *Neuroradiology* 39: 132-135, 1997
42. **Weis J**, Reul J, Mayfrank L, Raemakers V, Thron A: Duplication of a vertebral artery associated with epidermoid cyst of the posterior fossa. *Europ Radiol* 7: 412-414, 1997

41. Mrowka C, Heintz B, Mayfrank L, **Weis J**, Reul J, Sieberth H-G: Isolated cerebral aspergilloma - long-term survival of a renal transplant recipient. *Clin Nephrol* 47, 394-396, 1997
40. Mayfrank L, Kissler J, Raoofi R, Delsing P, **Weis J**, Küker W, Gilsbach JM: Ventricular dilatation in experimental intraventricular hemorrhage in pigs. Characterization of CSF dynamics and the effects of fibrinolytic treatment. *Stroke* 28: 141-148, 1997
39. Cremerius U, Bares R, **Weis J**, Sabri O, Mull M, Schröder JM, Gilsbach JM, Büll U: Fasting improves discrimination of grade I and atypical or malignant meningioma in FDG PET. *J Nucl Med* 38: 26-30, 1997
38. Lippitz B, Scheitinger C, Scholz M, **Weis J**, Gilsbach JM, Füzesi L: In situ hybridization studies on cytogenetic alterations in stereotactic glioma biopsies. *Acta Neurochir* 139: 22-25, 1997
37. Moser M, Pscherer A, Becker J, Mücher G, Zerres K, Dixkens C, **Weis J**, Guay-Woodford L, Buettner R, Fässler R: Enhanced apoptotic cell death of renal epithelial cells in mice lacking transcription factor AP2 β . *Genes & Development* 11: 1938-1948, 1997
36. Reul J, Spetzger U, **Weis J**, Sure U, Gilsbach JM, Thron A: Long-term results after endovascular occlusion of experimental aneurysms with detachable coils: influence of packing density and perioperative anticoagulation. *Neurosurgery* 41: 1160-1165, 1997
35. Reul J, **Weis J**, Spetzger U, Konert T, Fricke C, Thron A: Long-term angiographical and histopathological findings in experimental carotid bifurcation aneurysms embolized with platinum and tungsten coils. *Am J Neuroradiol* 18: 35-42, 1997

1996

34. Schröder JM, Mayer M, **Weis J**: Mitochondrial abnormalities and intrafamilial variability of sural nerve biopsy findings in adrenomyeloneuropathy. *Acta Neuropathol* 92: 64-69, 1996
33. Striepecke E, Koch A, **Weis J**, Reinicke T, Schröder JM, Zang KD, Böcking A: Correlation of histology, cytogenetics and proliferation fraction (MIB1 and PC10) quantitated by image analysis in meningiomas. *Pathol Res Pract* 192: 816-824, 1996
32. Spetzger U, Reul J, **Weis J**, Bertalanffy H, Thron A, Gilsbach JM: Microsurgically produced bifurcation aneurysms in a rabbit model of endovascular coil embolization. *J Neurosurg* 85: 488-495, 1996
31. Lippitz B, Cremerius U, Mayfrank L, Bertalanffy H, Raoofi R, **Weis J**, Böcking A, Büll U, Gilsbach JM: 18-FDG PET study of intracranial meningiomas: correlation with histopathology, cellularity and proliferative rate. *Acta Neurochir* 65 (Suppl.): 108-111, 1996
30. Meincke U, Mull M, **Weis J**, Töpfer R: Sensible Jackson-Anfälle als Erstmanifestation einer Sarkoidose. *Nervenarzt* 67: 883-885, 1996
29. **Weis J**, Windl O, Kretzschmar HA, Podoll K, Schwarz M: Fatal spongiform encephalopathy in a patient who handled animal feed (**letter**). *Lancet* 348: 1240, 1996

1995

28. Schröder JM, Dodel R, **Weis J**, Stefanidis I, Reichmann H: Mitochondrial changes in muscle phosphoglycerate kinase deficiency. *Clin Neuropathol* 15: 34-40, 1995
27. Porter BE, **Weis J**, Merlie JP, Sanes JR: A motoneuron-selective stop signal for neurite outgrowth in the synaptic protein, s-laminin. *Neuron* 14: 549-559, 1995
26. Schröder JM, Krabbe B, **Weis J**: Oculopharyngeal muscular dystrophy (OPMD): Clinical and morphological follow up study reveals mitochondrial alterations and unique nuclear inclusions. *Neuropathol Appl Neurobiol* 21: 68-73, 1995
25. Thier M, Simon R, Krüttgen A, Schröder JM, Heinrich PC, Rose-John S, **Weis J**: Site directed mutagenesis of human CNTF: Functional analysis of recombinant variants. *J Neurosci Res* 40: 826-835, 1995
24. Reul J, **Weis J**, Jung A, Willmes K, Thron A: CNS lesions and cervical disk herniations in amateur divers. *Lancet* 345: 1403-1405, 1995
23. Krüttgen A, Grötzinger J, Kuratpak G, **Weis J**, Simon R, Thier M, Schröder JM, Heinrich PC, Wollmer A, Müllberg J, Rose-John S: Human ciliary neurotrophic factor: a structure-function analysis. *Biochem J* 309: 215-220, 1995
22. Reul J, **Weis J**, Spetzger U, Isensee C, Thron A: Differential diagnosis of truly suprasellar space-occupying masses: synopsis of clinical findings, CT, and MRI. *Europ Radiol* 5: 224-237, 1995
21. Hauptmann S, Zardi L, Siri A, Carnemolla B, Borsi L, Castelluci M, Klosterhalfen B, Hartung P, **Weis J**, Stöcker G, Haubeck H-D, Kirkpatrick CJ: Extracellular matrix proteins in colorectal carcinomas. Expression of tenascin and fibronectin isoforms. *Laboratory Invest* 73: 172-182, 1995
20. Hauptmann S, Klosterhalfen B, **Weis J**, Poche R, Kirkpatrick J: Morphology of cardiac muscle in septic shock. Observations with a porcine septic shock model. *Virch Arch* 426:487-491, 1995
19. Simon R, Thier M, Krüttgen A, Weiergräber O, Schröder JM, Heinrich PC, Rose-John S, **Weis J**: Human CNTF and related cytokines: effects on DRG neuron survival. *NeuroReport* 7: 153-157, 1995

1994

18. **Weis J**: Jun, fos, myoD, and myogenin proteins are increased in skeletal muscle fiber nuclei after denervation. *Acta Neuropathol* 87: 63-70, 1994
17. Hauptmann S, Klosterhalfen B, **Weis J**, Mittermayer C, Kirkpatrick CJ: Skeletal muscle edema and muscle fiber necrosis during septic shock. Observations with a porcine septic shock model. *Virch Archiv* 424: 653-659, 1994
16. **Weis J**, May R, Schröder JM: Fine structural and immunohistochemical identification of perineurial cells connecting proximal and distal stumps of transected peripheral

nerves at early stages of regeneration in silicone tubes. *Acta Neuropathol* 88: 159-165, 1994

15. Cremerius U, Striepecke E, Henn W, **Weis J**, Mull M, Lippitz B, Gilsbach J, Schröder JM, Zang KD, Böcking A, Büll U: 18-FDG-PET bei intrakraniellen Meningeomen im Vergleich zu histopathologischem Grading, Ki-67-Proliferationsindex, Zelldichte und zytogenetischer Untersuchung. *Nuklear-Medizin* 33: 144-149, 1994

14. **Weis J**, Dimpfel W, Schröder JM: Nerve conduction changes and histological and ultrastructural alterations of extra- and intrafusal muscle and nerve fibers in streptozotocin diabetic rats. *Muscle & Nerve* 18: 175-184, 1994

13. Reul J, Gievers B, **Weis J**, Thron A: Diagnosis of the narrow spinal canal: a prospective comparison of MRI, myelography and CT-myelography. *Neuroradiology* 37: 187-191, 1994

1993

12. **Weis J**, Alexianu M, Heide G, Schröder JM: Renaut bodies contain elastic fiber components. *J Neuropathol Exp Neurol* 52: 444-451, 1993

11. Schröder JM, May R, **Weis J**: Perineurial cells are the first to traverse gaps of peripheral nerves in silicone tubes. *Clin Neurol Neurosurg* 95: S78-S83, 1993

1992

10. Kamps I, **Weis J**, Ringelstein EB: Repetitive Behandlung einer subtotalen Vertebralissenose mit "tissue plasminogen activator" (tPA). *Nervenarzt* 63: 755-760, 1992

1991

9. **Weis J**, Fine SM, David C, Savarirayan S, Sanes JR: Integration site-dependent expression of a transgene reveals special features of cells associated with neuromuscular junctions. *J Cell Biol* 113: 1385-1397, 1991

8. **Weis J**, Fine SM, Sanes JR: Integration site-dependent transgene expression used to mark subpopulations of cells: an example from the neuromuscular junction. *Brain Pathol* 2: 31-37, 1991

1990

7. Niedeggen A, **Weis J**, Mertens R, Röther J, Bröcheler J: Unusually long survival after resection and irradiation of a brain metastasis of osteosarcoma. *Neurosurgical Rev* 13: 247-252, 1990

1989

6. **Weis J**, Schröder JM: Differential effects of nerve, muscle and fat tissue on regenerating nerve fibers in vivo. *Muscle & Nerve* 12: 723-734, 1989

5. **Weis J**, Schröder JM: The influence of fat tissue on neuroma formation. *J Neurosurg* 71: 588-593, 1989

4. Biniek R, Weiller C, Müllges W, **Weis J**: Liquorzytologie in der Notfallroutine. *Intensivmed* 26: 210-212, 1989

1988

3. **Weis J**, Schröder JM: Adult polyglucosan body myopathy with subclinical peripheral neuropathy: case report and review of diseases associated with polyglucosan body accumulation. *Clin Neuropathol* 7: 271-279, 1988

1987

2. **Weis J**, Schäfer AT: Plötzlicher Tod bei Hemiatrophia cerebri. *Zeitschr f Rechtsmed* 98: 213-219, 1987

1985

1. Schröder JM, Hoheneck M, **Weis J**, Deist H: Ethylene oxide polyneuropathy: clinical follow-up study with morphometric and electron microscopic findings in a sural nerve biopsy. *J Neurol* 232: 283-290, 1985

Reviews, guidelines, comments, etc.

33. Korinthenberg R, Trollmann R, Plecko B, Stettner GM, Blankenburg M, **Weis J**, Schoser B, Müller-Felber W, Lochbuehler N, Hahn G, Rudnik-Schöneborn S. Differential Diagnosis of Acquired and Hereditary Neuropathies in Children and Adolescents-Consensus-Based Practice Guidelines. *Children (Basel)*. 8(8):687, 2021 Deutsche Fassung: Differentialdiagnose der erworbenen und hereditären Neuropathien im Kindes- und Jugendalter. In: *Leitlinien Kinder- und Jugendmedizin*, Dt. Ges. für Kinder- und Jugendmedizin. Hrsg.: Niehues, T et al. Q9, 1-23. Elsevier, Urban & Fischer Verlag 2021

32. Ritschel N, Radbruch H, Herden C, Schneider N, Dittmayer C, Franz J, Thomas C, Silva Boos G, Pagenstecher A, Schulz-Schaeffer W, Stadelmann C, Glatzel M, Heppner FL, Weis J, Sohrabi K, Schänzer A, Németh A, Acker T; DGNN-Taskforce „CNS-COVID19“; „DEFEAT PANDEMIcs – Neuropathologische Referenzdiagnostik bei COVID-19“. COVID-19: Auswirkungen auf das zentrale und periphere Nervensystem [COVID-19 and the central and peripheral nervous system]. *Pathologe*. 42(2):172-182, 2021

31. Mathis S, Vallat JM, **Weis J**. When botany inspired pathology of the peripheral nervous system. *Neurology*. 95(12): 532-536, 2020

30. Brenner D, Rosenbohm A, Yilmaz R, Müller K, Grehl T, Petri S, Meyer T, Grosskreutz J, Weydt P, Ruf W, Neuwirth C, Weber M, Pinto S, Claeys KG, Schrank B, Jordan B, Knehr A, Günther K, Hübers A, Zeller D, Kubisch C, Jablonka S, Sendtner M, Klopstock T, de Carvalho M, Sperfeld A, Borck G, Volk AE, Dorst J, **Weis J**, Otto M,

Schuster J, Del Tredici K, Braak H, Danzer KM, Freischmidt A, Meitinger T, Ludolph AC, Andersen PM, Weishaupt JH; German ALS network MND-NET. Reply: Adult-onset distal spinal muscular atrophy: a new phenotype associated with KIF5A mutations. *Brain*. 142(12):e67, 2019

29. Eggermann K, Gess B, Häusler M, **Weis J**, Hahn A, Kurth I. Hereditary Neuropathies. *Dtsch Arztebl Int*. 115(6): 91-97, 2018

28. Katona I, **Weis J**. Diseases of the peripheral nerves. *Handb Clin Neurol*. 2017;145:453-474.

27. **Weis J**, Claeys KG, Roos A, Azzedine H, Katona I, Schröder JM, Senderek J. Towards a functional pathology of hereditary neuropathies. *Acta Neuropathol*. 133(4): 493-515, 2017

26. Gama-Carvalho M, Garcia-Vaquero ML, Pinto FR, Besse F, **Weis J**, Voigt A, Schulz JB, De Las Rivas J. Linking amyotrophic lateral sclerosis and spinal muscular atrophy through RNA-transcriptome homeostasis: a genomics perspective. *J Neurochem*. 141(1): 12-30, 2017

25. Stenzel W, **Weis J**. Update on diagnostic muscle biopsy of neuromuscular diseases. *Nervenheilkunde*. 36: 17-22, 2016

24. Deschauer M, Mueller-Reible CR, Roesler KM, Schoser B, Wanschitz J, **Weis J**, Zierz S. Diagnosis of Myopathies. *Aktuelle Neurologie*. 43(10): 599-607, 2016

23. Ermis U, **Weis J**, Schulz JB. Case reports of PML in patients treated for psoriasis. *N Engl J Med*. 369(11): 1081, 2013 (Letter)

22. Deumens R, Bozkurt A, Meek MF, Marcus M, Joosten E, **Weis J**, Brook GA. Repairing injured peripheral nerves: Bridging the gap. *Prog Neurobiol*. 92(3): 245-76, 2010

21. **Weis J**, Brandner S, Lammens M, Sommer C, Vallat JM. Processing of nerve biopsies: A practical guide for neuropathologists. *Clin Neuropathol*. 31(1): 7-23, 2012

20. Sommer CL, Brandner S, Dyck PJ, Harati Y, LaCroix C, Lammens M, Magy L, Mellgren SI, Morbin M, Navarro C, Powell HC, Schenone AE, Tan E, Urtizbera A, **Weis J**. Peripheral Nerve Society Guideline on processing and evaluation of nerve biopsies. *J Peripher Nerv Syst*. 15(3): 164-75, 2010

19. Bahm J, Ocampo-Pavez C, Disselhorst-Klug C, Sellhaus B, **Weis J**. Obstetric brachial plexus palsy. *Deutsches Ärzteblatt*. 6: 83-90, 2009

18. **Weis J**. Stellenwert der Muskelbiopsie in der Diagnostik der Muskelerkrankungen. *NeuroAktuell*. 5: 21-25, 2009

17. **Weis J**, Nikolin S, Nolte K. Neurogenic muscular atrophy and selective fibre type atrophies: Crucial findings in the biopsy diagnosis of neuromuscular disease. *Pathologe*. 30(5): 379-83, 2009

16. **Weis J**. Myopathology: an update. *Pathologe*. 30(5):343-4, 2009

15. Bergmann M, **Weis J**, Probst-Cousin S. Muscle biopsy: Indications and techniques. *Pathologe*. 30(5): 348-51, 2009

14. **Weis J**, Nolte K. Inflammatory and other myopathies and skeletal muscle vasculitis: The role of muscle and nerve biopsies. *Z Rheumatol.* 68(6): 459-64, 2009
13. **Weis J**, Nikolin S, Nolte K. Muskel- und Nervenbiopsien: Aktuelle Aspekte. *Nervenheilkunde.* 9: 624-26, 2009
12. Sommer C, Brandner S, Dyck PJ, Magy L, Mellgren SI, Morbin M, Schenone A, Tan E, **Weis J**. 147th ENMC international workshop: guideline on processing and evaluation of sural nerve biopsies, 15-17 December 2006, Naarden, The Netherlands. *Neuromuscul Disord* 18: 90-96, 2008
11. **Weis J**. Twenty-five years of the Neuromuscular Disease reference Center of the German Society for Neuroanatomy. *Nervenarzt.* 79: 958-60, 2008
10. **Weis J**. Stellenwert der Muskelbiopsie in der Diagnostik der Muskelerkrankungen. *NeuroAktuell.* 501-03, 2008
9. Bronfman FC, Escudero CA, **Weis J**, Krüttgen, A: Endosomal transport of neurotrophins: roles in signaling and neurodegenerative diseases. *Dev Neurobiol* 116: 1–22, 2007
8. Moises T, Dreier A, Flohr S, Esser M, Brauers E, Reiss K, Merken D, **Weis J**, Krüttgen A: Tracking TrkA's Trafficking: NGF Receptor Trafficking Controls NGF Receptor Signaling. *Mol Neurobiol* 35(2):151-9, 2007
7. Fries M, **Weis J**, Rossaint R: Is Xenon really neuroprotective after cardiac arrest? *Anesthesiology* 104: 211 (letter), 2006
6. Krüttgen A, Schneider I, **Weis J**: The dark side of the NGF family: Neurotrophins in neoplasias. *Brain Pathol* 16:304-310, 2006
5. **Weis J**, Saxena S, Evangelopoulos ME, Krüttgen A: Trophic factors in neurodegenerative disorders. *IUBMB Life* 55: 353-357, 2003
4. Krüttgen A, Saxena S, Evangelopoulos ME, **Weis J**: Neurotrophins and neurodegenerative diseases: Receptors stuck in traffic? *J Neuropathol Exp Neurol* 62: 340-350, 2003
3. **Weis J**: Aktuelle Aspekte der Myopathologie. *Therap Umschau* 60: 71-75, 2003
2. Krüttgen A, Saxena S, Evangelopoulos ME, **Weis J**: Neurotrophins and retrograde signalling: a long distance relationship. *Neuroembryology* 1:128-140, 2002
1. Buonanno A, Cheng J, Venepally P, **Weis J**, Calvo S: Activity dependent regulation of muscle genes: repressive and stimulatory effects of innervation. *Acta Physiol Scand* 163: S17-S26, 1998

Book

Vallat J-M, **Weis J** (eds.): Peripheral nerve disorders: pathology and genetics. The International Society of Neuropathology; *Wiley Blackwell* ISBN: 978-1-118-61843-1, 2014

Book chapters

6. Heinen C, Kretschmer T, **Weis J**. Nerven-tumoren. In T. Kretschmer, G. Antoniadis, H. Assmus (Hrsg.): Nerven-chirurgie, S. 227-259. ISBN: 978-3-642-36894-3. Springer 2014
5. Mayfrank L, Delsing P, Kissler J, Raoofi R, **Weis J**, Küker W, Gilsbach JM: The effects of tissue type plasminogen activator (tPA) on clot lysis and ventricular dilation in a new experimental model of intraventricular hemorrhage. In: Böker DK (Hrsg.) Spontane intracerebrale Blutungen: Veränderte Therapiekonzepte. Biermann, Gießen, 1997
4. **Weis J**, Nolte K, Mader H, Schroder JM, Grehl H, Rada A, Zerres K, Senderek J. Late sporadic CMT4C – a new KIAA 1985 mutation. Companion to Dyck and Thomas, Peripheral Neuropathy. Edited by Dyck PJ, Dyck PJB, Klein JC, Low PA, Amrami K, Spinner RJ. London and Amsterdam, Elsevier, 171-173, 2009
3. Block F, **Weis J**: Periphere Neuropathie, Kap. 17, S. 303 – 328. In: Block F, Prüter C (Hrsg.) Medikamentös induzierte neurologische und psychiatrische Störungen, Springer, 2006
2. Block R, **Weis J**: Myopathie, Kap. 19, S. 343 – 357. In: Block F, Prüter C (Hrsg.) Medikamentös induzierte neurologische und psychiatrische Störungen, Springer, 2006
1. **Weis J**, Schröder JM: Limitation of neuroma formation by fat tissue? In: Samii M (Hrsg.) Peripheral Nerve Lesions, S. 124-129. Springer, 1990

Habilitation treatise (Habilitationsschrift)

"Zelluläre und molekulare Mechanismen der Nerven-faserregeneration". RWTH Aachen, 1995

Doctoral thesis (Dissertation)

"Experimentelle Untersuchungen zur Beeinflussung der Nervenregeneration durch Muskel, Nerven- und Fettgewebe". RWTH Aachen, 1987