

## Publications in 2022 with the NBB as co-author

The following list contains publications that arose from research projects in which the NBB's contribution was more substantial than the supply of tissue, but also e.g. intellectual input into study design or specific analyses of tissue or donor data. In these cases the NBB requests corporate co-authorship.

- Gami-Patel, P., Scarioni, M., Bouwman, F. H., Boon, B. D. C., van Swieten, J. C., **Netherlands Brain Bank**, Rozemuller, A. J. M., Smit, A. B., Pijnenburg, Y. A. L., Hoozemans, J. J. M., & Dijkstra, A. A. (2022). The severity of behavioural symptoms in FTD is linked to the loss of GABRQ-expressing VENs and pyramidal neurons. *Neuropathology and Applied Neurobiology*, e12798. <https://doi.org/10.1111/nan.12798>
- Giannini, L. A. A., Ohm, D. T., Rozemuller, A. J. M., Dratch, L., Suh, E., van Deerlin, V. M., Trojanowski, J. Q., Lee, E. B., van Swieten, J. C., Grossman, M., Seelaar, H., Irwin, D. J., & **Netherlands Brain Bank**. (2022). Isoform-specific patterns of tau burden and neuronal degeneration in MAPT-associated frontotemporal lobar degeneration. *Acta Neuropathologica*, 144(6), 1065–1084. <https://doi.org/10.1007/s00401-022-02487-4>
- Mol, M. O., van der Lee, S. J., Hulsman, M., Pijnenburg, Y. A. L., Scheltens, P., Seelaar, H., van Swieten, J. C., Kaat, L. D., Holstege, H., van Rooij, J. G. J., & **Netherlands Brain Bank**. (2022). Mapping the genetic landscape of early-onset Alzheimer's disease in a cohort of 36 families. *Alzheimer's Research & Therapy*, 14(1), 77. <https://doi.org/10.1186/s13195-022-01018-3>
- Niklasson, B., Lindquist, L., Klitz, W., Fredrikson, S., Morgell, R., Mohammadi, R., **Netherlands Brain Bank**, Karapetyan, Y., & Englund, E. (2022). Picornavirus May Be Linked to Parkinson's Disease through Viral Antigen in Dopamine-Containing Neurons of Substantia Nigra. *Microorganisms*, 10(3), Article 3. <https://doi.org/10.3390/microorganisms10030599>
- Pocevičiūtė, D., Nuñez-Díaz, C., Roth, B., Janelidze, S., Giannisis, A., Hansson, O., Wennström, M., & **The Netherlands Brain Bank**. (2022). Increased plasma and brain immunoglobulin A in Alzheimer's disease is lost in apolipoprotein E ε4 carriers. *Alzheimer's Research & Therapy*, 14(1), 117. <https://doi.org/10.1186/s13195-022-01062-z>
- Scarioni, M., Gami-Patel, P., Peeters, C. F. W., de Koning, F., Seelaar, H., Mol, M. O., van Swieten, J. C., **Netherlands Brain Bank**, Rozemuller, A. J. M., Hoozemans, J. J. M., Pijnenburg, Y. A. L., & Dijkstra, A. A. (2022). Psychiatric symptoms of frontotemporal dementia and subcortical (co-)pathology burden: New insights. *Brain*, awac043. <https://doi.org/10.1093/brain/awac043>
- Scholtens, L. H., Pijnenburg, R., Lange, S. C. de, Huitinga, I., Heuvel, M. P. van den, & **Netherlands Brain Bank** (2022). Common Microscale and Macroscale Principles of Connectivity in the Human Brain. *Journal of Neuroscience*, 42(20), 4147–4163. <https://doi.org/10.1523/JNEUROSCI.1572-21.2022>
- Wennström, M., Janelidze, S., Nilsson, K. P. R., Serrano, G. E., Beach, T. G., Dage, J. L., Hansson, O., & **The Netherlands Brain Bank**. (2022). Cellular localization of p-tau217 in brain and its association with p-

tau217 plasma levels. *Acta Neuropathologica Communications*, 10(1), 3.  
<https://doi.org/10.1186/s40478-021-01307-2>

Zhang, M., Ganz, A. B., Rohde, S., Rozemuller, A. J. M., **Netherlands Brain Bank**, Reinders, M. J. T., Scheltens, P., Hulsman, M., Hoozemans, J. J. M., & Holstege, H. (2022). Resilience and resistance to the accumulation of amyloid plaques and neurofibrillary tangles in centenarians: An age-continuous perspective. *Alzheimer's & Dementia*, n/a(n/a). <https://doi.org/10.1002/alz.12899>

## All publications in 2022

**The following list contains publications that were realized through the use of NBB tissue. The NBB is acknowledged in these articles, but is not included as a co-author.**

Ahmed, S. M., Fransen, N. L., Touil, H., Michailidou, I., Huitinga, I., Gommerman, J. L., Bar-Or, A., & Ramaglia, V. (2022). Accumulation of meningeal lymphocytes correlates with white matter lesion activity in progressive multiple sclerosis. *JCI Insight*, 7(5), e151683.  
<https://doi.org/10.1172/jci.insight.151683>

Albors, A. R., Singer, G. A., May, A. P., Ponting, C. P., & Storey, K. G. (2022). *Ependymal cell maturation is heterogeneous and ongoing in the mouse spinal cord and dynamically regulated in response to injury* (p. 2022.03.07.483249). bioRxiv. <https://doi.org/10.1101/2022.03.07.483249>

Almasabi, F., Alosaimi, F., Corrales-Terrón, M., Wolters, A., Strikwerda, D., Smit, J. V., Temel, Y., Janssen, M. L. F., & Jahanshahi, A. (2022). Post-Mortem Analysis of Neuropathological Changes in Human Tinnitus. *Brain Sciences*, 12(8), Article 8. <https://doi.org/10.3390/brainsci12081024>

Amerongen, S. van, Caton, D. K., Ossenkoppele, R., Barkhof, F., Pouwels, P. J. W., Teunissen, C. E., Rozemuller, A. J. M., Hoozemans, J. J. M., Pijnenburg, Y. A. L., Scheltens, P., & Vijverberg, Everard. G. B. (2022). *Rationale and Design of the 'NEurodegeneration: Traumatic brain injury as Origin of the Neuropathology' (NEwTON) Study: a Prospective Cohort Study of Individuals at Risk for Chronic Traumatic Encephalopathy* [Preprint]. In Review. <https://doi.org/10.21203/rs.3.rs-1502075/v1>

Azevedo, C., Teku, G., Pomeschchik, Y., Reyes, J. F., Chumarina, M., Russ, K., Savchenko, E., Hammarberg, A., Lamas, N. J., Collin, A., Gouras, G. K., Klementieva, O., Hallbeck, M., Taipa, R., Vihinen, M., & Roybon, L. (2022). Parkinson's disease and multiple system atrophy patient iPSC-derived oligodendrocytes exhibit alpha-synuclein-induced changes in maturation and immune reactive properties. *Proceedings of the National Academy of Sciences*, 119(12), e2111405119.  
<https://doi.org/10.1073/pnas.2111405119>

Baerends, E., Soud, K., Folke, J., Pedersen, A.-K., Henmar, S., Konrad, L., Lycas, M. D., Mori, Y., Pakkenberg, B., Woldbye, D. P. D., Dmytriyeva, O., & Pankratova, S. (2022). Modeling the early stages of Alzheimer's disease by administering intracerebroventricular injections of human native A $\beta$  oligomers to rats. *Acta Neuropathologica Communications*, 10(1), 113.  
<https://doi.org/10.1186/s40478-022-01417-5>

- Bakrania, P., Hall, G., Bouter, Y., Bouter, C., Beindorff, N., Cowan, R., Davies, S., Price, J., Mpamhanga, C., Love, E., Matthews, D., Carr, M. D., & Bayer, T. A. (2022). Discovery of a novel pseudo  $\beta$ -hairpin structure of N-truncated amyloid- $\beta$  for use as a vaccine against Alzheimer's disease. *Molecular Psychiatry*, 27(2), Article 2. <https://doi.org/10.1038/s41380-021-01385-7>
- Balusu, S., Horr , K., Thrupp, N., Snellinx, A., Serneels, L., Chrysidou, I., Arranz, A. M., Sierksma, A., Simr n, J., Karikari, T. K., Zetterberg, H., Chen, W.-T., Thal, D. R., Salta, E., Fiers, M., & Strooper, B. D. (2022). Long noncoding RNA MEG3 activates neuronal necroptosis in Alzheimer's disease (p. 2022.02.18.480849). bioRxiv. <https://doi.org/10.1101/2022.02.18.480849>
- Barde, S., Aguila, J., Zhong, W., Solarz, A., Mei, I., Prud'homme, J., Palkovits, M., Turecki, G., Mulder, J., Uhl n, M., Nagy, C., Mechawar, N., Hedlund, E., & H kfelt, T. (2022). Expression of substance P, NPY and their Receptors Is Altered in Major Depression (p. 2022.12.14.516867). bioRxiv. <https://doi.org/10.1101/2022.12.14.516867>
- Batiuk, M. Y., Tyler, T., Dragicevic, K., Mei, S., Rydbirk, R., Petukhov, V., Deviatiiarov, R., Sedmak, D., Frank, E., Feher, V., Habek, N., Hu, Q., Igolkina, A., Roszik, L., Pfisterer, U., Garcia-Gonzalez, D., Petanjek, Z., Adorjan, I., Kharchenko, P. V., & Khodosevich, K. (2022). Upper cortical layer-driven network impairment in schizophrenia. *Science Advances*, 8(41), eabn8367. <https://doi.org/10.1126/sciadv.abn8367>
- Belloy, M. E., Eger, S. J., Le Guen, Y., Damotte, V., Ahmad, S., Ikram, M. A., Ramirez, A., Tsolaki, A. C., Rossi, G., Jansen, I. E., de Rojas, I., Parveen, K., Slegers, K., Ingelsson, M., Hiltunen, M., Amin, N., Andreassen, O., S nchez-Juan, P., Kehoe, P., ... for the European Alzheimer & Dementia BioBank (EADB). (2022). Challenges at the APOE locus: A robust quality control approach for accurate APOE genotyping. *Alzheimer's Research & Therapy*, 14(1), 22. <https://doi.org/10.1186/s13195-022-00962-4>
- Belloy, M. E., Le Guen, Y., Eger, S. J., Napolioni, V., Greicius, M. D., & He, Z. (2022). A Fast and Robust Strategy to Remove Variant-Level Artifacts in Alzheimer Disease Sequencing Project Data. *Neurology Genetics*, 8(5), e200012. <https://doi.org/10.1212/NXG.000000000200012>
- Berdowski, W. M., van der Linde, H. C., Breur, M., Oosterhof, N., Beerepoot, S., Sanderson, L., Wijnands, L. I., de Jong, P., Tsai-Meu-Chong, E., de Valk, W., de Witte, M., van IJcken, W. F. J., Demmers, J., van der Knaap, M. S., Bugiani, M., Wolf, N. I., & van Ham, T. J. (2022). Dominant-acting CSF1R variants cause microglial depletion and altered astrocytic phenotype in zebrafish and adult-onset leukodystrophy. *Acta Neuropathologica*, 144(2), 211–239. <https://doi.org/10.1007/s00401-022-02440-5>
- Bertoglio, D., Verhaeghe, J., Wyffels, L., Miranda, A., Stroobants, S., Mrzljak, L., Dominguez, C., Skinbjerg, M., Bard, J., Liu, L., Munoz-Sanjuan, I., & Staelens, S. (2022). Synaptic Vesicle Glycoprotein 2A Is Affected in the Central Nervous System of Mice with Huntington Disease and in the Brain of a Human with Huntington Disease Postmortem. *Journal of Nuclear Medicine: Official Publication, Society of Nuclear Medicine*, 63(6), 942–947. <https://doi.org/10.2967/jnumed.121.262709>
- Bhusal, A., Nam, Y., Seo, D., Rahman, M. H., Hwang, E. M., Kim, S.-C., Lee, W.-H., & Suk, K. (2022). Cathelicidin-related antimicrobial peptide promotes neuroinflammation through astrocyte–microglia communication in experimental autoimmune encephalomyelitis. *Glia*, 70(10), 1902–1926. <https://doi.org/10.1002/glia.24227>

- Bogers, L., Engelenburg, H. J., Janssen, M., Unger, P.-P. A., Melief, M.-J., Wierenga-Wolf, A. F., Hsiao, C.-C., Mason, M. R. J., Hamann, J., Langelaar, J., Smolders, J., & Luijn, M. M. (2022). *Selective emergence of antibody-secreting cells in the multiple sclerosis brain* [Preprint]. In Review. <https://doi.org/10.21203/rs.3.rs-1857967/v1>
- Boon, B. D. C., Hoozemans, J. J. M., Rozemuller, A. J. M., Bouwman, F. H., Frigerio, I., Jonkman, L. E., Kouri, N., Dickson, D. W., & Murray, M. E. (2022). Neuroinflammation connecting amyloid-beta and p-tau pathology, may explain clinical heterogeneity in Alzheimer's disease. *Alzheimer's & Dementia*, *18*(S6), e064056. <https://doi.org/10.1002/alz.064056>
- Bosch, A. van den, Franssen, N., Mason, M., Rozemuller, A. J., Teunissen, C., Smolders, J., & Huitinga, I. (2022). Neurofilament Light Chain Levels in Multiple Sclerosis Correlate With Lesions Containing Foamy Macrophages and With Acute Axonal Damage. *Neurology - Neuroimmunology Neuroinflammation*, *9*(3). <https://doi.org/10.1212/NXI.0000000000001154>
- Bossoni, L., Hegeman-Kleinn, I., van Duinen, S. G., Bulk, M., Vroegindewey, L. H. P., Langendonk, J. G., Hirschler, L., Webb, A., & van der Weerd, L. (2022). Off-resonance saturation as an MRI method to quantify mineral- iron in the post-mortem brain. *Magnetic Resonance in Medicine*, *87*(3), 1276–1288. <https://doi.org/10.1002/mrm.29041>
- Bøstrand, S. M. K., Seeker, L. A., Kazakou, N.-L., Bestard-Cuche, N., Jäkel, S., Kenkhuis, B., Henderson, N. C., Bot, S. T. de, Roon-Mom, W. van, Priller, J., & Williams, A. (2022). *Mapping the glial transcriptome in Huntington's disease using snRNAseq: Selective disruption of glial signatures across brain regions* (p. 2022.09.10.507291). bioRxiv. <https://doi.org/10.1101/2022.09.10.507291>
- Boza-Serrano, A., Vrillon, A., Minta, K., Paulus, A., Camprubí-Ferrer, L., Garcia, M., Andreasson, U., Antonell, A., Wennström, M., Gouras, G., Dumurgier, J., Cognat, E., Molina-Porcel, L., Balasa, M., Vitorica, J., Sánchez-Valle, R., Paquet, C., Venero, J. L., Blennow, K., & Deierborg, T. (2022). Galectin-3 is elevated in CSF and is associated with A $\beta$  deposits and tau aggregates in brain tissue in Alzheimer's disease. *Acta Neuropathologica*, *144*(5), 843–859. <https://doi.org/10.1007/s00401-022-02469-6>
- Bridel, C., Gils, J. H. van, Miedema, S. S., Hoozemans, J. J., Pijnenburg, Y. A., Smit, A. B., Rozemuller, A. J., Abeln, S., & Teunissen, C. E. (2022). *Clusters of co-regulated proteins in brain cortex associate with fronto-temporal lobar degeneration* [Preprint]. In Review. <https://doi.org/10.21203/rs.3.rs-2247528/v1>
- Burley, R., Hewer, R. C., Teall, M., Dickson, L., Ossola, B., Russell, S., Bender, C., Cheung, T., Powell, J. A. C., Xu, X., Brice, N. L., Otter, L., Arimont, M., Kidd, S. L., Vidal, D., Dale, J. W., Mervin, L., Sore, H. F., Mateu, N., ... Bürli, R. W. (2022). Synthesis and SAR of novel GPR39 agonists and positive allosteric modulators. *Bioorganic & Medicinal Chemistry Letters*, *61*, 128607. <https://doi.org/10.1016/j.bmcl.2022.128607>
- Castro-Hernández, R., Berulava, T., Metelova, M., Epple, R., Centeno, T. P., Sakib, M. S., Burkhart, S., Ninov, M., Bohnsack, K. E., Bohnsack, M. T., Delalle, I., & Fischer, A. (2022). *Conserved reduction of m6A marks during aging and neurodegeneration is linked to altered translation of synaptic transcripts* (p. 2022.06.08.495100). bioRxiv. <https://doi.org/10.1101/2022.06.08.495100>

- Cegarra, C., Cameron, B., Chaves, C., Dabdoubi, T., Do, T.-M., Genêt, B., Roudières, V., Shi, Y., Tchepikoff, P., & Lesuisse, D. (2022). An innovative strategy to identify new targets for delivering antibodies to the brain has led to the exploration of the integrin family. *PLOS ONE*, *17*(9), e0274667. <https://doi.org/10.1371/journal.pone.0274667>
- Chunder, R., Schropp, V., Jabari, S., Marzin, M., Amor, S., & Kuerten, S. (2022). Identification of a novel role for matrix metalloproteinase-3 in the modulation of B cell responses in multiple sclerosis. *Frontiers in Immunology*, *13*. <https://doi.org/10.3389/fimmu.2022.1025377>
- Clarkson, B. D. S., Grund, E., David, K., Johnson, R. K., & Howe, C. L. (2022). ISGylation is induced in neurons by demyelination driving ISG15-dependent microglial activation. *Journal of Neuroinflammation*, *19*(1), 258. <https://doi.org/10.1186/s12974-022-02618-4>
- Dai, Y., Fang, T., Xu, Y., Jiang, T., & Qiao, J. (n.d.). Multi-fluorine labeled indanone derivatives as potential MRI imaging probes for  $\beta$ -Amyloid plaques. *Chemical Biology & Drug Design*, *n/a*(*n/a*). <https://doi.org/10.1111/cbdd.14162>
- Daniilidou, M., Erolu, F., Alanko, V., Goikolea, J., Latorre-Leal, M., Rodriguez-Rodriguez, P., Griffiths, W. J., Wang, Y., Pacciarini, M., Brinkmalm, A., Zetterberg, H., Blennow, K., Rosenberg, A., Bogdanovic, N., Winblad, B., Kivipelto, M., Ibgghi, D., Cedazo-Minguez, A., Maioli, S., & Sandebring-Matton, A. (2022). *Alzheimer's disease biomarker profiling in a memory clinic cohort without common comorbidities* (p. 2022.06.09.495140). bioRxiv. <https://doi.org/10.1101/2022.06.09.495140>
- de Ruyter, F. J. H., Morrema, T., Gase, G., den Haan, J., de Boer, J., Scheltens, P., Rozemuller, A. J. M., Verbraak, F. D., Bouwman, F. H., & Hoozemans, J. J. M. (2022). Post-mortem assessment of retinal phosphorylated tau and amyloid beta in a cohort of neurodegenerative diseases. *Alzheimer's & Dementia*, *18*(S4), e061463. <https://doi.org/10.1002/alz.061463>
- de Witte, L. D., Wang, Z., Snijders, G. L. J. L., Mendeleev, N., Liu, Q., Sneeboer, M. A. M., Boks, M. P. M., Ge, Y., & Haghighi, F. (2022). Contribution of Age, Brain Region, Mood Disorder Pathology, and Interindividual Factors on the Methylome of Human Microglia. *Biological Psychiatry*, *91*(6), 572–581. <https://doi.org/10.1016/j.biopsych.2021.10.020>
- Di Maio, A., De Rosa, A., Pelucchi, S., Garofalo, M., Marciano, B., Nuzzo, T., Gardoni, F., Isidori, A. M., Di Luca, M., Errico, F., De Bartolomeis, A., Marcello, E., & Usiello, A. (2022). Analysis of mRNA and Protein Levels of CAP2, DLG1 and ADAM10 Genes in Post-Mortem Brain of Schizophrenia, Parkinson's and Alzheimer's Disease Patients. *International Journal of Molecular Sciences*, *23*(3), Article 3. <https://doi.org/10.3390/ijms23031539>
- Donega, V., van der Geest, A. T., Sluijs, J. A., van Dijk, R. E., Wang, C. C., Basak, O., Pasterkamp, R. J., & Hol, E. M. (2022). Single-cell profiling of human subventricular zone progenitors identifies SFRP1 as a target to re-activate progenitors. *Nature Communications*, *13*(1), Article 1. <https://doi.org/10.1038/s41467-022-28626-9>
- Ettema, L., Lochocki, B., Hoozemans, J. J. M., Boer, J. F. de, & Ariese, F. (2022). Label-free Raman and fluorescence imaging of amyloid plaques in human Alzheimer's disease brain tissue reveal carotenoid accumulations. *Journal of Optics*, *24*(5), 054005. <https://doi.org/10.1088/2040-8986/ac5b51>

- Fathy, Y. Y., Jonkman, L. E., Bol, J. J., Timmermans, E., Jonker, A. J., Rozemuller, A. J. M., & de Berg, W. D. van. (2022). *Axonal degeneration in the anterior insular cortex in Parkinson's disease and Dementia with Lewy bodies: More than just an  $\alpha$ -synuclein story* [Preprint]. In Review.  
<https://doi.org/10.21203/rs.3.rs-1767866/v1>
- Fathy, Y. Y., Jonkman, L. E., Bol, J. J., Timmermans, E., Jonker, A. J., Rozemuller, A. J. M., & van de Berg, W. D. J. (2022). Axonal degeneration in the anterior insular cortex is associated with Alzheimer's co-pathology in Parkinson's disease and dementia with Lewy bodies. *Translational Neurodegeneration*, *11*(1), 52. <https://doi.org/10.1186/s40035-022-00325-x>
- Fernández Blanco, L., Marzin, M., Leistra, A., van der Valk, P., Nutma, E., & Amor, S. (2022). Immunopathology of the optic nerve in multiple sclerosis. *Clinical and Experimental Immunology*, *209*(2), 236–246. <https://doi.org/10.1093/cei/uxac063>
- Fernández Zapata, C., Giacomello, G., Spruth, E. J., Middeldorp, J., Gallaccio, G., Dehlinger, A., Dames, C., Leman, J. K. H., van Dijk, R. E., Meisel, A., Schlickeiser, S., Kunkel, D., Hol, E. M., Paul, F., Parr, M. K., Priller, J., & Böttcher, C. (2022). Differential compartmentalization of myeloid cell phenotypes and responses towards the CNS in Alzheimer's disease. *Nature Communications*, *13*(1), Article 1.  
<https://doi.org/10.1038/s41467-022-34719-2>
- Frigerio, I., Laansma, M. A., Lin, C.-P., Hermans, E. J., Bouwman, M. M., Bol, J. G., Galis-de Graaf, Y., Hepp, D. H., Rozemuller, A. J., Barkhof, F., van de Berg, W. D., & Jonkman, L. E. (2022). *Cortical distribution of neurofilaments associates with pathological hallmarks and MRI measures of atrophy and diffusivity in Parkinson's disease* [Preprint]. Neuroscience.  
<https://doi.org/10.1101/2022.08.10.503440>
- Gami-Patel, P., Scarioni, M., Bouwman, F. H., Boon, B. D. C., van Swieten, J. C., Brain Bank, N., Rozemuller, A. J. M., Smit, A. B., Pijnenburg, Y. A. L., Hoozemans, J. J. M., & Dijkstra, A. A. (2022). The severity of behavioural symptoms in FTD is linked to the loss of GABRQ-expressing VENs and pyramidal neurons. *Neuropathology and Applied Neurobiology*, *48*(4), e12798.  
<https://doi.org/10.1111/nan.12798>
- Gargareta, V.-I., Reuschenbach, J., Siems, S. B., Sun, T., Piepkorn, L., Mangana, C., Späte, E., Goebbels, S., Huitinga, I., Möbius, W., Nave, K.-A., Jahn, O., & Werner, H. B. (2022). Conservation and divergence of myelin proteome and oligodendrocyte transcriptome profiles between humans and mice. *ELife*, *11*, e77019. <https://doi.org/10.7554/eLife.77019>
- Gasterich, N., Bohn, A., Sesterhenn, A., Nebelo, F., Fein, L., Kaddatz, H., Nyamoya, S., Kant, S., Kipp, M., Weiskirchen, R., Zendedel, A., Beyer, C., & Clarner, T. (2022). Lipocalin 2 attenuates oligodendrocyte loss and immune cell infiltration in mouse models for multiple sclerosis. *Glia*, *70*(11), 2188–2206.  
<https://doi.org/10.1002/glia.24245>
- Gerrits, E., Giannini, L. A. A., Brouwer, N., Melhem, S., Seilhean, D., Le Ber, I., Kamermans, A., Kooij, G., de Vries, H. E., Boddeke, E. W. G. M., Seelaar, H., van Swieten, J. C., & Eggen, B. J. L. (2022). Neurovascular dysfunction in GRN-associated frontotemporal dementia identified by single-nucleus RNA sequencing of human cerebral cortex. *Nature Neuroscience*, *25*(8), Article 8.  
<https://doi.org/10.1038/s41593-022-01124-3>

- Ghorbani, S., Jelinek, E., Jain, R., Buehner, B., Li, C., Lozinski, B. M., Sarkar, S., Kaushik, D. K., Dong, Y., Wight, T. N., Karimi-Abdolrezaee, S., Schenk, G. J., Strijbis, E. M., Geurts, J., Zhang, P., Ling, C.-C., & Yong, V. W. (2022). Versican promotes T helper 17 cytotoxic inflammation and impedes oligodendrocyte precursor cell remyelination. *Nature Communications*, *13*(1), Article 1. <https://doi.org/10.1038/s41467-022-30032-0>
- Giannini, L. A. A., Ohm, D. T., Rozemuller, A. J. M., Dratch, L., Suh, E., van Deerlin, V. M., Trojanowski, J. Q., Lee, E. B., van Swieten, J. C., Grossman, M., Seelaar, H., Irwin, D. J., & Netherlands Brain Bank. (2022). Isoform-specific patterns of tau burden and neuronal degeneration in MAPT-associated frontotemporal lobar degeneration. *Acta Neuropathologica*, *144*(6), 1065–1084. <https://doi.org/10.1007/s00401-022-02487-4>
- Gomes-Duarte, A., Venø, M. T., de Wit, M., Senthilkumar, K., Broekhoven, M. H., van den Herik, J., Heeres, F. R., van Rossum, D., Rybiczka-Tesulov, M., Legnini, I., van Rijen, P. C., van Eijsden, P., Gosselaar, P. H., Rajewsky, N., Kijms, J., Vangoor, V. R., & Pasterkamp, R. J. (2022). Expression of Circ\_Satb1 Is Decreased in Mesial Temporal Lobe Epilepsy and Regulates Dendritic Spine Morphology. *Frontiers in Molecular Neuroscience*, *15*, 832133. <https://doi.org/10.3389/fnmol.2022.832133>
- Gitton, R., Dölle, C., Alves, G., Ole-Bjørn, T., Nido, G. S., & Tzoulis, C. (2022). Ultra-deep whole genome bisulfite sequencing reveals a single methylation hotspot in human brain mitochondrial DNA. *Epigenetics*, *17*(8), 906–921. <https://doi.org/10.1080/15592294.2022.2045754>
- Gumbs, S. B. H., Berdenis van Berlekom, A., Kübler, R., Schipper, P. J., Gharu, L., Boks, M. P., Ormel, P. R., Wensing, A. M. J., de Witte, L. D., & Nijhuis, M. (2022). Characterization of HIV-1 Infection in Microglia-Containing Human Cerebral Organoids. *Viruses*, *14*(4), Article 4. <https://doi.org/10.3390/v14040829>
- Gumbs, S. B. H., Kübler, R., Gharu, L., Schipper, P. J., Borst, A. L., Snijders, G. J. L. J., Ormel, P. R., van Berlekom, A. B., Wensing, A. M. J., de Witte, L. D., & Nijhuis, M. (2022). Human microglial models to study HIV infection and neuropathogenesis: A literature overview and comparative analyses. *Journal of NeuroVirology*, *28*(1), 64–91. <https://doi.org/10.1007/s13365-021-01049-w>
- Guo, L., Qi, Y.-J., Tan, H., Dai, D., Balesar, R., Sluiter, A., van Heerikhuize, J., Hu, S.-H., Swaab, D. F., & Bao, A.-M. (2022). Different oxytocin and corticotropin-releasing hormone system changes in bipolar disorder and major depressive disorder patients. *EBioMedicine*, *84*, 104266. <https://doi.org/10.1016/j.ebiom.2022.104266>
- Haidar, M., Loix, M., Vanherle, S., Dierckx, T., Vanganswinkel, T., Gervois, P., Wolfs, E., Lambrichts, I., Bogie, J. F. J., & Hendriks, J. J. A. (2022). Targeting lipophagy in macrophages improves repair in multiple sclerosis. *Autophagy*, *18*(11), 2697–2710. <https://doi.org/10.1080/15548627.2022.2047343>
- Hermans, D., Houben, E., Baeten, P., Slaets, H., Janssens, K., Hoeks, C., Hosseinkhani, B., Duran, G., Bormans, S., Gowing, E., Hoornaert, C., Beckers, L., Fung, W. K., Schrotten, H., Ishikawa, H., Fraussen, J., Thoelen, R., de Vries, H. E., Kooij, G., ... Broux, B. (2022). Oncostatin M triggers brain inflammation by compromising blood–brain barrier integrity. *Acta Neuropathologica*, *144*(2), 259–281. <https://doi.org/10.1007/s00401-022-02445-0>

- Hok-A-Hin, Y. S., Dijkstra, A. A., Rábano, A., Hoozemans, J. J., Castillo, L., Seelaar, H., van Swieten, J. C., Pijnenburg, Y. A. L., Teunissen, C. E., & del Campo, M. (2022). Apolipoprotein L1 is increased in frontotemporal lobar degeneration post-mortem brain but not in ante-mortem cerebrospinal fluid. *Neurobiology of Disease*, *172*, 105813. <https://doi.org/10.1016/j.nbd.2022.105813>
- Hok-A-Hin, Y. S., Hoozemans, J. J. M., Hu, W. T., Wouters, D., Howell, J. C., Rábano, A., van der Flier, W. M., Pijnenburg, Y. A. L., Teunissen, C. E., & del Campo, M. (2022). YKL-40 changes are not detected in post-mortem brain of patients with Alzheimer's disease and frontotemporal lobar degeneration. *Alzheimer's Research & Therapy*, *14*(1), 100. <https://doi.org/10.1186/s13195-022-01039-y>
- Huiskamp, M., Kiljan, S., Kulik, S., Witte, M. E., Jonkman, L. E., GJM Bol, J., Schenk, G. J., Hulst, H. E., Tewarie, P., Schoonheim, M. M., & Geurts, J. J. (2022). Inhibitory synaptic loss drives network changes in multiple sclerosis: An ex vivo to in silico translational study. *Multiple Sclerosis Journal*, *28*(13), 2010–2019. <https://doi.org/10.1177/13524585221125381>
- Jiang, R., Shimozawa, M., Mayer, J., Tambaro, S., Kumar, R., Abelein, A., Winblad, B., Bogdanovic, N., & Nilsson, P. (2022). Autophagy Impairment in App Knock-in Alzheimer's Model Mice. *Frontiers in Aging Neuroscience*, *14*, 878303. <https://doi.org/10.3389/fnagi.2022.878303>
- Jolink, W. M. T., van Veluw, S. J., Zwanenburg, J. J. M., Rozemuller, A. J. M., van Hecke, W., Frosch, M. P., Bacskai, B. J., Rinkel, G. J. E., Greenberg, S. M., & Klijn, C. J. M. (2022). Histopathology of Cerebral Microinfarcts and Microbleeds in Spontaneous Intracerebral Hemorrhage. *Translational Stroke Research*. <https://doi.org/10.1007/s12975-022-01016-5>
- Jordà-Siquier, T., Petrel, M., Kouskoff, V., Smailovic, U., Cordelières, F., Frykman, S., Müller, U., Mulle, C., & Barthet, G. (2022). APP accumulates with presynaptic proteins around amyloid plaques: A role for presynaptic mechanisms in Alzheimer's disease? *Alzheimer's & Dementia*, *18*(11), 2099–2116. <https://doi.org/10.1002/alz.12546>
- Jorge-Oliva, M., Smits, J. F. M., Wiersma, V. I., Hoozemans, J. J. M., & Scheper, W. (2022). Granulovacuolar degeneration bodies are independently induced by tau and  $\alpha$ -synuclein pathology. *Alzheimer's Research & Therapy*, *14*(1), 187. <https://doi.org/10.1186/s13195-022-01128-y>
- Jun, G. R., You, Y., Zhu, C., Meng, G., Chung, J., Panitch, R., Hu, J., Xia, W., Consortium, T. A. D. G., Bennett, D. A., Foroud, T. M., Wang, L.-S., Haines, J. L., Mayeux, R., Pericak-Vance, M. A., Schellenberg, G. D., Au, R., Lunetta, K. L., Ikezu, T., ... Farrer, L. A. (2022). Protein phosphatase 2A and complement component 4 are linked to the protective effect of APOE  $\epsilon$ 2 for Alzheimer's disease. *Alzheimer's & Dementia*, *18*(11), 2042–2054. <https://doi.org/10.1002/alz.12607>
- Kass, B., Schemmert, S., Zafiu, C., Pils, M., Bannach, O., Kutzsche, J., Bujnicki, T., & Willbold, D. (2022). A $\beta$  oligomer concentration in mouse and human brain and its drug-induced reduction ex vivo. *Cell Reports Medicine*, *3*(5), 100630. <https://doi.org/10.1016/j.xcrm.2022.100630>
- Kenkhuis, B., Somarakis, A., Kleindouwel, L. R. T., van Roon-Mom, W. M. C., Höllt, T., & van der Weerd, L. (2022). Co-expression patterns of microglia markers Iba1, TMEM119 and P2RY12 in Alzheimer's disease. *Neurobiology of Disease*, *167*, 105684. <https://doi.org/10.1016/j.nbd.2022.105684>
- Kim, J. H., Hwang, S., Son, H., Kim, D., Kim, I. B., Kim, M.-H., Sim, N. S., Kim, D. S., Ha, Y.-J., Lee, J., Kang, H.-C., Lee, J. H., & Kim, S. (2022). Analysis of low-level somatic mosaicism reveals stage and tissue-



- specific mutational features in human development. *PLOS Genetics*, 18(9), e1010404.  
<https://doi.org/10.1371/journal.pgen.1010404>
- Koetzier, S. C., van Langelaar, J., Melief, M.-J., Wierenga-Wolf, A. F., Corsten, C. E. A., Blok, K. M., Hoeks, C., Broux, B., Wokke, B., van Luijn, M. M., & Smolders, J. (2022). Distinct Effector Programs of Brain-Homing CD8+ T Cells in Multiple Sclerosis. *Cells*, 11(10), Article 10.  
<https://doi.org/10.3390/cells11101634>
- Lackie, R. E., de Miranda, A. S., Lim, M. P., Novikov, V., Madrer, N., Karunatilleke, N. C., Rutledge, B. S., Tullo, S., Brickenden, A., Maitland, M. E. R., Greenberg, D., Gallino, D., Luo, W., Attaran, A., Shlaifer, I., Del Cid Pellitero, E., Schild-Poulter, C., Durcan, T. M., Fon, E. A., ... Prado, M. A. M. (2022). Stress-inducible phosphoprotein 1 (HOP/ST11/STIP1) regulates the accumulation and toxicity of  $\alpha$ -synuclein in vivo. *Acta Neuropathologica*, 144(5), 881–910. <https://doi.org/10.1007/s00401-022-02491-8>
- Lee, J.-H., Ostalecki, C., Oberstein, T., Schierer, S., Zinser, E., Eberhardt, M., Blume, K., Plosnita, B., Stich, L., Bruns, H., Coras, R., Vera-Gonzales, J., Maler, M., & Baur, A. S. (2022). Alzheimer's disease protease-containing plasma extracellular vesicles transfer to the hippocampus via the choroid plexus. *EBioMedicine*, 77, 103903. <https://doi.org/10.1016/j.ebiom.2022.103903>
- Libé-Philippot, B., Lejeune, A., Wierda, K., Vlaeminck, I., Beckers, S., Gaspariunaite, V., Bilheu, A., Nyitrai, H., Vennekens, K. M., Bird, T. W., Soto, D., Dennis, M. Y., Comoletti, D., Theys, T., Wit, J. de, & Vanderhaeghen, P. (2022). *LRRC37B is a species-specific regulator of voltage-gated channels and excitability in human cortical neurons* (p. 2022.12.21.521423). bioRxiv.  
<https://doi.org/10.1101/2022.12.21.521423>
- Lin, C. P., Frigerio, I., Boon, B. D. C., Zhou, Z., Rozemuller, A. J. M., Bouwman, F. H., Schoonheim, M. M., van de Berg, W. D. J., & Jonkman, L. E. (2022). Structural (dys)connectivity associates with cholinergic cell density in Alzheimer's disease. *Brain*, 145(8), 2869–2881. <https://doi.org/10.1093/brain/awac093>
- Lin, C.-P., Knoop, L. E., Frigerio, I., Bol, J. G., Rozemuller, A. J., Berendse, H. W., Pouwels, P. J., Berg, W. D. van de, & Jonkman, L. E. (2022). *Nigral pathology contributes to microstructural integrity of striatal and frontal tracts in Parkinson's disease* (p. 2022.12.21.521411). bioRxiv.  
<https://doi.org/10.1101/2022.12.21.521411>
- Lindner, K., Beckenbauer, K., van Ek, L. C., Titeca, K., de Leeuw, S. M., Awwad, K., Hanke, F., Korepanova, A. V., Rybin, V., van der Kam, E. L., Mohler, E. G., Tackenberg, C., Lakics, V., & Gavin, A.-C. (2022). Isoform- and cell-state-specific lipidation of ApoE in astrocytes. *Cell Reports*, 38(9), 110435.  
<https://doi.org/10.1016/j.celrep.2022.110435>
- Lochocki, B., Verweg, M. V., Hoozemans, J. J. M., de Boer, J. F., & Amitonova, L. V. (2022). Epi-fluorescence imaging of the human brain through a multimode fiber. *APL Photonics*, 7(7), 071301.  
<https://doi.org/10.1063/5.0080672>
- Loix, M., Wouters, E., Vanherle, S., Dehairs, J., McManaman, J. L., Kempers, H., Swinnen, J. V., Haidar, M., Bogie, J. F. J., & Hendriks, J. J. A. (2022). Perilipin-2 limits remyelination by preventing lipid droplet degradation. *Cellular and Molecular Life Sciences*, 79(10), 515. <https://doi.org/10.1007/s00018-022-04547-0>

- Lopes, K. de P., Snijders, G. J. L., Humphrey, J., Allan, A., Sneeboer, M. A. M., Navarro, E., Schilder, B. M., Vialle, R. A., Parks, M., Missall, R., van Zuiden, W., Gigase, F. A. J., Kübler, R., van Berlekom, A. B., Hicks, E. M., Böttcher, C., Priller, J., Kahn, R. S., de Witte, L. D., & Raj, T. (2022). Genetic analysis of the human microglial transcriptome across brain regions, aging and disease pathologies. *Nature Genetics*, *54*(1), Article 1. <https://doi.org/10.1038/s41588-021-00976-y>
- Lu, S., Wu, Y., Guo, Y., Liang, P., Yin, S., Yin, Y., Zhang, X., Liu, Y.-F., Wang, H., Xiao, Y., Liang, X., & Zhou, J. (2022). Inhibition of astrocytic DRD2 suppresses CNS inflammation in an animal model of multiple sclerosis. *Journal of Experimental Medicine*, *219*(9), e20210998. <https://doi.org/10.1084/jem.20210998>
- Luengo, E., Trigo-Alonso, P., Fernández-Mendivil, C., Nuñez, Á., Campo, M. del, Porrero, C., García-Magro, N., Negro, P., Senar, S., Sánchez-Ramos, C., Bernal, J. A., Rábano, A., Hoozemans, J., Casas, A. I., Schmidt, H. H. H. W., & López, M. G. (2022). Implication of type 4 NADPH oxidase (NOX4) in tauopathy. *Redox Biology*, *49*, 102210. <https://doi.org/10.1016/j.redox.2021.102210>
- Lukic, M. J., Respondek, G., Kurz, C., Compta, Y., Gelpi, E., Ferguson, L. W., Rajput, A., Troakes, C., Group, the M. P. study, van Swieten, J. C., Giese, A., Roeber, S., Herms, J., Arzberger, T., & Höglinger, G. (2022). Long-Duration Progressive Supranuclear Palsy: Clinical Course and Pathological Underpinnings. *Annals of Neurology*, *92*(4), 637–649. <https://doi.org/10.1002/ana.26455>
- Maccioni, R., Trivisan, C., Zerial, S., Wagener, A., Andrade-Talavera, Y., Picciau, F., Grassi, C., Chen, G., Lemoine, L., Fisahn, A., Jiang, R., Fluhrer, R., Mentrup, T., Schröder, B., Nilsson, P., & Tambaro, S. (2022). *Signal Peptide Peptidase-Like 2b affects APP cleavage and exhibits a biphasic A $\beta$ -mediated expression in Alzheimer's disease* (p. 2022.10.24.513473). bioRxiv. <https://doi.org/10.1101/2022.10.24.513473>
- Mackmull, M.-T., Nagel, L., Sesterhenn, F., Muntel, J., Grossbach, J., Stalder, P., Bruderer, R., Reiter, L., van de Berg, W. D. J., de Souza, N., Beyer, A., & Picotti, P. (2022). Global, in situ analysis of the structural proteome in individuals with Parkinson's disease to identify a new class of biomarker. *Nature Structural & Molecular Biology*, *29*(10), Article 10. <https://doi.org/10.1038/s41594-022-00837-0>
- Macnair, W., Calini, D., Agirre, E., Bryois, J., Jäkel, S., Kukanja, P., Stokar-Regenscheit, N., Ott, V., Foo, L. C., Collin, L., Schippling, S., Urich, E., Nutma, E., Marzin, M., Amor, S., Magliozzi, R., Heidari, E., Robinson, M. D., French-Constant, C., ... Malhotra, D. (2022). *Single nuclei RNAseq stratifies multiple sclerosis patients into three distinct white matter glia responses* (p. 2022.04.06.487263). bioRxiv. <https://doi.org/10.1101/2022.04.06.487263>
- Malarte, M.-L., Gillberg, P.-G., Kumar, A., Bogdanovic, N., Lemoine, L., & Nordberg, A. (2022). Discriminative binding of tau PET tracers PI2620, MK6240 and RO948 in Alzheimer's disease, corticobasal degeneration and progressive supranuclear palsy brains. *Molecular Psychiatry*, 1–12. <https://doi.org/10.1038/s41380-022-01875-2>
- Man, J. H. K., van Gelder, C. A. G. H., Breur, M., Okkes, D., Molenaar, D., van der Sluis, S., Abbink, T., Altelaar, M., van der Knaap, M. S., & Bugiani, M. (2022). Cortical Pathology in Vanishing White Matter. *Cells*, *11*(22), Article 22. <https://doi.org/10.3390/cells11223581>

- Masrori, P., Bijnens, B., Davie, K., Poovathingal, S. K., Storm, A., Hersmus, N., Fumagalli, L., Bosch, L. V. D., Fiers, M., Thal, D. R., Mancuso, R., & Damme, P. V. (2022). *Hexanucleotide repeat expansions in C9orf72 alter microglial responses and prevent a coordinated glial reaction in ALS* (p. 2022.10.26.513909). bioRxiv. <https://doi.org/10.1101/2022.10.26.513909>
- Matias, I., Diniz, L. P., Damico, I. V., Araujo, A. P. B., Neves, L. da S., Vargas, G., Leite, R. E. P., Suemoto, C. K., Nitrini, R., Jacob-Filho, W., Grinberg, L. T., Hol, E. M., Middeldorp, J., & Gomes, F. C. A. (2022). Loss of lamin-B1 and defective nuclear morphology are hallmarks of astrocyte senescence in vitro and in the aging human hippocampus. *Aging Cell*, *21*(1), e13521. <https://doi.org/10.1111/accel.13521>
- Metselaar, D. S., du Chatinier, A., Meel, M. H., ter Huizen, G., Waranecki, P., Goulding, J. R., Bugiani, M., Koster, J., Kaspers, G. J. L., & Hulleman, E. (2022). AURKA and PLK1 inhibition selectively and synergistically block cell cycle progression in diffuse midline glioma. *iScience*, *25*(6), 104398. <https://doi.org/10.1016/j.isci.2022.104398>
- Miedema, A., Gerrits, E., Brouwer, N., Jiang, Q., Kracht, L., Meijer, M., Nutma, E., Peferoen-Baert, R., Pijnacker, A. T. E., Wesseling, E. M., Wijering, M. H. C., Gabius, H.-J., Amor, S., Eggen, B. J. L., & Kooistra, S. M. (2022). Brain macrophages acquire distinct transcriptomes in multiple sclerosis lesions and normal appearing white matter. *Acta Neuropathologica Communications*, *10*(1), 8. <https://doi.org/10.1186/s40478-021-01306-3>
- Miedema, S. S. M., Mol, M. O., Koopmans, F. T. W., Hondius, D. C., van Nierop, P., Menden, K., de Veij Mestdagh, C. F., van Rooij, J., Ganz, A. B., Paliukhovich, I., Melhem, S., Li, K. W., Holstege, H., Rizzu, P., van Kesteren, R. E., van Swieten, J. C., Heutink, P., & Smit, A. B. (2022). Distinct cell type-specific protein signatures in GRN and MAPT genetic subtypes of frontotemporal dementia. *Acta Neuropathologica Communications*, *10*(1), 100. <https://doi.org/10.1186/s40478-022-01387-8>
- Mikkelsen, J., Kaad, S., Aripaka, S. S., & Finsen, B. (2022). *Synaptic Vesicle Glycoprotein 2A (SV2A) Levels in the Cerebral Cortex in Patients with Alzheimer Disease: A Radioligand Binding Study in Post-Mortem Brains* (SSRN Scholarly Paper No. 4297860). <https://doi.org/10.2139/ssrn.4297860>
- Misrielal, C., Alsema, A. M., Wijering, M. H. C., Miedema, A., Mauthe, M., Reggiori, F., & Eggen, B. J. L. (2022). Transcriptomic changes in autophagy-related genes are inversely correlated with inflammation and are associated with multiple sclerosis lesion pathology. *Brain, Behavior, & Immunity - Health*, *25*, 100510. <https://doi.org/10.1016/j.bbih.2022.100510>
- Mofrad, R. B., del Campo, M., Peeters, C. F. W., Meeter, L. H. H., Seelaar, H., Koel-Simmelink, M., Ramakers, I. H. G. B., Middelkoop, H. A. M., De Deyn, P. P., Claassen, J. A. H. R., van Swieten, J. C., Bridel, C., Hoozemans, J. J. M., Scheltens, P., van der Flier, W. M., Pijnenburg, Y. A. L., & Teunissen, C. E. (2022). Plasma proteome profiling identifies changes associated to AD but not to FTD. *Acta Neuropathologica Communications*, *10*(1), 148. <https://doi.org/10.1186/s40478-022-01458-w>
- Mol, M. O., Miedema, S. S. M., Melhem, S., Li, K. W., Koopmans, F., Seelaar, H., Gottmann, K., Lessmann, V., Bank, N. B., Smit, A. B., van Swieten, J. C., & van Rooij, J. G. J. (2022). Proteomics of the dentate gyrus reveals semantic dementia specific molecular pathology. *Acta Neuropathologica Communications*, *10*(1), 190. <https://doi.org/10.1186/s40478-022-01499-1>

- Mol, M. O., van der Lee, S. J., Hulsman, M., Pijnenburg, Y. A. L., Scheltens, P., Seelaar, H., van Swieten, J. C., Kaat, L. D., Holstege, H., van Rooij, J. G. J., & Netherlands Brain Bank. (2022). Mapping the genetic landscape of early-onset Alzheimer's disease in a cohort of 36 families. *Alzheimer's Research & Therapy*, *14*(1), 77. <https://doi.org/10.1186/s13195-022-01018-3>
- Moors, T. E., Mona, D., Luehe, S., Duran-Pacheco, G., Spycher, L., Mundigl, O., Kaluza, K., Huber, S., Hug, M. N., Kremer, T., Ritter, M., Dziadek, S., Dernick, G., van de Berg, W. D. J., & Britschgi, M. (2022). Multi-platform quantitation of alpha-synuclein human brain proteoforms suggests disease-specific biochemical profiles of synucleinopathies. *Acta Neuropathologica Communications*, *10*(1), 82. <https://doi.org/10.1186/s40478-022-01382-z>
- Na, E., Jeon, Y., Kim, H., Kim, H.-S., Lee, K., & Kim, H.-J. (2022). *Translationally controlled tumor protein restores memory and synaptic function lost in animal models of dementia* [Preprint]. In Review. <https://doi.org/10.21203/rs.3.rs-1675650/v1>
- Nag, S., Miranda-Azpiazu, P., Jia, Z., Datta, P., Arakawa, R., Moein, M. M., Yang, Z., Tu, Y., Lemoine, L., Ågren, H., Nordberg, A., Långström, B., & Halldin, C. (2022). Development of <sup>11</sup>C-Labeled ASEM Analogues for the Detection of Neuronal Nicotinic Acetylcholine Receptors ( $\alpha 7$ -nAChR). *ACS Chemical Neuroscience*, *13*(3), 352–362. <https://doi.org/10.1021/acschemneuro.1c00730>
- Nicholatos, J. W., Tran, D., Liu, Y., Hirst, W. D., & Weihofen, A. (2022). Lysophosphatidylcholine acyltransferase 1 promotes pathology and toxicity in two distinct cell-based alpha-synuclein models. *Neuroscience Letters*, *772*, 136491. <https://doi.org/10.1016/j.neulet.2022.136491>
- Niklasson, B., Lindquist, L., Klitz, W., Fredrikson, S., Morgell, R., Mohammadi, R., Netherlands Brain Bank, Karapetyan, Y., & Englund, E. (2022). Picornavirus May Be Linked to Parkinson's Disease through Viral Antigen in Dopamine-Containing Neurons of Substantia Nigra. *Microorganisms*, *10*(3), Article 3. <https://doi.org/10.3390/microorganisms10030599>
- Nutma, E., Fancy, N., Weinert, M., Marzin, M. C., Tsartsalis, S., Muirhead, R. C. J., Falk, I., Bruin, J. de, Hollaus, D., Pieterman, R., Anink, J., Story, D., Chandran, S., Tang, J., Trolese, M. C., Saito, T., Saido, T. C., Wiltshire, K., Beltran-Lobo, P., ... Owen, D. R. (2022). *Translocator protein is a marker of activated microglia in rodent models but not human neurodegenerative diseases* (p. 2022.05.11.491453). bioRxiv. <https://doi.org/10.1101/2022.05.11.491453>
- O'Neill, E., Mela, V., Gaban, A. S., Bechet, S., McGrath, A., Walsh, A., McIntosh, A., & Lynch, M. A. (2022). Sex-Related Microglial Perturbation Is Related to Mitochondrial Changes in a Model of Alzheimer's Disease. *Frontiers in Cellular Neuroscience*, *16*, 939830. <https://doi.org/10.3389/fncel.2022.939830>
- Paik, H., Lee, J., Jeong, C.-S., Park, J. S., Lee, J. H., Rappoport, N., Kim, Y., Sohn, H.-Y., Jo, C., Kim, J., & Cho, S. B. (2022). Identification of a pleiotropic effect of ADIPOQ on cardiac dysfunction and Alzheimer's disease based on genetic evidence and health care records. *Translational Psychiatry*, *12*(1), Article 1. <https://doi.org/10.1038/s41398-022-02144-0>
- Palmer, E., Benchek, P., Wheeler, N., Smeiszek, S., Naj, A. C., Haines, J. L., Pericak-Vance, M. A., Forsberg, L. A., Cukier, H. N., Song, Y., & Bush, W. S. (2022). *Somatic Loss of the Y Chromosome and Alzheimer's Disease Risk* (p. 2022.11.14.516433). bioRxiv. <https://doi.org/10.1101/2022.11.14.516433>

- Pihlstrøm, L., Shireby, G., Geut, H., Henriksen, S. P., Rozemuller, A. J. M., Tunold, J.-A., Hannon, E., Francis, P., Thomas, A. J., Love, S., Mill, J., van de Berg, W. D. J., & Toft, M. (2022). Epigenome-wide association study of human frontal cortex identifies differential methylation in Lewy body pathology. *Nature Communications*, *13*(1), Article 1. <https://doi.org/10.1038/s41467-022-32619-z>
- Pike, A. F., Longhena, F., Faustini, G., van Eik, J.-M., Gombert, I., Herrebout, M. A. C., Fayed, M. M. H. E., Sandre, M., Varanita, T., Teunissen, C. E., Hoozemans, J. J. M., Bellucci, A., Veerhuis, R., & Bubacco, L. (2022). Dopamine signaling modulates microglial NLRP3 inflammasome activation: Implications for Parkinson's disease. *Journal of Neuroinflammation*, *19*(1), 50. <https://doi.org/10.1186/s12974-022-02410-4>
- Plowey, E. D., Bussiere, T., Rajagovindan, R., Sebalusky, J., Hamann, S., von Hehn, C., Castrillo-Viguera, C., Sandrock, A., Budd Haeberlein, S., van Dyck, C. H., & Huttner, A. (2022). Alzheimer disease neuropathology in a patient previously treated with aducanumab. *Acta Neuropathologica*, *144*(1), 143–153. <https://doi.org/10.1007/s00401-022-02433-4>
- Pocevičiūtė, D., Nuñez-Díaz, C., Roth, B., Janelidze, S., Giannisis, A., Hansson, O., Wennström, M., & The Netherlands Brain Bank. (2022). Increased plasma and brain immunoglobulin A in Alzheimer's disease is lost in apolipoprotein E ε4 carriers. *Alzheimer's Research & Therapy*, *14*(1), 117. <https://doi.org/10.1186/s13195-022-01062-z>
- Prifti, E., Tsakiri, E. N., Vourkou, E., Stamatakis, G., Samiotaki, M., Skoulakis, E. M. C., & Papanikolopoulou, K. (2022). Mical modulates Tau toxicity via cysteine oxidation in vivo. *Acta Neuropathologica Communications*, *10*(1), 44. <https://doi.org/10.1186/s40478-022-01348-1>
- Qi, Y.-J., Lu, Y.-R., Shi, L.-G., Demmers, J. A. A., Bezstarosti, K., Rijkers, E., Balesar, R., Swaab, D., & Bao, A.-M. (2022). Distinct proteomic profiles in prefrontal subareas of elderly major depressive disorder and bipolar disorder patients. *Translational Psychiatry*, *12*(1), Article 1. <https://doi.org/10.1038/s41398-022-02040-7>
- Ring, J., Tadic, J., Ristic, S., Poglitsch, M., Bergmann, M., Radic, N., Mossmann, D., Liang, Y., Maglione, M., Jerkovic, A., Hajiraissi, R., Hanke, M., Küttner, V., Wolinski, H., Zimmermann, A., Domuz Trifunović, L., Mikolasch, L., Moretti, D. N., Broeskamp, F., ... Madeo, F. (2022). The HSP40 chaperone Ydj1 drives amyloid beta 42 toxicity. *EMBO Molecular Medicine*, *14*(5), e13952. <https://doi.org/10.15252/emmm.202113952>
- Rodríguez-Lorenzo, S., van Olst, L., Rodríguez-Mogeda, C., Kamermans, A., van der Pol, S. M., Rodríguez, E., Kooij, G., & de Vries, H. E. (2022). Single-cell profiling reveals periventricular CD56bright NK cell accumulation in multiple sclerosis. *ELife*, *11*, e73849. <https://doi.org/10.7554/eLife.73849>
- Roshanbin, S., Xiong, M., Hultqvist, G., Söderberg, L., Zachrisson, O., Meier, S., Ekmark-Lewén, S., Bergström, J., Ingelsson, M., Sehlin, D., & Syvänen, S. (2022). In vivo imaging of alpha-synuclein with antibody-based PET. *Neuropharmacology*, *208*, 108985. <https://doi.org/10.1016/j.neuropharm.2022.108985>
- Sandberg, A., Berenjano-Correa, E., Rodriguez, R. C., Axenus, M., Weiss, S. S., Batenburg, K., Hoozemans, J. J. M., Tjernberg, L. O., & Scheper, W. (2022). Aβ42 oligomer-specific antibody ALZ-201

- reduces the neurotoxicity of Alzheimer's disease brain extracts. *Alzheimer's Research & Therapy*, 14(1), 196. <https://doi.org/10.1186/s13195-022-01141-1>
- Santillo, A. F., Leuzy, A., Honer, M., Landqvist Waldö, M., Tideman, P., Harper, L., Ohlsson, T., Moes, S., Giannini, L., Jögi, J., Groot, C., Ossenkoppele, R., Strandberg, O., van Swieten, J., Smith, R., & Hansson, O. (2022). [18F]RO948 tau positron emission tomography in genetic and sporadic frontotemporal dementia syndromes. *European Journal of Nuclear Medicine and Molecular Imaging*. <https://doi.org/10.1007/s00259-022-06065-4>
- Schmidt, R. W., Woutersen, S., & Ariese, F. (2022). RamanLIGHT—a graphical user-friendly tool for pre-processing and unmixing hyperspectral Raman spectroscopy images. *Journal of Optics*, 24(6), 064011. <https://doi.org/10.1088/2040-8986/ac6883>
- Scholtens, L. H., Pijnenburg, R., Lange, S. C. de, Huitinga, I., Heuvel, M. P. van den, & Bank, N. B. (2022). Common Microscale and Macroscale Principles of Connectivity in the Human Brain. *Journal of Neuroscience*, 42(20), 4147–4163. <https://doi.org/10.1523/JNEUROSCI.1572-21.2022>
- Schoonderwoerd, R. A., de Rover, M., Janse, J. A. M., Hirschler, L., Willemse, C. R., Scholten, L., Klop, I., van Berloo, S., van Osch, M. J. P., Swaab, D. F., & Meijer, J. H. (2022). The photobiology of the human circadian clock. *Proceedings of the National Academy of Sciences*, 119(13), e2118803119. <https://doi.org/10.1073/pnas.2118803119>
- Semizoglou, E., Gentry, C., Vastani, N., Stucky, C. L., Andersson, D. A., & Bevan, S. (2022). *TRPA1 analgesia is mediated by kappa opioid receptors* (p. 2022.09.01.506151). bioRxiv. <https://doi.org/10.1101/2022.09.01.506151>
- Sevenich, M., Honold, D., Willuweit, A., Kutzsche, J., Mohrlüder, J., & Willbold, D. (2022). Development of an  $\alpha$ -synuclein fibril and oligomer specific tracer for diagnosis of Parkinson's disease, dementia with Lewy bodies and multiple system atrophy. *Neurochemistry International*, 161, 105422. <https://doi.org/10.1016/j.neuint.2022.105422>
- Shan, L., Balesar, R., Swaab, D. F., Lammers, G. J., & Fronczek, R. (2022). Reduced Numbers of Corticotropin-Releasing Hormone Neurons in Narcolepsy Type 1. *Annals of Neurology*, 91(2), 282–288. <https://doi.org/10.1002/ana.26300>
- Shan, Q.-H., Qin, X.-Y., Zhou, N., Huang, C., Wang, Y., Chen, P., & Zhou, J.-N. (2022). A method for ultrafast tissue clearing that preserves fluorescence for multimodal and longitudinal brain imaging. *BMC Biology*, 20(1), 77. <https://doi.org/10.1186/s12915-022-01275-6>
- Singleton, E. H., Pijnenburg, Y. A. L., Gami-Patel, P., Boon, B. D. C., Bouwman, F., Papma, J. M., Seelaar, H., Scheltens, P., Grinberg, L. T., Spina, S., Nana, A. L., Rabinovici, G. D., Seeley, W. W., Ossenkoppele, R., & Dijkstra, A. A. (2022). The behavioral variant of Alzheimer's disease does not show a selective loss of Von Economo and phylogenetically related neurons in the anterior cingulate cortex. *Alzheimer's Research & Therapy*, 14(1), 11. <https://doi.org/10.1186/s13195-021-00947-9>
- Smit, T., Ormel, P. R., Sluijs, J. A., Hulshof, L. A., Middeldorp, J., de Witte, L. D., Hol, E. M., & Donega, V. (2022). Transcriptomic and functional analysis of A $\beta$ 1-42 oligomer-stimulated human monocyte-derived microglia-like cells. *Brain, Behavior, and Immunity*, 100, 219–230. <https://doi.org/10.1016/j.bbi.2021.12.001>

- Söderberg, L., Johannesson, M., Nygren, P., Laudon, H., Eriksson, F., Osswald, G., Möller, C., & Lannfelt, L. (2022). Lecanemab, Aducanumab, and Gantenerumab—Binding Profiles to Different Forms of Amyloid-Beta Might Explain Efficacy and Side Effects in Clinical Trials for Alzheimer’s Disease. *Neurotherapeutics*. <https://doi.org/10.1007/s13311-022-01308-6>
- Son, G., Steinbusch, H. W. M., López-Iglesias, C., Moon, C., & Jahanshahi, A. (2022). Severe histomorphological alterations in post-mortem olfactory glomeruli in Alzheimer’s disease. *Brain Pathology*, 32(2), e13033. <https://doi.org/10.1111/bpa.13033>
- Song, C., Zhang, Y., Huang, W., Shi, J., Huang, Q., Jiang, M., Qiu, Y., Wang, T., Chen, H., & Wang, H. (2022). Circular RNA Cwc27 contributes to Alzheimer’s disease pathogenesis by repressing Pur- $\alpha$  activity. *Cell Death & Differentiation*, 29(2), Article 2. <https://doi.org/10.1038/s41418-021-00865-1>
- Speicher, A. M., Korn, L., Csatári, J., Gonzalez-Cano, L., Heming, M., Thomas, C., Schroeter, C. B., Schafflick, D., Li, X., Gola, L., Engler, A., Kaehne, T., Vallier, L., Meuth, S. G., Meyer zu Hörste, G., Kovac, S., Wiendl, H., Schöler, H. R., & Pawlowski, M. (2022). Deterministic programming of human pluripotent stem cells into microglia facilitates studying their role in health and disease. *Proceedings of the National Academy of Sciences*, 119(43), e2123476119. <https://doi.org/10.1073/pnas.2123476119>
- Spencer, S. A., Suárez-Pozos, E., Soto-Verdugo, J., Wang, H., Afshari, F. S., Li, G., Manam, S., Yasuda, D., Ortega, A., Lister, J. A., Ishii, S., Zhang, Y., & Fuss, B. (2022). Lysophosphatidic acid signaling via LPA6: A negative modulator of developmental oligodendrocyte maturation. *Journal of Neurochemistry*, 163(6), 478–499. <https://doi.org/10.1111/jnc.15696>
- Sun, J., Zhu, K., Wang, Y., Wang, D., Zhang, M., Sarlus, H., Benito-Cuesta, I., Zhao, X., Zou, Z., Zhong, Q., Feng, Y., Wu, S., Wang, Y., Harris, R. A., & Wang, J. (2022). Activation of TRPV1 receptor facilitates myelin repair following demyelination via the regulation of microglial function. *Acta Pharmacologica Sinica*, 1–14. <https://doi.org/10.1038/s41401-022-01000-7>
- Szeliga, M., & Rola, R. (2022). Menadione Potentiates Auranofin-Induced Glioblastoma Cell Death. *International Journal of Molecular Sciences*, 23(24), Article 24. <https://doi.org/10.3390/ijms232415712>
- Teunissen, C., Campo, M. D., Peeters, C., Meeter, L., Seelaar, H., Koel-Simmelink, M., Ramakers, I., Middelkoop, H., De Deyn, P., Claessen, J., Swieten, J. van, Bridel, C., Hoozemans, J., Flier, W. van der, Scheltens, P., Pijnenburg, Y., & Babapour-Mofrad, R. (2022). *Blood-based protein biomarkers in definite frontotemporal dementia: A case-control stud.* <https://doi.org/10.21203/rs.3.rs-1534214/v1>
- Tian, Y., Gao, G., & Dai, J. (2022). Severe tauopathy and axonopathy in the medulla oblongata in Alzheimer’s disease implicate the changes in autonomic nervous function. *Journal of Chemical Neuroanatomy*, 123, 102105. <https://doi.org/10.1016/j.jchemneu.2022.102105>
- Toomey, C. E., Heywood, W. E., Evans, J. R., Lachica, J., Pressey, S. N., Foti, S. C., Al Shahrani, M., D’Sa, K., Hargreaves, I. P., Heales, S., Orford, M., Troakes, C., Attems, J., Gelpi, E., Palkovits, M., Lashley, T., Gentleman, S. M., Revesz, T., Mills, K., & Gandhi, S. (2022). Mitochondrial dysfunction is a key pathological driver of early stage Parkinson’s. *Acta Neuropathologica Communications*, 10(1), 134. <https://doi.org/10.1186/s40478-022-01424-6>

- Tran, D. N., Bakx, A. T. C. M., van Dis, V., Aronica, E., Verdijk, R. M., & Ouwendijk, W. J. D. (2022). No evidence of aberrant amyloid  $\beta$  and phosphorylated tau expression in herpes simplex virus-infected neurons of the trigeminal ganglia and brain. *Brain Pathology*, 32(4), e13044. <https://doi.org/10.1111/bpa.13044>
- Unger, P.-P. A., Oja, A. E., Khemai-Mehraban, T., Ouwendijk, W. J. D., Hombrink, P., & Verjans, G. M. G. M. (2022). T-cells in human trigeminal ganglia express canonical tissue-resident memory T-cell markers. *Journal of Neuroinflammation*, 19(1), 249. <https://doi.org/10.1186/s12974-022-02611-x>
- Vagena, E., Crneta, J., Engström, P., He, L., Yulyaningsih, E., Korpel, N. L., Cheang, R. T., Bachor, T. P., Huang, A., Michel, G., Attal, K., Berrios, D. I., Valdearcos, M., Koliwad, S. K., Olson, D. P., Yi, C.-X., & Xu, A. W. (2022). ASB4 modulates central melanocortineric neurons and calcitonin signaling to control satiety and glucose homeostasis. *Science Signaling*, 15(733), eabj8204. <https://doi.org/10.1126/scisignal.abj8204>
- van den Bosch, A. M. R., Hümmert, S., Steyer, A., Ruhwedel, T., Hamann, J., Smolders, J., Nave, K.-A., Stadelmann, C., Kole, M. H. P., Möbius, W., & Huitinga, I. (n.d.). Ultrastructural Axon–Myelin Unit Alterations in Multiple Sclerosis Correlate with Inflammation. *Annals of Neurology*, n/a(n/a). <https://doi.org/10.1002/ana.26585>
- van den Bosch, A. M. R., Hümmert, S., Steyer, A., Ruhwedel, T., Hamann, J., Smolders, J., Nave, K.-A., Stadelmann, C., Kole, M. H. P., Möbius, W., & Huitinga, I. (2022). Ultrastructural axon-myelin unit alterations in MS correlate with inflammation. *Annals of Neurology*. <https://doi.org/10.1002/ana.26585>
- van Wageningen, T. A., Gerrits, E., Brouwer, N., Brevé, J. J. P., Geurts, J. J. G., Eggen, B. J. L., Boddeke, H. W. G. M. (Erik), & van Dam, A.-M. (2022a). Distinct gene expression in demyelinated white and grey matter areas of patients with multiple sclerosis. *Brain Communications*, 4(2), fcac005. <https://doi.org/10.1093/braincomms/fcac005>
- van Wageningen, T. A., Gerrits, E., Brouwer, N., Brevé, J. J. P., Geurts, J. J. G., Eggen, B. J. L., Boddeke, H. W. G. M. (Erik), & van Dam, A.-M. (2022b). Distinct gene expression in demyelinated white and grey matter areas of patients with multiple sclerosis. *Brain Communications*, 4(2), fcac005. <https://doi.org/10.1093/braincomms/fcac005>
- Vankriekelsvenne, E., Chrzanowski, U., Manzhula, K., Greiner, T., Wree, A., Hawlitschka, A., Llovera, G., Zhan, J., Joost, S., Schmitz, C., Ponsaerts, P., Amor, S., Nutma, E., Kipp, M., & Kaddatz, H. (2022). Transmembrane protein 119 is neither a specific nor a reliable marker for microglia. *Glia*, 70(6), 1170–1190. <https://doi.org/10.1002/glia.24164>
- Wennström, M., Janelidze, S., Nilsson, K. P. R., Serrano, G. E., Beach, T. G., Dage, J. L., Hansson, O., & The Netherlands Brain Bank. (2022). Cellular localization of p-tau217 in brain and its association with p-tau217 plasma levels. *Acta Neuropathologica Communications*, 10(1), 3. <https://doi.org/10.1186/s40478-021-01307-2>
- Yu, Z., Fang, X., Liu, W., Sun, R., Zhou, J., Pu, Y., Zhao, M., Sun, D., Xiang, Z., Liu, P., Ding, Y., Cao, L., & He, C. (2022). Microglia Regulate Blood–Brain Barrier Integrity via MiR-126a-5p/MMP9 Axis during



- Inflammatory Demyelination. *Advanced Science*, 9(24), 2105442.  
<https://doi.org/10.1002/advs.202105442>
- Zellner, A., Müller, S. A., Lindner, B., Beaufort, N., Rozemuller, A. J. M., Arzberger, T., Gassen, N. C., Lichtenthaler, S. F., Kuster, B., Haffner, C., & Dichgans, M. (2022). Proteomic profiling in cerebral amyloid angiopathy reveals an overlap with CADASIL highlighting accumulation of HTRA1 and its substrates. *Acta Neuropathologica Communications*, 10(1), 6. <https://doi.org/10.1186/s40478-021-01303-6>
- Zhang, L., Verwer, R. W. H., Heerikhuizen, J. van, Balesar, R., Correa-da-Silva, F., Slabe, Z., Lucassen, P. J., & Swaab, D. F. (2022). *Stress-associated purinergic receptors code for fatal suicidality in the hippocampal-hypothalamic-prefrontal circuit* (p. 2022.11.22.516142). bioRxiv.  
<https://doi.org/10.1101/2022.11.22.516142>
- Zhang, M., Ganz, A. B., Rohde, S., Rozemuller, A. J. M., Bank, N. B., Reinders, M. J. T., Scheltens, P., Hulsman, M., Hoozemans, J. J. M., & Holstege, H. (2022). Resilience and resistance to the accumulation of amyloid plaques and neurofibrillary tangles in centenarians: An age-continuous perspective. *Alzheimer's & Dementia*, n/a(n/a). <https://doi.org/10.1002/alz.12899>
- Zhu, K., Wang, Y., Sarlus, H., Geng, K., Nutma, E., Sun, J., Kung, S.-Y., Bay, C., Han, J., Min, J.-H., Benito-Cuesta, I., Lund, H., Amor, S., Wang, J., Zhang, X.-M., Kutter, C., Guerreiro-Cacais, A. O., Höglberg, B., & Harris, R. A. (2022). Myeloid cell-specific topoisomerase 1 inhibition using DNA origami mitigates neuroinflammation. *EMBO Reports*, 23(7), e54499. <https://doi.org/10.15252/embr.202154499>
- Zhuang, J. (2022). *Whole-transcriptomic profiling of human cerebral cortex tissues reveals microglia-associated molecular subtypes* (p. 2022.05.19.492569). bioRxiv.  
<https://doi.org/10.1101/2022.05.19.492569>
- Zola, N. K. N., Balty, C., Ruys, S. P. dit, Vanparys, A., Huyghe, N., Herinckx, G., Johanns, M., Boyer, E., Kienlen-Campard, P., Rider, M., Vertommen, D., & Hanseeuw, B. (2022). *Specific post-translational modifications of the soluble tau protein distinguish between Alzheimer's disease, 4R-, and 3R-tauopathie*. <https://doi.org/10.21203/rs.3.rs-2330008/v1>
- Zuo, M., Fetting, N. M., Bernier, L.-P., Pössnecker, E., Spring, S., Pu, A., Ma, X. I., Lee, D. S. W., Ward, L. A., Sharma, A., Kuhle, J., Sled, J. G., Pröbstel, A.-K., MacVicar, B. A., Osborne, L. C., Gommerman, J. L., & Ramaglia, V. (2022). Age-dependent gray matter demyelination is associated with leptomeningeal neutrophil accumulation. *JCI Insight*, 7(12). <https://doi.org/10.1172/jci.insight.158144>