



Yann Le Guen

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Bio

HONORS AND AWARDS

- Marie Skłodowska-Curie Actions Individual Fellowship, European Union (2019)
- Young Investigator Award of the Alzheimer's Association, Alzheimer's Association Northern California/Nevada Chapter (2022)
- Junior Faculty Award, Alzheimer's & Parkinson's Diseases Conference (2022)

EDUCATION AND CERTIFICATIONS

- Master of Science, Imperial College London , Bioengineering with neurotechnology (2015)
- Diplôme d'ingénieur, Télécom Paristech , Computer Science, Electronic (2015)
- Doctor of Philosophy, Neurospin, CEA, Université Paris-Saclay , MR imaging, Neuroscience, Imaging-genetic (2018)

Publications

PUBLICATIONS

- **Longitudinal plasma proteomics separates diagnostic differences from progression-linked changes in Alzheimer's disease.** *medRxiv : the preprint server for health sciences*
Park, J., Le Guen, Y., Peña-Tauber, A., Greicius, M. D.
2026
- **Population-scale burden analysis of rare damaging coding variants identifies novel risk genes for Alzheimer's disease and Parkinson's disease.** *medRxiv : the preprint server for health sciences*
Le Guen, Y., Pena-Tauber, A., Pulgrossi, R. C., Park, J., Orias, H., Greicius, M. D.
2026
- **Long-read, multi-omics resource uncovers structural variants driving molecular trait associations and neurodegenerative disease risk**
Jensen, T., Le Guen, Y., Talozzi, L., Yang, S., Gorzynski, J., Tauber, A. P., Ashley, E. A., Montgomery, S., Greicius, M. D.
SPRINGER NATURE.2025: 52
- **Long-read genome sequencing and multi-omics in aging and neurodegeneration.** *medRxiv : the preprint server for health sciences*
Jensen, T. D., Le Guen, Y., Talozzi, L., Yang, S., Gorzynski, J., Peña-Tauber, A., Stewart, I., Ferrasse, A., Nachun, D., Arriaga, M. T., Lee, J., Pulgrossi, R. C., Park, et al
2025
- **Plasma proteomics links brain and immune system aging with healthspan and longevity.** *Nature medicine*
Oh, H. S., Le Guen, Y., Rappoport, N., Urey, D. Y., Farinas, A., Rutledge, J., Channappa, D., Wagner, A. D., Mormino, E., Brunet, A., Greicius, M. D., Wyss-Coray, T.
2025
- **Rare genetic associations with human lifespan in UK Biobank are enriched for oncogenic genes.** *Nature communications*
Park, J., Peña-Tauber, A., Talozzi, L., Greicius, M. D., Le Guen, Y.

2025; 16 (1): 2064

- **Role of the X Chromosome in Alzheimer Disease Genetics.** *JAMA neurology*
Belloy, M. E., Le Guen, Y., Stewart, I., Williams, K., Herz, J., Sherva, R., Zhang, R., Merritt, V., Panizzon, M. S., Hauger, R. L., Gaziano, J. M., Logue, M., Napolioni, et al
2024
- **The Role of X Chromosome in Alzheimer's Disease Genetics.** *medRxiv : the preprint server for health sciences*
Belloy, M. E., Guen, Y. L., Stewart, I., Herz, J., Sherva, R., Zhang, R., Merritt, V., Panizzon, M. S., Hauger, R. L., Gaziano, J. M., Logue, M., Napolioni, V., Greicius, et al
2024
- **A 3'UTR Insertion Is a Candidate Causal Variant at the TMEM106B Locus Associated With Increased Risk for FTLD-TDP.** *Neurology. Genetics*
Chemparathy, A., Le Guen, Y., Zeng, Y., Gorzynski, J., Jensen, T. D., Yang, C., Kasireddy, N., Talozzi, L., Belloy, M., Stewart, I., Gitler, A. D., Wagner, A. D., Mormino, et al
2024; 10 (1): e200124
- **APOE loss-of-function variants: Compatible with longevity and associated with resistance to Alzheimer's disease pathology.** *Neuron*
Chemparathy, A., Le Guen, Y., Chen, S., Lee, E. G., Leong, L., Gorzynski, J. E., Jensen, T. D., Ferrasse, A., Xu, G., Xiang, H., Belloy, M. E., Kasireddy, N., Peña-Tauber, et al
2024
- **Multiancestry analysis of the HLA locus in Alzheimer's and Parkinson's diseases uncovers a shared adaptive immune response mediated by HLA-DRB1*04 subtypes.** *Proceedings of the National Academy of Sciences of the United States of America*
Le Guen, Y., Luo, G., Ambati, A., Damotte, V., Jansen, I., Yu, E., Nicolas, A., de Rojas, I., Peixoto Leal, T., Miyashita, A., Bellenguez, C., Lian, M. M., Parveen, et al
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- **A 3' UTR Deletion Is a Leading Candidate Causal Variant at the TMEM106B Locus Reducing Risk for FTLD-TDP.** *medRxiv : the preprint server for health sciences*
Chemparathy, A., Le Guen, Y., Zeng, Y., Gorzynski, J., Jensen, T., Kasireddy, N., Talozzi, L., Belloy, M. E., Stewart, I., Gitler, A. D., Wagner, A. D., Mormino, E., Henderson, et al
2023
- **Association of African Ancestry-Specific APOE Missense Variant R145C With Risk of Alzheimer Disease.** *JAMA*
Le Guen, Y., Raulin, A., Logue, M. W., Sherva, R., Belloy, M. E., Eger, S. J., Chen, A., Kennedy, G., Kuchenbecker, L., O'Leary, J. P., Zhang, R., Merritt, V. C., Panizzon, et al
2023; 329 (7): 551-560
- **Association of Rare APOE Missense Variants V236E and R251G With Risk of Alzheimer Disease.** *JAMA neurology*
Le Guen, Y., Belloy, M. E., Grenier-Boley, B., de Rojas, I., Castillo-Morales, A., Jansen, I., Nicolas, A., Bellenguez, C., Dalmasso, C., Küçükali, F., Eger, S. J., Rasmussen, K. L., Thomassen, et al
2022
- **Common X-chromosome variants are associated with Parkinson's disease risk.** *Annals of neurology*
Le Guen, Y., Napolioni, V., Belloy, M. E., Yu, E., Krohn, L., Ruskey, J. A., Gan-Or, Z., Kennedy, G., Eger, S. J., Greicius, M. D.
2021
- **Genome-wide analysis of common and rare variants via multiple knockoffs at biobank scale, with an application to Alzheimer disease genetics.** *American journal of human genetics*
He, Z., Le Guen, Y., Liu, L., Lee, J., Ma, S., Yang, A. C., Liu, X., Rutledge, J., Losada, P. M., Song, B., Belloy, M. E., Butler, R. R., Longo, et al
2021
- **Enhancer Locus in ch14q23.1 Modulates Brain Asymmetric Temporal Regions Involved in Language Processing.** *Cerebral cortex (New York, N.Y. : 1991)*
Le Guen, Y., Leroy, F., Philippe, C., Mangin, J. F., Dehaene-Lambertz, G., Frouin, V.
2020; 30 (10): 5322-5332
- **eQTL of KCNK2 regionally influences the brain sulcal widening: evidence from 15,597 UK Biobank participants with neuroimaging data.** *Brain structure & function*
Le Guen, Y., Philippe, C., Riviere, D., Lemaitre, H., Grigis, A., Fischer, C., Dehaene-Lambertz, G., Mangin, J., Frouin, V.

2018

- **The chaotic morphology of the left superior temporal sulcus is genetically constrained** *NEUROIMAGE*
Le Guen, Y., Leroy, F., Auzias, G., Riviere, D., Grigis, A., Mangin, J., Coulon, O., Dehaene-Lambertz, G., Frouin, V.
2018; 174: 297–307
- **Genetic Influence on the Sulcal Pits: On the Origin of the First Cortical Folds** *CEREBRAL CORTEX*
Le Guen, Y., Auzias, G., Leroy, F., Noulhiane, M., Dehaene-Lambertz, G., Duchesnay, E., Mangin, J., Coulon, O., Frouin, V.
2018; 28 (6): 1922–33
- **CIT-Lasso: a scalable approach beyond guilty by association for identifying causal variants from genome-wide summary statistics.** *Genome biology*
He, Z., Chu, B., Yang, J., Gu, J., Chen, Z., Liu, L., Morrison, T., Belloy, M. E., Qi, X., Hejazi, N., Mathur, M., Le Guen, Y., Tang, et al
2026; 27 (1)
- **APOE*4 risk-modifying genes and drug targets in Alzheimer's disease through cell-type-specific genomic analyses.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Zeng, Y., Cook, N., Yang, C., Sivasankaran, S. K., Fujita, M., Gardell, Z. A., Le Guen, Y., Shigemizu, D., Ozaki, K., Morizono, T., Hara, N., Miyashita, A., Ikeuchi, et al
2026; 22 (6): e71552
- **A Genome-wide Association Study of Alzheimer's Disease and Dementia in a Large Multi-ancestry Military Cohort Identifies Many New Dementia-Associated Loci.** *medRxiv : the preprint server for health sciences*
Sherva, R., Bayly, H., Zhang, R., Harrington, K., Mez, J., Miller, M. W., Tsuang, D., Wolf, E., Zeng, Q., Le Guen, Y., Tejada, M., Gaziano, J. M., Panizzon, et al
2026
- **Proteomic Signatures of Protected APOE-ε4 Carriers Reveal Causal Pathways Associated with Delayed Alzheimer's Disease Onset.** *medRxiv : the preprint server for health sciences*
Guen, Y. L., Park, J., Peña-Tauber, A., Greicius, M. D.
2026
- **A pooled CRISPR screen reveals genes critical for erythroblast enucleation.** *bioRxiv : the preprint server for biology*
Tetard, M., Lin, T., Peterson, N. A., Gullberg, R. C., Le Guen, Y., Doench, J. G., Egan, E. S.
2026
- **Large-scale CSF and plasma proteomics reveal immune, synaptic, and extracellular matrix disruptions across neurodegenerative diseases.** *Neuron*
Ali, M., Timsina, J., Xu, Y., Chen, Y., Gong, K., Western, D., Heo, G., Liu, M., Budde, J., Pottier, C., Schindler, S. E., Morris, J. C., Holtzman, et al
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- **Ageing promotes microglial accumulation of slow-degrading synaptic proteins.** *Nature*
Guldner, I. H., Wagner, V. P., Moran-Losada, P., Shi, S. M., Golub, S. W., Hevler, J. F., Chen, K., Meese, B. T., Ghoochani, A., Pulido, E., Oh, H. S., Le Guen, Y., Lu, et al
2026
- **CD44 cross-linking promotes Plasmodium falciparum invasion.** *Nature communications*
Kongsomboonvech, A. K., Scally, S. W., Le Guen, Y., Valissery, P., Salinas, N. D., Cowman, A. F., Tolia, N. H., Egan, E. S.
2025
- **APOE*4 Risk-Modifying Genes and Drug Targets in Alzheimer's Disease through Cell-Type Specific Genomic Analyses.** *medRxiv : the preprint server for health sciences*
Zeng, Y., Cook, N., Yang, C., Sivasankaran, S. K., Fujita, M., Gardell, Z. A., Le Guen, Y., Shigemizu, D., Ozaki, K., Morizono, T., Hara, N., Miyashita, A., Ikeuchi, et al
2025
- **Domain mapping of disease mutations reveals pathogenic SORL1 variants in Alzheimer's disease.** *Molecular neurodegeneration*
Andersen, O. M., de Waal, M. W., Monti, G., Tesi, N., Jensen, A. M., de Geus, C., van Spaendonk, R., Vogel, M., Ahmad, S., Amin, N., Amouyel, P., Beecham, G. W., Bellenguez, et al
2025; 20 (1): 122

- **Spatial and single-cell transcriptomics reveal the reorganization of cerebellar microglia with aging.** *Cell reports*
Tsai, A. P., Henze, D. E., Ramirez Lopez, E., Haberberger, J., Dong, C., Lu, N., Atkins, M., Costa, E. K., Farinas, A., Oh, H. S., Moran-Losada, P., Le Guen, Y., Isakova, et al
2025; 44 (12): 116624
- **A CRISPR screen in enucleated human red cells identifies CLIC3 and VAMP8 as critical regulators of terminal erythropoiesis**
Tetard, M., Lin, T., Peterson, N., Gullberg, R., Le Guen, Y., Doench, J., Egan, E.
ELSEVIER.2025: 972-973
- **Integrative Genetic, Proteogenomic, and Multi-omics Analyses Reveal Sex-Biased Causal Genes and Drug Targets in Alzheimer's Disease.** *medRxiv : the preprint server for health sciences*
Cook, N., Yang, C., Zeng, Y., Sivasankaran, S. K., Song, S., Talozzi, L., Western, D., Yang, C., Liu, Y., Le Guen, Y., Stewart, I., Young, C., Mormino, et al
2025
- **Cardiac Troponin Screening and Clinical Outcomes in Patients Receiving Immunotherapy.** *JACC. CardioOncology*
Cheng, E., Ivanovic, M., Chan, A., Xu, S., Franquiz, M., Lee, C., You, J., Fazal, M., Le Guen, Y., Batchelder, R., Reddy, S. A., Katsumoto, T., Ramchandran, et al
2025
- **CD44 cross-linking promotes Plasmodium falciparum invasion.** *bioRxiv : the preprint server for biology*
Kongsomboonvech, A. K., Scally, S. W., Le Guen, Y., Valissery, P., Salinas, N. D., Cowman, A. F., Tolia, N. H., Egan, E. S.
2025
- **Disruption of the cerebrospinal fluid-plasma protein balance in cognitive impairment and aging.** *Nature medicine*
Farinas, A., Rutledge, J., Bot, V. A., Western, D., Ying, K., Lawrence, K. A., Oh, H. S., Yoon, S., Ding, D. Y., Tsai, A. P., Moran-Losada, P., Timsina, J., Le Guen, et al
2025
- **Transferability of European-derived Alzheimer's disease polygenic risk scores across multi-ancestry populations.** *Nature genetics*
Nicolas, A., Sherva, R., Grenier-Boley, B., Kim, Y., Kikuchi, M., Timsina, J., de Rojas, I., Dalmasso, M. C., Zhou, X., Le Guen, Y., Arboleda-Bustos, C. E., Camargos Bicalho, M. A., Guerchet, et al
2025
- **Synaptic proteins that aggregate and degrade slower with aging accumulate in microglia.** *bioRxiv : the preprint server for biology*
Guldner, I. H., Wagner, V. P., Moran-Losada, P., Shi, S. M., Chen, K., Meese, B. T., Oh, H., Le Guen, Y., Lu, N., Wong, P. S., To, N. S., Garceau, D., Guo, et al
2025
- **Resting Energy Expenditure Profiles in Pediatric Patients with Obesity Undergoing Sleeve Gastrectomy.** *Childhood obesity (Print)*
Koh, L., Kavarian, P., Le Guen, Y., Bruzoni, M., Pratt, J. S., Abu El Hajja, M.
2025
- **A cerebrospinal fluid synaptic protein biomarker for prediction of cognitive resilience versus decline in Alzheimer's disease.** *Nature medicine*
Oh, H. S., Urey, D. Y., Karlsson, L., Zhu, Z., Shen, Y., Farinas, A., Timsina, J., Duggan, M. R., Chen, J., Guldner, I. H., Morshed, N., Yang, C., Western, et al
2025
- **Multi-cohort cerebrospinal fluid proteomics identifies robust molecular signatures across the Alzheimer disease continuum.** *Neuron*
Ali, M., Timsina, J., Western, D., Liu, M., Beric, A., Budde, J., Do, A., Heo, G., Wang, L., Gentsch, J., Schindler, S. E., Morris, J. C., Holtzman, et al
2025
- **Additive association of blood group A allele with 15 cardiometabolic diseases: a UK Biobank life-course study.** *Cardiovascular diabetology*
Zhao, R., Xian, W., Ma, Y., Napolioni, V., Lau, P. W., Tian, X. L., Le Guen, Y., Franke, A., Huang, J.
2025; 24 (1): 113
- **Plasma A β 42/A β 40 is sensitive to early cerebral amyloid accumulation and predicts risk of cognitive decline across the Alzheimer's disease spectrum.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Trelle, A. N., Young, C. B., Vossler, H., Ramos Benitez, J., Cody, K. A., Mendiola, J. H., Swarovski, M. S., Guen, Y. L., Feinstein, I., Butler, R. R., Channappa, D., Romero, A., Park, et al

2024

- **Advancements in Immunity and Dementia Research: Highlights from the 2023 AAIC Advancements: Immunity Conference.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Kloske, C. M., Mahinrad, S., Barnum, C. J., Batista, A. F., Bradshaw, E. M., Butts, B., Carrillo, M. C., Chakrabarty, P., Chen, X., Craft, S., Da Mesquita, S., Dabin, L. C., Devanand, et al
2024
- **Proteogenomic analysis of human cerebrospinal fluid identifies neurologically relevant regulation and implicates causal proteins for Alzheimer's disease.** *Nature genetics*
Western, D., Timsina, J., Wang, L., Wang, C., Yang, C., Phillips, B., Wang, Y., Liu, M., Ali, M., Beric, A., Gorijala, P., Kohlfeld, P., Budde, et al
2024
- **Advancements in APOE and dementia research: Highlights from the 2023 AAIC Advancements: APOE conference.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Kloske, C. M., Belloy, M. E., Blue, E. E., Bowman, G. R., Carrillo, M. C., Chen, X., Chiba-Falek, O., Davis, A. A., Paolo, G. D., Garretti, F., Gate, D., Golden, L. R., Heinecke, et al
2024
- **Plasma proteomics in the UK Biobank reveals youthful brains and immune systems promote healthspan and longevity.** *bioRxiv : the preprint server for biology*
Oh, H. S., Le Guen, Y., Rappoport, N., Urey, D. Y., Rutledge, J., Brunet, A., Greicius, M. D., Wyss-Coray, T.
2024
- **Rare genetic variation in fibronectin 1 (FN1) protects against APOEepsilon4 in Alzheimer's disease.** *Acta neuropathologica*
Bhattarai, P., Gunasekaran, T. I., Belloy, M. E., Reyes-Dumeyer, D., Julich, D., Tayran, H., Yilmaz, E., Flaherty, D., Turgutalp, B., Sukumar, G., Alba, C., McGrath, E. M., Hupaloo, et al
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- **TREM1 disrupts myeloid bioenergetics and cognitive function in aging and Alzheimer disease mouse models.** *Nature neuroscience*
Wilson, E. N., Wang, C., Swarovski, M. S., Zera, K. A., Ennerfelt, H. E., Wang, Q., Chaney, A., Gauba, E., Ramos Benitez, J. A., Le Guen, Y., Minhas, P. S., Panchal, M., Tan, et al
2024
- **In silico identification of putative causal genetic variants.** *bioRxiv : the preprint server for biology*
He, Z., Chu, B., Yang, J., Gu, J., Chen, Z., Liu, L., Morrison, T., Belloy, M. E., Qi, X., Hejazi, N., Mathur, M., Le Guen, Y., Tang, et al
2024
- **Multi-cohort cerebrospinal fluid proteomics identifies robust molecular signatures for asymptomatic and symptomatic Alzheimer's disease.** *Research square*
Cruchaga, C., Ali, M., Shen, Y., Do, A., Wang, L., Western, D., Liu, M., Beric, A., Budde, J., Gentsch, J., Schindler, S., Morris, J., Holtzman, et al
2024
- **Proteo-genomics of soluble TREM2 in cerebrospinal fluid provides novel insights and identifies novel modulators for Alzheimer's disease.** *Molecular neurodegeneration*
Wang, L., Nykänen, N. P., Western, D., Gorijala, P., Timsina, J., Li, F., Wang, Z., Ali, M., Yang, C., Liu, M., Brock, W., Marquié, M., Boada, et al
2024; 19 (1): 1
- **A mitochondrial inside-out iron-calcium signal reveals drug targets for Parkinson's disease.** *Cell reports*
Bharat, V., Durairaj, A. S., Vanhauwaert, R., Li, L., Muir, C. M., Chandra, S., Kwak, C. S., Le Guen, Y., Nandakishore, P., Hsieh, C. H., Rensi, S. E., Altman, R. B., Greicius, et al
2023; 42 (12): 113544
- **Organ aging signatures in the plasma proteome track health and disease.** *Nature*
Oh, H. S., Rutledge, J., Nachun, D., Pálovics, R., Abiose, O., Moran-Losada, P., Channappa, D., Urey, D. Y., Kim, K., Sung, Y. J., Wang, L., Timsina, J., Western, et al
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- **Modulation of the p75 neurotrophin receptor in the PS19 tauopathy mouse model regulates transcription profiles and inter-cellular communication across multiple populations of non-neuronal cells**
Butler, R. R., Yang, T., Han, C., Le Guen, Y., Tran, K. C., Lallani, S., Liu, H., Leng, S., Massa, S. M., Longo, F. M.
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- **APOE Genotype and Alzheimer Disease Risk Across Age, Sex, and Population Ancestry.** *JAMA neurology*
Belloy, M. E., Andrews, S. J., Le Guen, Y., Cuccaro, M., Farrer, L. A., Napolioni, V., Greicius, M. D.
2023
- **Estimates of HIV testing at Visits to U.S. emergency departments, 2014-2020.** *AIDS (London, England)*
Clay, C. E., Hoover, K. W., Le Guen, Y., Bennett, C. L.
2023
- **Loop diuretics association with Alzheimer's disease risk.** *Frontiers in aging*
Graber-Naidich, A., Lee, J., Younes, K., Greicius, M. D., Le Guen, Y., He, Z.
2023; 4: 1211571
- **Improving genetic risk prediction across diverse population by disentangling ancestry representations.** *Communications biology*
Gyawali, P. K., Le Guen, Y., Liu, X., Belloy, M. E., Tang, H., Zou, J., He, Z.
2023; 6 (1): 964
- **APOE- ϵ 4 and BIN1 increase risk of Alzheimer's disease pathology but not specifically of Lewy body pathology.** *Acta neuropathologica communications*
Talyansky, S., Le Guen, Y., Kasireddy, N., Belloy, M. E., Greicius, M. D.
2023; 11 (1): 149
- **Sex- and APOE-specific genetic risk factors for late-onset Alzheimer's disease: Evidence from gene-gene interaction of longevity-related loci.** *Aging cell*
Dato, S., De Rango, F., Crocco, P., Pallotti, S., Belloy, M. E., Le Guen, Y., Greicius, M. D., Passarino, G., Rose, G., Napolioni, V.
2023: e13938
- **APOE loss-of-function variants: Compatible with longevity and associated with resistance to Alzheimer's Disease pathology.** *medRxiv : the preprint server for health sciences*
Chemparathy, A., Guen, Y. L., Chen, S., Lee, E. G., Leong, L., Gorzynski, J., Xu, G., Belloy, M., Kasireddy, N., Tauber, A. P., Williams, K., Stewart, I., Wingo, et al
2023
- **APOE - ϵ 4 and BIN1 increase risk of Alzheimer's disease pathology but not specifically of Lewy body pathology.** *medRxiv : the preprint server for health sciences*
Talyansky, S., Guen, Y. L., Kasireddy, N., Belloy, M. E., Greicius, M. D.
2023
- **Bumetanide Exposure Association with Alzheimer's Disease Risk.** *Research square*
Graber-Naidich, A., Lee, J., Younes, K., Greicius, M. D., Le Guen, Y., He, Z.
2023
- **GhostKnockoff inference empowers identification of putative causal variants in genome-wide association studies.** *Nature communications*
He, Z., Liu, L., Belloy, M. E., Le Guen, Y., Sossin, A., Liu, X., Qi, X., Ma, S., Gyawali, P. K., Wyss-Coray, T., Tang, H., Sabatti, C., Candes, et al
2022; 13 (1): 7209
- **Exome sequencing identifies rare damaging variants in ATP8B4 and ABCA1 as risk factors for Alzheimer's disease.** *Nature genetics*
Holstege, H., Hulsman, M., Charbonnier, C., Grenier-Boley, B., Quenez, O., Grozeva, D., van Rooij, J. G., Sims, R., Ahmad, S., Amin, N., Norsworthy, P. J., Dols-Icardo, O., Hummerich, et al
2022
- **Performance of a fully-automated Lumipulse plasma phospho-tau181 assay for Alzheimer's disease.** *Alzheimer's research & therapy*
Wilson, E. N., Young, C. B., Ramos Benitez, J., Swarovski, M. S., Feinstein, I., Vandijck, M., Le Guen, Y., Kasireddy, N. M., Shahid, M., Corso, N. K., Wang, Q., Kennedy, G., Trelle, et al
2022; 14 (1): 172
- **A Fast and Robust Strategy to Remove Variant-Level Artifacts in Alzheimer Disease Sequencing Project Data.** *Neurology. Genetics*
Belloy, M. E., Le Guen, Y., Eger, S. J., Napolioni, V., Greicius, M. D., He, Z.
2022; 8 (5): e200012
- **Deep neural networks with controlled variable selection for the identification of putative causal genetic variants** *NATURE MACHINE INTELLIGENCE*

- Kassani, P. H., Lu, F., Le Guen, Y., Belloy, M. E., He, Z.
2022
- **Deep neural networks with controlled variable selection for the identification of putative causal genetic variants.** *Nature machine intelligence*
Kassani, P. H., Lu, F., Guen, Y. L., Belloy, M. E., He, Z.
2022; 4 (9): 761-771
 - **Confirming Pathogenicity of the F386L PSEN1 Variant in a South Asian Family With Early-Onset Alzheimer Disease.** *Neurology. Genetics*
Eger, S. J., Le Guen, Y., Khan, R. R., Hall, J. N., Kennedy, G., Zaharchuk, G., Couthouis, J., Brooks, W. S., Velakoulis, D., Napolioni, V., Belloy, M. E., Dalgard, C. L., Mormino, et al
1800; 8 (1): e647
 - **Challenges at the APOE locus: a robust quality control approach for accurate APOE genotyping.** *Alzheimer's research & therapy*
Belloy, M. E., Eger, S. J., Le Guen, Y., Damotte, V., Ahmad, S., Ikram, M. A., Ramirez, A., Tsohaki, A. C., Rossi, G., Jansen, I. E., de Rojas, I., Parveen, K., Slegers, et al
2022; 14 (1): 22
 - **Identification of putative causal loci in whole-genome sequencing data via knockoff statistics.** *Nature communications*
He, Z., Liu, L., Wang, C., Le Guen, Y., Lee, J., Gogarten, S., Lu, F., Montgomery, S., Tang, H., Silverman, E. K., Cho, M. H., Greicius, M., Ionita-Laza, et al
2021; 12 (1): 3152
 - **A novel age-informed approach for genetic association analysis in Alzheimer's disease.** *Alzheimer's research & therapy*
Le Guen, Y., Belloy, M. E., Napolioni, V., Eger, S. J., Kennedy, G., Tao, R., He, Z., Greicius, M. D., Alzheimers Disease Neuroimaging Initiative
2021; 13 (1): 72
 - **Genome-wide haplotype association study in imaging genetics using whole-brain sulcal openings of 16,304 UK Biobank subjects** *EUROPEAN JOURNAL OF HUMAN GENETICS*
Karkar, S., Dandine-Roulland, C., Mangin, J., Le Guen, Y., Philippe, C., Deleuze, J., Pierre-Jean, M., Le Floch, E., Frouin, V.
2021; 29 (9): 1424-1437
 - **KLVS heterozygosity reduces brain amyloid in asymptomatic at-risk APOE4 carriers.** *Neurobiology of aging*
Belloy, M. E., Eger, S. J., Le Guen, Y., Napolioni, V., Deters, K. D., Yang, H., Scelsi, M. A., Porter, T., James, S., Wong, A., Schott, J. M., Sperling, R. A., Laws, et al
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