Stanford

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)
- Diplome d'ingénieur, Télécom Paristech , Computer Science, Electronic (2015)
- Doctor of Philosophy, Neurospin, CEA, Université Paris-Saclay , MR imaging, Neuroscience, Imaging-genetic (2018)

Publications

PUBLICATIONS

- **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**
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- **Long-read genome sequencing and multi-omics in aging and neurodegeneration.** *medRxiv : the preprint server for health sciences*
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  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*
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- **Role of the X Chromosome in Alzheimer Disease Genetics.** *JAMA neurology*
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- **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*
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- **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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- **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
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- **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
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- **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.
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- **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
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- **eQTL of KCNK2 regionally influences the brain sulcal widening: evidence from 15,597 UK Biobank participants with neuroimaging data.** *Brain structure & function*
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- **Genetic Influence on the Sulcal Pits: On the Origin of the First Cortical Folds** *CEREBRAL CORTEX*
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- **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*
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- **Cardiac Troponin Screening and Clinical Outcomes in Patients Receiving Immunotherapy.** *JACC. CardioOncology*
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- **CD44 cross-linking promotesPlasmodium falciparuminvasion.** *bioRxiv : the preprint server for biology*
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- **Disruption of the cerebrospinal fluid-plasma protein balance in cognitive impairment and aging.** *Nature medicine*
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  Koh, L., Kavarian, P., Le Guen, Y., Bruzoni, M., Pratt, J. S., Abu El Haija, M.
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  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
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- **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
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- **Advancements in APOE and dementia research: Highlights from the 2023 AAIC Advancements: APOE conference.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
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