Stanford



Frank M. Longo, MD, PhD

George E. and Lucy Becker Professor of Medicine and Professor, by courtesy, of Neurosurgery

Adult Neurology

CLINICAL OFFICE (PRIMARY)

- **Stanford Neuroscience Health Center**

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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

  Rayni Wells - Administrative Associate

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Bio

BIO

Dr. Longo received his MD, and PhD in Neuroscience from the University of California, San Diego. Following an internship in medicine at New York University, he trained as a resident in neurology at the University of California, San Francisco where he also completed a fellowship in neurobiology. He joined the UCSF faculty and eventually served as professor and vice chair of UCSF's Department of Neurology. Before joining Stanford Medicine in 2006, Dr. Longo was the H. Houston Merritt Professor and Chair of Neurology at the University of North Carolina – Chapel Hill.

At Stanford Medicine, Dr. Longo is the George E. and Lucy Becker Professor of Neurology and Professor, by courtesy, of Neurosurgery. He served as the Chair of the Department of Neurology and Neurological Sciences from 2006 to 2023. Along with his colleagues, he focuses on building programs in neurology and the neurosciences.

His interests include translational research in neurodegenerative disease prevention and therapeutics, providing patient care in the Stanford Health Care Memory Disorders Clinic, and mentoring medical students and other trainees.

Dr. Longo is the 2015 recipient of the inaugural Melvin R. Goodes Prize for Excellence in Alzheimer's Drug Discovery from the Alzheimer's Drug Discovery Foundation, and his team's work on Alzheimer's therapeutics was featured on the cover of Time Magazine in 2016. He currently serves on the National Advisory Council on Aging for the National Institute on Aging at the NIH.

CLINICAL FOCUS

- Alzheimer's Disease
- Huntington Disease
- Neurology

ACADEMIC APPOINTMENTS

- Professor, Adult Neurology

- Professor (By courtesy), Neurosurgery
- Member, Bio-X
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Chief, Neurology and Rehab Services, SF, VAMC, (1995-2001)
- Assoc. Professor and Vice Chair, UC San Francisco, (1996-1999)
- Assoc. Chief of Staff for Research and Dev., SF, VAMC, (1997-2001)
- Professor and Vice Chair, UC San Francisco, (1999-2001)
- Professor and Chair, Department of Neurology, University of North Carolina, Chapel Hill, (2001-2005)
- Professor and Chair, Department of Neurology and Neurological Sciences, Stanford University, (2006-2023)
- Professor, Department of Neurology and Neurological Sciences, Stanford University, (2023- present)

HONORS AND AWARDS

- Alpha Omega Alpha Honor Medical Society at Stanford, AOA Honor Medical Society (2020)
- Melvin R. Goodes Prize for Excellence in Alzheimer’s Drug Discovery, Alzheimer’s Drug Discovery Foundation (2015)
- Stanford University Fellow, Stanford University (2006-2008)
- Outstanding Alumnus Award, UC San Diego (2000)
- Beeson Award, American Federation for Aging Research (1995)
- Associate Editor, Annals of Neurology (1994-1997)
- Edwin Boldrey Award for Basic Science Research, San Francisco Neurological Society (1990)
- First Place in Neuroscience, National Student Research Forum (1979)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Council member, National Institutes on Aging Council (2022 - present)

PROFESSIONAL EDUCATION

- Medical Education: University of California San Diego School of Medicine (1981) CA
- Board Certification: Neurology, American Board of Psychiatry and Neurology (1989)
- Residency: UCSF Medical Center (1987) CA
- Internship: New York VA Medical Center (1984) NY
- Ph.D., UC San Diego , Neuroscience (1983)
- M.D., UC San Diego , Medicine (1981)
- BA, UC San Diego , Biology (1977)

LINKS

- Longo Lab: https://med.stanford.edu/longo-lab/members.html
- ADRC: http://med.stanford.edu/adrc.html
- Video Story: https://stanfordhealthcare.org/stanford-health-care-now/why-i-got-into-medicine/why-medicine-frank-longo-md-phd.html
- Get a Second Opinion: https://stanfordhealthcare.org/second-opinion/overview.html

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Clinical interests include Alzheimer's disease and Huntington's disease and the development of effective therapeutics for these disorders.

Our research group is focused on the elucidation of mechanisms underlying neurodegeneration and the discovery of cellular signaling mechanisms that serve as a basis for the development of novel therapeutic approaches for Alzheimer's disease, Huntington's disease and other neurological disorders. In our Neurotrophin Receptor Program, we have pioneered the development of small molecule ligands targeted to neurotrophin receptors to promote novel signaling mechanisms. Small molecule-induced modulation of these mechanisms demonstrates therapeutic efficacy in models of Alzheimer's disease, frontotemporal dementia, Huntington's disease, Parkinson's disease, Rett syndrome, spinal cord injury, HIV dementia, peripheral neuropathy and other areas. These novel compounds also promote neurogenesis from stem cells. As part of a traditionally very rare scenario in academic neurology and neuroscience, one of our novel, first-in-class small molecules has moved through phase 1 and 1b clinical trials in normal subjects and a phase 2a clinical trial in Alzheimer's patients, demonstrating significant disease-slowing effects on multiple key biomarkers.

In our Protein Tyrosine Phosphatase (PTP) Receptor Program we have been among the leaders in elucidating the role of PTP receptors in the nervous system. We have focused on LAR, a prototype PTP receptor that we discovered to be expressed in the nervous system. Our studies demonstrated the first CNS and PNS phenotypes in a PTP receptor mutant mouse, discovered PTP extracellular domains responsible for their potent neurite promoting effects, found that LAR associates with Trk neurotrophin receptors to regulate their activity, showed that down regulating LAR promotes stem cell proliferation and stimulates hippocampal neurogenesis, and developed a novel approach for down regulating PTP activity. Our team pioneered the first synthetic peptides, with one set modeled on a LAR intracellular domain and other on an extracellular domain, capable of modulating LAR activity. These peptides have provided a novel approach for modulating PTP receptors and have made possible translational research studies by ours and other laboratories in the areas of novel therapies for spinal cord injury and brain tumors. This work also reveals candidate therapeutic targets for small molecule development.

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Audrey Weber

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Neurosciences (PhD Program)

Publications

PUBLICATIONS

- **Alzheimer's disease blood biomarkers reveal proteomic modules of disease progression.** *medRxiv : the preprint server for health sciences*
  Butler, R. R., Brown, M. P., Weber, A. J., Cary, G. A., Le Guen, Y., Losada, P. M., Mendiola, J. H., Henderson, V. W., Sha, S. J., Poston, K. L., Andreasson, K. I., Wagner, A. D., Mormino, et al
  2026
- **A Small-Molecule TrkB Agonist Promotes Synaptic Resilience Against Aβ and Tau Oligomers and Mitigates Alterations in TrkB-Akt and Fyn Signaling.** *Cells*
  Yang, T., Tran, K. C., Leng, A., Langness, V. F., Massa, S. M., Longo, F. M.
  2026; 15 (19)

- **Uncovering heterogeneous effects via localized feature selection.** *Proceedings of the National Academy of Sciences of the United States of America*
  Liu, X., Gu, J., Chen, Z., Chu, B., Liu, L., Morrison, T., Butler, R. R., Edelson, J., Li, J., Longo, F. M., Tang, H., Ionita-Laza, I., Sabatti, et al
  2026; 123 (38): e2527033123
- **Unlocking Sensitive Data with SPHERE in the Age of AI.** *bioRxiv : the preprint server for biology*
  He, Z., Park, J., Pulgrossi, R. C., Lee, J., Butler, R. R., Weber, A., Tian, L., Zhang, X., Wang, J. F., Sha, S., Mormino, E. C., Wyss-Coray, T., Henderson, et al
  2026
- **Mapping cross-domain drivers of Alzheimer's disease risk through integrated network analysis.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
  Cary, G. A., Keegan, S., Wiley, J. C., Gockley, J., Butler, R. R., Longo, F. M., Levey, A. I., Greenwood, A. K., Leal, K., Carter, G. W.
  2026; 22 (6): e71564
- **Alzheimer's disease biological domain sub-stratification enhances the precision of functional analyses.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
  Cary, G. A., Ganesh, S. S., Heath, L., Leal, K., Kampmann, M., Longo, F. M., Butler, R. R., Levey, A. L., Carter, G. W., Wiley, J.
  2026; 22 (6): e71403
- **Taming the "death receptor": translating the first-in-class p75NTR modulator LM11A-31 from basic biology, across broad preclinical models, to clinical proof-of-concept.** *Journal of translational medicine*
  Langness, V. F., Simmons, D. A., Kaur, S., Massa, S. M., Longo, F. M.
  2026
- **Plasma proteomics reveals divergent sex-specific senescence and bone biology signatures across neurodegenerative diseases.** *bioRxiv : the preprint server for biology*
  Kaipa, S., Zhai, T., Meka, S. R., Moran-Losada, P., He, Z., Channappa, D., Se-Hwee Oh, H., Rutledge, J., Zeineh, M., Agudelo, A., Nair, R., Wilson, E. N., Bandela, et al
  2026
- **The nerve growth factor receptor p75NTR interacts with toll like receptor 4 and the alarmins high mobility group box-1 and nucleophosmin: a novel inflammatory mechanism in psoriasis.** *The British journal of dermatology*
  Sileno, S., D'Agostino, M., Farina, L., Kosta, A., Manni, L., Soligo, M., Mercurio, L., Madonna, S., Albanesi, C., Pallotta, S., Moretta, G., Palese, E., Cirielli, et al
  2026
- **Small molecule modulation of the p75 neurotrophin receptor promotes dendritic spine resilience to pathogenic tau species and reduces their accumulation.** *Acta neuropathologica communications*
  Yang, T., Ay, Y., Kaur, S., Butler, R. R., Tran, K. C., Liu, H., Langness, V. F., Massa, S. M., Longo, F. M.
  2026
- **Drug Development.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
  Longo, F.
  2025; 21 Suppl 5: e103176
- **Alzheimer's Imaging Consortium.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
  Liu, A., Simmons, D., Longo, F., Zeineh, M., Georgiadis, M.
  2025; 21 Suppl 8 (Suppl 8): e110151
- **Biomarkers.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
  Liu, A., Simmons, D., Longo, F., Zeineh, M., Georgiadis, M.
  2025; 21 Suppl 2: e101618
- **Drug Development.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
  Longo, F.
  2025; 21 Suppl 5: e098673
- **Drug Development.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
  Butler, R. R., Yang, T., Han, C., Guen, Y. L., Tran, K. C., Liu, H., Leng, S. A., Massa, S. M., Longo, F.
  2025; 21 Suppl 5: e099554

- **PAK1 inhibitor NVS-PAK1-1 preserves dendritic spines in amyloid/tau exposed neurons and 5xFAD mice.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
  Yang, T., Huhe, H., Williams, S., Kaur, S., Ay, Y. A., Davis-Gilbert, Z. W., Cary, G. A., Paisie, C., Butler, R. R., Wiley, J., Betarbet, R., Fu, H., Duong, et al
  2025; 21 (12): e71033

- **Drug Development.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
  Leal, K., Zoeller, E. L., Cary, G. A., Wiley, J. C., Du, Y., Halabelian, L., Axtman, A. D., Betarbet, R., Carter, G. W., Fu, H., Longo, F., Rizzo, S. J., Edwards, et al
  2025; 21 Suppl 5: e103791

- **Mapping cross-domain drivers of Alzheimer's disease risk through integrated network analysis.** *bioRxiv : the preprint server for biology*
  Cary, G. A., Keegan, S., Wiley, J. C., Gockley, J., Longo, F. M., Levey, A. I., Greenwood, A. K., Leal, K., Carter, G. W.
  2025

- **Twenty years of therapeutic development in tauopathy mouse models: a scoping review.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
  Langness, V. F., Simmons, D. A., McHugh, T. L., Butler, R. R., Zhou, J., Liu, H., Yang, T., Ellerby, L. M., Longo, F. M.
  2025; 21 (8): e70578

- **Uncovering Heterogeneous Effects via Localized Feature Selection.** *bioRxiv : the preprint server for biology*
  Liu, X., Gu, J., Chen, Z., Chu, B., Liu, L., Morrison, T., Butler, R. R., Edelson, J., Li, J., Longo, F. M., Tang, H., Ionita-Laza, I., Sabatti, et al
  2025

- **Parkinson's disease is characterized by vitamin B6-dependent inflammatory kynurenine pathway dysfunction.** *NPJ Parkinson's disease*
  Wilson, E. N., Umans, J., Swarovski, M. S., Minhas, P. S., Mendiola, J. H., Midttun, Ø., Ulvik, A., Shahid-Besanti, M., Linortner, P., Mhatre, S. D., Wang, Q., Channappa, D., Corso, et al
  2025; 11 (1): 96

- **Human striatal progenitor cells that contain inducible safeguards and overexpress BDNF rescue Huntington's disease phenotypes.** *Molecular therapy. Methods & clinical development*
  Simmons, D. A., Selvaraj, S., Chen, T., Cao, G., Camelo, T. S., McHugh, T. L., Gonzalez, S., Martin, R. M., Simanauskaite, J., Uchida, N., Porteus, M. H., Longo, F. M.
  2025; 33 (1): 101415

- **p75NTR modulation prevents cellular, cortical activity and cognitive dysfunctions caused by perinatal hypoxia.** *Brain : a journal of neurology*
  Chattopadhyaya, B., Lee, K. K., Carreño-Muñoz, M. I., Paris-Rubianes, A., Lavertu-Jolin, M., Berryer, M., Longo, F. M., Di Cristo, G.
  2025

- **A Small-Molecule TrkB/TrkC Ligand Promotes Neurogenesis and Behavioral Recovery Following Traumatic Brain Injury.** *Neurotrauma reports*
  Shi, J., Yang, T., Li, Y., Zhong, L., Longo, F. M., Massa, S. M.
  2025; 6 (1): 195-209

- **Human striatal progenitor cells that contain inducible safeguards and overexpress BDNF rescue Huntington's disease phenotypes** *MOLECULAR THERAPY METHODS & CLINICAL DEVELOPMENT*
  Simmons, D. A., Selvaraj, S., Chen, T., Cao, G., Camelo, T., Mchugh, T. L. M., Gonzalez, S., Martin, R. M., Simanauskaite, J., Uchida, N., Porteus, M. H., Longo, F. M.
  2025; 33 (1)

- **A Small-Molecule TrkB/TrkC Ligand Promotes Neurogenesis and Behavioral Recovery Following Traumatic Brain Injury** *NEUROTRAUMA REPORTS*
  Shi, J., Yang, T., Li, Y., Zhong, L., Longo, F. M., Massa, S. M.
  2025; 6 (1): 195-209

- **ProBDNF as a Myokine in Skeletal Muscle Injury: Role in Inflammation and Potential for Therapeutic Modulation of p75NTR.** *International journal of molecular sciences*
  Aby, K., Antony, R., Yang, T., Longo, F. M., Li, Y.
  2025; 26 (1)

- **Plasma Aβ42/Aβ40 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

- **Developing Topics.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
  Latif-Hernandez, A., Iii, R. R., Moran-Losada, P., Yang, T., Tran, K. C., Liu, H., Wyss-Coray, T., Longo, F. M.
  2024; 20 Suppl 8: e095712

- **Drug Development.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
  Leal, K., Axtman, A. D., Betarbet, R., Brennan, P. E., Carter, G. W., Fu, H., Greenwood, A. K., Longo, F. M., Edwards, A. M., Levey, A. I., Center, E. T.
  2024; 20 Suppl 6: e089250

- **Alzheimer's Imaging Consortium.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
  Liu, A., Simmons, D., Alvarez, C., Wang, Y., Spincemaille, P., Longo, F. M., Zeineh, M., Georgiadis, M.
  2024; 20 Suppl 9: e093659

- **Biomarkers.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
  Liu, A., Simmons, D., Alvarez, C., Wang, Y., Spincemaille, P., Longo, F. M., Zeineh, M., Georgiadis, M.
  2024; 20 Suppl 2: e085797

- **Small molecule modulation of p75NTR engages the autophagy-lysosomal pathway and reduces huntingtin aggregates in cellular and mouse models of Huntington's disease.** *Neurotherapeutics : the journal of the American Society for Experimental NeuroTherapeutics*
  Simmons, D. A., Alexander, N., Cao, G., Rippin, I., Lugassy, Y., Eldar-Finkelman, H., Longo, F. M.
  2024: e00495

- **Parkinson's disease is characterized by vitamin B6-dependent inflammatory kynurenine pathway dysfunction.** *Research square*
  Wilson, E., Umans, J., Swarovski, M., Minhas, P., Midttun, Ø., Ulvik, A. A., Shahid-Besanti, M., Linortner, P., Mhatre, S., Wang, Q., Channappa, D., Corso, N., Tian, et al
  2024

- **Restoring hippocampal glucose metabolism rescues cognition across Alzheimer's disease pathologies.** *Science (New York, N.Y.)*
  Minhas, P. S., Jones, J. R., Latif-Hernandez, A., Sugiura, Y., Durairaj, A. S., Wang, Q., Mhatre, S. D., Uenaka, T., Crapser, J., Conley, T., Ennerfelt, H., Jung, Y. J., Liu, et al
  2024; 385 (6711): eabm6131

- **A small-molecule TrkB ligand improves dendritic spine phenotypes and atypical behaviors in female Rett syndrome mice.** *Disease models & mechanisms*
  Medeiros, D., Ayala-Baylon, K., Egido-Betancourt, H., Miller, E., Chapleau, C., Robinson, H., Phillips, M. L., Yang, T., Longo, F. M., Li, W., Pozzo-Miller, L.
  2024; 17 (6)

- **A TrkB and TrkC partial agonist restores deficits in synaptic function and promotes activity-dependent synaptic and microglial transcriptomic changes in a late-stage Alzheimer's mouse model.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
  Latif-Hernandez, A., Yang, T., Raymond-Butler, R. 3., Losada, P. M., Minhas, P. S., White, H., Tran, K. C., Liu, H., Simmons, D. A., Langness, V., Andreasson, K. I., Wyss-Coray, T., Longo, et al
  2024

- **Genetic and multi-omic risk assessment of Alzheimer's disease implicates core associated biological domains.** *Alzheimer's & dementia (New York, N. Y.)*
  Cary, G. A., Wiley, J. C., Gockley, J., Keegan, S., Amirtha Ganesh, S. S., Heath, L., Butler, R. R., Mangravite, L. M., Logsdon, B. A., Longo, F. M., Levey, A., Greenwood, A. K., Carter, et al
  2024; 10 (2): e12461

- **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
  2023; 624 (7990): 164-172

- **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.

WILEY.2023

- **Targeting Endogenous Mechanisms of Brain Resilience for the Treatment and Prevention of Alzheimer's Disease.** *The journal of prevention of Alzheimer's disease*
  Shanks, H. R., Onuska, K. M., Massa, S. M., Schmitz, T. W., Longo, F. M.
  2023; 10 (4): 699-705
- **Modulation of p75^{NTR} on mesenchymal stem cells increases their vascular protection in retinal ischemia-reperfusion mouse model**
  Elshaer, S. L., Park, H., Pearson, L., Hill, W. D., Longo, F. M., El-Remessy, A. B.
  MARY ANN LIEBERT, INC.2023: A71
- **Senolytic therapy for Alzheimer's disease.** *Nature medicine*
  Longo, F. M., Massa, S. M.
  2023
- **Senolytic therapy for Alzheimer's disease** *NATURE MEDICINE*
  Longo, F. M., Massa, S. M.
  2023
- **Pharmacological Co-Activation of TrkB and TrkC Receptor Signaling Ameliorates Striatal Neuropathology and Motor Deficits in Mouse Models of Huntington's Disease.** *Journal of Huntington's disease*
  Simmons, D. A., Belichenko, N. P., Longo, F. M.
  2023
- **Delivery of BDNF through a Pluripotent Stem Cell-Based Platform Ameliorates Behavioral Deficits in a Mouse Model of Huntington's Disease**
  Selvaraj, S., Simmons, D. A., Chen, T., Cao, G. Y., Camelo, T. S., McHugh, T. L. M., Gonzalez, S., Martin, R. M., Simanauskaite, J. M., Uchida, N., Longo, F. M., Porteus, M. H.
  CELL PRESS.2023: 18
- **Open drug discovery in Alzheimer's disease.** *Alzheimer's & dementia (New York, N. Y.)*
  Axtman, A. D., Brennan, P. E., Frappier-Brinton, T., Betarbet, R., Carter, G. W., Fu, H., Gileadi, O., Greenwood, A. K., Leal, K., Longo, F. M., Mangravite, L. M., Edwards, A. M., Levey, et al
  2023; 9 (2): e12394
- **Myeloid deficiency of the intrinsic clock protein BMAL1 accelerates cognitive aging by disrupting microglial synaptic pruning.** *Journal of neuroinflammation*
  Iweka, C. A., Seigneur, E., Hernandez, A. L., Paredes, S. H., Cabrera, M., Blacher, E., Pasternak, C. T., Longo, F. M., de Lecea, L., Andreasson, K. I.
  2023; 20 (1): 48
- **Reduced expression of the cell intrinsic clock protein Bmal1 in myeloid cells accelerates cognitive decline and alters microglial function in aging mice**
  Iweka, C., Seigneur, E., Latif-Hernandez, A., Paredes, S., Cabrera, M., Blacher, E., Wang, Q., Longo, F., DeLecea, L., Andreasson, K.
  AMER SOC CELL BIOLOGY.2023: 761
- **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
- **Modulation of p75 neurotrophin receptor (p75NTR) with LM11A-31 improves neurovascular damage in diabetic stroke**
  Ismael, S., Longo, F., Bix, G., Ishrat, T.
  SAGE PUBLICATIONS INC.2022: 219
- **Chronic partial TrkB activation reduces seizures and mortality in a mouse model of Dravet syndrome.** *Proceedings of the National Academy of Sciences of the United States of America*
  Gu, F., Parada, I., Yang, T., Longo, F. M., Prince, D. A.
  2022; 119 (7)
- **Post-stroke administration of the p75 neurotrophin receptor modulator, LM11A-31, attenuates chronic changes in brain metabolism, increases neurotransmitter levels, and improves recovery.** *The Journal of pharmacology and experimental therapeutics*

Nguyen, T. V., Crumpacker, R. H., Calderon, K. E., Garcia, F. G., Zbesko, J. C., Frye, J. B., Gonzalez, S., Becktel, D. A., Yang, T., Tavera-Garcia, M. A., Morrison, H. W., Schnellmann, R. G., Longo, et al
2021

- **Small molecule modulation of TrkB and TrkC neurotrophin receptors prevents cholinergic neuron atrophy in an Alzheimer's disease mouse model at an advanced pathological stage.** *Neurobiology of disease*
  Gonzalez, S., McHugh, T. L., Yang, T., Syriani, W., Massa, S. M., Longo, F. M., Simmons, D. A.
  2021: 105563

- **Suppression of HIV-associated Macrophage Activation by a p75 Neurotrophin Receptor Ligand.** *Journal of neuroimmune pharmacology : the official journal of the Society on NeuroImmune Pharmacology*
  Killebrew, D. A., Williams, K. S., Xie, Y., Longo, F., Meeker, R. B.
  2021

- **Modulation of p75(NTR) on Mesenchymal Stem Cells Improves Angiogenic Secretome and Vascular Protection in Retinal Ischemia-Reperfusion**
  El-Remessy, A. B., Elshaer, S., Park, H., Pearson, L., Hill, W., Longo, F. M.
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- **Neuroimaging, Urinary, and Plasma Biomarkers of Treatment Response in Huntington's Disease: Preclinical Evidence with the p75NTR Ligand LM11A-31.** *Neurotherapeutics : the journal of the American Society for Experimental NeuroTherapeutics*
  Simmons, D. A., Mills, B. D., Butler Iii, R. R., Kuan, J., McHugh, T. L., Akers, C., Zhou, J., Syriani, W., Grouban, M., Zeineh, M., Longo, F. M.
  2021

- **Establishing a Data Science Unit in an Academic Medical Center: An Illustrative Model.** *Academic medicine : journal of the Association of American Medical Colleges*
  Desai, M., Boulos, M., Pomann, G. M., Steinberg, G. K., Longo, F. M., Leonard, M., Montine, T., Blomkalns, A. L., Harrington, R. A.
  2021

- **Restoring metabolism of myeloid cells reverses cognitive decline in ageing.** *Nature*
  Minhas, P. S., Latif-Hernandez, A., McReynolds, M. R., Durairaj, A. S., Wang, Q., Rubin, A., Joshi, A. U., He, J. Q., Gauba, E., Liu, L., Wang, C., Linde, M., Sugiura, et al
  2021

- **Modulation of p75NTR on Mesenchymal Stem Cells Increases Their Vascular Protection in Retinal Ischemia-Reperfusion Mouse Model.** *International journal of molecular sciences*
  Elshaer, S. L., Park, H. S., Pearson, L. n., Hill, W. D., Longo, F. M., El-Remessy, A. B.
  2021; 22 (2)

- **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

- **Improved neurocognitive performance in FIV infected cats following treatment with the p75 neurotrophin receptor ligand LM11A-31.** *Journal of neurovirology*
  Fogle, J. E., Hudson, L. n., Thomson, A. n., Sherman, B. n., Gruen, M. n., Lacelles, B. D., Colby, B. M., Clary, G. n., Longo, F. n., Meeker, R. B.
  2021

- **Small molecule modulation of the p75 neurotrophin receptor inhibits multiple amyloid beta-induced tau pathologies.** *Scientific reports*
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