

CURRICULUM VITAE

Name: Michael Eddy Belloy

Position: Instructor, Alzheimer's Association Fellow, K99 recipient
Department of Neurology and Neurological Sciences
Greicius Lab
Stanford University, School of Medicine

Address: 290 Jane Stanford way
94305 California
USA
Stanford University, Stanford
Voice: 404-263-5455
Email: mbelloy@stanford.edu

EDUCATION

2008 - 2011	University of Antwerp, Belgium	B.S.	Biochemistry & Biotechnology	
2011 - 2014	University of Antwerp, Belgium	M.S.	Biochemistry & Biotechnology, Basic neuroscience	
2014 - 2018	University of Antwerp, Belgium Emory University, Atlanta, USA	Ph.D.	Biomedical Sciences, Biomedical Imaging	Dr. Van der Linden Dr. Verhoye Dr. Keilholz Dr. Keliris

LICENSES, CERTIFICATIONS

2012 Federation of Laboratory Animal Science Associations (FELASA) certificate, category C, Belgium

PRINCIPAL POSITIONS HELD

2013 - 2014	Neuroelectronics research Flanders (NERF), Imec, Belgium	Master internship	Basic Neuroscience
2014 - 2018	Bio Imaging Lab, University of Antwerp	Ph.D. Student	Biomedical Imaging
2017 - 2018	Emory University, Atlanta, USA	Visiting Graduate Student	Radiology and Biomedical Imaging
2018 – 2022	Stanford University, Stanford, USA	Postdoc	Neurology
2022 – current	Stanford University, Stanford, USA	Instructor	Neurology

HONORS AND AWARDS

2011	B.S. diploma Cum Laude	University of Antwerp
2014	M.S. diploma Magna Cum Laude	University of Antwerp
2017	Travel Stipend from the International Society for Magnetic Resonance in Medicine (ISMRM) - Hawaii	International Society for Magnetic Resonance in Medicine (ISMRM)
2018	Ph.D.	University of Antwerp
2020	Postdoctoral Research Fellowship	Alzheimer's Association
2020	Young Investigators Award	Alzheimer's Association
2021	ADPD21 Junior Faculty Award	International Conference on Alzheimer's and Parkinson's Diseases
2021	Best virtual Postdoc Poster at AAIC: Basic and Translational Science	Alzheimer's Association
2022	Stanford ADRC Developmental Award	National Institute of Aging
2022	K99 Career Transition Award	National Institute of Aging

CURRENT FUNDING

2022 - 2027	K99/R00 (\$1.1M / 5 years): "Elucidating sex-specific risk for Alzheimer's disease through state-of-the-art genetics and multi-omics" <u>Role:</u> PI	National Institute of Aging (NIA)
2022 - 2024	Alzheimer's Disease Research Center developmental project (ADRC, \$250,000 / 2 years): "Disentangling sex-specific risk for Alzheimer's disease through state-of-the-art genomics" <u>Role:</u> PI	National Institute of Aging (NIA)
2020 - 2023	Alzheimer's Association Research Fellowship (AARF, \$175,000 / 3 years), awarded to Michael Belloy: "Putting the Pieces Together: APOE, Age, Sex, and Ancestry in AD genetics" <u>Role:</u> PI	Alzheimer's Association
2021 - 2026	U24 (\$31.7M / 5 years) awarded to Timothy Hohman & Michael Cuccaro, with Stanford site PI Elizabeth Mormino (\$2.7M): "Alzheimer's Disease Sequencing Project Phenotype Harmonization Consortium" <u>Role:</u> Key Personnel	National Institute of Aging (NIA)

COMPLETED FUNDING



2018 - 2023	RO1 (\$3,5M / 5 years), awarded to Michael Greicius: "The Stanford Extreme Phenotype in Alzheimer's Disease (StEP AD) Cohort" <u>Role:</u> Key Personnel	National Institute of Aging (NIA)
-------------	---	-----------------------------------

2017 - 2018	ISMRM research exchange program (\$5,000), for research stay abroad at the lab of Dr. Shella Keilholz, Emory University and Georgia Tech <u>Role:</u> PI	International Society for Magnetic Resonance in Medicine (ISMRM)
-------------	---	--

INVITED PRESENTATIONS

2022	“Elucidating Alzheimer’s Disease Genetics across <i>APOE</i> , Age, Ancestry, and Sex” in the HYBRID NGI Center Special Seminar (Washington University)
2020	“Association of Klotho-VS Heterozygosity with Risk of Alzheimer Disease in Individuals Who Carry <i>APOE4</i> ” in the Young Investigators Award session of the “Alzheimer’s Association Northern California and Northern Nevada Chapter”.
2020	“Klotho-VS Heterozygosity Reduces Risk for Alzheimer’s Disease in <i>APOE4</i> carriers” in the open access key note seminar “B.R.A.I.N.” (the Brain’s Resilience and Intelligence Networks). https://youtu.be/NFYPP3-XmGk

RESEARCH MEDIA COVERAGE

2022	 <p>Article “Association of Rare <i>APOE</i> Missense Variants V236E and R251G With Risk of Alzheimer Disease”, covered in 45 news outlets including:</p> <ul style="list-style-type: none"> - Medscape: https://www.medscape.com/viewarticle/975404?src=rss - Alzforum: https://www.alzforum.org/news/research-news/two-apoe-mutations-decrease-risk-alzheimers-disease - WebMD: https://www.webmd.com/alzheimers/news/20220601/mutant-gene-stops-at-risk-people-from-getting-alzheimers-could-it-lead-to-treatment?src=RSS PUBLIC
2020	 <p>Article “Association of Klotho-VS Heterozygosity With Risk of Alzheimer Disease in Individuals Who Carry <i>APOE4</i>”, covered in 11 news outlets including:</p> <ul style="list-style-type: none"> - Scientific American: https://www.scientificamerican.com/article/longevity-gene-may-protect-against-a-notorious-alzheimers-risk-gene/ - Alzforum: https://www.alzforum.org/news/research-news/klotho-variant-cuts-apoe4s-alzheimer-risk-third - MEDPAGE: https://www.medpagetoday.com/neurology/alzheimersdisease/85939

MEMBERSHIPS

2019 - current	The Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment (ISTAART)
2018 - 2019	The organization for human brain mapping (OHBM)
2016 - 2018	International Society of Magnetic Resonance in Medicine (ISMRM); Member of the following study groups: MR Spectroscopy, Brain Function
2016 - 2017	European Society for Molecular Imaging (ESMI)
2015 - 2017	Society for Neuroscience (sfN)
2014 - 2018	Belgian Molecular Imaging Community (BMIC)

PEER REVIEW & SERVICES

- 2018 - current Peer reviewer for “JAMA”, “JAMA Neurology”, “Alzheimer’s & Dementia: The Journal of the Alzheimer’s Association”, “Nature Communications”, “Brain”, “Alzheimer’s Research and Therapy”, “Neuroimage”, “Neurobiology of Stress”, “Neurobiology of Aging”, “Alzheimer’s & Dementia: Translational Research & Clinical Interventions”, and “PLOS Genetics”.
<https://www.webofscience.com/wos/author/record/2111610>
- 2022 Grant reviewer for “AARF” and “AARF-D” fellowships from the Alzheimer’s Association 2022 cycle
- 2022 Invited Chair of the session “Genetics: What can be learned from increasing diversity in the genetics of AD?” at AAIC (San Diego, CA, USA, July 2022)
- 2018 Invited Chair of the session “Brain Tumours: Post-Treatment” at ISMRM (Paris, France, June 2018)

MENTORING SUMMARY

Dates	Name	Program or School	Mentor Type	Role	Current Position
2022 - 2022	Kennedy Williams	Neurology, Stanford University	Supervisor	Undergraduate Res. assistant	Undergraduate student, Northwestern
2022 - 2022	Andres P Tauber	Neurology, Stanford University	Supervisor	Undergraduate Res. assistant	Undergraduate student, Amherst
2021 - 2022	Nandita Kasireddy	Neurology, Stanford University	Supervisor	Research Admin	Research Admin, Stanford University
2021 - 2022	Kaitlyn Pham	Neurology, Stanford University	Supervisor	Research Admin	Research Admin, UC Los Angeles
2019 - 2021	Sarah J Eger	Neurology, Stanford University	Supervisor	Research Admin	Graduate student, UC Santa Barbara
2019 - 2021	Gabriel Kennedy	Neurology, Stanford University	Supervisor	Research Admin	Data Analyst, Stanford University
2019 - 2020	Silvia Russo	Neurology, Stanford University	Supervisor	MD, Res. residency	Neurology Resident, Stanford University
2019 - 2019	Nora Griffith	Neurology, Stanford University	Supervisor	Undergraduate Res. assistant	Undergraduate student, Caltech
2019 - 2019	Olamide Abiose	Neuroscience, Stanford University	Supervisor	Graduate Res. student	Graduate student, Stanford University
2017 - 2018	Bram Callewaert	Physics, University of Antwerp	Supervisor	Master Res. Student	Graduate student, University of Leuven
2016 - 2017	Jolien Haesendonckx	Biomedical Sciences, University of Antwerp	Supervisor	Bachelor Res. Student	Master Student, University of Antwerp
2015 - 2016	Tiana van Gaever	Biomedical Sciences, University of Antwerp	Supervisor	Master Res. Student	Project engineer, Novartis, Belgium

PEER REVIEWED PUBLICATIONS

Publications: 21, 1st author: 10, 2nd author: 5; Citations: 500, H-index: 8.

1. **Belloy ME**, Eger SJ, Le Guen Y, Kennedy G, He Z, Greicius MD. A fast and robust strategy to remove variant level artifacts in Alzheimer's Disease Sequencing Project data. *Neurology Genetics*. 2022
2. Kassani PH, Lu F, Le Guen Y, **Belloy ME**, He Z. Deep neural networks with controlled variable selection for the identification of putative causal genetic variants. *Nature Machine Intelligence*. *In Press*. 2022
3. Le Guen Y*, **Belloy ME***, [...], Greicius MD. Association of Rare APOE Missense Variants V236E and R251G With Risk of Alzheimer Disease. *JAMA Neurology*. 2022
*Shared First.
4. **Belloy ME**, Eger SJ, Le Guen Y, Ahmad S, Damotte V, Ikram MA, Lambert J-C, Napolioni V, Han SS, Greicius MD, for the Alzheimer's disease Neuroimaging Initiative. Challenges at the *APOE* locus: A robust quality control approach for accurate *APOE* genotyping. *Alzheimer's Research & Therapy*. DOI: 10.1186/s13195-022-00962-4. 2022
5. Eger S, Le Guen Y, Khan RR, Hall JN, Kennedy G, Zaharchuk G, Couthouis J, Brooks WS, Velakoulis D, Napolioni V, **Belloy ME**, Dalgard CL, Mormino EC, Gitler AD, Greicius MD. Confirming Pathogenicity of the F386L PSEN1 Mutation in a South Asian Family with Early-Onset Alzheimer's Disease. *Neurology Genetics*. p647. 2021
6. Le Guen Y*, **Belloy ME***, Napolioni V, Eger SJ, Kennedy G, Tao R, He Z, Greicius MD, for the Alzheimer's disease Neuroimaging Initiative. A novel age-informed approach for genetic association analysis in Alzheimer's disease. *Alzheimer's Research & Therapy*. p72. 2021
*Shared first
7. He Z, Le Guen Y, Liu L, Lee J, Ma S, Yang AC, Liu X, Rutledge J, Losada PM, Song B, **Belloy ME**, Butler RR, Longo FM, Tang H, Mormino EC, Wyss-Coray T, Greicius MD, Ionita-Laza J. Genome-wide analysis of common and rare variants via multiple knockoffs at biobank-scale, with an application to Alzheimer's disease genetics. *American Journal of Human Genetics*. p2336-2353. 2021
8. Sanyal N, Napolioni V, de Rochemonteix M, **Belloy ME**, Caporaso E, Landi MT, Greicius MD, Chatterjee N, Han SS. A robust test for additive gene-environment interaction under the trend effect of genotype using an empirical Bayes-type shrinkage estimator. *American Journal of Epidemiology*. p1948-1960. 2021
9. **Belloy ME**, Eger SJ, Le Guen Y, Napolioni V, Deter KD, Yang H-S, Scelsi A, Porter T, James S-N, Wong A, Schott JM, Sperling RA, Laws SM, Mormino EC, He Z, Han SS, Altmann A, Greicius MD, for the A4 study team, the Insight 46 Study Team, the Australian Imaging Biomarkers and Lifestyle (AIBL) study, the Alzheimer's disease Neuroimaging Initiative. KL-VS Heterozygosity Reduces Brain Amyloid in Pre-Symptomatic APOE4 carriers. *Neurobiology of Aging*. p123-129. 2021
10. Le Guen Y*, Napolioni V*, **Belloy ME**, Kennedy G, Eger SJ, Greicius MD. Common X-chromosome variants are associated with Parkinson's disease risk. *Annals of Neurology*. p22-34. 2021.
*Shared First.
11. Kara F, **Belloy ME**, Voncken R, Sarwari Z, Yadav, G, Anckaerts C, Langbeen A, Leysen V, Shah D, Jacobs J, Hamaide J, Bols P, Van Audekerke J, Daans J, Guglielmetti C, Kantarci K, Prevot V, Rossner S, Ponsaerts P, Van Der Linden A, Verhoye M. Long-term deprivation of ovarian hormones via ovariectomy alters functional connectivity, brain neurochemistry and white matter integrity in a mouse model of Alzheimer's disease. *Neurobiology of Aging*. p139-150. 2021

12. Adhikari MH, **Belloy ME**, Van der Linden A, Keliris GA, Verhoye M, Resting state Co-activation Patterns as accurate predictors of late stage Alzheimer's disease in Mice. *Frontiers in Neural Circuits*. p612529. 2021
13. **Belloy ME**, Billing J, Abbas A, Kashyap A, Pan WJ, Hinz R, Vanreusel V, Van Audekerke J, Van der Linen A, Keilholz SD, Verhoye M, Keliris GA. Resting brain fluctuations are intrinsically coupled to visual response dynamics. *Cerebral Cortex*. p1511–1522. 2020
14. de Rochemonteix M, Napolioni V, Sanyal N, **Belloy ME**, Caporaso NE, Landi MT, Greicius MD, Chatterjee N, Han SS. A Likelihood Ratio Test for Gene-Environment Interaction Based on the Trend Effect of Genotype Under an Additive Risk Model Using the Gene-Environment Independence Assumption. *American Journal of Epidemiology*. p129-141. 2020
15. **Belloy ME***, Napolioni V*, Greicius MD, for the Alzheimer's disease Neuroimaging Initiative. Association of Klotho-VS Heterozygosity With Risk of Alzheimer Disease in Individuals Who Carry APOE4. *JAMA Neurology*. p849–862. 2020
*Shared First.
16. Hinz R, Peeters LM, Shah D, Missault S, **Belloy ME**, Vanreusel V, Malekzadeh M, Verhoye M, Van der Linden A, Keliris GK. Bottom-up sensory processing can induce negative BOLD responses and reduce functional connectivity in nodes of the default mode-like network in rats. *Neuroimage*. p167-176. 2019.
17. **Belloy ME**, Napolioni V, Greicius MD. A Quarter Century of APOE and Alzheimer's Disease: Progress to Date and the Path Forward. *Neuron*. p820-838. 2019
18. Zinnhardt B, **Belloy ME**, Fricke IB, Orije J, Guglielmetti C, Hermann C, Schäfers M, Van der Linden A, Jacobs AH Molecular imaging of immune cell dynamics during de- and remyelination in the cuprizone model of multiple sclerosis by [18F]DPA-714 PET and MRI. *Theranostics*. p1523-1537. 2019.
19. Abbas A, **Belloy ME**, Kashyap A, Billing J, Nezafati M, Keilholz SD. Quasi-periodic patterns contribute to functional connectivity in the brain. *Neuroimage*. p193-204. 2019.
20. **Belloy ME**, Shah D, Abbas A, Kashyap A, Rosner S, Van der Linen A, Keilholz SD, Keliris GA, Verhoye M. Quasi-periodic patterns of neural activity improve classification of Alzheimer's disease in mice. *Scientific Reports*. p10024. 2018
21. **Belloy ME**, Naeyaert M, Abbas A, Shah D, Van der Linden A, Vanreusel V, van Audekerke J, Keilholz S D, Keliris G A, Verhoye M. Dynamic Resting State fMRI Analysis in Mice reveals a Set of Quasi-Periodic Patterns and illustrates Their Interaction with the Global Signal. *Neuroimage*. p463-484. 2018.

CONFERENCE ABSTRACTS

1. **Belloy ME**, Le Guen Y, Eger SJ, Napolioni V, He Z, Mormino B, Greicius, MD. GWAS of Genetic Resilience to Age-Related Risk for Alzheimer's Disease in Admixed African Ancestry Individuals. Oral presentation & abstract. AAIC, San Diego, CA, USA (2022)
2. **Belloy ME**, Le Guen Y, Greicius MD, Altmann A. No added value of Sex and APOE*4 stratification for Alzheimer's Disease Genetic Risk Scores. abstract. AAIC, San Diego, CA, USA (2022)
3. Le Guen Y, **Belloy ME**, Eger SJ, Chen A, Kennedy G, Farrer LA, Napolioni V, He Z, Greicius, MD. Rare missense variant (R251G) on APOE counterbalances the Alzheimer's disease risk associated with APOE-ε4. abstract. AAIC, San Diego, CA, USA (2022)
4. Le Guen Y, **Belloy ME**, Eger SJ, Chen A, Kennedy G, Thornton T, Farrer LA, Napolioni V, He Z, Greicius, MD. APOE missense variant R145C is associated with increased Alzheimer's disease risk in African ancestry individuals with the APOE 3/4 genotype. abstract. AAIC, San Diego, CA, USA (2022)

5. Le Guen Y, [...], **Belloy ME**, [...], et al. Protective association of HLA-DRB1*04 subtypes in neurodegenerative diseases implicates acetylated Tau PHF6 sequences. abstract. AAIC, San Diego, CA, USA (2022)
6. Talyansky S, Le Guen Y, Pham K, **Belloy ME**, Kasireddy N, Greicius MD. Overlap of genetic risk for Lewy body and Alzheimer's disease pathology. abstract. AAIC, San Diego, CA, USA (2022)
7. **Belloy ME**, Le Guen Y, Eger SJ, Napolioni V, He Z, Mormino B, Greicius, MD. GWAS of Genetic Resilience to Age-Related Risk for Alzheimer's Disease in African-Americans. Oral presentation & abstract. ADPD, Barcelona, Spain (2022)
8. **Belloy ME**, Le Guen Y, Eger SJ, He Z, Greicius, MD. Improved Alzheimer's and Parkinson's disease GWAS approach in UK Biobank detects additional genetic risk loci. ePoster & abstract. ADPD, Barcelona, Spain (2022)
9. Le Guen Y, **Belloy ME**, Eger SJ, Chen A, Kennedy G, Farrer LA, Napolioni V, He Z, Greicius, MD. Rare missense variant (R251G) on *APOE* counterbalances the Alzheimer's disease risk associated with *APOE* $\epsilon 4$. abstract. ADPD, Barcelona, Spain (2022)
10. Le Guen Y, **Belloy ME**, Eger SJ, Chen A, Kennedy G, Thornton T, Farrer LA, Napolioni V, He Z, Greicius, MD. *APOE* missense variant R145C is associated with increased Alzheimer's disease risk in African ancestry individuals with the *APOE* $\epsilon 3/\epsilon 4$ genotype. abstract. ADPD, Barcelona, Spain (2022)
11. **Belloy ME**, Eger SJ, Le Guen Y, Kennedy G, Summer H, Napolioni V, Greicius MD. *APOE**4-stratified genome-wide association study of Alzheimer's disease in over 350,000 individuals. ePoster & abstract & **award**. AAIC, Virtual (2021)
12. Le Guen Y, **Belloy ME**, Eger SJ, Kennedy G, He Z, Napolioni V, Greicius MD. A novel age-informed approach for genetic association analysis in Alzheimer's disease. ePoster & abstract. AAIC, Virtual (2021)
13. Eger SJ, Le Guen Y, **Belloy ME**, Napolioni V, Greicius MD. Rare TBK1 Variant May Confer Protection in an *APOE**4+ Family. ePoster & abstract. AAIC, Virtual (2021)
14. Le Guen Y, Eger SJ, **Belloy ME**, Kennedy G, Tao R, He Z, Napolioni V, Greicius MD. Sex-heterogenous effect on Alzheimer's Disease risk at the BIN1 locus. ePoster & abstract. AAIC, Virtual (2021)
15. **Belloy ME**, Eger SJ, Le Guen Y, Napolioni V, Greicius MD. Association of *APOE* splice QTLs with Alzheimer's disease risk in *APOE* 4/4 carriers. Oral presentation & abstract & **award**. ADPD, Virtual (2021)
16. **Belloy ME**, Eger SJ, Le Guen Y, Napolioni V, Deter KD, Yang H-S, Scelsi A, Porter T, James S-N, Wong A, Schott JM, Sperling RA, Laws SM, Mormino EC, He Z, Han SS, Altmann A, Greicius MD. KL-VS Heterozygosity Associates with Reduced Brain Amyloid in Pre-Symptomatic *APOE*4 carriers. ePoster & abstract. ADPD, Virtual (2021)
17. Le Guen Y, **Belloy ME**, Napolioni V, Eger SJ, Kennedy G, Tao R, He Z, Greicius MD. A novel age-informed approach for genetic association analysis in Alzheimer's disease. Oral presentation & abstract. ADPD, Virtual (2021)
18. Adhikari MH, **Belloy ME**, Van der Linden A, Keliris GA, Verhoye M, Resting state Co-activation Patterns as accurate predictors of late stage Alzheimer's disease in Mouse Models. ePoster & abstract. ADPD, Virtual (2021)
19. **Belloy ME**, Eger SJ, Le Guen Y, Napolioni V, Greicius MD. Association of *APOE* splice QTLs with Alzheimer's disease risk. Poster, Pioneering NeuroHealth: 2020 Wu Tsai Neurosciences Institute Symposium, Stanford, CA, USA (2020)
20. Eger SJ, **Belloy ME**, Le Guen Y, Napolioni V, Deters KD, Mormino EC, Greicius MD. Klotho-VS heterozygosity reduces brain amyloid in pre-symptomatic *APOE*4 Carriers. Poster, Pioneering NeuroHealth: 2020 Wu Tsai Neurosciences Institute Symposium, Stanford, CA, USA (2020)

21. Le Guen, Y, Russo S, **Belloy ME**, Napolioni V, Greicius MD. Genetic underpinnings of human resting-state connectivity. Poster, Pioneering NeuroHealth: 2020 Wu Tsai Neurosciences Institute Symposium, Stanford, CA, USA (2020)
22. **Belloy ME**, Eger SJ, Le Guen Y, Napolioni V, Greicius MD. Two *APOE* splice sQTLs reduce Alzheimer's disease risk in *APOE* 4/4 carriers. Poster & abstract. AAIC, Virtual (2020)
23. Eger SJ, **Belloy ME**, Le Guen Y, Napolioni V, Deters KD, Mormino EC, Greicius MD. Klotho-VS Decreases Probability of Amyloid PET Positivity in APOE4+ Controls. Poster & abstract. AAIC, Virtual (2020)
24. Le Guen Y, Napolioni V, **Belloy ME**, Eger SJ, Kennedy G, Morgan K, Greicius MD. *RPS16* and *NOL6* splice region variants are associated with early onset Alzheimer's Disease. Oral presentation & abstract. AAIC, Virtual (2020)
25. Kara F, **Belloy ME**, Voncken R, Sarwari Z, Yadav, G, Anckaerts C, Langbeen A, Leysen V, Shah D, Jacobs J, Hamaide J, Bols P, Van Audekerke J, Daans J, Guglielmetti C, Kantarci K, Prevot V, Rossner S, Ponsaerts P, Van Der Linden A, Verhoye M. Long-term deprivation of ovarian hormones via ovariectomy alters functional connectivity, brain neurochemistry and white matter integrity in a mouse model of Alzheimer's disease. Oral presentation & abstract. AAIC, Virtual (2020)
26. Adhikari MH, **Belloy ME**, Van der Linden A, Keliris GA, Verhoye M, Resting state Co-activation Patterns as accurate predictors of late stage Alzheimer's disease. Poster & abstract. AAIC, Virtual (2020)
27. Sanyal N, Napolioni V, de Rochemonteix M, **Belloy ME**, Greicius MD, Chetterjee N, Han SS. A robust test for additive gene-environment interaction under the trend effect of genotype using an empirical Bayes-type shrinkage estimator. Poster & abstract. Joint Statistical Meetings, Virtual (2020)
28. **Belloy ME**, Napolioni V, Le Guen Y, Kim Y, Greicius MD, for the Alzheimer's Disease Neuroimaging Initiative. *APOE4*-stratified genome-wide association study of late-onset Alzheimer's disease in northwestern Europeans reveals novel suggestive protective loci. Poster & abstract. AAIC, Los Angeles, CA, USA (2019)
29. **Belloy ME**, Napolioni V, Altmann A, Greicius MD, for the Alzheimer's Disease Neuroimaging Initiative. Identification of three novel genetic loci associated with global brain glucose metabolism. Poster & abstract. OHBM, Rome, Italy (2019)
30. **Belloy ME**, Yousefi B, Billings J, Hinz R, Van der Linden A, Keilholz S, Keliris G, Verhoye M. Whole brain Quasi-Periodic patterns interact with visual stimulation processing in mice. Oral presentation & abstract. ISMRM 26th annual meeting & exhibition, Paris, France (2018)
31. **Belloy M**, Shah D, Yousefi B, Abbas B, Kashyap A, Van der Linden A, Keilholz S, Keliris G, Verhoye M. Quasi-Periodic patterns contribute to rsfMRI functional connectivity in a mouse model of Alzheimer's disease. Electronic poster & abstract. ISMRM 26th annual meeting & exhibition, Paris, France (2018)
32. **Belloy ME**, Yousefi B, Van der Linden A, Keliris G, Verhoye M., Keilholz S. Regression of Quasi-Periodic patterns diminishes BOLD functional connectivity and reveals hidden dynamic correlations. Electronic poster & abstract. ISMRM 26th annual meeting & exhibition, Paris, France (2018)
33. **Belloy ME**, Naeyaert M, Keliris G A, Abbas A, Keilholz S D, Van der Linden A, Verhoye M. Dynamic resting state fMRI in mice reveals Large-Scale Quasi-periodic patterns. Oral presentation & abstract. BMIC Brussels, Belgium (2017)
34. **Belloy ME**, Naeyaert M, Keliris G A, Abbas A, Keilholz S D, Van der Linden A, Verhoye M. Dynamic resting state fMRI in mice: Detection of Quasi-periodic patterns. Oral presentation & abstract. ISMRM 25th annual meeting & exhibition, Honolulu, HI, USA (2017)
35. Kara F, **Belloy ME**, Yadav G, Langbeen A, Jacobs J, Shah D, Roßner S, Ponsaerts P, Verhoye M, Van der Linden A. titled "Hypothalamic-Pituitary-Gonadal Axis Deregulation Alters Resting State Functional Connectivity in a Mouse Model of Alzheimer's Disease.

Electronic Poster & abstract. ISMRM 25th annual meeting & exhibition, Honolulu, HI, USA (2017)

36. Jonckers E, **Belloy ME**, Dsouza D, Verhoye M, Mueggler T, Van der Linden A. Cocaine applied in a “binge paradigm” induces a region-specific and persistent brain’. Poster & abstract. ISMRM 25th annual meeting & exhibition, Honolulu, HI, USA (2017)
37. Zinnhardt B, **Belloy ME**, Orije J, Fricke I B, Hermann S, van der Linden A, Jacobs A H. Investigating the temporal profile of imaging biomarkers in the cuprizone model of demyelination. Poster & abstract. 12th annual meeting of EMIM, Cologne, Germany (2017)
38. **Belloy ME**, Kara F, Langbeen A, Roßner S, Van Audekerke J, Verhoye M, Van der Linden A. The effect of sex hormones and Alzheimer’s disease on hypothalamic inflammation: in vivo ¹H magnetic resonance spectroscopy in ovariectomized old-age mice. Poster & abstract. EMIM 12th annual meeting, Cologne, Germany (2017)
39. Jonckers E, **Belloy ME**, Dsouza D, Verhoye M, Mueggler T, Van der Linden A. Cocaine applied in a “binge paradigm” induces a region-specific and persistent brain circuitry modulation. Poster & abstract. EMIM 12th annual meeting, Cologne, Germany (2017)
40. Kara F, **Belloy ME**, Yadav G, Langbeen A, Jacobs J, Shah D, Roßner S, Ponsaerts P, Verhoye M, Van der Linden A. Hypothalamic-Pituitary-Gonadal Axis Deregulation Alters Resting State Functional Connectivity in a Mouse Model of Alzheimer’s Disease. Oral presentation & abstract. 12th annual meeting of EMIM, Cologne, Germany (2017)
41. **Belloy ME**, Kara F, Langbeen A, Roßner S, Van Audekerke J, Verhoye M, Van der Linden A. The effect of sex hormones and Alzheimer’s disease on hypothalamic inflammation: *in vivo* ¹H magnetic resonance spectroscopy in ovariectomized old-age mice. Poster & abstract. ADPD 13th international conference, Vienna, Austria.
42. Zinnhardt B, **Belloy ME**, Orije J, Fricke I B, Hermann S, van der Linden A, Jacobs A H. Investigating the temporal profile of imaging biomarkers in the cuprizone model of demyelination. Poster & abstract. TOPIM, Les Houches, France (2017)
43. Kara F, **Belloy ME**, Yadav G, Langbeen A, Jacobs J, Shah D, Roßner S, Ponsaerts P, Verhoye M, Van der Linden A. Hypothalamic-Pituitary-Gonadal Axis Deregulation Alters Resting State Functional Connectivity in a Mouse Model of Alzheimer’s Disease. Poster & abstract, ISMRM 25th annual meeting & exhibition, Honolulu, HI, USA (2017)
44. Jonckers E, **Belloy ME**, Dsouza D, Verhoye M, Mueggler T, Van der Linden A. Cocaine applied in a “binge paradigm” induces a region-specific and persistent brain circuitry modulation. Poster & abstract. ISMRM Benelux, Tilburg, Holland (2017)
45. **Belloy ME**, Naeyaert M, Keliris G A, Abbas A, Keilholz S D, Van der Linden A, Verhoye M. Dynamic resting state fMRI in mice: Detection of Quasi-periodic patterns. Oral presentation & abstract. ISMRM 25th annual meeting & exhibition, Honolulu, HI, USA (2017)

CONFERENCE AND WORKSHOP ATTENDANCE PRE-2017

1. Functional MRI in mice – setup, animal preparation and monitoring, workshop held at the University of Zurich, ETH, Germany (2016)
2. Dynamic functional connectivity symposium, satellite event held at the fifth biennial conference on resting state and brain connectivity. Vienna, Austria (2016)
3. ISMRM Benelux Chapter, Eindhoven, Holland (2016)
4. Second Belgian Neuroinformatics Congress, held at Irish college in Leuven, Belgium (2015)
5. 11th National Congress of the BSN, Mons, Belgium (2015)
6. ISMRM Benelux Chapter, Gent, Belgium (2015)
7. NERF neurotechnology symposium, IMEC, Leuven, Belgium (2014)
8. The 8th International Meeting on Substrate-Integrated Micro Electrode Arrays (MEA Meeting), Reutlingen, Germany (2012)

9. The 1st training workshop of the EC-FP&-PEOPLE “NAMASEN” Marie Curie Initial Training Network, entitled: Neurotechnologies for neuroelectronic hybrid & neuroprosthetics, NMI, Reutlingen, Germany (2012)
10. NERF neurotechnology symposium, IMEC, Leuven, Belgium (2012)

LANGUAGES

Dutch	Native (spoken and written)
English	Fluent (spoken and written)
French	Average - Good (spoken and written)