

Suzanne L. Baker
Staff Scientist
Lawrence Berkeley National Laboratory

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Berkeley, CA 94720

Undergraduate Education

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|--------------------------------------|----|------|------------------------|
| Tulane University New Orleans, LA | BS | 1997 | Biomedical Engineering |
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Graduate School Education

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| University of California, Berkeley Berkeley, CA | PhD | 2003 | Vision Science |
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Professional Positions

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|---|------------------------------|--------------|
| University of California, Berkeley Berkeley, CA Berkeley Imaging Center and Helen Wills Neuroscience Department | Postdoctoral Fellow | 2003-2005 |
| Lawrence Berkeley National Lab Berkeley, CA Center for Functional Imaging | Senior Research Associate | 2005-2007 |
| Lawrence Berkeley National Lab Berkeley, CA Center for Functional Imaging | Principal Research Associate | 2007-2011 |
| Lawrence Berkeley National Lab Berkeley, CA Center for Functional Imaging | Staff Research Associate | 2011-2017 |
| Lawrence Berkeley National Lab Berkeley, CA Molecular Biophysics and Integrated Bioimaging | Research Scientist | 2017-2020 |
| Lawrence Berkeley National Lab Berkeley, CA Molecular Biophysics and Integrated Bioimaging | Staff Scientist | 2020-present |
| Genentech South San Francisco, CA | Consulting | 2017-present |
| Georgia Tech Atlanta, GA | Consulting | 2020 |

Research Interests: Pharmacokinetic modeling, PET tracer evaluation, partial volume correction, image processing. Imaging techniques: PET, MRI, fMRI. Aging and dementia

Current Research Funding:

Co-Investigator, SCAN: Standardized centralized Alzheimer's and related dementias neuroimaging U24 funded by the National Institute of Aging. 2020-2025

Co-Investigator, Four-repeat tauopathy Neuroimaging Initiative U01 funded by the National Institute on Aging 2020-2021.

Peer Review:

Journals: Journal of Nuclear Medicine, Annals of Neurology, Brain Communications, European Journal of Nuclear Medicine, Frontiers Aging Neuroscience, Journal of Neurology, JAMA, Molecular Imaging and Biology, Current Alzheimer Research, Neuroimage

Articles

2021:

Iaccarino L, La Joie R, Edwards L, Strom A, Schonhaut DR, Ossenkoppele R, Pham J, Mellinger T, Janabi M, **Baker SL**, Soleimani-Meigooni D, Rosen HJ, Miller BL, Jagust WJ, Rabinovici GD. Spatial Relationships between Molecular Pathology and Neurodegeneration in the Alzheimer's Disease Continuum. Cereb Cortex. 2021 Jan 1; 31(1):1-14. doi: 10.1093/cercor/bhaa184.

2020:

Harrison TM, Du R, Klencklen G, **Baker SL**, Jagust WJ. Distinct effects of beta-amyloid and tau on cortical thickness in cognitively healthy older adults. Alzheimers Dement. 2020 Dec 15. doi: 10.1002/alz.12249

Soleimani-Meigooni DN, Iaccarino L, La Joie R, **Baker S**, Bourakova V, Boxer AL, Edwards L, Eser R, Gorno-Tempini ML, Jagust WJ, Janabi M, Kramer JH, Lesman-Segev OH, Mellinger T, Miller BL, Pham J, Rosen HJ, Spina S, Seeley WW, Strom A, Grinberg LT, Rabinovici GD. ¹⁸F-flortaucipir PET to autopsy comparisons in Alzheimer's disease and other neurodegenerative diseases. Brain 2020 Dec 5; 142(11):3477-3494. doi: 10.1093/brain/awaa276.

La Joie R, Visani AV, Lesman-Segev OH, **Baker SL**, Edwards L, Iaccarino L, Soleimani-Meigooni DN, Mellinger T, Janabi M, Miller ZA, Perry DC, Pham J, Strom A, Gorno-Tempini ML, Rosen HJ, Miller BL, Jagust WJ, Rabinovici GD. Association of APOE4 and clinical variability in Alzheimer disease with the pattern of tau- and amyloid-PET. Neurology. 2020 Dec 1. doi: 10.1212/WNL.00000000000011270

Yoon B, **Baker SL**, Korman D, Tennant VR, Harrison TM, Landau S, Jagust WJ. Conscientiousness is associated with less amyloid deposition in cognitively normal aging. Psychol Aging. 2020 Nov; 35(7): 993-999. doi: 10.1037/pag0000582.

Sonni I, Lesman Segev OH, **Baker SL**, Iaccarino L, Korman D, Rabinovici GD, Jagust WJ, Landau SM, La Joie R. Evaluation of a visual interpretation method for tau-PET with ¹⁸F-flortaucipir. Alzheimers Dement. 2020 Nov 28; 12(1): e12133. doi: 10.1002/dad2.12133.

Chen X, Cassady K, Adams JN, Harrison TM, **Baker SL**, Jagust WJ. Regional Tau Effects on Prospective Cognitive Change in Cognitively Normal Older Adults. *J Neurosci*. 2020 Nov 20; JN-RM-2111-20. doi: 10.1523/JNEUROSCI.2111-20.2020.

Winer JR, Mander BA, Kumar S, Reed M, **Baker SL**, Jagust WJ, Walker MP. Sleep Disturbance Forecasts β -Amyloid Accumulation across Subsequent Years. *Curr Biol*. 2020 Nov 2; 30(21):4291-4298.e3. doi: 10.1016/j.cub.2020.08.017. Epub 2020 Sep 3. PMID: 32888482

Guo T, Korman D, **Baker SL**, Landau SM, Jagust WJ. Longitudinal Cognitive and Biomarker Measurements Support a Unidirectional Pathway in Alzheimer's Disease Pathophysiology. *Biol Psychiatry*. 2020 Jul 12; S0006-3223(20)31739-X. doi: 10.1016/j.biopsych.2020.06.029.

Wilson KN, **Baker SL**, Kondolf GM. The ideal meander: Exploring freshwater scientists drawings of river restoration. *Freshwater Science*. 2020 May 8. doi: 10.1086/709012

Pereira JB, Harrison TM, La Joie R, **Baker SL**, Jagust WJ. Spatial patterns of tau deposition are associated with amyloid, ApoE, sex, and cognitive decline in older adults. *Eur J Nucl Med Mol Imaging*. 2020 Jan 8. doi: 10.1007/s00259-019-04669-x. PMID: 31915896

La Joie R, Visani AV, **Baker SL**, Brown JA, Bourakova V, Cha J, Chaudhary K, Edwards L, Iaccarino L, Janabi M, Lesman-Segev OH, Miller ZA, Perry DC, O'Neil JP, Pham J, Rojas JC, Rosen HJ, Seeley WW, Tsai RM, Miller BL, Jagust WJ, Rabinovici GD. Prospective Longitudinal Atrophy in Alzheimer's Disease Correlates With the Intensity and Topography of Baseline tau-PET. *Sci Transl Med*. 2020 Jan 1. doi: 10.1126/scitranslmed.aau5732. PMID: 31894103

2019:

Cho SH, Choe YS, Kim HJ, Jang H, Kim Y, Kim, SE, Kim SJ, Kim JP, Jung YH, Kim, BC, **Baker SL**, Lockhart SN, Na DL, Park S, Seo SW. A new Centiloid Method for 18F-florbetaben and 18F-flutemetamol PET Without Conversion to PIB. *Eur J Nucl Med Mol Imaging*. 2019 Dec 14. doi: 10.1007/s00259-019-04596-x. PMID: 31834446

Harrison TM, Maass A, Adams JN, Du R, **Baker SL**, Jagust WJ. Tau deposition is associated with functional isolation of the hippocampus in aging. *Nat Commun*. 2019 Oct 25;10(1):4900. doi: 10.1038/s41467-019-12921-z. PMID: 31653847

Lesman-Segev OH, La Joie R, Stephens ML, Sonni I, Tsai R, Bourakova V, Visani AV, Edwards L, O'Neil JP, **Baker SL**, Gardner RC, Janabi M, Chaudhary K, Perry DC, Kramer JH, Miller BL, Jagust WJ, Rabinovici GD. Tau PET and multimodal brain imaging in patients at risk for chronic traumatic encephalopathy. *Neuroimage Clin*. 2019 Oct 17;24:102025. doi: 10.1016/j.nicl.2019.102025. PMID: 31670152

Shokouhi S, Conley AC, **Baker SL**, Albert K, Kang H, Gwirtsman HE, Newhouse PA. The relationship between domain-specific subjective cognitive decline and Alzheimer's pathology in normal elderly adults. *Neurobiol Aging*. 2019 Sep;81:22-29. doi: 10.1016/j.neurobiolaging.2019.05.011. PMID: 31207466

Adams JN, Maass A, Harrison TM, **Baker SL**, Jagust WJ. Cortical tau deposition follows patterns of entorhinal functional connectivity in aging. *Elife*. 2019 Sep 2;8. pii: e49132. doi: 10.7554/eLife.49132. PMID:31475904

Winer JR, Mander BA, Helfrich RF, Maass A, Harrison TM, **Baker SL**, Knight RT, Jagust WJ, Walker MP. Sleep as a Potential Biomarker of Tau and β -Amyloid Burden in the Human Brain. J Neurosci. 2019 Aug 7;39(32):6315-6324. doi: 10.1523/JNEUROSCI.0503-19.2019. PMID: 31209175

Maass A, Berron D, Harrison TM, Adams JN, La Joie R, **Baker S**, Mellinger T, Bell RK, Swinnerton K, Inglis B, Rabinovici GD, Düzel E, Jagust WJ. Alzheimer's pathology targets distinct memory networks in the ageing brain. Brain. 2019 Aug 1;142(8):2492-2509. doi: 10.1093/brain/awz154. PMID: 31199481

Baker SL, Harrison TM, Maaß A, La Joie R, Jagust W. Effect of off-target binding on ^{18}F -Flortaucipir variability in healthy controls across the lifespan. J Nucl Med. 2019 Mar 15. pii: jnumed.118.224113. doi: 10.2967/jnumed.118.224113. PMID: 30877180

He M, **Baker SL**, Shah VD, Lockhart SN, Jagust WJ. Scan-time Corrections for 80-100 Minute Standardized Uptake Volume Ratios to Measure the ^{18}F -AV-1451 Tracer for Tau Imaging. IEEE Trans Med Imaging. 2019 Mar; 38(3):697-709. doi: 10.1109/TMI.2018.2870441. PMID: 30235119

Harrison TM, La Joie R, Maass A, **Baker SL**, Swinnerton K, Fenton L, Mellinger TJ, Edwards L, Pham J, Miller BL, Rabinovici GD, Jagust WJ. Longitudinal tau accumulation and atrophy in aging and alzheimer disease. Ann Neurol. 2019 Feb;85(2):229-240. doi: 10.1002/ana.25406. Epub 2019 Jan 17. PMID: 30597624

Tsai RM, Bejanin A, Lesman-Segev O, LaJoie R, Visani A, Bourakova V, O'Neil JP, Janabi M, **Baker S**, Lee SE, Perry DC, Bajorek L, Karydas A, Spina S, Grinberg LT, Seeley WW, Ramos EM, Coppola G, Gorno-Tempini ML, Miller BL, Rosen HJ, Jagust W, Boxer AL, Rabinovici GD. ^{18}F -flortaucipir (AV-1451) tau PET in frontotemporal dementia syndromes. Alzheimers Res Ther. 2019 Jan 31. 11(1): 13. doi: 10.1186/s13195-019-0470-7. PMID: 30704514

Ossenkoppele R, Iaccarino L, Schonhaut DR, Brown JA, La Joie R, O'Neil JP, Janabi M, **Baker SL**, Kramer JH, Gorno-Tempini ML, Miller BL, Rosen HJ, Seeley WW, Jagust WJ, Rabinovici GD. Tau covariance patterns in Alzheimer's disease patients match intrinsic connectivity networks in the healthy brain. Neuroimage Clin. 2019;23:101848. doi: 10.1016/j.nicl.2019.101848. PMID: 31077982

2018:

Harrison TM, Maass A, **Baker SL**, Jagust WJ. Brain morphology, cognition, and β -amyloid in older adults with superior memory performance. Neurobiol Aging. 2018 Mar 27;67:162-170. doi: 10.1016/j.neurobiolaging.2018.03.024. PMID 29665578

Berry AS, Shah VD, Furman DJ, White RL, **Baker SL**, O'Neil JP, Janabi M, D'Esposito M, Jagust WJ. Dopamine synthesis capacity is associated with D2/3 receptor binding but dopamine release. Neuropsychopharmacology. 2018 <au>; 43(6):1201-1211. doi: 10.1038/npp.2017.180. PMID: 28816243

La Joie R, Bejanin A, Fagan AM, Ayakta N, **Baker SL**, Bourakova V, Boxer AL, Cha J, Karydas A, Jerome G, Maass A, Mensing A, Miller ZA, O'Neil JP, Pham J, Rosen HJ, Tsai R, Visani AV, Miller BL, Jagust WJ, Rabinovici GD. Associations between [^{18}F]AV1451 tau PET and CSF

measures of tau pathology in a clinical sample. *Neurology*. 2018 Jan 23; 90(4): e282-e290. doi: 10.1212/WNL.0000000000004860. Epub 2017 Dec 27. PMID 29282337

Winer, JR, Maass A, Pressman P, Stiver J, Schonhaut DR, **Baker SL**, Kramer J, Rabinovici FD, Jagust WJ. Associations Between Tau, β -Amyloid, and Cognition in Parkinson Disease. *JAMA Neurol*. 2018 Feb 1; 75(2):227-235. Doi: 10.1001/jamaneurol.2017.3713. PMID 29228071

2017:

Bejanin A, Schonhaut DR, La Joie R, Kramer JH, **Baker SL**, Sosa N, Ayakta N, Cantwell A, Janabi M, Lauriola M, O'Neil JP, Gorno-Tempini ML, Miller ZA, Rosen JH, Miller BL, Jagust WJ, Rabinovici GD. Tau pathology and neurodegeneration contribute to cognitive impairment in Alzheimer's disease. *Brain*. 2017 Dec 1; 140(12):3286-3300. doi: 10.1093/brain/awx243. PMID: 29053874

Maass A, Lockhart SN, Harrison T, Bell R, Mellinger T, Swinnerton K, **Baker SL**, Rabinovici GD, Jagust WJ, Entorhinal tau pathology, episodic memory decline and neurodegeneration in aging. *JNeurosci*. 2017 Nov 30. Pii: 2028-17. doi: 10.1523/JNEUROSCI.2028-17-201. PMID 29192126

Baker SL, Maass A, Jagust WJ. Considerations and Code for Partial Volume Correcting [18F]-AV-1451 data. *Neuroimage*. 2017 Oct 16; 15:648-657. Doi: 10.1016/j.dib.2017.10.024. PMID 29124088

Iaccarino L, Tammewar G, Ayakta N, **Baker SL**, Boxer A, Gorno-Tempini ML, Bejanin A, Janabi M, Kramer J, Lockhart S, Miller B, Miller Z, O'Neil JP, Ossenkoppele R, Rosen H, Schonhaut D, Jagust WJ, Rabinovici GD. Local and distant relationships between amyloid, tau and neurodegeneration in Alzheimer's Disease. *Neuroimage: Clinical*. 2017 Sep 25; 17:452-464. Doi: 10.1015/j.nicl.2017.09.016. PMID 29159058

Schonhaut DR, McMillan CT, Spina S, Dickerson BC, Siderowf A, Devous MD Sr, Tsai R, Winer J, Russell DS, Litvan I, Roberson ED, Seeley WW, Grinberg LT, Kramer JH, Miller BL, Pressman P, Nasrallah I, **Baker SL**, Gomperts SN, Johnson KA, Grossman M, Jagust WJ, Boxer AL, Rabinovici GD. ^{18}F -flortaucipir tau PET distinguishes established progressive supranuclear palsy from controls and Parkinson's disease: A multicenter study. *Ann Neurol*. 2017 Oct 5. PMID 28980714

Berry A, Shah V, Furman D, White R, **Baker SL**, O'Neil JP, Janabi M, D'Esposito M, Jagust WJ. Dopamine synthesis capacity is associated with D2/3 receptor binding but not dopamine release. *Neuropsychopharmacology*. 2017 Aug 17. PMID 28816243

Maass A, Landau S, **Baker SL**, Horng A, Lockhart SN, La Joie R, Rabinovici GD, Jagust WJ. Comparison of multiple tau-PET measures as biomarkers in aging and Alzheimer's disease. *Neuroimage*. 2017 June 3; 157:448-463. PMID 28587897

Lockhart SN, Schöll M, **Baker SL**, Ayakta N, Swinnerton KN, Bell RK, Mellinger TJ, Shah VD, O'Neil JP, Janabi M, Jagust WJ. Amyloid and tau PET demonstrate region-specific associations in normal older people. *Neuroimage*. 2017 Feb 21; 150:191-199. PMID 28232190

Marks SM, Lockhart SN, **Baker SL**, Jagust WJ. Tau and β -amyloid are associated with medial temporal lobe structure, function and memory encoding in normal aging. *J Neurosci*. 2017 Feb

17; pii: 3769-16. doi: 10.1523/JNEUROSCI.3769-16.2017. [Epub ahead of print] PMID: 28213439

Baker SL, Lockhart SN, Price JC, He M, Huesman RH, Schonhaut D, Faria J, Rabinovici G, Jagust WJ. Reference tissue-based kinetic evaluation of 18F-AV-1451 in aging and dementia. J Nucl Med. 2017 Feb; 58(2):332-338. PMID 27587706

2016:

Berry AS, Shah VD, **Baker SL**, Vogel JW, O'Neil JP, Janabi M, Schwimmer HD, Marks SM, Jagust WJ. Aging Affects Dopaminergic Neural Mechanisms of Cognitive Flexibility. J Neurosci. 2016 Dec 14; 36(50):12559-12569. PMID: 27807030

Lockhart SN, **Baker SL**, Okamura N, Furukawa K, Ishiki A, Furumoto S, Tahiro M, Tanai K, Arai H, Kudo Y, Harada R, Tomita N, Kiraoka K, Watanuki S, Jagust WJ. Dynamic PET Measures of Tau Accumulation in Cognitively Normal Older Adults and Alzheimer's Disease Patients Measured Using [18F] THK5351. PLoS One. 2016 Jun 29;11(6):e0158460. PMID: 27355840

Ossenkoppele R, Schonhaut DR, Schöll M, Lockhart SN, Ayakta N, **Baker SL**, O'Neil JP, Janabi M, Lazaris A, Cantwell A, Vogel J, Santos M, Miller ZA, Bettcher BM, Vessel KA, Kramer JH, Gorno-Tempini ML, Miller BL, Jagust WJ, Rabinovici GD. Tau PET patterns mirror clinical and neuroanatomical variability in Alzheimer's disease. Brain. 2016 May;139(pt 5):1551-67. PMID: 26962052

Schöll M, Lockhart SN, Schonhaut DR, O'Neil JP, Janabi M, Ossenkoppele R, **Baker SL**, Vogel JW, Faria J, Schwimmer HD, Rabinovici GD, Jagust WJ. PET imaging of Tau Deposition in the Aging Human Brain. Neuron. 2016 Mar 2;89(5):971-82. PMID: 26938442

Shokouhi S, McKay JW, **Baker SL**, Kang H, Brill AB, Gwirtsman HE, Riddle WR, Claassen DO, Rogers BP; Alzheimer's Disease Neuroimaging Initiative. Reference tissue normalization in longitudinal (18F)-florbetapir positron emission tomography of late mild cognitive impairment. Alzheimers Res Ther. 2016 Jan 15;8(1):2 PMID: 26768154

Elman JA, Madison CM, **Baker SL**, Vogel JW, Marks SM, Crowley S, O'Neil JP, Jagust WJ. Effects of Beta-Amyloid on Resting State Functional Connectivity Within and Between Networks Reflect Known Patterns of Regional Vulnerability. Cereb Cortex. 2016 Feb;26(2):695-707. PMID: 25405944

2015:

Boutchko R, Mitra D, **Baker SL**, Jagust WJ, Gullberg GT. Clustering-initiated factor analysis application for tissue classification in dynamic brain positron emission tomography. J Cereb Blood Flow Metab. 2015 Jul;35(7):1104-11. PMID: 25899294

Landau SM, Fero A, **Baker SL**, Koeppe R, Mintun M, Chen K, Reiman EM, Jagust WJ. Measurement of longitudinal β -amyloid change with 18F-florbetapir PET and standardized uptake value ratios. J Nucl Med. 2015 Apr;56(4):567-74. PMID: 25745095

Ossenkoppele R, Schonhaut DR, **Baker SL**, O'Neil JP, Janabi M, Ghosh PM, Santos M, Miller ZA, Bettcher BM, Gorno-Tempini ML, Miller BL, Jagust WJ, Rabinovici GD. Tau, amyloid, and hypometabolism in a patient with posterior cortical atrophy. Ann Neurol. 2015 Feb;77(2):338-42. PMID: 25448043

2014:

Elman JA, Oh H, Madison CM, **Baker SL**, Vogel JW, Marks SM, Crowley S, O'Neil JP, Jagust WJ. Neural compensation in older people with brain amyloid- β deposition. Nat Neurosci. 2014 Oct;17(10):1316-8. PMID: 25217827

Landau SM, Thomas BA, Thurfjell L, Schmidt M, Margolin R, Mintun M, Pontecorvo M, **Baker SL**, Jagust WJ; Alzheimer's Disease Neuroimaging Initiative. Amyloid PET imaging in Alzheimer's disease: a comparison of three radiotracers. Eur J Nucl Med Mol Imaging. 2014 Jul;41(7):1398-407. PMID: 24647577

2012:

Mormino EC, Brandel MG, Madison CM, Marks S, **Baker SL**, Jagust WJ. A β Deposition in aging is associated with increases in brain activation during successful memory encoding. Cereb Cortex. 2012 Aug;22(8):1813-23. PMID: 21945849

Bailey MJ, van der Weegen R, Klemm PJ, **Baker SL**, Helms BA. Stealth Rare Earth Oxide Nanodiscs for Magnetic Resonance Imaging. Adv Healthcare Mater. 2012 May3;1:437:442. DOI 10.1002/adhm.201200039

Mittermeyer G, Christine CW, Rosenbluth KH, **Baker SL**, Starr P, Larson P, Kaplan PL, Forsayeth J, Aminoff MJ, Bankiewicz KS. Long-term evaluation of a phase 1 study of AADC gene therapy for Parkinson's disease. Hum Gene Ther. 2012 Apr;23(4):377-81. PMID: 22424171

Mormino EC, Brandel MG, Madison CM, Rabinovici GD, Marks S, **Baker SL**, Jagust WJ. Not quite PIB-positive, not quite PIB-negative: slight PIB elevations in elderly normal control subjects are biologically relevant. Neuroimage. 2012 Jan 16;59(2):1152-60. PMID: 21884802

2011:

Rosenbloom MH, Alkalay A, Agarwal N, **Baker SL**, O'Neil JP, Janabi M, Yen IV, Growdon M, Jang J, Madison C, Mormino EC, Rosen HJ, Gorno-Tempini ML, Weiner MW, Miller BL, Jagust WJ, Rabinovici GD. Distinct clinical and metabolic deficits in PCA and AD are not related to amyloid distribution. Neurology. 2011 May 24;76(21):1789-96. PMID: 21525424

Mormino EC, Smiljic A, Hayenga AO, Onami SH, Greicius MD, Rabinovici GD, Janabi M, **Baker SL**, Yen IV, Madison CM, Miller BL, Jagust WJ. Relationships between β -amyloid and functional connectivity in different components of the default mode network in aging. Cereb Cortex. 2011 Oct;21(10):2399-407. PMID: 21383234

Braskie MN, Landau SM, Wilcox CE, Taylor SD, O'Neil JP, **Baker SL**, Madison CM, Jagust WJ. Correlations of striatal dopamine synthesis with default network deactivations during working memory in younger adults. Hum Brain Mapp. 2011 Jun;32(6):947-61. PMID: 20578173

2010:

Rabinovici GD, Furst AJ, Alkalay A, Racine CA, O'Neil JP, Janabi M, **Baker SL**, Agarwal N, Bonasera SJ, Mormino EC, Weiner MW, Gorno-Tempini ML, Rosen HJ, Miller BL, Jagust WJ. Increased metabolic vulnerability in early-onset Alzheimer's disease is not related to amyloid burden. Brain. 2010 Feb;133(Pt 2):512-28. PMID: 20080878

Que EL, Gianolio E, **Baker SL**, Aime S, Chang CJ. A copper-activated magnetic resonance imaging contrast agent with improved turn-on relaxivity response and anion compatibility. Dalton Transaction. Jan 2010. 39. 469-476. PMID: 20023983

2009:

Que EL, Gianolio E, **Baker SL**, Wong AP, Aime S, Chang CJ. Copper-responsive magnetic resonance imaging contrast agents. J Am Chem Soc. 2009 Jun 24;131(24):8527-36. PMID: 19489557

Mormino EC, Kluth JT, Madison CM, Rabinovici GD, **Baker SL**, Miller BL, Koeppe RA, Mathis CA, Weiner MW, Jagust WJ; Alzheimer's Disease Neuroimaging Initiative. Episodic memory loss is related to hippocampal-mediated beta-amyloid deposition in elderly subjects. Brain. 2009 May;132(Pt 5):1310-23. PMID: 19042931

Landau SM, Lal R, O'Neil JP, **Baker S**, Jagust WJ. Striatal dopamine and working memory. Cereb Cortex. 2009 Feb;19(2):445-54. PMID: 18550595

2008:

Braskie MN, Wilcox CE, Landau SM, O'Neil JP, **Baker SL**, Madison CM, Kluth JT, Jagust WJ. Relationship of striatal dopamine synthesis capacity to age and cognition. J Neurosci. 2008 Dec 24;28(52):14320-8. PMID: 19109513

2007:

Boxer AL, Rabinovici GD, Kepe V, Goldman J, Furst AJ, Huang SC, **Baker SL**, O'neil JP, Chui H, Geschwind MD, Small GW, Barrio JR, Jagust W, Miller BL. Amyloid imaging in distinguishing atypical prion disease from Alzheimer disease. Neurology. 2007 Jul 17;69(3):283-90. PMID: 17636066

Rabinovici GD, Furst AJ, O'Neil JP, Racine CA, Mormino EC, **Baker SL**, Chetty S, Patel P, Pagliaro TA, Klunk WE, Mathis CA, Rosen HJ, Miller BL, Jagust WJ. 11C-PIB PET imaging in Alzheimer disease and frontotemporal lobar degeneration. Neurology. 2007 Apr 10;68(15):1205-12. PMID: 17420404

2006:

Baker S, Baseler H, Klein S, Carney T. Localizing Sites of Activation in Primary Visual Cortex Using Visual Evoked Potentials and Functional Magnetic Resonance Imaging. J Clin Neurophysiol. Oct, 2006. 23(5). 404-415.

Talks

Evaluation of 18F-JNJ-067 as a tau tracer. Human Amyloid Imaging. Miami, Florida. January, 2020.

Considerations when partial volume correcting. Invited talk at McGill University. Montreal, Canada. October 18, 2019.

Flortaucipir imaging. Invited talk at McGill University. Montreal, Canada. October 16, 2019.

Trials and Tribulations of Tau PET imaging. Alzheimer's Association International Conference. Los Angeles, California. July 17, 2019.

Iron, Neurodegeneration, Tau and Amyloid in patients with Alzheimer's disease. Alzheimer's Imaging Consortium. Los Angeles, California. July 13, 2019.

Pitfalls of quantification of Tau PET imaging. Invited talk at Deutsches Zentrum für Neurodegenerative Erkrankungen. Magdeburg, Germany. Dec 16, 2018.

Off-target binding in Tau PET and associations with Age. Invited talk at Stanford University. Palo Alto, CA. Nov 9, 2018.

Explaining [18f]-AV-1451 Variability in Healthy Controls across the Lifespan. Alzheimer's Imaging Consortium. Chicago, Illinois. July, 2018.

[18F]AV-1451 binding in cerebellar gray and extra-cortical areas. Human Amyloid Imaging, Miami, Florida. Jan 2017.

Applying Clustering-Initiated Factor Analysis to Tissue Classification of AV-1451 Tau PET Imaging. Society of Nuclear Medicine and Molecular Imaging. San Diego, California. June 2016.

Comparing Tau Measurements, within tracers and between. Human Amyloid Imaging. Miami, Florida. Jan 2016.

Reference Tissue-Based Kinetic Evaluation of [F-18]AV-1451 in Aging and Dementia. Brain PET, Vancouver, BC. Jun 2015.

Kinetics of AV-1451 binding in aging and dementia. Human Amyloid Imaging. Miami, Florida. Jan 2015.

Effect of White Matter Binding on Florbetapir and PIB Image Classification. Human Amyloid Imaging, Miami, Florida. Jan 2012

Comparison of visual evoked responses using dipole source localization and fMRI. Association for Research in Vision and Ophthalmology. Fort Lauderdale, Florida. May 2000.

Awards

1994-1997 – Deans List

1995-1996 – NSF Internship Award

1997 – Nathan Nissam Cohen Award for Most Outstanding Biomedical Student of the Year

1997-2000 – NIH Training Grant Award

2002 – University of California, Berkeley – Outstanding Graduate Student Instructor of the Year Award