

## JOURNAL PUBLICATIONS

1. Role of a modified ultrafast MRI brain protocol in clinical paediatric neuroimaging. Ahamed SH, **Lee KJ**, Tang PH. Clin Radiol. 2020 Dec;75(12):914-920.
2. Neural correlates of retrieval-based enhancement of autobiographical memory in older adults. Xu Q, Zhang J, Grandjean J, Tan C, Subbaraju V, Li L, **Lee KJ**, Hsieh PJ, Lim JH. Sci Rep. 2020 Jan 29;10(1):1447.
3. Determinants of intramyocellular lipid accumulation in early childhood. Michael N, Gupta V, Sadananthan SA, Sampathkumar A, Chen L, Pan H, Tint MT, **Lee KJ**, Loy SL, Aris IM, Shek LP, Yap FKP, Godfrey KM, Leow MK, Lee YS, Kramer MS, Henry CJ, Fortier MV, Seng Chong Y, Gluckman PD, Karnani N, Velan SS. Int J Obes (Lond). 2020 May;44(5):1141-1151.
4. Association Between Early Life Weight Gain and Abdominal Fat Partitioning at 4.5 Years is Sex, Ethnicity, and Age Dependent. Sadananthan SA, Tint MT, Michael N, Aris IM, Loy SL, **Lee KJ**, Shek LP, Yap FKP, Tan KH, Godfrey KM, Leow MK, Lee YS, Kramer MS, Gluckman PD, Chong YS, Karnani N, Henry CJ, Fortier MV, Velan SS. Obesity (Silver Spring). 2019 Mar;27(3):470-478.
5. Lum FM, Zhang W, Lim KC, Malleret B, Teo TH, Koh JJ, **Lee KJ**, Chua TK, Kam YW, Yee WX, Huen I, Tan JJL, Amrun SN, Prakash Kn B, Cozzone PJ, Renia L, Lee PTH, Ng LFP. Multimodal assessments of Zika virus immune pathophysiological responses in marmosets. Sci Rep. 2018 Nov 20;8(1):17125.
6. Hou W, Toh TB, Abdullah LN, Yvonne TWZ, **Lee KJ**, Guenther I, Chow EK. Nanodiamond-Manganese dual mode MRI contrast agents for enhanced liver tumor detection. Nanomedicine. 2017 Apr;13(3):783-793.
7. **Lee KJ**, Lee HL, Hennig J, Leupold J. Use of simulated annealing for the design of multiple repetition time balance steady-state free precession imaging. Magn Reson Med 2012;68(1):220-206.
8. Zahneisen B, Hugger T, **Lee KJ**, LeVan P, Reisert M, Lee HL, Assländer J, Zaitsev M, Hennig J. Singleshot concentric shells trajectories for ultrafast fMRI. Magn Reson Med 2012;68(2):484-494.

9. Maclaren J, **Lee KJ**, Luengviriya C, Speck O, Zaitsev M. Combined Prospective and Retrospective Motion Correction to Relax Navigator Requirements. *Magn Reson Med* 2011;65(6):1724-32.
10. Zahneisen B, Grotz T, **Lee KJ**, Ohlendorf S, Reisert M, Zaitsev M, Hennig J. Three-dimensional MRencephalography: fast volumetric brain imaging using rosette trajectories. *Magn Reson Med*. 2011 May;65(5):1260-8.
11. **Lee KJ**, Zahneisen B, Hennig J, Weigel M, Leupold J. Multiplex RARE: a simultaneous multislice spinecho sequence that fulfils CPMG conditions. *Magn Reson Med* 2010;64(1):299-305.
12. Ajraoui S, **Lee KJ**, Deppe MH, Parnell SR, Parra-Robles J, Wild JM. Compressed sensing in hyperpolarized <sup>3</sup>He lung MRI. *Magn Reson Med*. 2010 Apr;63(4):1059-69.
13. Deppe MH, Teh K, Parra-Robles J, **Lee KJ**, Wild JM. Slice profile effects in 2D slice-selective MRI of hyperpolarized nuclei. *J Magn Reson*. 2010 Feb;202(2):180-9.
14. Paley MN, Wild JM, **Lee KJ**, Griffiths PD, Whitby EH. SNR phase order k-space encoding (SPOKE). *Magn Reson Imaging*. 2007 Dec;25(10):1402-8.
15. **Lee KJ**. General parameter relations for the Shinnar-Le Roux pulse design algorithm. *J Magn Reson* 2007;186(2):252-258.
16. **Lee KJ**, Barber DC, Walton L. Automated gamma knife radiosurgery treatment planning with image registration, data-mining, and Nelder-Mead simplex optimization. *Med Phys* 2006;33(7):2532-2540.
17. Paley MN, **Lee KJ**, Wild JM, Griffiths PD, Whitby EH. Simultaneous parallel inclined readout image technique. *Magn Reson Imaging*. 2006 Jun;24(5):557-62.
18. Teh K, **Lee KJ**, Paley MN, Wild JM. Parallel imaging of hyperpolarized helium-3 with simultaneous slice excitation. *Magn Reson Med*. 2006 Feb;55(2):258-62.
19. Nagaraja S, **Lee KJ**, Coley SC, Capener D, Walton L, Kemeny AA, Wilkinson ID, Griffiths PD. Stereotactic radiosurgery for brain arteriovenous malformations: quantitative MR assessment of nodal response at one year and angiographic factors predicting early obliteration. *Neuroradiology* 2006; 48(11):821-9.

20. **Lee KJ**, Paley MN, Wild JM. Combined simulated annealing and Shinnar-Le Roux pulse design of slice-multiplexed RF pulses for multi-slice imaging. *J Magn Reson* 2006;182(1):133-142.
21. **Lee KJ**, Paley MN, Griffiths PD, Wild JM. Method of generalized projections algorithm for image based reduction of artifacts in radial imaging. *Magn Reson Med* 2005;54(1):246-250.
22. **Lee KJ**, Wild JM, Griffiths PD, Paley MN. Simultaneous multislice imaging with slice-multiplexed RF pulses. *Magn Reson Med* 2005;54(4):755-760.
23. **Lee KJ**, Papadakis NG, Barber DC, Wilkinson ID, Griffiths PD, Paley MNJ. A method of generalized projections (MGP) ghost correction algorithm for interleaved EPI. *IEEE Transactions on Medical Imaging* 2004;23(7):839-848.
24. **Lee KJ**, Paley MNJ, Barber DC, Wilkinson ID, Griffiths PD. Target field design for MAMBA step fields. *Concepts Magn Reson Part B* 2004;20B(1):1-8.
25. **Lee KJ**, Paley MN, Wilkinson ID, Griffiths PD. Magnetic resonance imaging with stepped B-0 fields. *Magn Reson Imaging* 2003;21(6):625-629.
26. **Lee KJ**, Paley MN, Wilkinson ID, Griffiths PD. Fast two-dimensional MR imaging by multiple acquisition with micro B(0) array (MAMBA). *Magn Reson Imaging* 2002;20(1):119-125.
27. **Lee KJ**, Barber DC, Paley MN, Wilkinson ID, Papadakis NG, Griffiths PD. Image-based EPI ghost correction using an algorithm based on projection onto convex sets (POCS). *Magn Reson Med* 2002;47(4):812-817.
28. Paley MN, **Lee KJ**, Wild JM, Whitby EH, Griffiths PD. Interleaved pulsed MAMBA: a new parallel slice imaging method. *Magn Reson Med*. 2002 Dec;48(6):1043-50.
29. **Lee KJ**, Barber DC. Use of forward projection to correct patient motion during SPECT imaging. *Phys Med Biol* 1998;43(1):171-187.
30. **Lee KJ**, Barber DC. Automatic motion correction in dynamic radionuclide renography using image registration. *Nucl Med Commun* 1998;19(12):1159-1167.

## **PATENTS**

1. US patent 6980001 Methods and apparatus for magnetic resonance imaging.
2. US patent 8395385 Simultaneous Excitation and Acquisition of Signal from Multiple Slices in the RARE Sequence
3. US2015309138 (A1) Method and Magnetic Resonance Apparatus for Establishing a Resonant Frequency
4. US2016041249 (A1) Method and Magnetic Resonance Apparatus for Establishing At Least One Combination Image Dataset
5. KR20160037781 (A) Shim Coil Device and a Magnetic Resonance Coil System Having a Shim Coil Device
6. US2016116558 (A1) Noise Reduction During Selective MR Excitation