

Aloha colleagues,

Please find the latest ASL Newsletter, No. 72, below.

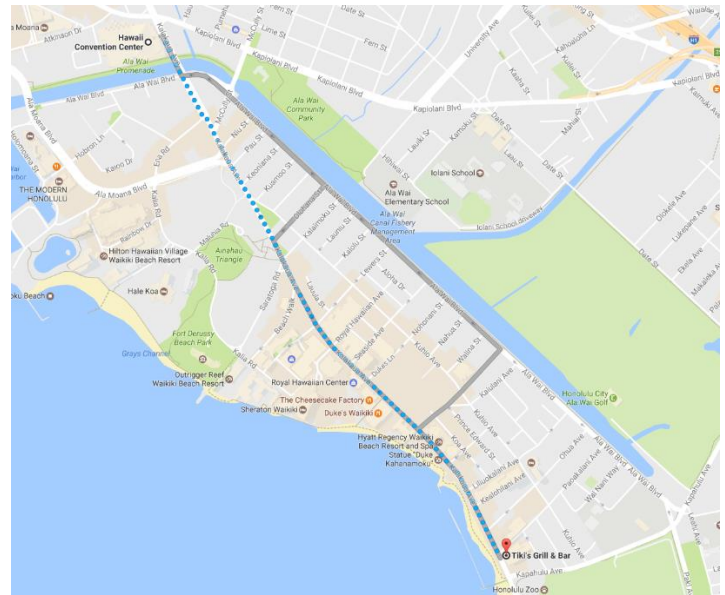
Probably some of you are busy preparing the upcoming ISMRM (22.-27. April in Honolulu / Hawaii).

You definitely should not miss the scientific session on ASL on Wednesday morning (8:15 - 10:15 am, room 310) and the **ASL Network Dinner!**

We are happy to present this year's host **Tiki's Grill & Bar** (2570 Kalakaua Ave Honolulu, HI 96815) and welcome you there from 7pm onwards.

As usual, a variety of sessions and events will highlight the week at ISMRM. Besides the 'official' offers for science and networking on ASL you will find *Gold Standard Phantoms*, the ASL Network Dinner's co-sponsor, at the technical exhibition (booth 227) all week long.

Enjoy the ISMRM!
Mahalo and kind regards,
Klaus



Recent publications March 2017, (Epub & Print)

Note: The '*new*-flag' is assigned to articles which haven't been in earlier newsletters (e.g. as e-publications). Additionally you will find titles printed in bold letters which indicates that they are listed for the first time in this particular newsletter. For articles listed multiple times in different sections the bold letters disappear in the later sections.

Content:

Animal Studies.....	2
Pharmacological / Drug Studies / Studies on the Effects of Therapies.....	3
Cerebral Blood Flow Studies.....	4
CBF Regional Comparison / Regional ASL.....	4

Studies on Special Disease	5
Functional Imaging / BOLD	7
Physiological Parameters besides CBF	8
ASL for Angiography	8
ASL in Kidneys	9
Non-CBF specific: Comparison of ASL Methods/ Comparison of ASL with Other Imaging Methods ASL	9
ASL Data Analysis/ Comparison of ASL Evaluation Methods/ Kinetic Models/ Data Corrections	10
Technical Improvement / Parameter Optimization	10
Screening / Prognosis / Prevention	11
Cohort Studies / Gender- and Age Studies	12
Others	13
Review Paper / Historical Review / Guidelines	13
Job Offerings & Featured Articles	13

Animal Studies

new

Longitudinal evaluation of perfusion changes in acute and chronic renal allograft rejection using arterial spin labeling in translational mouse models.

Hueper K, Schmidbauer M, Thorenz A, Bräsen JH, Gutberlet M, Mengel M, Hartung D, Chen R, Meier M, Haller H, Wacker F, Rong S, Gueler F.

J Magn Reson Imaging. 2017 Mar 25. doi: 10.1002/jmri.25713. [Epub ahead of print]

new

Functional MRI for characterization of renal perfusion impairment and edema formation due to acute kidney injury in different mouse strains.

Tewes S, Gueler F, Chen R, Gutberlet M, Jang MS, Meier M, Mengel M, Hartung D, Wacker F, Rong S, Hueper K.

PLoS One. 2017 Mar 20;12(3):e0173248. doi: 10.1371/journal.pone.0173248. eCollection 2017 Mar 20.

[Free Article](#)

new

Functional and anatomical evidence of cerebral tissue hypoxia in young sickle cell anemia mice.

Cahill LS, Gazdzinski LM, Tsui AK, Zhou YQ, Portnoy S, Liu E, Mazer CD, Hare GM, Kassner A, Sled JG.

J Cereb Blood Flow Metab. 2017 Mar;37(3):994-1005. doi: 10.1177/0271678X16649194. Epub 2016 Jul 20.

Effects of Long-Duration Administration of 1% Isoflurane on Resting Cerebral Blood Flow and Default Mode Network in Macaque Monkeys.

Li CX, Zhang X.

Brain Connect. 2017 Mar;7(2):98-105. doi: 10.1089/brain.2016.0445. Epub 2017 Jan 24.

Quantitative arterial spin labelling perfusion measurements in rat models of renal transplantation and acute kidney injury at 3T.

Zimmer F, Klotz S, Hoeger S, Yard BA, Krämer BK, Schad LR, Zöllner FG.

Z Med Phys. 2017 Mar;27(1):39-48. doi: 10.1016/j.zemedi.2016.02.004. Epub 2016 Mar 24.

Pharmacological / Drug Studies / Studies on the Effects of Therapies

new

Integration of arterial spin labeling into stereotactic radiosurgery planning of cerebral arteriovenous malformations.

Ozyurt O, Dincer A, Erdem Yildiz M, Peker S, Yilmaz M, Sengoz M, Ozturk C.

J Magn Reson Imaging. 2017 Mar 10. doi: 10.1002/jmri.25690. [Epub ahead of print]

new

Effect of intranasally administered insulin on cerebral blood flow and perfusion; a randomized experiment in young and older adults.

Akintola AA, van Opstal AM, Westendorp RG, Postmus I, van der Grond J, van Heemst D.

Aging (Albany NY). 2017 Mar 14. doi: 10.18632/aging.101192. [Epub ahead of print]

[Free Article](#)

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Enhanced task related brain activation and resting perfusion in healthy older adults after chronic blueberry supplementation.

Bowtell JL, Aboo-Bakkar Z, Conway M, Adlam AR, Fulford J.

Appl Physiol Nutr Metab. 2017 Mar 1. doi: 10.1139/apnm-2016-0550. [Epub ahead of print]

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Cerebral Perfusion Changes in Post-Concussion Syndrome: A Prospective Controlled Cohort Study.

Barlow KM, Marcil LD, Dewey D, Carlson HL, MacMaster FP, Brooks BL, Lebel RM.

J Neurotrauma. 2017 Mar 1;34(5):996-1004. doi: 10.1089/neu.2016.4634. Epub 2016 Nov 21.

[Free PMC Article](#)

Cerebral Blood Flow Studies

CBF Regional Comparison / Regional ASL

new

Effects of a brief cognitive behavioural therapy group intervention on baseline brain perfusion in adolescents with major depressive disorder.

Sosic-Vasic Z, Abler B, Grön G, Plener P, Straub J.

Neuroreport. 2017 Mar 21. doi: 10.1097/WNR.0000000000000770. [Epub ahead of print]

new

Perioperative changes in cerebral perfusion territories assessed by arterial spin labeling magnetic resonance imaging are associated with postoperative increases in cerebral blood flow in patients with carotid stenosis.

Yamamoto D, Hosoda K, Uchihashi Y, Fujita A, Sasayama T, Fujii M, Sugimura K, Kohta M, Kohmura E.

World Neurosurg. 2017 Mar 16. pii: S1878-8750(17)30349-2. doi: 10.1016/j.wneu.2017.03.037. [Epub ahead of print]

new

Prehypertensive Blood Pressures and Regional Cerebral Blood Flow Independently Relate to Cognitive Performance in Midlife.

Jennings JR, Muldoon MF, Ryan C, Gach HM, Heim A, Sheu LK, Gianaros PJ.

J Am Heart Assoc. 2017 Mar 17;6(3). pii: e004856. doi: 10.1161/JAHA.116.004856.

[Free Article](#)

new

Evaluation of the applicability of territorial arterial spin labeling in meningiomas for presurgical assessments compared with 3-dimensional time-of-flight magnetic resonance angiography.

Lu Y, Luan S, Liu L, Xiong J, Wen J, Qu J, Geng D, Yin B.

Eur Radiol. 2017 Mar 16. doi: 10.1007/s00330-017-4760-9. [Epub ahead of print]

Tonotopic maps in human auditory cortex using arterial spin labeling.

Gardumi A, Ivanov D, Havlicek M, Formisano E, Uludağ K.

Hum Brain Mapp. 2017 Mar;38(3):1140-1154. doi: 10.1002/hbm.23444. Epub 2016 Oct 28.

[Free PMC Article](#)

Quantifying the changes in oxygen extraction fraction and cerebral activity caused by caffeine and acetazolamide.

Buch S, Ye Y, Haacke EM.

J Cereb Blood Flow Metab. 2017 Mar;37(3):825-836. doi: 10.1177/0271678X16641129. Epub 2016 Jul 21.

Studies on Special Disease

new

Arterial spin-labeling perfusion imaging of children with subdural hemorrhage: Perfusion abnormalities in abusive head trauma.

Wong AM, Yeh CH, Liu HL, Wu TW, Lin KL, Wang HS, Toh CH.

J Neuroradiol. 2017 Mar 21. pii: S0150-9861(16)30135-3. doi: 10.1016/j.neurad.2017.02.003.

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new

Effects of a brief cognitive behavioural therapy group intervention on baseline brain perfusion in adolescents with major depressive disorder.

Sosic-Vasic Z, Abler B, Grön G, Plener P, Straub J.

Neuroreport. 2017 Mar 21. doi: 10.1097/WNR.0000000000000770. [Epub ahead of print]

new

Detection of crossed cerebellar diaschisis in hyperacute ischemic stroke using arterial spin-labeled MR imaging.

Kang KM, Sohn CH, Choi SH, Jung KH, Yoo RE, Yun TJ, Kim JH, Park SW.

PLoS One. 2017 Mar 21;12(3):e0173971. doi: 10.1371/journal.pone.0173971. eCollection 2017 Mar 21.

[Free Article](#)

new

Identification of cerebral perfusion using arterial spin labeling in patients with seizures in acute settings.

Yoo RE, Yun TJ, Yoon BW, Lee SK, Lee ST, Kang KM, Choi SH, Kim JH, Sohn CH, Park SW, Han MH.

PLoS One. 2017 Mar 14;12(3):e0173538. doi: 10.1371/journal.pone.0173538. eCollection 2017 Mar 14.

[Free Article](#)

new

Arterial spin labelling detects posterior cortical hypoperfusion in non-demented patients with Parkinson's disease.

Syrimi ZJ, Vojtisek L, Eliasova I, Viskova J, Svatkova A, Vanicek J, Rektorova I.

J Neural Transm (Vienna). 2017 Mar 7. doi: 10.1007/s00702-017-1703-1. [Epub ahead of print]

new

Contemporary Imaging of Cerebral Arteriovenous Malformations.

Tranvinh E, Heit JJ, Hacin-Bey L, Provenzale J, Wintermark M.

AJR Am J Roentgenol. 2017 Mar 7;1-11. doi: 10.2214/AJR.16.17306. [Epub ahead of print]

new

Differentiating acute ischemic lesions from mitochondrial stroke-like lesions on 3D pseudo-continuous arterial spin labelling.

Finsterer J, Zarrouk-Mahjoub S.

J Magn Reson Imaging. 2017 Mar;45(3):937. doi: 10.1002/jmri.25404. Epub 2016 Aug 10. No abstract available.

new

Functional and anatomical evidence of cerebral tissue hypoxia in young sickle cell anemia mice.

Cahill LS, Gazdzinski LM, Tsui AK, Zhou YQ, Portnoy S, Liu E, Mazer CD, Hare GM, Kassner A, Sled JG.
J Cereb Blood Flow Metab. 2017 Mar;37(3):994-1005. doi: 10.1177/0271678X16649194. Epub 2016 Jul 20.

Cerebral blood flow and cognitive function in HIV-infected men with sustained suppressed viremia on combination antiretroviral therapy.

Su T, Mutsaerts HJ, Caan MW, Wit FW, Schouten J, Geurtsen GJ, Sharp DJ, Prins M, Richard E, Portegies P, Reiss P, Majoie CB; AGEHIV Cohort Study..
AIDS. 2017 Mar 27;31(6):847-856. doi: 10.1097/QAD.0000000000001414.

Cerebral blood flow alterations specific to auditory verbal hallucinations in schizophrenia.

Zhuo C, Zhu J, Qin W, Qu H, Ma X, Yu C.
Br J Psychiatry. 2017 Mar;210(3):209-215. doi: 10.1192/bjp.bp.115.174961. Epub 2017 Jan 19.

Hypoperfusion of the thalamus is associated with disability in relapsing remitting multiple sclerosis.

Doche E, Lecocq A, Maarouf A, Duhamel G, Soulier E, Confort-Gouny S, Rico A, Guye M, Audoin B, Pelletier J, Ranjeva JP, Zaaraoui W.
J Neuroradiol. 2017 Mar;44(2):158-164. doi: 10.1016/j.neurad.2016.10.001. Epub 2016 Nov 16.

Cerebrovascular reactivity in the caudate nucleus, lentiform nucleus and thalamus in patients with carotid artery disease.

Hartkamp NS, Bokkers RP, van Osch MJ, de Borst GJ, Hendrikse J.
J Neuroradiol. 2017 Mar;44(2):143-150. doi: 10.1016/j.neurad.2016.07.003. Epub 2016 Oct 13.

Lower cerebral blood flow is associated with faster cognitive decline in Alzheimer's disease.

Benedictus MR, Leeuwis AE, Binnewijzend MA, Kuijter JP, Scheltens P, Barkhof F, van der Flier WM, Prins ND.
Eur Radiol. 2017 Mar;27(3):1169-1175. doi: 10.1007/s00330-016-4450-z. Epub 2016 Jun 22.
[Free PMC Article](#)

Baseline collateral status and infarct topography in post-ischaemic perilesional hyperperfusion: An arterial spin labelling study.

Bhaskar S, Bivard A, Stanwell P, Parsons M, Attia JR, Nilsson M, Levi C.
J Cereb Blood Flow Metab. 2017 Mar;37(3):1148-1162. doi: 10.1177/0271678X16653133. Epub 2016 Jul 21.

Functional Imaging / BOLD

new

[On the importance of modeling fMRI transients when estimating effective connectivity: a dynamic causal modeling study using ASL data.](#)

Havlicek M, Roebroeck A, Friston KJ, Gardumi A, Ivanov D, Uludag K.
Neuroimage. 2017 Mar 16. pii: S1053-8119(17)30225-2. doi: 10.1016/j.neuroimage.2017.03.017.
[Epub ahead of print]

new

[Multiband multi-echo imaging of simultaneous oxygenation and flow timeseries for resting state connectivity.](#)

Cohen AD, Nencka AS, Lebel RM, Wang Y.
PLoS One. 2017 Mar 2;12(3):e0169253. doi: 10.1371/journal.pone.0169253. eCollection 2017
Mar 2.

[Free PMC Article](#)

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[Enhanced task related brain activation and resting perfusion in healthy older adults after chronic blueberry supplementation.](#)

Bowtell JL, Aboo-Bakkar Z, Conway M, Adlam AR, Fulford J.
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[Tonotopic maps in human auditory cortex using arterial spin labeling.](#)

Gardumi A, Ivanov D, Havlicek M, Formisano E, Uludağ K.
Hum Brain Mapp. 2017 Mar;38(3):1140-1154. doi: 10.1002/hbm.23444. Epub 2016 Oct 28.

[Free PMC Article](#)

Physiological Parameters besides CBF

new

Quantitative susceptibility mapping-based cerebral metabolic rate of oxygen mapping with minimum local variance.

Zhang J, Cho J, Zhou D, Nguyen TD, Spincemaille P, Gupta A, Wang Y.
Magn Reson Med. 2017 Mar 10. doi: 10.1002/mrm.26657. [Epub ahead of print]

new

MEASUREMENT OF THE DISTRIBUTION OF VENTILATION-PERFUSION RATIOS IN THE HUMAN LUNG WITH PROTON MRI: COMPARISON WITH THE MULTIPLE INERT GAS ELIMINATION TECHNIQUE.

Sá RC, Henderson AC, Simonson TS, Arai TJ, Wagner H, Theilmann RJ, Wagner PD, Prisk GK, Hopkins SR.
J Appl Physiol (1985). 2017 Mar 9:jap.00804.2016. doi: 10.1152/jappphysiol.00804.2016. [Epub ahead of print]

Cerebrovascular reactivity in the caudate nucleus, lentiform nucleus and thalamus in patients with carotid artery disease.

Hartkamp NS, Bokkers RP, van Osch MJ, de Borst GJ, Hendrikse J.
J Neuroradiol. 2017 Mar;44(2):143-150. doi: 10.1016/j.neurad.2016.07.003. Epub 2016 Oct 13.

ASL for Angiography

new

Acceleration of ASL-based time-resolved MR angiography by acquisition of control and labeled images in the same shot (ACTRESS).

Suzuki Y, Fujima N, Ogino T, Meakin JA, Suwa A, Sugimori H, Van Cauteren M, van Osch MJ.
Magn Reson Med. 2017 Mar 20. doi: 10.1002/mrm.26667. [Epub ahead of print]

new

Evaluation of the applicability of territorial arterial spin labeling in meningiomas for presurgical assessments compared with 3-dimensional time-of-flight magnetic resonance angiography.

Lu Y, Luan S, Liu L, Xiong J, Wen J, Qu J, Geng D, Yin B.
Eur Radiol. 2017 Mar 16. doi: 10.1007/s00330-017-4760-9. [Epub ahead of print]

Improvement in visualization of carotid artery uniformity using silent magnetic resonance angiography.

Fujiwara Y, Muranaka Y.
Radiol Phys Technol. 2017 Mar;10(1):113-120. doi: 10.1007/s12194-016-0375-0. Epub 2016 Sep 8.

ASL in Kidneys

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[Longitudinal evaluation of perfusion changes in acute and chronic renal allograft rejection using arterial spin labeling in translational mouse models.](#)

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PLoS One. 2017 Mar 20;12(3):e0173248. doi: 10.1371/journal.pone.0173248. eCollection 2017 Mar 20.

[Free Article](#)

new

[Respiratory motion prediction and prospective correction for free-breathing arterial spin-labeled perfusion MRI of the kidneys.](#)

Song H, Ruan D, Liu W, Stenger VA, Pohmann R, Fernández-Seara MA, Nair T, Jung S, Luo J, Motai Y, Ma J, Hazle JD, Gach HM.

Med Phys. 2017 Mar;44(3):962-973. doi: 10.1002/mp.12099. Epub 2017 Feb 21.

[Quantitative arterial spin labelling perfusion measurements in rat models of renal transplantation and acute kidney injury at 3T.](#)

Zimmer F, Klotz S, Hoeger S, Yard BA, Krämer BK, Schad LR, Zöllner FG.

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Non-CBF specific: Comparison of ASL Methods/ Comparison of ASL with Other Imaging Methods ASL

new

[Quantitative susceptibility mapping-based cerebral metabolic rate of oxygen mapping with minimum local variance.](#)

Zhang J, Cho J, Zhou D, Nguyen TD, Spincemaille P, Gupta A, Wang Y.

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ASL Data Analysis/ Comparison of ASL Evaluation Methods/ Kinetic Models/ Data Corrections

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new

[Benchmarking transverse spin relaxation based oxygenation measurements in the brain during hypercapnia and hypoxia.](#)

Ni WW, Christen T, Zaharchuk G.

J Magn Reson Imaging. 2017 Mar 17. doi: 10.1002/jmri.25582. [Epub ahead of print]

new

[Influence of the cardiac cycle on pCASL: cardiac triggering of the end-of-labeling.](#)

Verbree J, van Osch MJ.

MAGMA. 2017 Mar 9. doi: 10.1007/s10334-017-0611-6. [Epub ahead of print]

[Lower cerebral blood flow is associated with faster cognitive decline in Alzheimer's disease.](#)

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Technical Improvement / Parameter Optimization

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Screening / Prognosis / Prevention

new

[Frontocingulate cerebral blood flow and cerebrovascular reactivity associated with antidepressant response in late-life depression.](#)

Abi Zeid Daou M, Boyd BD, Donahue MJ, Albert K, Taylor WD.

J Affect Disord. 2017 Mar 16;215:103-110. doi: 10.1016/j.jad.2017.03.027. [Epub ahead of print]

new

[Prehypertensive Blood Pressures and Regional Cerebral Blood Flow Independently Relate to Cognitive Performance in Midlife.](#)

Jennings JR, Muldoon MF, Ryan C, Gach HM, Heim A, Sheu LK, Gianaros PJ.

J Am Heart Assoc. 2017 Mar 17;6(3). pii: e004856. doi: 10.1161/JAHA.116.004856.

[Free Article](#)

new

[Imaging Brain Collaterals: Quantification, Scoring, and Potential Significance.](#)

Raymond SB, Schaefer PW.

Top Magn Reson Imaging. 2017 Mar 8. doi: 10.1097/RMR.000000000000123. [Epub ahead of print]

Cohort Studies / Gender- and Age Studies

new

[Arterial spin-labeling perfusion imaging of children with subdural hemorrhage: Perfusion abnormalities in abusive head trauma.](#)

Wong AM, Yeh CH, Liu HL, Wu TW, Lin KL, Wang HS, Toh CH.

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Aging (Albany NY). 2017 Mar 14. doi: 10.18632/aging.101192. [Epub ahead of print]

[Free Article](#)

[Arterial Spin-Labeling to Discriminate Pediatric Cervicofacial Soft-Tissue Vascular Anomalies.](#)

Boulouis G, Dangouloff-Ros V, Boccara O, Garabedian N, Soupre V, Picard A, Couloigner V, Boddaert N, Naggara O, Brunelle F.

AJNR Am J Neuroradiol. 2017 Mar;38(3):633-638. doi: 10.3174/ajnr.A5065. Epub 2017 Jan 19.

[Cerebral Perfusion Changes in Post-Concussion Syndrome: A Prospective Controlled Cohort Study.](#)

Barlow KM, Marcil LD, Dewey D, Carlson HL, MacMaster FP, Brooks BL, Lebel RM.

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J Cereb Blood Flow Metab. 2017 Mar;37(3):1148-1162. doi: 10.1177/0271678X16653133. Epub 2016 Jul 21.

Others

new

Letter by Nabavizadeh et al Regarding Article, "Prediction of Blood-Brain Barrier Disruption and Intracerebral Hemorrhagic Infarction Using Arterial Spin-Labeling Magnetic Resonance Imaging".

Nabavizadeh SA, Mowla A, Vossough A.

Stroke. 2017 Mar 3. pii: STROKEAHA.116.016457. doi: 10.1161/STROKEAHA.116.016457.

[Epub ahead of print] No abstract available.

Review Paper / Historical Review / Guidelines

new

FUNCTIONAL NEUROIMAGING FINDINGS IN HEALTHY MIDDLE-AGED ADULTS AT RISK OF ALZHEIMER'S DISEASE.

Habib M, Mak E, Gabel S, Su L, Williams G, Waldman A, Wells K, Ritchie K, Ritchie C, O'Brien JT.

Ageing Res Rev. 2017 Mar 22. pii: S1568-1637(16)30246-X. doi: 10.1016/j.arr.2017.03.004.

[Epub ahead of print] Review.

new

The performance of MR perfusion-weighted imaging for the differentiation of high-grade glioma from primary central nervous system lymphoma: A systematic review and meta-analysis.

Xu W, Wang Q, Shao A, Xu B, Zhang J.

PLoS One. 2017 Mar 16;12(3):e0173430. doi: 10.1371/journal.pone.0173430. eCollection 2017 Mar 16.

[Free Article](#)

new

Advanced MRI Measures of Cerebral Perfusion and Their Clinical Applications.

Lanzman B, Heit JJ.

Top Magn Reson Imaging. 2017 Mar 8. doi: 10.1097/RMR.000000000000120. [Epub ahead of print]

A meta-analysis of arterial spin labelling perfusion values for the prediction of glioma grade.

Kong L, Chen H, Yang Y, Chen L.

Clin Radiol. 2017 Mar;72(3):255-261. doi: 10.1016/j.crad.2016.10.016. Epub 2016 Dec 6.

Review.

Job Offerings & Featured Articles

- If you have any vacancies please send them to jobsATasl-network.org
- If you would like to write a comment on an interesting article mail it to editorATasl-network.org