

## Ralph Hurd

Sr Res Scientist-Physical, Rad/Radiological Sciences Laboratory

### Publications

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#### PUBLICATIONS

- **Proton MRS Assessment of Neonatal Brain Metabolism During Cardiopulmonary Bypass (CPB) Surgery.** *NMR in biomedicine*  
Spielman, D. M., Gu, M., Hurd, R. E., Riemer, K., Okamura, K., Hanley, F. L.  
2022
- **Hyperpolarized NMR study of the impact of pyruvate dehydrogenase kinase inhibition on the pyruvate dehydrogenase and TCA flux in type 2 diabetic rat muscle.** *Pflugers Archiv : European journal of physiology*  
Park, J. M., Josan, S., Hurd, R. E., Graham, J., Havel, P. J., Bendahan, D., Mayer, D., Chung, Y., Spielman, D. M., Jue, T.  
2021
- **Association between Anterior Cingulate Neurochemical Concentration and Individual Differences in Hypnotizability.** *Cerebral cortex (New York, N.Y. : 1991)*  
DeSouza, D. D., Stimpson, K. H., Baltusis, L. n., Sacchet, M. D., Gu, M. n., Hurd, R. n., Wu, H. n., Yeomans, D. C., Williams, N. n., Spiegel, D. n.  
2020
- **Detection of Metabolic Changes using Hyperpolarized C-13 MRI in a Negative F-18-FDG PET Rat Brain Cancer Model**  
Lauritzen, M., Datta, K., Merchant, M., Jang, T., Hurd, R., Liu, S., Recht, L., Spielman, D.  
SOC NUCLEAR MEDICINE INC.2019
- **Methodological consensus on clinical proton MRS of the brain: Review and recommendations.** *Magnetic resonance in medicine*  
Wilson, M., Andronesi, O., Barker, P. B., Bartha, R., Bizzi, A., Bolan, P. J., Brindle, K. M., Choi, I., Cudalbu, C., Dydak, U., Emir, U. E., Gonzalez, R. G., Gruber, et al  
2019
- **Pulse sequence considerations for quantification of pyruvate-to-lactate conversion k(PL) in hyperpolarized C-13 imaging** *NMR IN BIOMEDICINE*  
Chen, H., Gordon, J. W., Bok, R. A., Cao, P., von Morze, C., van Criekinge, M., Milshteyn, E., Carvajal, L., Hurd, R. E., Kurhanewicz, J., Vigneron, D. B., Larson, P. Z.  
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- **Pulse sequence considerations for quantification of pyruvate-to-lactate conversion kPL in hyperpolarized 13 C imaging.** *NMR in biomedicine*  
Chen, H., Gordon, J. W., Bok, R. A., Cao, P., von Morze, C., van Criekinge, M., Milshteyn, E., Carvajal, L., Hurd, R. E., Kurhanewicz, J., Vigneron, D. B., Larson, P. E.  
2019: e4052
- **Comparison of dynamic brain metabolism during antegrade cerebral perfusion versus deep hypothermic circulatory arrest using proton magnetic resonance spectroscopy.** *The Journal of thoracic and cardiovascular surgery*  
Hanley, F. L., Ito, H. n., Gu, M. n., Hurd, R. n., Riemer, R. K., Spielman, D. n.  
2019
- **Reversed metabolic reprogramming as a measure of cancer treatment efficacy in rat C6 glioma model.** *PloS one*  
Datta, K. n., Lauritzen, M. H., Merchant, M. n., Jang, T. n., Liu, S. C., Hurd, R. n., Recht, L. n., Spielman, D. M.  
2019; 14 (12): e0225313
- **PKM2 activation sensitizes cancer cells to growth inhibition by 2-deoxy-D-glucose** *ONCOTARGET*  
Tee, S., Park, J., Hurd, R. E., Brimacombe, K. R., Boxer, M. B., Massoud, T. F., Rutt, B. K., Spielman, D. M.  
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2017; 8 (53): 90959-90968
- **In vivo assessment of intracellular redox state in rat liver using hyperpolarized [1-C-13]Alanine** *MAGNETIC RESONANCE IN MEDICINE*  
Park, J. M., Khemtong, C., Liu, S., Hurd, R. E., Spielman, D. M.  
2017; 77 (5): 1741-1748
- **C[13]Alanine.** *Magnetic resonance in medicine*  
Park, J. M., Khemtong, C., Liu, S., Hurd, R. E., Spielman, D. M.  
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- **GABA editing with macromolecule suppression using an improved MEGA-SPECIAL sequence.** *Magnetic resonance in medicine*  
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Park, J. M., Spielman, D. M., Josan, S., Jang, T., Merchant, M., Hurd, R. E., Mayer, D., Recht, L. D.  
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- **Hyperpolarized 13C NMR observation of lactate kinetics in skeletal muscle.** *journal of experimental biology*  
Park, J. M., Josan, S., Mayer, D., Hurd, R. E., Chung, Y., Bendahan, D., Spielman, D. M., Jue, T.  
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- **The feasibility of assessing branched-chain amino acid metabolism in cellular models of prostate cancer with hyperpolarized [1-(13)C]-ketoisocaproate.** *Magnetic resonance imaging*  
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- **Dynamic metabolic imaging of hyperpolarized [2-(13) C]pyruvate using spiral chemical shift imaging with alternating spectral band excitation.** *Magnetic resonance in medicine*  
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- **Clinical Proton MR Spectroscopy in Central Nervous System Disorders** *RADIOLOGY*  
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- **Frequency correction method for improved spatial correlation of hyperpolarized C-13 metabolites and anatomy** *NMR IN BIOMEDICINE*  
Cunningham, C. H., Viqueira, W. D., Hurd, R. E., Chen, A. P.  
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- **In vivo investigation of cardiac metabolism in the rat using MRS of hyperpolarized [1-(13) C] and [2-(13) C]pyruvate.** *NMR in biomedicine*  
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- **In vivo measurement of aldehyde dehydrogenase-2 activity in rat liver ethanol model using dynamic MRSI of hyperpolarized [1-(13) C]pyruvate.** *NMR in biomedicine*  
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- **Quantification of in vivo metabolic kinetics of hyperpolarized pyruvate in rat kidneys using dynamic C-13 MRSI** *NMR IN BIOMEDICINE*  
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- **In vivo MRSI of hyperpolarized [1-C-13]pyruvate metabolism in rat hepatocellular carcinoma** *NMR IN BIOMEDICINE*  
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