

Peer review publications 2014

Andreasen M, Skeby KK, Zhang S, Nielsen EH, Klausen LH, Frahm H, Christiansen G, Skrydstrup T, Dong M, Schiott B, Otzen D. The importance of being capped: Terminal capping of an amyloidogenic peptide affects fibrillation propensity and fibril morphology. *Biochemistry* 2014; 53: 6968-6980. <http://dx.doi.org/10.1021/bi500674u>.

Borghammer P, Knudsen K, Danielsen E, Ostergaard K. False-positive 123I-FP-CIT scintigraphy and suggested dopamine transporter upregulation due to chronic modafinil treatment. *Clin Nucl Med* 2014; 39: e87-e88. <http://dx.doi.org/10.1097/RLU.0b013e3182816500>.

Borghammer P, Knudsen K, Ostergaard K, Danielsen EH, Pavese N, Arveschoug A, Bluhme H, Bode M, Morsing A. Combined DaT imaging and olfactory testing for differentiating parkinsonian disorders. *Int J Clin Pract* 2014; 68: 1345-1351. <http://dx.doi.org/10.1111/ijcp.12445>.

Bouteldja N, Andersen LT, Moller N, Gormsen LC. Using positron emission tomography to study human ketone body metabolism: a review. *Metabolism* 2014; 63: 1375-1384. *Review*. <http://dx.doi.org/10.1016/j.metabol.2014.08.001>.

Callesen MB, Weintraub D, Damholdt MF, Moller A. Impulsive and compulsive behaviors among Danish patients with Parkinson's disease: prevalence, depression, and personality. *Parkinsonism Relat Disord* 2014; 20: 22-26. <http://dx.doi.org/10.1016/j.parkreldis.2013.09.006>.

Damholdt MF, Callesen MB, Moller A. Personality characteristics of depressed and non-depressed patients with Parkinson's disease. *J Neuropsychiatry Clin Neurosci* 2014; 26: 329-334. <http://dx.doi.org/10.1176/appi.neuropsych.13040085>.

Duncan GW, Khoo TK, Yarnall AJ, O'Brien JT, Coleman SY, Brooks DJ, Barker RA, Burn DJ. Health-related quality of life in early Parkinson's disease: the impact of nonmotor symptoms. *Mov Disord* 2014; 29: 195-202. <http://dx.doi.org/10.1002/mds.25664>.

El-Galaly TC, Hutchings M, Mylam KJ, Brown PN, Bukh A, Johnsen HE, Kamper P, Loft A, Iyer V, Gormsen LC, Nielsen AL, Bogsted M, d'Amore F. Impact of 18F-fluorodeoxyglucose positron emission tomography/computed tomography staging in newly diagnosed classical Hodgkin lymphoma: fewer cases with stage I disease and more with skeletal involvement. *Leuk Lymphoma* 2014; 55: 2349-2355. <http://dx.doi.org/10.3109/10428194.2013.875169>.

Farup J, Rahbek SK, Vendelbo MH, Matzon A, Hindhede J, Bejder A, Ringgard S, Vissing K. Whey protein hydrolysate augments tendon and muscle hypertrophy independent of resistance exercise contraction mode. *Scand J Med Sci Sports* 2014; 24: 788-798. <http://dx.doi.org/10.1111/sms.12083>.

Farup J, Rahbek SK, Riis S, Vendelbo MH, Paoli F, Vissing K. Influence of exercise contraction mode and protein supplementation on human skeletal muscle satellite cell content and muscle fiber growth. *J Appl Physiol* (1985) 2014; 117: 898-909. <http://dx.doi.org/10.1152/japplphysiol.00261.2014>.

Fries AW, Dadsetan S, Keiding S, Bak LK, Schousboe A, Waagepetersen HS, Simonsen M, Ott P, Vilstrup H, Sorensen M. Effect of glutamine synthetase inhibition on brain and interorgan ammonia metabolism in bile duct ligated rats. *J Cereb Blood Flow Metab* 2014; 34: 460-466. <http://dx.doi.org/10.1038/jcbfm.2013.218>.

Frisch K, Sorensen M. On fluoro-18 labeling of bile acids. *Nucl Med Biol* 2014; 41: 775. *Letter*. <http://dx.doi.org/10.1016/j.nucmedbio.2014.07.001>.

Garvey LJ, Pavese N, Politis M, Ramlackhansingh A, Brooks DJ, Taylor-Robinson SD, Winston A. Increased microglia activation in neurologically asymptomatic HIV-infected patients receiving effective ART. *AIDS* 2014; 28: 67-72. <http://dx.doi.org/10.1097/01.aids.0000432467.54003.f7>.

Gejl M, Lerche S, Mengel A, Moller N, Bibby BM, Smidt K, Brock B, Sondergaard H, Botker HE, Gjedde A, Holst JJ, Hansen SB, Rungby J. Influence of GLP-1 on myocardial glucose metabolism in healthy men during normo- or hypoglycemia. *PLoS One* 2014; 9: e83758. <http://dx.doi.org/10.1371/journal.pone.0083758>.

Gjerloff T, Jakobsen S, Nahimi A, Munk OL, Bender D, Alstrup AK, Vase KH, Hansen SB, Brooks DJ, Borghammer P. In vivo imaging of human acetylcholinesterase density in peripheral organs using ¹¹C-donepezil: dosimetry, biodistribution, and kinetic analyses. *J Nucl Med* 2014; 55: 1818-1824. <http://dx.doi.org/10.2967/jnumed.114.143859>.

Glerup S, Olsen D, Vaegter CB, Gustafsen C, Sjoegaard SS, Hermey G, Kjolby M, Molgaard S, Ulrichsen M, Boggild S, Skeldal S, Fjorback AN, Nyengaard JR, Jacobsen J, Bender D, Bjarkam CR, Sorensen ES, Fuchtbauer EM, Eichele G, Madsen P, Willnow TE, Petersen CM, Nykjaer A. SorCS2 regulates dopaminergic wiring and is processed into an apoptotic two-chain receptor in peripheral glia. *Neuron* 2014; 82: 1074-1087. <http://dx.doi.org/10.1016/j.neuron.2014.04.022>.

Gomez MR, Hansen SB, Peterson KJ, Bliss DE, Carlson AL, Lamppa DC, Schroen DG, Rochau GA. Magnetic field measurements via visible spectroscopy on the Z machine. *Rev Sci Instrum* 2014; 85: 11E609. <http://dx.doi.org/10.1063/1.4891304>.

Gomez MR, Slutz SA, Sefkow AB, Sinars DB, Hahn KD, Hansen SB, Harding EC, Knapp PF, Schmit PF, Jennings CA, Awe TJ, Geissel M, Rovang DC, Chandler GA, Cooper GW, Cuneo ME, Harvey-Thompson AJ, Herrmann MC, Hess MH, Johns O, Lamppa DC, Martin MR, McBride RD, Peterson KJ, Porter JL, Robertson GK, Rochau GA, Ruiz CL, Savage ME, Smith IC, Stygar WA, Vesey RA. Experimental demonstration of fusion-relevant conditions in magnetized liner inertial fusion. *Phys Rev Lett* 2014; 113: 155003. <http://www.ncbi.nlm.nih.gov/pubmed/25375714?dopt=Citation>; 1079-7114.

Graugaard-Jensen C, Hvistendahl GM, Frokjaer J, Bie P, Djurhuus JC. Urinary concentration does not exclusively rely on plasma vasopressin. A study between genders. Gender and diurnal urine regulation. *Acta Physiol (Oxf)* 2014; 212: 97-105. <http://dx.doi.org/10.1111/apha.12337>.

Haase AM, Gregersen T, Schlageter V, Scott MS, Demierre M, Kucera P, Dahlerup JF, Krogh K. Pilot study trialling a new ambulatory method for the clinical assessment of regional gastrointestinal transit using multiple electromagnetic capsules. *Neurogastroenterol Motil* 2014; 26: 1783-1791. <http://dx.doi.org/10.1111/nmo.12461>.

Hansen J, Brock B, Botker HE, Gjedde A, Rungby J, Gejl M. Impact of glucagon-like peptide-1 on myocardial glucose metabolism revisited. *Rev Endocr Metab Disord* 2014; 15: 219-231. *Review*. <http://dx.doi.org/10.1007/s11154-014-9286-8>.

Harders SW, Madsen HH, Hjorthaug K, Arveschoug AK, Rasmussen TR, Meldgaard P, Hoejbjerg JA, Pilegaard HK, Hager H, Rehling M, Rasmussen F. Mediastinal staging in Non-Small-Cell Lung Carcinoma: computed tomography versus F-18-fluorodeoxyglucose positron-emission tomography and computed tomography. *Cancer Imaging* 2014; 14: 23. <http://dx.doi.org/10.1186/1470-7330-14-23>.

Host C, Gormsen LC, Hougaard DM, Christiansen JS, Pedersen SB, Gravholt CH. Acute and short-term chronic testosterone fluctuation effects on glucose homeostasis, insulin sensitivity, and adiponectin: a randomized, double-blind, placebo-controlled, crossover study. *J Clin Endocrinol Metab* 2014; 99: E1088-E1096. <http://dx.doi.org/10.1210/jc.2013-2807>.

Iversen P, Mouridsen K, Hansen MB, Jensen SB, Sorensen M, Bak LK, Waagepetersen HS, Schousboe A, Ott P, Vilstrup H, Keiding S, Gjedde A. Oxidative metabolism of astrocytes is not reduced in hepatic encephalopathy: a PET study with [(11)C]acetate in humans. *Front Neurosci* 2014; 8: 353. <http://dx.doi.org/10.3389/fnins.2014.00353>.

Karantanis D, Kalkanis D, Czernin J, Herrmann K, Pomykala KL, Bogsrud TV, Subramaniam RM, Lowe VJ, Len-Auerbach MS. Perceived misinterpretation rates in oncologic 18F-FDG PET/CT studies: a survey of referring physicians. *J Nucl Med* 2014; 55: 1925-1929. <http://dx.doi.org/10.2967/jnmed.114.145607>.

Kramer S, Arveschoug A. Review of "PET Imaging in the Management of Neuroendocrine Tumors, An Issue of PET Clinics by Stefano Fanti,Cristina Nanni,Richard Baum". side Brigido A, Elsevier, Philadelphia, Pennsylvania2014.

Lawrence AD, Brooks DJ. Ventral striatal dopamine synthesis capacity is associated with individual differences in behavioral disinhibition. *Front Behav Neurosci* 2014; 8: 86. <http://dx.doi.org/10.3389/fnbeh.2014.00086>.

McGinnity CJ, Hammers A, Riano Barros DA, Luthra SK, Jones PA, Trigg W, Micallef C, Symms MR, Brooks DJ, Koepp MJ, Duncan JS. Initial evaluation of 18F-GE-179, a putative PET Tracer for activated N-methyl D-aspartate receptors. *J Nucl Med* 2014; 55: 423-430. <http://dx.doi.org/10.2967/jnmed.113.130641>.

Mikkelsen KS, Sorensen M, Frisch K, Villadsen GE, Bibby BM, Keiding S. The lumped constant for the galactose analog 2-18F-fluoro-2-deoxy-D-galactose is increased in patients with parenchymal liver disease. *J Nucl Med* 2014; 55: 590-594. <http://dx.doi.org/10.2967/jnmed.113.125559>.

Nellemann B, Vendelbo MH, Nielsen TS, Bak AM, Hogild M, Pedersen SB, Bienso RS, Pilegaard H, Moller N, Jessen N, Jorgensen JO. Growth hormone-induced insulin resistance in human subjects involves reduced pyruvate dehydrogenase activity. *Acta Physiol (Oxf)* 2014; 210: 392-402. <http://dx.doi.org/10.1111/apha.12183>.

Orntoft NW, Sandahl TD, Jepsen P, Vilstrup H. Short-term and long-term causes of death in patients with alcoholic hepatitis in Denmark. *Clin Gastroenterol Hepatol* 2014; 12: 1739-1744. <http://dx.doi.org/10.1016/j.cgh.2014.04.020>.

Ostergaard L, Kristiansen SB, Angleys H, Frokjaer J, Michael HJ, Jespersen SN, Botker HE. The role of capillary transit time heterogeneity in myocardial oxygenation and ischemic heart disease. *Basic Res Cardiol* 2014; 109: 409. *Review*. <http://dx.doi.org/10.1007/s00395-014-0409-x>.

Ostergaard M, Christensen M, Nilsson L, Carlsen I, Frokjaer J, Norregaard R. ROS dependence of cyclooxygenase-2 induction in rats subjected to unilateral ureteral obstruction. *Am J Physiol Renal Physiol* 2014; 306: F259-F270. <http://dx.doi.org/10.1152/ajrenal.00352.2013>.

Palmqvist S, Zetterberg H, Blennow K, Vestberg S, Andreasson U, Brooks DJ, Owenius R, Hagerstrom D, Wollmer P, Minthon L, Hansson O. Accuracy of brain amyloid detection in clinical practice using cerebrospinal fluid beta-amyloid 42: a cross-validation study against amyloid positron emission tomography. *JAMA Neurol* 2014; 71: 1282-1289. <http://dx.doi.org/10.1001/jamaneurol.2014>.

Parbo P, Stribolt K, Rittig CS, Gormsen LC. Active ulcerative colitis diagnosed by (18)F-FDG PET/CT in an anti-TNF alpha treated patient with no visible luminal lesions on colonoscopy. *Int J Colorectal Dis* 2014; 29: 643-644. *Letter*. <http://dx.doi.org/10.1007/s00384-014-1840-z>.

Politis M, Wu K, Loane C, Brooks DJ, Kiferle L, Turkheimer FE, Bain P, Molloy S, Piccini P. Serotonergic mechanisms responsible for levodopa-induced dyskinésias in Parkinson's disease patients. *J Clin Invest* 2014; 124: 1340-1349. <http://dx.doi.org/10.1172/JCI71640>.

Rahbek SK, Farup J, Moller AB, Vendelbo MH, Holm L, Jessen N, Vissing K. Effects of divergent resistance exercise contraction mode and dietary supplementation type on anabolic signalling, muscle protein synthesis and muscle hypertrophy. *Amino Acids* 2014; 46: 2377-2392. <http://dx.doi.org/10.1007/s00726-014-1792-1>.

Riano Barros DA, McGinnity CJ, Rosso L, Heckemann RA, Howes OD, Brooks DJ, Duncan JS, Turkheimer FE, Koepp MJ, Hammers A. Test-retest reproducibility of cannabinoid-receptor type 1 availability quantified with the

PET ligand [(1)(1)C]MePPEP. Neuroimage 2014; 97: 151-162.
<http://dx.doi.org/10.1016/j.neuroimage.2014.04.020>.

Rodgaard JC, Kramer S, Stolle LB. Sentinel node biopsy (SNB) in malignant melanoma as same day procedure vs delayed procedure: clinical and economic outcome. J Plast Surg Hand Surg 2014; 48: 265-269.
<http://dx.doi.org/10.1016/j.jplast.2013.870910>.

Schelde AB, Schmidt M, Madsen M, Petersen KL, Nielsen SS, Frokiaer J, Sorensen HT, Christiansen CF. Impact of co-morbidity on the risk of first-time myocardial infarction, stroke, or death after single-photon emission computed tomography myocardial perfusion imaging. Am J Cardiol 2014; 114: 510-515.
<http://dx.doi.org/10.1016/j.amjcard.2014.05.031>.

Schmit PF, Knapp PF, Hansen SB, Gomez MR, Hahn KD, Sinars DB, Peterson KJ, Slutz SA, Sefkow AB, Awe TJ, Harding E, Jennings CA, Chandler GA, Cooper GW, Cuneo ME, Geissel M, Harvey-Thompson AJ, Herrmann MC, Hess MH, Johns O, Lamppa DC, Martin MR, McBride RD, Porter JL, Robertson GK, Rochau GA, Rovang DC, Ruiz CL, Savage ME, Smith IC, Stygar WA, Vesey RA. Understanding fuel magnetization and mix using secondary nuclear reactions in magneto-inertial fusion. Phys Rev Lett 2014; 113: 155004.
<http://www.ncbi.nlm.nih.gov/pubmed/25375715?dopt=Citation>.

Schuster DM, Nanni C, Fanti S, Oka S, Okudaira H, Inoue Y, Sorensen J, Owenius R, Choyke P, Turkbey B, Bogsrud TV, Bach-Gansmo T, Halkar RK, Nye JA, Odewole OA, Savir-Baruch B, Goodman MM. Anti-1-amino-3-18F-fluorocyclobutane-1-carboxylic acid: physiologic uptake patterns, incidental findings, and variants that may simulate disease. J Nucl Med 2014; 55: 1986-1992.
<http://dx.doi.org/10.2967/jnumed.114.143628>.

Skott M, Norregaard R, Birke-Sorensen H, Palmfeldt J, Kwon TH, Jonassen T, Frokiaer J, Nielsen S. Development of intestinal ischemia/reperfusion-induced acute kidney injury in rats with or without chronic kidney disease: Cytokine/chemokine response and effect of alpha-melanocyte-stimulating hormone. Kidney Res Clin Pract 2014; 33: 79-88. <http://dx.doi.org/10.1016/j.krcp.2014.02.002>.

Skott M, Norregaard R, Birke-Sorensen H, Palmfeldt J, Kwon TH, Frokiaer J, Nielsen S. Acute kidney injury in rats with or without pre-existing chronic kidney disease: cytokine/chemokine response. Nephrology (Carlton) 2014; 19: 410-419. <http://dx.doi.org/10.1111/nep.12263>.

Skov J, Persson F, Frokiaer J, Christiansen JS. Tissue Renin-Angiotensin systems: a unifying hypothesis of metabolic disease. Front Endocrinol (Lausanne) 2014; 5: 23. Review.
<http://dx.doi.org/10.3389/fendo.2014.00023>.

Skov J, Holst JJ, Gotze JP, Frokiaer J, Christiansen JS. Glucagon-like peptide-1: effect on pro-atrial natriuretic peptide in healthy males. Endocr Connect 2014; 3: 11-16. <http://dx.doi.org/10.1530/EC-13-0087>.

Souza AN, Perkins DJ, Starrett CE, Saumon D, Hansen SB. Predictions of x-ray scattering spectra for warm dense matter. Phys Rev E Stat Nonlin Soft Matter Phys 2014; 89: 023108.
<http://www.ncbi.nlm.nih.gov/pubmed/25353587?dopt=Citation>.

Stefanetti RJ, Lamon S, Rahbek SK, Farup J, Zacharewicz E, Wallace MA, Vendelbo MH, Russell AP, Vissing K. Influence of divergent exercise contraction mode and whey protein supplementation on atrogin-1, MuRF1, and FOXO1/3A in human skeletal muscle. J Appl Physiol (1985) 2014; 116: 1491-1502.
<http://dx.doi.org/10.1152/japplphysiol.00136.2013>.

Stokkilde L, Palmfeldt J, Nilsson L, Carlsen I, Wang Y, Norregaard R, Frokiaer J. Proteomic identification of early changes in the renal cytoskeleton in obstructive uropathy. Am J Physiol Renal Physiol 2014; 306: F1429-F1441. <http://dx.doi.org/10.1152/ajprenal.00244.2013>.

van Rijt WG, Secher N, Keller AK, Moldrup U, Chynau Y, Ploeg RJ, van GH, Norregaard R, Birn H, Frokiaer J, Nielsen S, Leuvenink HG, Jespersen B. alpha-Melanocyte stimulating hormone treatment in pigs does not improve early graft function in kidney transplants from brain dead donors. *PLoS One* 2014; 9: e94609. <http://dx.doi.org/10.1371/journal.pone.0094609>.

Vase KH, Peters D, Nielsen EO, Alstrup AK, Bender D. [11C]NS8880, a promising PET radiotracer targeting the norepinephrine transporter. *Nucl Med Biol* 2014; 41: 758-764. <http://dx.doi.org/10.1016/j.nucmedbio.2014.06.004>.

Vendelbo MH, Moller AB, Treebak JT, Gormsen LC, Goodyear LJ, Wojtaszewski JF, Jorgensen JO, Moller N, Jessen N. Sustained AS160 and TBC1D1 phosphorylations in human skeletal muscle 30 min after a single bout of exercise. *J Appl Physiol* (1985) 2014; 117: 289-296. <http://dx.doi.org/10.1152/japplphysiol.00044.2014>.

Vendelbo MH, Moller AB, Christensen B, Nellemann B, Clasen BF, Nair KS, Jorgensen JO, Jessen N, Moller N. Fasting increases human skeletal muscle net phenylalanine release and this is associated with decreased mTOR signaling. *PLoS One* 2014; 9: e102031. <http://dx.doi.org/10.1371/journal.pone.0102031>.

Vestergaard PF, Vendelbo MH, Pedersen SB, Juul A, Ringgaard S, Moller N, Jessen N, Jorgensen JO. GH signaling in skeletal muscle and adipose tissue in healthy human subjects: impact of gender and age. *Eur J Endocrinol* 2014; 171: 623-631. <http://dx.doi.org/10.1530/EJE-14-0538>.

Watson BJ, Taylor LG, Reid AG, Wilson SJ, Stokes PR, Brooks DJ, Myers JF, Turkheimer FE, Nutt DJ, Lingford-Hughes AR. Investigating expectation and reward in human opioid addiction with [(11) C]raclopride PET. *Addict Biol* 2014; 19: 1032-1040. <http://dx.doi.org/10.1111/adb.12073>.

Weinreich UM, Alstrup AK, Frost M, Iyer VV, Bertelsen HC, Clausen P, Jensen TH. [Recurrent periods of respiratory tract infections in a 22-year-old.]. *Ugeskr Laeger* 2014; 176: <http://www.ncbi.nlm.nih.gov/pubmed/25498181?dopt=Citation>.

Winterdahl M, Audrain H, Landau AM, Smith DF, Bonaventure P, Shoblock JR, Carruthers N, Swanson D, Bender D. PET brain imaging of neuropeptide Y2 receptors using N-11C-methyl-JNJ-31020028 in pigs. *J Nucl Med* 2014; 55: 635-639. <http://dx.doi.org/10.2967/numed.113.125351>.

Xing L, Wen JG, Frokiaer J, Djurhuus JC, Norregaard R. Ontogeny of the mammalian kidney: expression of aquaporins 1, 2, 3, and 4. *World J Pediatr* 2014; 10: 306-312. *Review*. <http://dx.doi.org/10.1007/s12519-014-0508-7>.

Yarnall AJ, Breen DP, Duncan GW, Khoo TK, Coleman SY, Firbank MJ, Nombela C, Winder-Rhodes S, Evans JR, Rowe JB, Mollenhauer B, Kruse N, Hudson G, Chinnery PF, O'Brien JT, Robbins TW, Wesnes K, Brooks DJ, Barker RA, Burn DJ. Characterizing mild cognitive impairment in incident Parkinson disease: the ICICLE-PD study. *Neurology* 2014; 82: 308-316. <http://dx.doi.org/10.1212/WNL.0000000000000066>.