

27. Hudis, C. A. Trastuzumab—mechanism of Action and Use in Clinical Practice. *N. Engl. J. Med.* **2007**, *357* (1), 39–51.
28. Carpenter, A. P., Jr.; Pontecorvo, M. J.; Hefti, F. F.; Skovronsky, D. M. The Use of the Exploratory IND in the Evaluation and Development of <sup>18</sup>F-PET Radiopharmaceuticals for Amyloid Imaging in the Brain: A Review of One Company's Experience. *Q. J. Nucl. Med. Mol. Imaging* **2009**, *53* (4), 387–393.
29. Som, P.; Atkins, H. L.; Bandyopadhyay, D.; Fowler, J. S.; MacGregor, R. R.; Matsui, K.; Oster, Z. H.; Sacker, D. F.; Shiue, C. Y.; Turner, H.; et al. A Fluorinated Glucose Analog, 2-fluoro-2-deoxy-d-glucose (F-18): Non-toxic Tracer for Rapid Tumor Detection. *J. Nucl. Med.* **1980**, *21*, 670–675.
30. Muller, C.; Schibli, R. Single Photon Emission Computed Tomography Tracer. *Recent Results Cancer Res.* **2013**, *187*, 65–105.
31. Antonini, A. The Role of 123I-ioflupane SPECT Dopamine Transporter Imaging in the Diagnosis and Treatment of Patients with Dementia with Lewy Bodies. *Neuropsychiatric Dis. Treat.* **2007**, *3* (3), 287–292.
32. Leppo, J. A.; DePuey, E. G.; Johnson, L. L. A Review of Cardiac Imaging with Sestamibi and Teboroxime. *J. Nucl. Med.* **1991**, *32* (10), 2012–2022.
33. Manyak, M. J. Indium-111 Capromab Pendetide in the Management of Recurrent Prostate cancer. *Expert Rev. Anticancer Ther.* **2008**, *8* (2), 175–181.
34. Rahmima, A.; Zaidib, H. PET versus SPECT: Strengths, Limitations and Challenges. *Nucl. Med. Commun.* **2008**, *29*, 193–207.
35. Nag, S.; Lehmann, L.; Ketschau, G.; Heinrich, T.; Thiele, A.; Varrone, A.; Gulyas, B.; Halldin, C. Synthesis and Evaluation of [<sup>18</sup>F]fluororasagiline, a Novel Positron Emission Tomography (PET) Radioligand for Monoamine Oxidase B (MAO-B). *Bioorg. Med. Chem.* **2012**, *20*, 3065–3071.
36. Zeng, F.; Jarkas, N.; Stehouwer, J. S.; Voll, R. J.; Owens, M. J.; Kilts, C. D.; Nemeroff, C. B.; Goodman, M. M. Synthesis, *in Vitro* Characterization, and Radiolabeling of Reboxetine Analogs as Potential PET Radioligands for Imaging the Norepinephrine Transporter. *Bioorg. Med. Chem.* **2008**, *16*, 783–793.
37. Fernandes, P. A.; Carvalho, A. T. P.; Marques, A. T.; Pereira, A. L. F.; Madeira, A. P. S.; Ribeiro, A. S. P.; Carvalho, A. F. R.; Ricardo, E. T. A.; Pinto, F. J. V.; Santos, H. A.; et al. New Designs for MRI Contrast Agents. *J. Computer-Aided Mol. Des.* **2003**, *17* (7), 463–473.
38. a. Grundman, M.; Sencakova, D.; Jack, C. R., Jr.; Petersen, R. C.; Kim, H. T.; Schultz, A.; Weiner, M. F.; DeCarli, C.; DeKosky, S. T.; van Dyck, C.; et al. Brain MRI Hippocampal Volume and Prediction of Clinical Status in a Mild Cognitive Impairment Trial. *J. Mol. Neurosci.* **2002**, *19*, 23–27.  
b. Jack, C. R., Jr.; Slomkowski, M.; Gracon, S.; Hoover, T. M.; Felmlee, J. P.; Stewart, K.; Xu, Y.; Shiung, M.; O'Brien, P. C.; Cha, R.; et al. MRI as a Biomarker of Disease Progression in a Therapeutic Trial of Milameline for AD. *Neurology* **2003**, *60*, 253–260.  
c. Fox, N. C.; Warrington, E. K.; Freeborough, P. A.; Hartikainen, P.; Kennedy, A. M.; Stevens, J. M.; Rossor, M. N. Presymptomatic Hippocampal Atrophy in Alzheimers Disease – A Longitudinal MRI Study. *Brain* **1996**, *119*, 2001–2007.
39. a. Choudhury, R. P.; Fuster, V.; Badimon, J. J.; Fisher, E. A.; Fayad, Z. A. MRI and Characterization of Atherosclerotic Plaque: Emerging Applications and Molecular Imaging. *Arterioscler. Thromb. Vasc. Biol.* **2002**, *22*, 1065–1074.  
b. Yuan, C. P.; Zhang, S. X.; Polissar, N. L.; Echelard, D.; Ortiz, G.; Davis, J. W.; Ellington, E.; Ferguson, M. S.; Hatsukami, T. S. Identification of Fibrous Cap Rupture with Magnetic Resonance Imaging Is Highly Associated with Recent Transient Ischemic Attack or Stroke. *Circulation* **2002**, *105*, 181–185.
40. Jacobs, L. D.; Beck, R. W.; Simon, J. H.; Kinkel, R. P.; Brownschidle, C. M.; Murray, T. J.; Simonian, N. A.; Slasor, P. J.; Sandrock, A. W. Intramuscular Interferon-β-1a Therapy Initiated during a First Demyelinating Event in Multiple Sclerosis. *N. Engl. J. Med.* **2000**, *343*, 898–904.