

## Richard E. Carson

Professor of Biomedical Engineering & Diagnostic Radiology

Ph.D., University of California at Los Angeles

### RESPONSIBILITIES

Co-Director of the Yale PET Center

### INTERESTS

Positron Emission Tomography (PET) modeling and physics; tracer kinetic modeling methods and parametric imaging techniques for PET tracers; application of receptors ligands to assess neurotransmitter dynamics; 3D and 4D PET image reconstruction.

### REPRESENTATIVE PUBLICATIONS

- Noise reduction in the simplified reference tissue model for neuroreceptor functional imaging , Y. Wu, Richard E Carson, 2002, *J. Cereb Blood Flow Metab*, 22, 1440-1452.
- Quantification of amphetamine-induced changes in [11C]-raclopride binding with continuous infusion, Richard E Carson, A. Breier, A. de Bartolomeis, R.C. Saunders, T.P. Su, B. Schmall, M.G. Der, D. Pickar, W.C. Eckelman, 1997, *J. Cereb Blood Flow Metab*, 17, 437-447.
- Comparison of bolus and infusion methods for receptor quantitation: Application to [18F]-cyclofoxy and positron emission tomography , Richard E Carson, M.A. Channing, R.G. Blasberg, B.B. Dunn, R.M. Cohen, K.C. Rice, P. Herscovitch, 1993, *J. Cereb Blood Flow Metab*, 13, 24-42.
- EM reconstruction algorithms for emission and transmission tomography, K. Lange, Richard E Carson, 1984, *J. Comput Assist Tomogr.*, 8, 306-316.



### News & Events

#### Links

– [Research Page](#)

#### Phone

(203) 737-2814

#### Email

– [richard.e.carson \[at\] yale.edu](mailto:richard.e.carson[at]yale.edu)

#### Fax

(203) 785-3107

#### Mailing Address

P.O. Box 208048  
New Haven, CT 06520

#### Office Address

15 York Street  
LMP 89A  
New Haven, CT 06511

[GO BACK](#)

**12/21/2009 - Pond Scum Prized Again as Potential Biofuel**

The four flasks look like they're filled with bubbling ... [\[+\]](#)

**12/17/2009 - 'Star Trek' Gadget to Detect Cancer**

The team at Yale University claim the portable biomarker ... [\[+\]](#)

**01/19/2010 - TAGS Title TBA, Andrew Mack**

Tuesday Afternoon Graduate Seminar on 01/19/10 from 4:00 PM ... [\[+\]](#)



[RSS](#)

[Privacy Policy](#)

[Disclaimer](#)

[Security](#)

[Copyright](#)

[Faculty FAQ](#)

