

Supplementary Table 1: Predicted  $K_1$ ,  $k_2$  and  $BP_{ND}$  values in HC and AD of 9 clinically-applied tau-related radiotracers.

Clinically-applied Tau Radiotracers	$K_1$ (mL/cm <sup>3</sup> / min)	$k_2$ (min <sup>-1</sup> )	$BP_{ND}$ (Unitless)	
			HC	AD
[ <sup>18</sup> F]THK523	0.200	0.069	0.035	0.43
[ <sup>18</sup> F]THK5105	0.181	0.067	0.053	0.67
[ <sup>18</sup> F]THK5117	0.202	0.087	0.042	0.53
[ <sup>18</sup> F]THK5317	0.202	0.087	0.012	0.15
[ <sup>18</sup> F]THK5351	0.220	0.141	0.10	1.28
[ <sup>18</sup> F]flortaucipir	0.256	0.199	0.033	0.42
[ <sup>18</sup> F]T808	0.151	0.039	0.0010	0.0017
[ <sup>11</sup> C]PBB3	0.226	0.136	0.041	0.51
[ <sup>18</sup> F]FDDNP	0.209	0.088	0.003	0.036