

Electronic Supplementary Material:

Article: Voxel-based analysis of the relation of 3'-deoxy-3'-[¹⁸F]fluorothymidine ([¹⁸F]FLT) PET and diffusion weighted (DW) MR signals in subcutaneous tumor xenografts does not reveal a direct spatial relation of these two parameters

Journal: Molecular Imaging and Biology

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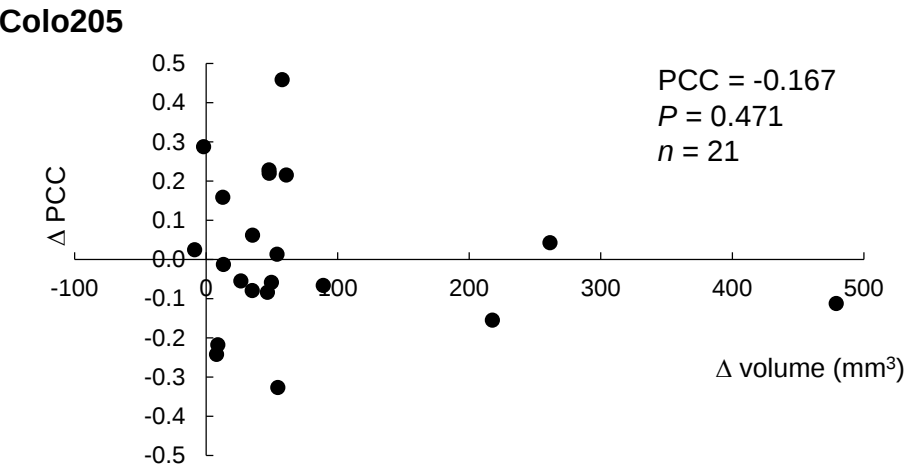
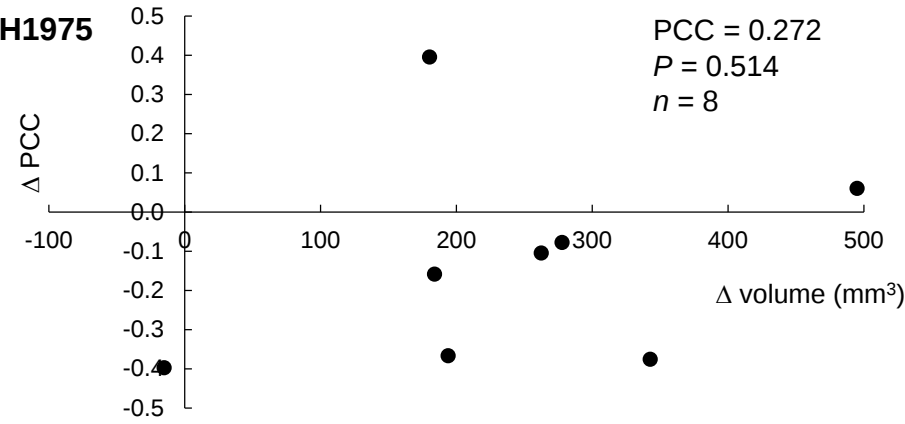
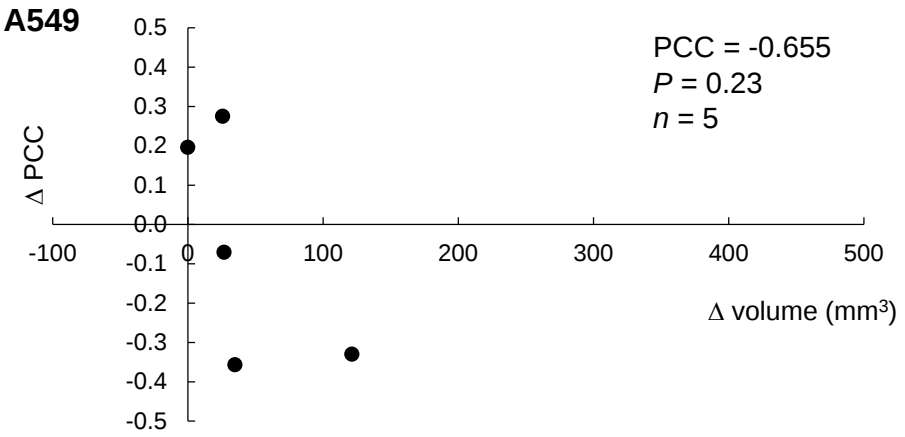
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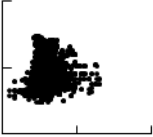
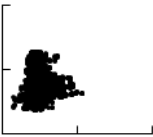
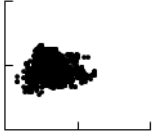
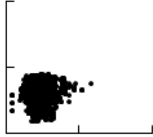
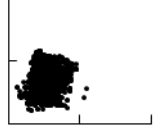
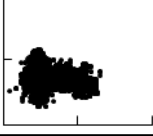
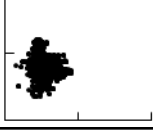
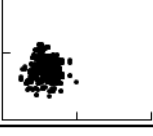
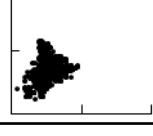
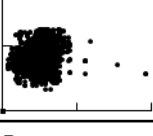
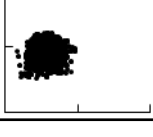


Supplementary Figure 1. Changes (Δ) of PCCs of [^{18}F]FLT vs. ADC plots of all tumors analyzed were plotted against respective changes in tumor volume.

Voxel analyses of the individual tumors of experimental A549 series 1

y-axis ([¹⁸F]FLT): 0-8%ID/ml

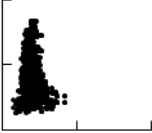
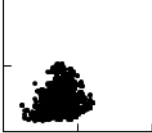
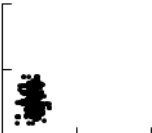
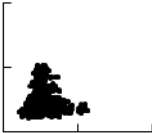
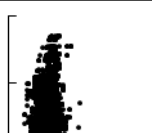
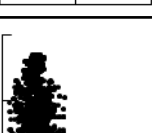
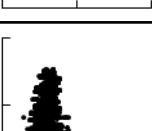
x-axis (ADC): 0-4*10⁻³mm²/s

	baseline		d1	
6112L		PCC = -0.064 P = 4.82E-04 n = 2972 72 mm ²		PCC = -0.135 P = 9.01E-17 n = 3765 131 mm ²
6112R		PCC = -0.229 P = 9.74E-25 n = 1955 51 mm ²		PCC = 0.046 P = 2.87E-03 n = 4191 93 mm ²
6113L		PCC = -0.119 P = 5.67E-14 n = 3942 82 mm ²		PCC = 0.077 P = 8.73E-08 n = 4823 21 mm ²
6113M		PCC = -0.0643 P = 4.25E-04 n = 3002 146 mm ²		PCC = -0.421 P = 0.00E+00 n = 8679 274 mm ²
6113R		PCC = -0.172 P = 3.33E-37 n = 5420 164m m ²		PCC = -0.502 P = 0.00E+00 n = 7375 274mm ²
6110L		PCC = -0.0767 P = 4.05E-12 n = 8150 236 mm ²		
6110M		PCC = -0.314 P = 2.33E-51 n = 2194 55 mm ²		
6110R		PCC = -0.0161 P = 0.653 n = 784 17 mm ²		
6111L		PCC = 0.0719 P = 1.83E-03 n = 1876 63 mm ²		
6111M		PCC = 0.136 P = 7.36E-20 n = 4481 115 mm ²		
6111R		PCC = -0.0271 P = 0.0892 n = 3940 94 mm ²		

Voxel analyses of the individual tumors of experimental H1975 series 1

y-axis ([¹⁸F]FLT): 0-20%ID/ml

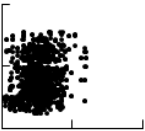
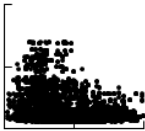
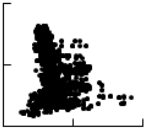
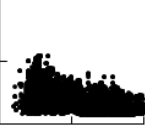
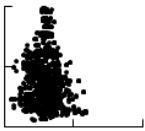
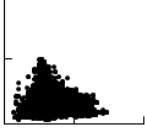
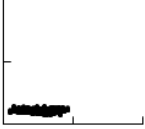
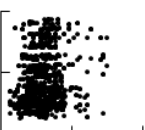
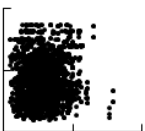
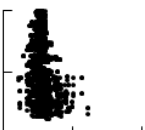
x-axis (ADC): 0-4*10⁻³mm²/s

	baseline		d1	
5837L		PCC = -0.184 <i>P</i> =1.08E-20 <i>n</i> =2515 58 mm ²		PCC =0.211 <i>P</i> =2.77E-59 <i>n</i> =5764 208 mm ²
5837R		PCC =-0.0667 <i>P</i> =0.165 <i>n</i> =436 11 mm ²		PCC =-0.141 <i>P</i> =5.75E-10 <i>n</i> =1922 36 mm ²
5838L		PCC =-0.115 <i>P</i> =5.69E-10 <i>n</i> =2890 54 mm ²		PCC =-0.22 <i>P</i> =1.81E-111 <i>n</i> =10115 331 mm ²
5838R		PCC =0.102 <i>P</i> =4.42E-08 <i>n</i> =2892 64 mm ²		PCC =0.162 <i>P</i> =4.56E-49 <i>n</i> =8120 331 mm ²
5839L		PCC =0.446 <i>P</i> =2.37E-197 <i>n</i> =4054 31 mm ²		
5839R		PCC =-0.154 <i>P</i> =2.75E-04 <i>n</i> =553 31 mm ²		
5840L		PCC =-0.0644 <i>P</i> =4.83E-03 <i>n</i> =1916 39 mm ²		
5840R		PCC = 0.122 <i>P</i> =5.69E-09 <i>n</i> =2268 41 mm ²		

Voxel analyses of the individual tumors of experimental H1975 series 2

y-axis ([¹⁸F]FLT): 0-20%ID/ml

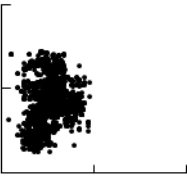
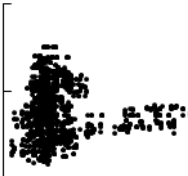
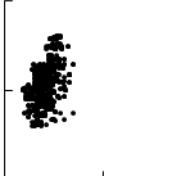
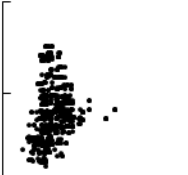
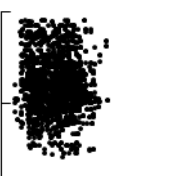
x-axis (ADC): 0-4*10⁻³mm²/s

	baseline		d 1	
5945L		PCC = 0.136 P = 5.70E-08 n = 1588 36 mm ²		PCC = -0.231 P = 1.49E-110 n = 9078 305 mm ²
5945M		PCC = -0.372 P = 3.15E-207 n = 6340 187 mm ²		PCC = -0.45 P = 0.00E+00 n = 13070 458 mm ²
5945R		PCC = -0.204 P = 4.56E-29 n = 2959 136 mm ²		PCC = -0.58 P = 0.00E+00 n = 11290 584 mm ²
5951I		PCC = -0.0723 P = 1.74E-03 n = 1872 23 mm ²		PCC = -0.231 P = 2.83E-69 n = 5664 162 mm ²
5951M		PCC = -0.0593 P = 0.184 n = 504 8 mm ²		PCC = 0.0588 P = 0.0503 n = 1108 21 mm ²
5951R		PCC = 0.474 P = 1.85E-27 n = 466 12 mm ²		PCC = 0.0763 P = 6.28E-04 n = 2004 68 mm ²
5947L		PCC = 0.188 P = 1.78E-10 n = 1135 65 mm ²		
5947M		PCC = 0.0755 P = 2.07E-02 n = 938 12 mm ²		
5947R		PCC = 0.0824 P = 2.33E-06 n = 3279 16 mm ²		
5949L		PCC = -0.238 P = 1.19E-28 n = 2120 40 mm ²		
5949M		PCC = -0.0801 P = 6.28E-13 n = 8051 301 mm ²		
5949R		PCC = 0.163 P = 8.95E-07 n = 899 15 mm ²		

Voxel analyses of the individual tumors of experimental Colo205 series 1

y-axis ([¹⁸F]FLT): 0-10%ID/ml

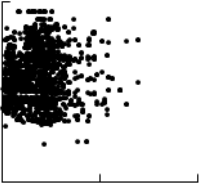
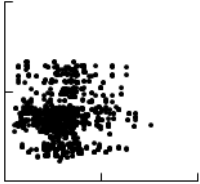
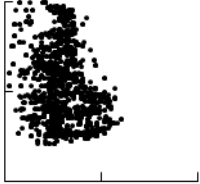
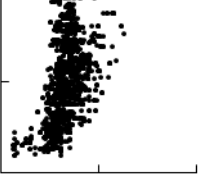
x-axis (ADC): 0-4*10⁻³mm²/s

	baseline	d1	d2	d9
8674R		 PPCC = 0.185 <i>P</i> = 3.84E-18 <i>n</i> =2158 46 mm²	 PCC = -0.0577 <i>P</i> = 1.29E-02 <i>n</i> =1857 43 mm²	 PCC =-0.142 <i>P</i> = 1.10E-13 <i>n</i> =2720 61 mm²
8677L				 PCC = 0.494 <i>P</i> = 9.62E-101 <i>n</i> =1624 20 mm²
8677R				 PCC = 0.315 <i>P</i> = 4.30E-89 <i>n</i> =3827 103 mm²
8678L	 PCC = -0.206 <i>P</i> = 2.77E-13 <i>n</i> =1233 16 mm²	 PCC = 0.0431 <i>P</i> = 9.19E-02 <i>n</i> =1531 15 mm²	 PCC = -0.424 <i>P</i> = 1.37E-91 <i>n</i> =2080 27 mm²	
8678R	 PCC = -0.285 <i>P</i> = 1.69E-45 <i>n</i> =2373 27 mm²	 PCC = -0.127 <i>P</i> = 7.32E-11 <i>n</i> =2606 44 mm²	 PCC = -0.0657 <i>P</i> = 4.06E-04 <i>n</i> =2891 50 mm²	

Voxel analyses of the individual tumors of experimental Colo205 series 1

y-axis ([¹⁸F]FLT): 0-10%ID/ml

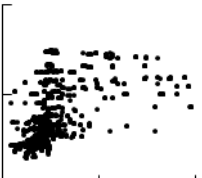
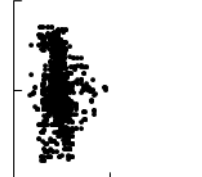
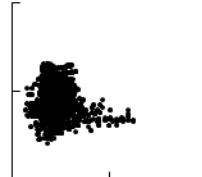
x-axis (ADC): 0-4*10⁻³mm²/s

	baseline
8675L	 PCC = 0.0686 <i>P</i> = 3.94E-03 <i>n</i> =1766 107 mm²
8675R	 PCC = -0.185 <i>P</i> = 1.85E-13 <i>n</i> =1562 25 mm²
8676L	 PCC = -0.233 <i>P</i> = 2.00E-30 <i>n</i> =2356 42 mm²
8676R	 PCC = 0.346 <i>P</i> = 5.31E-50 <i>n</i> =1738 36 mm²

Voxel analyses of the individual tumors of experimental Colo205 series 2

y-axis ([¹⁸F]FLT): 0-10%ID/ml

x-axis (ADC): 0-4*10⁻³mm²/s

	d1	d2	d6	d9	d13
9144L		 PCC = -0.134 P = 3.68E-11 n =2420 16 mm²	 PCC = 0.324 P = 6.92E-67 n =2691 20 mm²	 PCC = 0.023 P = 2.13E-01 n =2931 34 mm²	
9144R		 PCC = -0.0661 P = 5.94E-11 n =9784 236 mm²		 PCC = -0.0238 P = 1.15E-02 n =11250 498 mm²	 PCC = -0.179 P = 6.76E-98 n =13597 419 mm²
9145L	 PCC = -0.0975 P = 3.70E-25 n =11250 25 mm²	 PCC = -0.0733 P = 1.43E-14 n =10985 19 mm²	 PCC = -0.153 P = 1.84E-59 n =11189 33 mm²	 PCC = 0.011 P = 2.19E-01 n =12489 60 mm²	 PCC = -0.14 P = 9.67E-56 n =12546 70 mm²
9145R	 PCC = -0.183 P = 2.00E-07 n =11628 38 mm²	 PCC = 0.104 P = 8.45E-30 n =11791 45 mm²	 PCC = 0.0451 P = 2.44E-07 n =13115 81 mm²	 PCC = 0.0317 P = 2.17E-04 n =13597 76 mm²	