Supplemental Table 1. Percentage of cases displaying tau positive neurons in the entorhinal-hippocampal complex

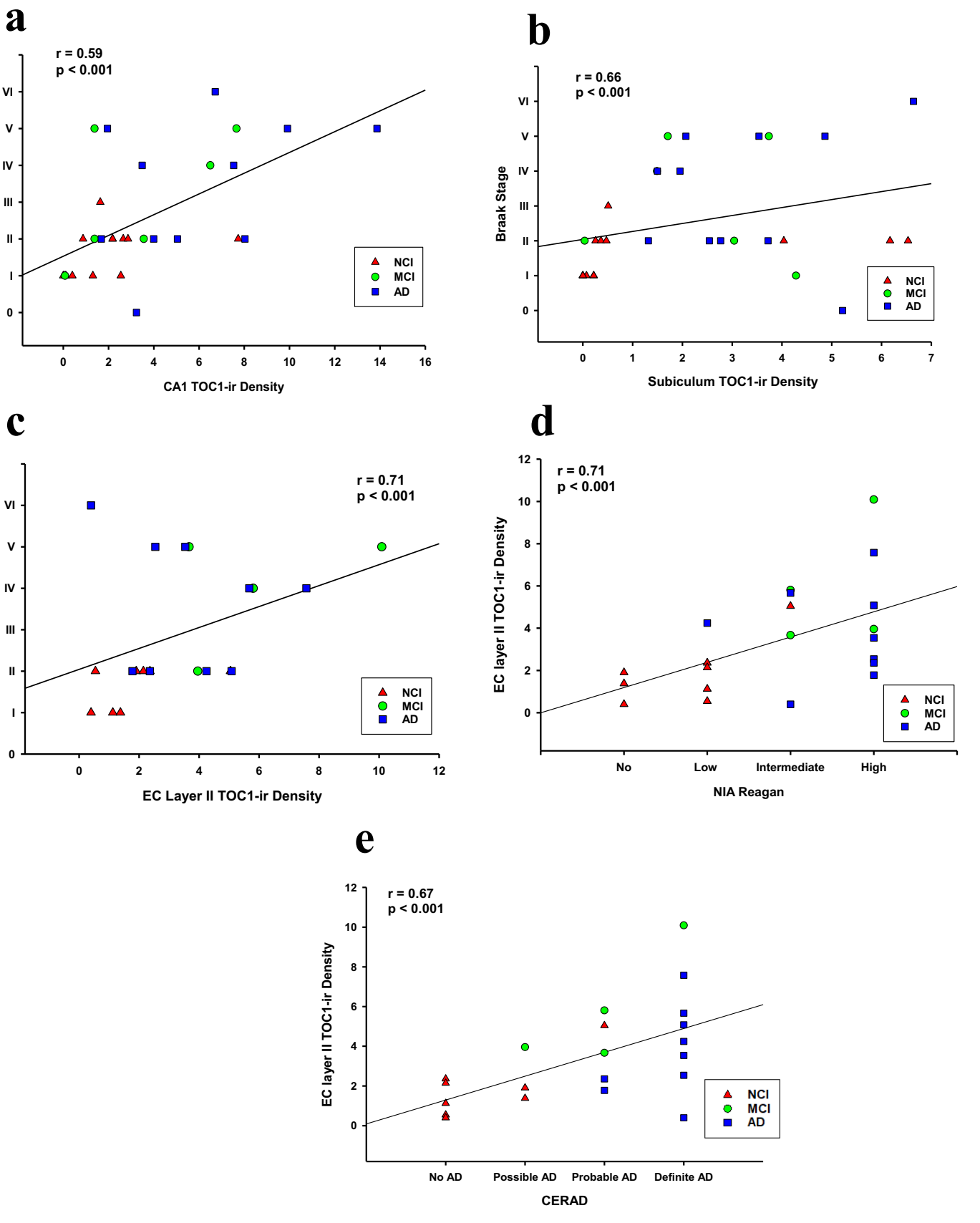
Oligomeric tau TOC1	EC	Sub	CA1	CA2	CA3	Pl	Gl
NCI	89	75	92	82	46	75	67
MCI	100	100	100	100	83	67	67
AD	100	100	100	100	81	67	100
Oligomeric tau TNT1	**EC**	**Sub**	**CA1**	**CA2**	**CA3**	**Pl**	**Gl**
NCI	88	61	92	80	70	60	67
MCI	100	83	83	80	83	100	67
AD	100	100	100	100	100	89	100
Phosphorylated tau AT8	**EC**	**Sub**	**CA1**	**CA2**	**CA3**	**Pl**	**Gl**
NCI	100	92	100	91	66	92	69
MCI	100	83	100	100	100	83	83
AD	100	100	100	100	100	100	100
Truncated tau TauC3	**EC**	**Sub**	**CA1**	**CA2**	**CA3**	**Pl**	**Gl**
NCI	82	46	92	54	39	31	15
MCI	80	50	83	50	50	33	33
AD	91	83	92	82	58	42	25

Supplemental table 2. Correlations between the density of TOC1, TNT1, AT8 and TauC3 in the entorhinal-hippocampal complex across clinical groups

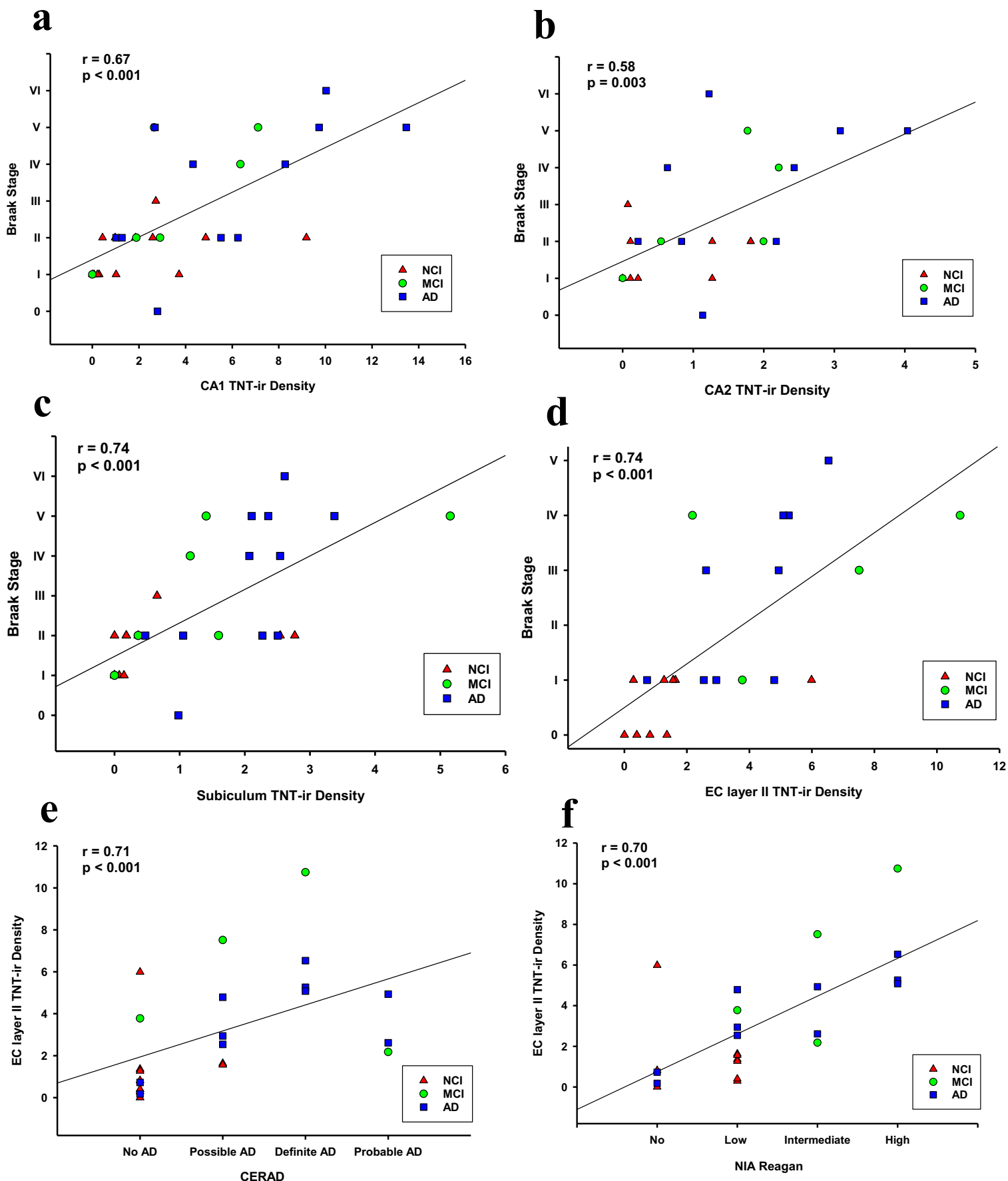
p values / r values		TOC1							TNT1							AT8							TauC3								
		EC	Sub	CA1	CA2	CA3	Pl	Gl	EC	Sub	CA1	CA2	CA3	Pl	Gl	EC	Sub	CA1	CA2	CA3	Pl	Gl	EC	Sub	CA1	CA2	CA3	Pl	Gl		
TOC1	EC		**0.006**	**0.001**	**0.063**	**0.253**	**0.002**	**0.112**	1.8*7	0.045	0.002	0.009	0.057	0.001	0.085	1.8*8	0.004	0.003	0.009	0.031	3.5*5	0.085	0.001	0.001	0.005	0.009	0.020	0.025	0.029	EC	TOC1
	Sub	0.563		1.4*9	1.7*5	0.059	0.001	0.003	0.001	1.1*10	1.5*9	0.001	0.002	0.004	0.001	1.6*4	1.0*10	1.3*9	4.6*8	1.1*4	1.2*4	1.3*4	0.044	1.7*5	1.7*6	1.8*4	0.002	0.315	0.011	Sub	
	CA1	0.638	0.858		3.6*6	0.099	2.9*4	0.002	3.8*4	1.4*8	1.8*12	1.1*4	0.011	0.001	0.001	2.2*5	3.1*11	1.6*16	1.1*6	0.001	3.3*5	4.3*5	0.007	4.0*6	1.4*8	5.2*7	0.010	0.029	0.016	CA1	
	CA2	0.434	0.738	0.773		0.106	0.005	0.013	0.054	0.001	6.9*6	0.001	0.047	0.004	0.006	0.013	1.1*4	4.3*6	6.1*8	0.004	4.2*4	0.001	0.238	0.003	4.2*5	1.4*4	0.022	0.077	0.003	CA2	
	CA3	0.261	0.355	0.312	0.324		0.006	3.6*6	0.485	0.004	0.166	0.328	6.4*5	0.249	1.2*6	0.127	0.009	0.206	0.160	3.4*6	0.003	6.9*6	0.754	0.916	0.763	0.867	0.016	0.210	0.030	CA3	
	Pl	0.633	0.584	0.625	0.531	0.501		6.3*7	0.006	0.002	0.003	0.013	0.001	0.002	6.7*7	0.004	0.001	0.002	4.1*5	0.001	1.1*8	1.5*7	0.144	0.026	0.006	0.017	0.046	0.422	0.327	Pl	
	Gl	0.349	0.520	0.534	0.480	0.745	0.779		0.192	3.6*4	0.026	0.136	1.0*4	0.132	1.2*8	0.026	8.6*5	0.016	0.013	1.1*4	1.0*4	1.3*9	0.318	0.415	0.100	0.243	0.062	0.396	0.188	Gl	
TNT1	EC	0.867	0.647	0.678	0.436	0.157	0.571	0.282		0.021	5.0*4	0.029	0.112	0.013	0.082	2.0*8	0.006	0.001	0.011	0.056	1.7*4	0.059	3.6*4	1.4*4	0.003	0.002	0.154	0.016	0.213	EC	TNT1
	Sub	0.432	0.882	0.822	0.618	0.524	0.558	0.609	0.480		3.5*10	0.007	4.6*4	0.006	7.1*5	0.001	1.5*12	1.4*8	2.7*5	2.4*6	3.1*4	9.3*6	0.006	3.1*4	1.7*5	0.001	0.003	0.580	0.012	Sub	
	CA1	0.628	0.857	0.908	0.759	0.264	0.535	0.406	0.668	0.865		6.2*5	0.006	4.9*4	0.005	7.7*5	2.8*10	1.0*16	1.6*6	1.4*4	8.9*5	4.9*4	0.001	2.1*6	9.8*10	1.2*6	0.006	0.042	0.012	CA1	
	CA2	0.598	0.624	0.698	0.672	0.209	0.498	0.313	0.514	0.522	0.714		0.179	4.5*6	0.093	7.4*4	3.3*4	5.6*5	1.4*5	0.020	0.001	0.012	0.022	7.6*5	7.3*5	5.5*5	0.023	0.016	0.054	CA2	
	CA3	0.432	0.552	0.474	0.410	0.692	0.588	0.668	0.358	0.618	0.504	0.290		0.014	1.2*4	0.012	8.5*4	0.011	0.028	2.4*8	0.001	1.1*5	0.188	0.317	0.194	0.459	0.004	0.569	0.004	CA3	
	Pl	0.704	0.568	0.653	0.588	0.245	0.603	0.316	0.573	0.542	0.656	0.801	0.517		0.080	0.007	9.7*4	0.001	7.2*5	0.001	3.0*6	0.016	0.015	0.001	0.001	0.001	0.020	0.005	0.112	Pl	
	Gl	0.375	0.596	0.562	0.526	0.767	0.778	0.833	0.370	0.652	0.491	0.343	0.664	0.364		0.051	8.4*5	0.008	0.002	1.3*5	3.3*6	4.2*12	0.612	0.148	0.098	0.109	0.007	0.812	0.031	Gl	
AT8	EC	0.896	0.675	0.722	0.512	0.313	0.555	0.436	0.885	0.593	0.686	0.665	0.505	0.566	0.380		6.5*5	5.1*5	0.003	0.005	0.001	0.006	1.0*5	9.8*5	0.001	0.001	0.016	0.020	0.054	EC	AT8
	Sub	0.592	0.883	0.887	0.686	0.477	0.578	0.655	0.552	0.909	0.867	0.660	0.595	0.630	0.647	0.692		5.8*10	8.6*5	2.5*5	4.7*5	4.6*6	0.002	7.4*5	4.1*6	3.1*4	0.008	0.205	0.012	Sub	
	CA1	0.609	0.859	0.953	0.770	0.242	0.559	0.436	0.659	0.822	0.954	0.717	0.471	0.637	0.466	0.699	0.860		3.1*6	0.001	4.2*4	0.001	0.004	8.5*7	1.1*11	5.2*7	0.008	0.061	0.024	CA1	
	CA2	0.553	0.830	0.778	0.853	0.278	0.704	0.462	0.529	0.706	0.770	0.764	0.431	0.721	0.557	0.564	0.673	0.76		0.001	5.7*7	2.4*4	0.132	4.0*5	3.1*6	1.3*6	0.003	0.059	0.005	CA2	
	CA3	0.461	0.646	0.566	0.545	0.746	0.571	0.646	0.405	0.745	0.639	0.475	0.839	0.617	0.707	0.536	0.690	0.567	0.598		2.6*5	1.3*5	0.087	0.048	0.014	0.096	9.3*7	0.686	0.017	CA3	
	Pl	0.764	0.645	0.674	0.641	0.528	0.842	0.650	0.705	0.605	0.645	0.640	0.577	0.798	0.729	0.609	0.664	0.595	0.790	0.689		1.6*7	0.038	0.004	0.001	0.002	0.024	0.038	0.026	Pl	
	Gl	0.375	0.643	0.666	0.611	0.730	0.804	0.858	0.399	0.705	0.589	0.494	0.730	0.488	0.902	0.518	0.722	0.556	0.641	0.705	0.786		0.194	0.078	0.048	0.028	0.052	0.881	0.014	Gl	
TauC3	EC	0.676	0.398	0.507	0.256	0.066	0.301	0.204	0.680	0.513	0.617	0.487	0.278	0.525	0.102	0.761	0.566	0.533	0.310	0.342	0.401	0.258		0.002	0.005	0.009	0.378	0.046	0.228	EC	TauC3
	Sub	0.655	0.699	0.725	0.556	-0.02	0.413	0.155	0.713	0.605	0.738	0.708	0.196	0.650	0.266	0.679	0.651	0.757	0.696	0.364	0.506	0.321	0.558		5.3*10	2.6*8	0.037	0.008	0.055	Sub	
	CA1	0.576	0.751	0.822	0.714	0.059	0.497	0.306	0.586	0.691	0.854	0.709	0.253	0.638	0.302	0.606	0.724	0.895	0.757	0.443	0.550	0.358	0.525	0.861		1.4*7	0.032	0.052	0.105	CA1	
	CA2	0.542	0.642	0.774	0.679	0.033	0.449	0.224	0.610	0.595	0.759	0.717	0.149	0.635	0.298	0.591	0.613	0.774	0.775	0.315	0.542	0.401	0.496	0.822	0.797		0.123	0.008	0.124	CA2	
	CA3	0.491	0.534	0.458	0.448	0.442	0.373	0.345	0.307	0.516	0.485	0.452	0.532	0.471	0.475	0.461	0.466	0.471	0.541	0.763	0.404	0.352	0.177	0.377	0.387	0.288		0.318	0.007	CA3	
	Pl	0.476	0.190	0.393	0.353	-0.24	0.155	-0.16	0.497	0.103	0.368	0.475	-0.11	0.557	-0.05	0.446	0.234	0.340	0.362	0.077	0.374	0.028	0.388	0.469	0.353	0.475	0.185		0.922	Pl	
	Gl	0.466	0.456	0.428	0.565	0.403	0.189	0.247	0.270	0.445	0.445	0.391	0.530	0.333	0.389	0.375	0.447	0.406	0.513	0.433	0.399	0.439	0.240	0.349	0.296	0.287	0.472	0.018		Gl	

* = x10^- ; Gray-shaded area = Spearman correlation coefficient (r) values; Non-shaded area = p values; Bonferroni adjusted correlations: α=0.03.

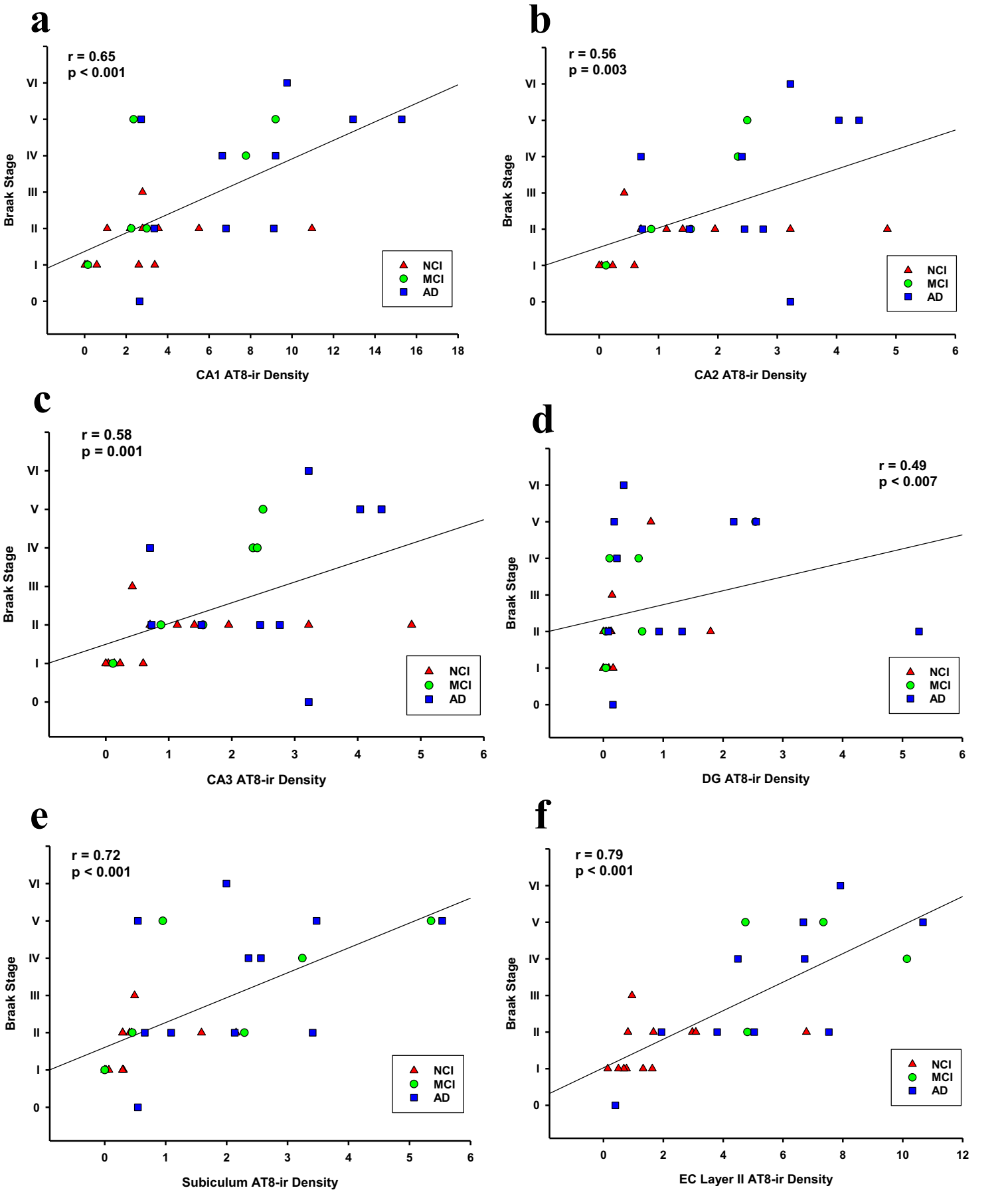
Supplemental Figure 1



Supplemental Figure 2



Supplemental Figure 3



Supplemental Figure 4