Name	Abbr.	obr. Moieties	Group	Chemical	Multiplicity	Interaction	Scalar coupling						T2 [ms]			
INAIIIC		ivioleties		Shift (ppm)	wininplicity	micraction	(Hz)	Slope [e <sup>-4</sup> ppm/C]	STD	b [ppm]	PVV	VM	O	CC	pA	CC
Acetate	Ace	_	<sup>2</sup> CH <sub>3</sub>	1.904	S	_	_	_	_	_	_	_	_		_	_
		Acetyl moiety	<sup>2</sup> CH <sub>3</sub>	2.008	S	_	_	_	_	_	343	34	263	43	253	64
		Agnortata	<sup>2</sup> CH	4.382	dd	2-3	3.86	-0.0234	0.0450	0.0001	310	33	229	38	223	57
N-acetyl aspartate	NAA	Aspartate moiety	$^{3}\mathrm{CH}_{2}$	2.673	dd	2-3'	9.82	2.5070	0.3126	-0.0093	310	33	229	38	223	57
		morety	_	2.486	dd	3-3'	-15.59	-5.9990	0.0505	0.0222	310	33	229	38	223	57
			NH	7.820	d	2-NH	7.90	_	_	_	_	_	_	_	_	_
		Acetyl moiety	<sup>2</sup> CH <sub>3</sub>	2.042	S	_	_	_	_	-	185	22	107	19	128	18
			<sup>2</sup> CH	4.607	dd	2-3/2-3'	4.41	_	_	_	180	27	87	30	108	25
		Aspartate	$^{3}\mathrm{CH}_{2}$	2.721	dd	2-3'	9.52	_	_	_	180	27	87	30	108	25
		moiety	_	2.519	dd	_	-15.91	_	_	_	180	27	87	30	108	25
		,	NH	8.260	_	2-NH	7.32	_	_	_	180	27	87	30	108	25
N-acetyl aspartyl	NAAG		<sup>2</sup> CH	4.128	dd	2-3/2-3'	4.61/8.42	_	_	_	157	23	78	21	110	25
glutamate			3CH <sub>2</sub>	1.881	m	3-3'	-14.28	_	_	_	157	23	78	21	110	25
		Glutamate	_	2.049		3-4/3-4'	10.56/6.09	_	_	_	157	23	78	21	110	25
		moiety	$^4\mathrm{CH}_2$	2.190	m	3'-4/3'-4'	4.90/11.11	_	_	_	157	23	78	21	110	25
		morety	_	2.180	111	4-4'	-15.28	_	_	_	157	23	78	21	110	25
			NH	7.950		2-NH	7.46				157	23	78 78	21	110	25
			<sup>2</sup> CH	3.775		2-1111	7.23	1.5402	0.2368	-0.0057	-					
Alanine	Ala	_	³CH₃	1.467	q d	2-3 —	7.23 —	1.3402	U.2308 —	-0.0037		_	_	_		_
			°СН₃ ⁴CH	4.492	d d	4-5	2.07	_			172		105	16	125	19
										_		25				
Ascorbic Acid	Asc	_	⁵CH	4.002	m	5-6	6.00	_	_	_	172	25	105	16	125	19
		_	$^6\mathrm{CH}_2$	3.743	m	5-6'	7.60	_	_	_	172	25	105	16	125	19
				3.716		6-6'	-11.50	_			172	25	105	16	125	19
		_	$^{2}\mathrm{CH}_{2}$	2.287	t	2-3/2-3'	7.66/7.10	-0.0211	0.0346	0.0001	n.a.	n.a.	75	25	102	19
		_	_	2.287	_	2'-3/2'-3'	7.06/7.69	7.2800	0.1022	-0.0269	n.a.	n.a.	75	25	102	19
γ-Aminobutyric acid	GARA	_	$^{3}\mathrm{CH}_{2}$	1.892	m	3-3'	-10.82	_	_	_	n.a.	n.a.	75	25	102	19
1-11mmobuty11c acid	GALDA			1.895		3-4/3-4'	5.70/8.02				n.a.	n.a.	75	25	102	19
		_	$^4\mathrm{CH}_2$	3.003	t	3'-4/3'-4'	10.03/6.53	_	_	_	n.a.	n.a.	75	25	102	19
				3.005		4-4'	-9.93				n.a.	n.a.	75	25	102	19
		_	<sup>2</sup> CH	3.891	dd	2-3	3.65	-0.0691	0.1863	0.0003	148	21	90	27	111	20
Aspartate	Asp	_	$^{3}\mathrm{CH}_{2}$	2.804	dd	2-3'	9.11	4.1970	0.1913	-0.0155	148	21	90	27	111	20
		_	_	2.670	dd	3-3'	-17.43	4.1970	0.1913	-0.0155	148	21	90	27	111	20
		_	(CH <sub>3</sub> ) <sub>3</sub>	3.185	S	_	_	_	_	_	213	25	221	51	274	60
		_	$^{1}CH_{2}$	4.054	m	1-2/1-2'	3.14/6.98	_	_	_	1778	20	191	49	243	51
Choline	Ch	_	_	_	_	1'-2/1'-2'	7.01/3.17	_	_	_	1778	20	191	49	243	51
		_	$^{2}CH_{2}$	3.501	m	1-1'	-14.10	_	_	_	1778	20	191	49	243	51
		_	_	_	_	2-2'	-14.10	_			1778	20	191	49	243	51
		_	CH <sub>3</sub>	3.027	S	_	_	_	_	_	166	11	144	17	148	22
Creatine	Cr	_	CH <sub>2</sub>	3.913	S	_	_	-6.2166	0.1158	0.0230	129	13	112	18	134	15
		_	NH	6.65	s	_	_	-	_	_	_	_	_	_	_	_
		_	<sup>1</sup> CH <sub>2</sub>	3.818	m	1-2/1'-2'	3.85	_		_	_					
Ethanolamine	Eth	_	— —	J.616 —	_	1'-2/1'-2'	6.75	_	_	_	_	_	_	_	_	_
Linanoiamint	EIII	_	2CH <sub>2</sub>	3.147		1-1'/2-2'	-10.20	_	_	_		_	_	_	_	_
			-СП <sub>2</sub>	3.147	m	1-1/2-2	-10.20	_								

Name	Abbr.	Moieties	Group	Chemical	Multiplicity	Interaction	Scalar coupling	Temperatue-indu	ced Freque	ncy shift	T2 [ms] +- STD						
	Audi.	Wioleties		Shift (ppm)			(Hz)	Slope [e <sup>-4</sup> ppm/C]	STD	b [ppm]	PV		O		pA		
		_	¹CH	5.216	d	1-2	3.80	_	_	_	155	23	88	25	117	22	
		_	<sup>2</sup> CH	3.519	dd	2-3	9.60	_	_	_	155	23	88	25	117	22	
Glucose, α-anomer		_	³CH	3.698	dd	3-4	9.40	_	_	_	155	23	88	25	117	22	
(36%)	GlcA	_	<sup>4</sup> CH	3.395	dd	4-5	9.90	_	_	_	155	23	88	25	117	22	
(3070)		_	⁵CH	3.822	m	5-6	1.50	_	_	_	155	23	88	25	117	22	
		_	6CH	3.826	dd	5-6'	6.0	_	_	_	155	23	88	25	117	22	
		_	6'CH	3.749	dd	6-6'	-12.1	_	-	_	155	23	88	25	117	22	
		_	¹CH	4.630	d	1-2	8.00	_	_	_	156	28	90	25	128	20	
		_	<sup>2</sup> CH	3.230	dd	2-3	9.10	_	_	_	156	28	90	25	128	20	
Cl 0		_	³CH	3.473	dd	3-4	9.40	_	-	_	156	28	90	25	128	20	
Glucose, β-anomer (64%)	GlcB	_	4CH	3.387	dd	4-5	8.90	_	-	_	156	28	90	25	128	20	
		_	⁵CH	3.450	m	5-6	1.60	_	-	_	156	28	90	25	128	20	
		_	6CH	3.882	dd	5-6'	5.40	_	_	_	156	28	90	25	128	20	
		_	6'CH	3.707	dd	6-6'	-12.3	_	_	_	156	28	90	25	128	20	
		_	<sup>2</sup> CH	3.748	dd	2-3/2-3'	7.33/4.65	-3.4740	0.2701	0.0129	124	37	122	32	135	28	
		_	$^{3}\mathrm{CH}_{2}$	2.046	m	3-3'	-14.76	_	_	_	124	37	122	32	135	28	
Glutamate	Glu	_	_	2.120	_	3-4/3-4'	6.28/8.70	4.8710	0.1684	-0.0180	124	37	122	32	135	28	
		_	$^4\mathrm{CH}_2$	2.334	m	3'-4/3'-4'	8.77/6.73	-0.3854	0.1853	0.0014	124	37	122	32	135	28	
			_	2.352		4-4'	-16.03	-3.4450	0.2829	0.0127	124	37	122	32	135	28	
Glutamine	Gln	_	<sup>2</sup> CH	3.767	dd	2-3/2-3'	6.71/5.91	-0.5810	0.3044	0.0021	168	33	99	21	122	19	
Giutamine	Gili	_	$^{3}\mathrm{CH}_{2}$	1.121	m	3-3'	-14.45	3.4090	0.2326	-0.0126	168	33	99	21	122	19	
		_	_	2.137	_	3-4/3-4'	6.18/9.40	7.6150	0.2199	-0.0282	168	33	99	21	122	19	
Glutamine	Gln	_	$^4\mathrm{CH}_2$	2.431	m	3'-4/3'-4'	9.34/6.32	2.9690	0.1650	-0.0110	168	33	99	21	122	19	
				2.458		4-4'	-15.61	_	_	_	168	33	99	21	122	19	
		Glycine moiety	$^{2}\mathrm{CH}_{2}$	3.769	S	_	_	_	_	_	145	21	72	17	99	16	
		Gryenic molecy	NH	7.154	S	_	_	_	_	_	145	21	72	17	99	16	
			<sup>2</sup> CH	4.561	dd	2-3	7.09	_	_	_	145	21	77	22	100	17	
		Cysteine moiety	$^{3}\mathrm{CH}_{2}$	2.926	dd	2-3'	4.71	_	_	_	145	21	77	22	100	17	
		Cysteme morety	_	2.975		3-3'	-14.06	_	_	_	145	21	77	22	100	17	
Glutathione	GSH		NH	8.177	S	_	_	_	_	_	145	21	77	22	100	17	
			<sup>2</sup> CH	3.769	dd	2-3/2-3'	6.34/6.36	_	_	_	165	30	76	21	102	20	
		Glutamate	$^{3}\mathrm{CH}_{2}$	2.146	m	3-3'	-15.48	_	_	_	165	30	76	21	102	20	
		moiety	_	2.159	_	3-4/3-4'	6.70/7.60	_	_	_	165	30	76	21	102	20	
			$^4\mathrm{CH}_2$	2.510	m	3'-4/3'-4'	7.60/6.70	_	_	_	165	30	76	21	102	20	
				2.560		4-4'	-15.92	_			165	30	76	21	102	20	

3

Name  Glycerol	Abbr.  Glycerol	Moieties  — —	Group ¹CH <sub>2</sub>	Chemical Shift (ppm)	Multiplicity	Interaction	Scalar coupling				l		T2 [ms]			
Glycerol	Glycerol		¹CH₂				(Hz)	Slope [e <sup>-4</sup> ppm/C]	STD	b [ppm]	PVV	VM	OC	CC	pA	CC
Glycerol	Glycerol	_	C112	3.552	dd	1-2/2-3	4.43	_	_	_	_	_	_	_	_	
Glycerol	Glycerol		_	3.640	dd	1'-2/2-3'	6.49	_	_	_	_	_	_	_	_	-
		_	<sup>2</sup> CH	3.770	m	1-1'/3-3'	-11.72	_	_	_	_	_	_	_	_	-
		_	$^{3}\mathrm{CH}_{2}$	3.522	dd	_	_	_	_	_	_	_	_	_	_	-
		_	_	3.640	dd	_	_	_	_	_	_	_	_	_	_	-
			<sup>1</sup> CH <sub>2</sub>	3.605	dd	1-2/1'-2	5.77/4.56	_	_	_	182	22	213	56	257	57
			_	3.672	dd	1-1'	-14.78	_	_	_	182	22	213	56	257	57
		Glycerol moiety	<sup>2</sup> CH	3.903	m	2-3/2-3'	5.77/4.56	_	_	_	182	22	213	56	257	57
			$^{3}\mathrm{CH}_{2}$	3.871	m	3-3'	-14.78	_	_	_	182	22	213	56	257	57
Glycerophospho-	CDC		_	3.946	m	3,3'-P	6.03	_	_	_	182	22	213	56	257	57
choline	GPC		(CH <sub>3</sub> ) <sub>3</sub>	3.212	S	_	_	_	_	_	218	22	222	49	274	61
		Phosphocholine moiety	$^{1}\mathrm{CH}_{2}$	4.312	m	1-2/1-2'	3.10/5.90	_	_	_	178	20	222	49	274	61
			_	_		1'-2/1'-2'	5.90/3.10									
			$^{2}\mathrm{CH}_{2}$	3.659	m	1-1'/2-2'	-9.32	_	_	_	178	20	222	49	274	61
			_	_		1,1'-P	6.03									
Glycine	Gly	_	<sup>2</sup> CH <sub>2</sub>	3.547	S		_		_	_	152	27	72	22	100	17
			<sup>2</sup> CH	4.467	dd	2-3	5.02		_	_	_	_	_	_	_	_
		Alanine moiety	$^{3}\mathrm{CH}_{2}$	3.191	dd	2-3'	8.64	_	_	_	_	_	_	_	_	_
	Hom	,	_	3.013	dd	3-3'	-15.30	_	_	_	_	_	_	_	_	_
			$^{2}\mathrm{CH}_{2}$	2.944	m	2-2'	-12.5	_	_	_	_	_	_	_	_	_
			_	2.969	m	2-3/2-3'	8.0	_	_	_	_	_	_	_	_	_
			$^{3}\mathrm{CH}_{2}$	1.881	m	2-3'/2'-3	7.5	_	_	_	_	_	_	_	_	_
Homocarnosine		GABA moiety	_	1.896	m	3-3'	-13.9	_	_	_	_	_	_	_	_	_
		•	$^4\mathrm{CH}_2$	2.348	m	3-4/3-4'	7.5	_	_	_	_	_	_	_	_	_
	Hom		_	2.378	m	3-4'/3-4'	7.5	_	_	_	_	_	_	_	_	_
			_	_	_	4-4'	-15.2	_	_	_	_	_	_	_	_	_
		Imidazole	<sup>2</sup> CH	8.08d	S	_	_	_	_	_	_	_	_	_	_	_
		moiety	4CH	7.08d	S	_	_	_	_	_	_	_	_	_	_	_
			<sup>2</sup> CH	4.008	dd	2-3/2-3'	7.65/4.04	_	_	_	_	_	_	_	_	_
		_	$^{3}\mathrm{CH}_{2}$	1.822	m	3-3'	-14.00	_	_	_	_	_	_	_	_	_
2-Hydroxyglutarate	2HG	_	_	1.980	m	3-4/3-4'	5.25/10.66	_	_	_	_	_	_	_	_	_
, ,,		_	$^4\mathrm{CH}_2$	2.221	m	3'-4/3'-4'	10.84/5.86	_	_	_	_	_	_	_	_	_
		_	_	2.270	m	4-4'	-14.91	_	_	_	_	_	_	_	_	_
		_	¹CH	3.522	dd	1-2	2.89	_	_	_	161	37	229	105	244	61
		_	<sup>2</sup> CH	4.054	dd	2-3	3.01	3.5590	0.0483	-0.0132	161	37	229	105	244	61
	-	_	³СН	3.522	dd	3-4	10.00	_	_	_	161	37	229	105	244	61
myo-Inositol	m-Ins	_	⁴CH	3.614	dd	4-5	9.49	3.1430	0.1217	-0.0116	161	37	229	105	244	61
		_	⁵CH	3.269	dd	5-6	9.48	-3.1710	0.0725	0.0117	161	37	229	105	244	61
		_	<sup>6</sup> CH	3.614	dd	1-6	10.00	31.4300	0.1217	-0.1163	161	37	229	105	244	61
scyllo-Inositol	s-Ins	_	1-6CH	3.340	S	_	_	_	_	-	170	28	107	17	125	19
		_	<sup>2</sup> CH	4.097	q	2-3	6.93	-3.1866	0.1977	0.0118	159	26	99	19	110	24
Lactate	Lac	_	3CH3	1.313	d	_	_	_	_	_	159	26	99	19	110	24

Name	Abbr.	Moieties	Group	Chemical	Multiplicity	Interaction	Scalar coupling	Temperatue-indu		•				+- STD		
	71001.	Wioleties	•	Shift (ppm)			(Hz)	Slope [e <sup>-4</sup> ppm/C]	STD	b [ppm]	PVV	WM	O	CC	pA	.CC
			<sup>2</sup> CH	3.975	dd	2-3/2-3'	8.01/5.21	_	_	_	_	_	_	_	_	_
		Alanine moiety	$^{3}\mathrm{CH}_{2}$	3.105	dd	3-3'	-14.57	_	_	_	_	_	_	_	_	_
			_	3.273	dd	_	_	_	_	_	_	_	_	_	_	_
Phenylalanine	PA		¹CH	7.369	m	1-2/1-2'	7.2/7.5	_	_	_	_	_	_	_	_	_
гиенувавание	IA		<sup>2</sup> CH	7.420	m	1-3/1-3'	1.6/1.0	_	_	_	_	_	_	_	_	_
		Phenyl moiety	³CH	7.322	m	2-3/2-3'	7.9/0.5	_	_	_	_	_	_	_	_	_
						2'-3/2'-3'	0.5/7.4	_	_	_	_	_	_	_	_	_
						3-3'	1.4	_	_	_	_	_	_	_	_	_
		_	(CH <sub>3</sub> ) <sub>3</sub>	3.209	S	_	_	_	_	_	213	25	221	51	274	60
		_	$^{1}CH_{2}$	4.282	m	1-2/1-2'	2.28/7.23	_	_	_	1778	20	191	49	243	51
Phosphocholine	PCh	_	_	_	m	1'-2/1'-2'	7.33/2.24	_	_	_	1778	20	191	49	243	51
-		_	$^{2}CH_{2}$	3.643	m	1-1'/2-2'	-14.9/-14.2	_	_	_	1778	20	191	49	243	51
		_	_		m	1,1'-P	6.27	_	_	_	1778	20	191	49	243	51
Phosphocreatine		_	CH <sub>3</sub>	3.029	S	_	_	_	_	_	_	_	_	_	_	_
	PCr	_	$^{2}\mathrm{CH}_{2}$	3.930	S	_	_	-6.6944	0.1891	0.0248	_	_	_	_	_	_
		_	NH	6.58/7.30	S	_	_	_	_	_	_	_	_	_	_	_
		_	<sup>1</sup> CH <sub>2</sub>	3.977	m	1-2/1-2'	3.18/6.72	_	_	_	158	25	86	26	119	25
Phosphoethanol-	PE	_	_	_	m	1'-2/1'-2'	7.20/2.98	_	_	_	158	25	86	26	119	25
amine	PE	_	$^{2}\mathrm{CH}_{2}$	3.216	m	1-1'/2-2'	-14.6/-14.7	_	_	_	158	25	86	26	119	25
		_	_	_	m	1,1'-P	7.18	_	_	_	158	25	86	26	119	25
Pyruvate	Pyr	_	3CH3	2.358	S	_	_	_	_	_	_	_	_	_	_	_
	Ser	_	<sup>2</sup> CH	3.835	dd	2-3/2-3'	5.98	_	_	_	_	_	_	_	_	_
Serine		_	$^{3}\mathrm{CH}_{2}$	3.937	dd	3-3'	3.56	_	_	_	_	_	_	_	_	_
		_	_	3.976	dd		-12.3	_	_	_	_	_	_	_	_	_
Succinate	Suc	_	<sup>2</sup> CH <sub>2</sub>	2.394	S	_	_	_	_	_	_	_	_	_	_	_
		_	<sup>1</sup> CH <sub>2</sub>	3.420	dd	1-2/1-2'	6.74/6.46	3.2098	0.0612	-0.0119	n.a.	n.a.	102	18	123	23
Taurine	Tau	_	$^{2}\mathrm{CH}_{2}$	3.246	dd	1'-2/1'-2'	6.40/6.79	_	_	_	n.a.	n.a.	102	18	123	23
		_	_	_	_	1-1'/2-2'	-12.4/-12.9	_	_	_	n.a.	n.a.	102	18	123	23
		_	<sup>2</sup> CH	3.578	d	2-3	4.92	_	_	_	_	_	_	_	_	_
Threonine	Thr	_	³CH	4.246	m	3-4	6.35	_	_	_	_	_	_	_	_	_
		_	<sup>4</sup> CH₃	1.316	d	_	_	_	_	_	_	_	_	_	_	_
			<sup>2</sup> CH	4.047	dd	2-3/2-3'	8.15/4.85	_	_	_	_	_	_	_	_	_
		Alanine moiety	$^{3}\mathrm{CH}_{2}$	3.290	dd	3-3'	-15.37	_	_	_	_	_	_	_	_	_
			_	3.475	dd	_	_	_	_	_	_	_	_	_	_	_
T	т	Indole moiety	<sup>2</sup> CH	7.312	S	_	_	_	_	_	_	_	_	_	_	_
Tryptophan	Try	_	4CH	7.726	m	4-5/4-6	7.60/1.00	_	_	_	_	_	_	_	_	_
		_	5CH	7.278	m	4-7	0.95	_	_	_	-	_	_	_	_	_
		_	6CH	7.197	m	5-6/5-7	7.51/1.20		_	_	_	_	_	_	_	_
		_	7CH	7.536	m	6-7	7.68	_	_	_	_	_	_	_	_	_

Name	Abbr.	Moieties	Group	Chemical	Multiplicity	Interaction	Scalar coupling					T2 [ms] +- STD						
Name				Shift (ppm)			(Hz)	Slope [e <sup>-4</sup> ppm/C]	STD	b [ppm]	PVWM		OCC		pA	.CC		
Tyrosine			<sup>2</sup> CH	3.928	dd	2-3/2-3'	7.88/5.15	_	_	_	_	_	_	_	_			
	Tyr	Alanine moiety	$^{3}\mathrm{CH}_{2}$	3.037	dd	3-3'	-14.73	_	_	_	_	_	_	_	_	_		
			_	3.192	dd	_	_	_	_	_	_	_	_	_	_	_		
		Phenol moiety	<sup>2</sup> CH	6.890	m	2-3/2-3'	7.98/0.46	_	_	_	_	_	_	_	_	_		
	Tyr		³CH	7.186	m	2'-3/2'-3'	0.31/8.65	_	_	_	_	_	_	_	_	_		
			_	_	m	2-2'/3-3'	2.45/2.54	_	_	_	_	_	_	_	_	_		
		_	<sup>2</sup> CH	3.595	dd	2-3	4.41	_	_	_	_	_	_	_	_			
Valine	Val	_	³CH	2.259	m	3-4	6.97	_	_	_	_	_	_	_	_	_		
vanne	Val	_	<sup>4</sup> CH₃	1.028	dd	3-4'	7.07	_	_	_	_	_	_	_	_	_		
		_	4'CH3	0.977	dd	_	_	_	_	_	_	_	_	_	_	_		
Water	Water	_	$H_2O$	4.65	S	_	_	_	_	_	_	_	_	_	_	_		

## **Citations:**

- 1 De Graaf, R. A. (2019). In Vivo NMR Spectroscopy: Principles and Techniques. Third Edition. John Wiley & Sons.
- 2 Wermter, F., Mitschke, N., Bock, C., & Dreher, W. (2017). Temperature dependence of 1H NMR chemical shifts and its influence on estimated metabolite concentrations. Magnetic Resonance Materials in Physics Biology and Medicine, 30(6), 579–590. https://doi.org/10.1007/s10334-017-0642-z
- 3 Wyss, P., Bianchini, C., Scheidegger, M., Giapitzakis, I., Hock, A., Fuchs, A., & Henning, A. (2018). In vivo estimation of transverse relaxation time constant (T2) of 17 human brain metabolites at 3T. Magnetic Resonance in Medicine, 80(2), 452–461. https://doi.org/10.1002/mrm.27067
- 4 Choi, C. G., Ganji, S. K., DeBerardinis, R. J., Hatanpaa, K. J., Rakheja, D., Kovacs, Z., Yang, X., Mashimo, T., Raisanen, J. M., Marin-Valencia, I., Pascual, J. M., Madden, C. J., Mickey, B. E., Malloy, C. R., Bachoo, R., & Maher, E. A. (2012). 2-hydroxyglutarate detection by magnetic resonance spectroscopy in IDH-mutated patients with gliomas. Nature Medicine, 18(4), 624–629. https://doi.org/10.1038/nm.2682

## Abbreviations

PVWM periventricular white matter

OCC occipital cortex

pACC pregenual anterior cingulate cortex