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APPENDIX - Ia : INDIVIDUAL DATA ON POLYPI LEVELS AT DIFFERENT TIMES POST-MORTEM IN 21 AND 56 DAY OLD RAT BRAINS.

Rat number	Body weight (g)	Tissue weight (g)	PtdIns(4,5)P ₂		PtdIns4P	
			O.D.at 820 mμ	nmol/g wet wt	O.D.at 820 mμ	nmol/g wet wt
1	2	3	4	5	6	7

21 DAYS

HEADS FROZEN AT - "0 MIN"

1	51.0	1.466	276; 512	245	120; 340	199
2	54.0	1.524	238; 443	203	150; 240	179
3	44.0	1.352	292; 505	271	163; 270	223
4	42.5	1.207	218; 290	257	116; 135	191
5	46.5	1.270	325; 242	273	128; 110	172

HEADS FROZEN AT - 1 MIN

6	43.0	1.380	191; 360	181	120; 212	165
7	48.0	1.410	189; 340	171	115; 203	155
8	43.0	1.338	179; 347	177	93; 234	158
9	42.5	1.450	245; 202	189	100; 80	114
10	47.0	1.420	245; 200	193	148; 95	157

HEADS FROZEN AT - 10 MIN

11	47.5	1.420	276; 288	151	164; 168	133
12	43.0	1.345	272; 260	150	146; 118	111
13	44.5	1.356	236; 260	139	138; 122	109

contd...

APPENDIX - Ia : contd.

1	2	3	4	5	6	7
<u>HEADS FROZEN AT - 20 MIN</u>						
14	42.0	1.310	200; 216	120	104; 96	86
15	45.5	1.345	212; 228	125	112; 128	102
<u>HEADS FROZEN AT - 30 MIN</u>						
16	42.0	1.310	182; 170	102	102; 114	94
17	48.0	1.412	234; 214	120	106; 118	90
<u>HEADS FROZEN AT - 40 MIN</u>						
18	40.0	1.304	178; 174	102	100; 100	87
19	44.0	1.328	178; 166	98	78; 82	69
<u>HEADS FROZEN AT - 70 MIN</u>						
20	41.5	1.316	150; 150	86	72; 68	60
21	42.0	1.318	174; 170	99	60; 60	52
56 DAYS						
<u>HEADS FROZEN AT - "0 MIN"</u>						
22	169	1.497	384; 408	402	198; 228	324
23	160	1.440	418; 402	432	218; 208	337
24	172	1.575	472; 450	444	204; 212	301

contd...

APPENDIX - Ia : contd.

1	2	3	4	5	6	7
<u>HEADS FROZEN AT - 1 MIN</u>						
25	165	1.685	364; 342	318	160; 170	223
26	172	1.690	315; 337	293	162; 188	236
27	168	1.685	364; 378	334	172; 152	219
<u>HEADS FROZEN AT - 10 MIN</u>						
28	145	1.585	222; 226	214	150; 158	222
29	160	1.625	254; 280	249	184; 172	249
<u>HEADS FROZEN AT - 20 MIN</u>						
30	160	1.620	224; 232	214	159; 155	221
31	156	1.598	244; 224	222	168; 162	236
<u>HEADS FROZEN AT - 30 MIN</u>						
32	152	1.582	156; 160	152	144; 136	201
33	158	1.590	176; 192	176	172; 148	230
<u>HEADS FROZEN AT - 40 MIN</u>						
34	151	1.568	148; 138	138	120; 124	177
35	154	1.560	148; 160	150	144; 148	213
<u>HEADS FROZEN AT - 60 MIN</u>						
36	144	1.544	130; 138	132	112; 112	165
37	148	1.562	119; 123	118	130; 124	185

"0 MIN" values represent 2 sec post-mortem levels.

APPENDIX - Ib : INDIVIDUAL DATA ON POLYPI LEVELS IN THE DEVELOPING RAT BRAIN.

Rat# number	Body weight (g)	Tissue weight (g)	PtdIns (4,5)P ₂		PtdIns4P	
			O.D. at 820mμ*	nmoles/g wet wt	O.D. at 820 mμ	nmoles/g wet wt
1	2	3	4	5	6	7

0 DAY

HEADS FROZEN AT - "0MIN"

1	7.5					
2	7.0		1354		542	
3	7.0	1.419	1306	113	578	71
4	7.5					
5	5.5					
6	6.5		988	103	658	97
7	7.0	1.252	1172		702	
8	7.0					

HEADS FROZEN AT - "1 MIN"

9	5.0					
10	5.0		868	93	528	87
11	6.5	1.074	796		512	
12	6.0					

APPENDIX - I b : contd.

1	2	3	4	5	6	7
13	5.5					
14	5.5	0.983	784	98	642	80
15	5.5		932		670	
16	6.0					
7 DAYS						
HEADS FROZEN AT - 0 MIN"						
17	13.0					
18	13.0	2.410	786	148	320	90
19	14.5		824		330	
20	13.5					
21	12.0					
22	13.5	2.378	674	123	400	107
23	13.5		646		368	
24	14.0					
25	16.0					
26	16.5	3.297	1084	221	368	112
27	14.0		1156		392	
28	14.0					

contd....

APPENDIX - 16 ; contd.

1	2	3	4	5	6	7
29	15.0					
30	13.5	2.568	626	162	276	109
31	14.0		654		300	
32	16.0					
HEADS FROZEN AT - "1 MIN"						
33	15.0					
34	14.5	2.606	576	102	300	80
35	13.0		624		328	
36	14.5					
37	13.5					
38	14.0	2.522	476	80	242	66
39	14.0		434		258	
40	15.0					
41	14.0					
42	15.5	3.483	712	132	482	132
43	17.0		700		462	
44	17.0					
45	16.5					
46	16.5	3.577	500	94	448	126
47	17.5		532		476	
48	14.5					
						383
						contid...

APPENDIX - Ib : contd.

1	2	3	4	5	6	7
14 DAYS						
HEADS FROZEN AT - "0 MIN"						
49	26.0	1.155	312; 334	207	140; 128	128
50	25.5	1.110	332; 286	204	144; 176	160
51	25.0	1.090	328; 276	204	188; 152	173
61	28.0	1.233	344; 328	220	142; 150	143
62	25.5	1.118	336; 348	247	144; 140	155
63	25.0	1.125	334; 326	197	90; 100	85
64	27.0	1.135	346; 374	213	104; 126	102
65	24.5	1.090	345; 345	212	116; 124	111
HEADS FROZEN AT - "1 MIN"						
66	27.0	1.290	262; 282	142	90; 100	74
67	24.5	1.210	215; 245	128	112; 128	99
68	27.0	1.220	240; 260	138	128; 122	103
69	25.0	1.214	370; 345	198	112; 112	111
70	25.0	1.170	300; 310	175	174; 146	138

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APPENDIX - Ib : contd.

1	2	3	4	5	6	7
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21 DAYS

HEADS FROZEN AT - "0 MIN"

Rats numbered (1-5) from appendix Ia were taken for calculations.

71	45.0	1.332	198; 222	240	102; 114	185
72	48.0	1.333	202; 218	239	138; 126	226
73	41.0	1.295	300; 300	353	188; 148	295
74	44.0	1.367	316; 300	343	105; 115	182

HEADS FROZEN AT - "1 MIN"

Rats numbered (6-10) from appendix Ia were taken for calculations

75	42.0	1.385	196; 204	220	114; 122	193
76	44.5	1.346	192; 208	225	138; 154	246
77	40.5	1.242	208; 180	236	98; 90	171
78	46.0	1.410	176; 188	197	112; 108	177

34 DAYS

HEADS FROZEN AT - "0 MIN"

79	65.0	1.415	500; 532	444	204; 172	242
80	63.0	1.410	490; 480	420	158; 175	216
81	78.0	1.400	392; 412	424	140; 132	214
82	76.5	1.530	434; 454	428	178; 166	248

contd...

APPENDIX - Ib : contd.

1	2	3	4	5	6	7
83	77.0	1.500	434; 466	455	174; 170	262
84	72.0	1.533	410; 430	416	146; 170	235
85	70.0	1.482	428; 444	447	140; 144	220
<u>HEADS FROZEN AT - "1 MIN"</u>						
86	58.0	1.505	150; 171	262	75; 90	215
87	70.0	1.655	185; 175	296	142; 142	210
88	83.0	1.650	266; 290	243	156; 164	214
89	83.0	1.655	240; 260	224	134; 134	180
90	72.0	1.568	328; 292	300	148; 132	205
91	75.0	1.658	276; 284	257	136; 148	196
92	72.0	1.600	266; 250	245	150; 134	202
<u>63 DAYS</u>						
<u>HEADS FROZEN AT - "0 MIN"</u>						
93	153.0	1.485	420; 390	489	90; 106	178
94	144.0	1.500	388; 400	471	92; 100	184
95	210.0	1.743	474; 486	494	164; 188	272
96	168.0	1.513	356; 404	450	136; 148	253

contd...

APPENDIX - 16 : contd.

1	2	3	4	5	6	7
HEADS FROZEN AT - "1 MIN"						
97	159.0	1.725	338; 354	359	90; 102	150
98	156.0	1.708	310; 314	327	86; 102	148
99	180.0	1.735	446; 462	468	112; 106	170
100	167.0	1.675	284; 312	319	116; 128	196

"0 MIN" values represent 2 sec post-mortem levels.

All samples where estimated O.D. in the pilot phosphorus determination was greater than 600-700, the gel from the TLC plates for those particular bands was split in two test tubes, the phosphorus content estimated separately and then added for calculation purposes.