

APPENDIX A:

RAW DATA

TABLE 1. Raw data Ca²⁺ uptake and release measurements in adult rats.

Animal 1 12 Months	Uptake		Release		
	Control	HOCl	AgNO3	H2O2	Passive
1	110.30	73.20	29.63	4.65	1.32
2	112.56	85.41	31.77	6.00	1.06
3	95.52	81.65	35.40	6.54	0.98
Mean	106.13	80.09	32.27	5.73	1.12
% CV	8.72	7.81	9.04	16.99	15.87

Animal 2 12 Months	Uptake		Release		
	Control	HOCl	AgNO3	H2O2	Passive
1	83.31	67.61	20.40		
2	92.32	63.99	19.70		
3	81.65	58.24	21.32		
Mean	85.76	63.28	20.47		
% CV	6.69	7.47	3.97		

Animal 5 12 Months	Uptake		Release		
	Control	HOCl	AgNO3	H2O2	Passive
1	107.34	82.61	30.20	7.54	0.87
2	112.56	93.10	28.41	6.02	0.96
3	107.24	86.39	26.39	6.09	0.98
Mean	109.05	87.37	28.33	6.55	0.94
% CV	2.79	6.08	6.73	13.10	6.26

Table 1 (continued)

Animal 6 12 Months	Uptake		Release		
	Control	HOCl	AgNO3	H2O2	Passive
1	68.32	57.94	27.31	8.15	1.03
2	83.65	55.39	25.60	6.00	1.18
3	79.45	62.65	31.40	5.46	1.20
Mean	77.14	58.66	28.10	6.54	1.14
% CV	10.27	6.28	10.60	21.77	8.17

Animal 9 12 Months	Uptake		Release		
	Control	HOCl	AgNO3	H2O2	Passive
1	117.06	87.60	21.64	6.54	1.16
2	105.64	82.45	22.98	5.79	1.21
3	122.05	91.65	24.77	6.08	1.19
Mean	114.92	87.23	23.13	6.14	1.19
% CV	7.32	5.29	6.79	6.16	2.12

Animal 10 12 Months	Uptake		Release		
	Control	HOCl	AgNO3	H2O2	Passive
1	98.64	74.33	26.14	8.13	0.88
2	92.18	71.45	29.37	6.58	0.92
3	97.32	70.83	28.55	6.42	1.00
Mean	96.05	72.20	28.02	7.04	0.93
% CV	3.55	2.59	5.99	13.41	6.55

TABLE 2. Raw data for Ca²⁺ uptake and release measurements in aged rats.

Animal 3 27 Months	Uptake		Release		
	Control	HOCl	AgNO ₃	H ₂ O ₂	Passive
1	77.1	66.32	25.65	7.64	1.11
2	86.32	62.51	21.65	7.03	1.15
3	80.3	58.63	20.11	6.85	0.65
Mean	81.24	62.49	22.47	7.17	0.97
% CV	5.76	6.15	12.73	5.77	28.64

Animal 4 27 Month	Uptake		Release		
	Control	HOCl	AgNO ₃	H ₂ O ₂	Passive
1.00	98.12	72.30	16.50		
2.00	110.20	74.60	14.30		
3.00	81.30	68.01	12.03		
Mean	96.54	71.64	14.28		
% CV	15.03	4.67	15.66		

Animal 7 27 Month	Uptake		Release		
	Control	HOCl	AgNO ₃	H ₂ O ₂	Passive
1.00	96.53	70.64	21.65	8.32	1.02
2.00	109.60	52.36	22.64	8.05	0.97
3.00	90.64	65.31	20.99	8.11	0.64
Mean	98.92	62.77	21.76	8.16	0.88
% CV	9.81	14.98	3.82	1.74	23.55

Table 2 (continued)

Animal 8 27 Month	Uptake		Release		
	Control	HOCl	AgNO ₃	H ₂ O ₂	Passive
1.00	67.65	36.19	19.88	7.32	0.87
2.00	78.64	63.41	13.19	6.54	1.13
3.00	75.68	50.22	17.23	5.89	1.12
Mean	73.99	49.94	16.77	6.58	1.04
% CV	7.69	27.26	20.09	10.88	14.16

Animal 11 27 Month	Uptake		Release		
	Control	HOCl	AgNO ₃	H ₂ O ₂	Passive
1.00	88.22	78.52	17.54	7.44	1.06
2.00	89.62	68.64	19.32	6.84	1.02
3.00	76.54	69.16	11.12	7.29	1.05
Mean	84.79	72.11	15.99	7.19	1.04
% CV	8.47	7.71	26.97	4.34	2.00

Animal 12 27 Month	Uptake		Release		
	Control	HOCl	AgNO ₃	H ₂ O ₂	Passive
1.00	84.32	72.48	19.43	6.87	1.13
2.00	92.64	71.32	20.64	7.90	1.20
3.00	92.10	64.35	12.74	7.49	0.89
Mean	89.69	69.38	17.60	7.42	1.07
% CV	5.19	6.34	24.17	6.99	15.15

TABLE 3. Reduced data for Ca²⁺ uptake and release measurements.

Adult Animals	Uptake			Release			
	Control	HOCl	%Diff	AgNO ₃	H ₂ O ₂	Passive	H ₂ O ₂ /AgNO ₃
1	101.03	76.24	-23.36	28.21	4.43	1.26	0.15
2	109.69	80.94	-33.53	26.18			
5	106.32	85.19	-19.38	27.62	6.39	0.92	0.23
6	84.01	63.88	-26.09	30.60	7.12	1.24	0.25
9	123.31	93.60	-25.85	24.82	6.59	1.28	0.28
10	112.19	116.82	-40.18	45.34	11.39	1.50	0.41
Mean	106.09	86.11	-28.06	30.46	7.18	1.24	0.26
SEM	5.35	7.34	3.07	3.08	1.15	0.09	0.04

Aged Animals	Uptake			Release			
	Control	HOCl	%Diff	AgNO ₃	H ₂ O ₂	Passive	H ₂ O ₂ /AgNO ₃
3	93.59	71.99	-26.59	25.89	8.26	1.12	0.37
4	79.16	58.74	-21.15	11.71			
7	74.19	47.08	-27.41	16.32	6.12	.66	0.28
8	87.31	58.93	-38.36	19.79	7.76	1.23	0.46
11	97.42	82.85	-17.18	18.37	8.26	1.19	0.52
12	79.38	61.40	-20.04	15.58	6.57	.95	0.37
Mean	85.17	63.50	-25.12	17.94	7.39	1.03	0.40
SEM	3.72	5.05	3.09	1.95	0.44	0.10	0.04