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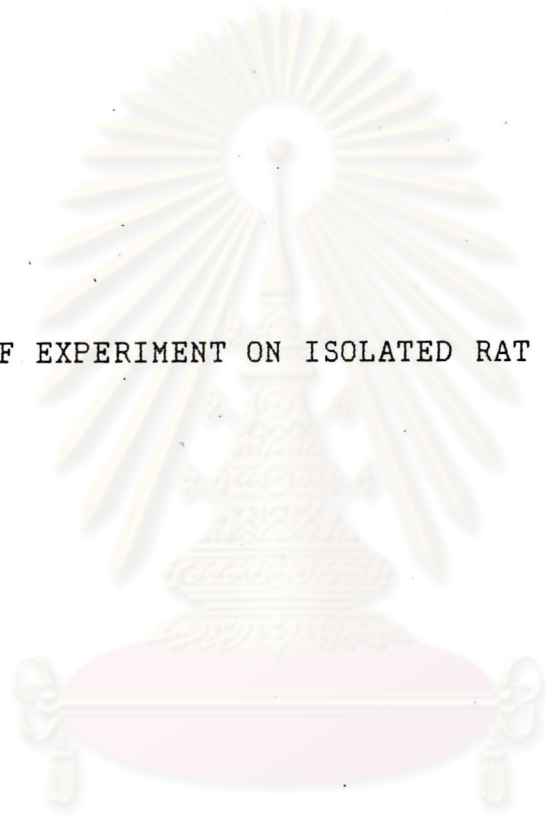
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ภาคผนวก

ศูนย์วิทยทรัพยากร
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DATA OF EXPERIMENT ON ISOLATED RAT STOMACH.



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DATA ANDROGRAPHOLIDE [AC1]
 PERCENT OF MAXIMUM CUMULATIVE DOSE RESPONSE
 [CALCIUM CHLORIDE = CaCl_2]
 CONTROL

Log[CaCl ₂]	[5]	[4]	[3]	[2]	[1.7]	[1.3]
AC1(1)-N1	5.7	27.1	41.4	67.6	90.5	100
N2	8.3	25	37.5	66.7	87.5	100
N3	5.4	25	37.2	65.5	93	100
N4	10.8	16.2	32.4	81.4	95.5	100
N5	11.5	19.2	46	84.6	96	100
AC1(2)-N1	5.9	23.5	44.1	79.4	94.1	100
N2	3.6	17.9	25	59.3	85.7	100
N3	7.1	25	35.7	53.6	96.4	100
N4	5.6	22.9	43	78.9	94	100
N5	4.6	29	28	61	87.3	100
VER ---N1	6.3	27.8	49.4	86.1	93.7	100
N2	8.4	21.1	45.3	73.7	86.3	100
N3	7.3	27	50.2	76.8	90	100
N4	9	22	47.2	75.6	88.3	100
N5	8.3	20.1	46	75	88	100
MEAN	7.186666	23.25333	40.56	72.34666	91.08666	100
SD	2.142231	3.677474	7.423997	9.327155	3.631871	0
SEM	0.553113	0.949397	1.916868	2.408221	0.937778	0

VER mean VERAPAMIL 5×10^{-8} M , AC1(1) mean AC1 1.5×10^{-5} M

AC1(2) mean AC1 1.5×10^{-6} M

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PERCENT OF MAXIMUM CUMULATIVE DOSE RESPONSE

CaCl_2 plus AC1 1.5×10^{-5} M [AC1(1)]

Log[CaCl ₂]	[5]	[4]	[3]	[2]	[1.7]	[1.3]
N1	1	7.1	16.7	52.4	85.7	114.5
N2	2.1	4.2	12.5	45.8	87.5	113.9
N3	1	6.9	15.8	51	83.8	108.2
N4	3.2	7.1	16.2	54.2	79	112
N5	2.8	6.8	13.5	59.6	87	115
MEAN	2.02	6.42	14.94	52.6	84.6	112.72
SD	0.904212	1.116064	1.640243	4.481071	3.078311	2.4782
SEM	0.404281	0.496348	0.733430	2.003964	1.376523	1.1081

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PERCENT OF MAXIMUM CUMULATIVE DOSE RESPONSE

CaCl₂ plus AC1 1.5x10⁻⁶ M[AC1(2)]

Log[CaCl ₂]	[5]	[4]	[3]	[2]	[1.7]	[1.3]
N1	2.9	6.9	24.1	69.4	104	128
N2	1.4	5.6	15.1	48.3	90.7	113
N3	6.1	10	15.6	53.5	98.9	100
N4	2.3	5.4	26.3	67.5	112	122
N5	1.2	4.5	15.4	65.1	87.9	110
MEAN	2.78	6.48	19.3	60.76	98.7	114.6
SD	1.770197	1.919791	4.869907	8.329129	8.782482	9.7077
SEM	0.791568	0.858650	2.177930	3.724842	3.927429	4.3415

PERCENT OF MAXIMUM CUMULATIVE DOSE RESPONSE

CaCl₂ plus VERAPAMIL 5x10⁻⁸ M

Log[CaCl ₂]	[5]	[4]	[3]	[2]	[1.7]	[1.3]
N1	1.3	3.8	8.9	53.2	84.3	109
N2	2.1	4.2	7	38.9	72.6	110.5
N3	1.6	5	9.5	49	80.2	102
N4	2.4	3.5	7.9	42	73.1	115
N5	2.3	4.4	8.5	46.6	78.2	108.8
MEAN	1.94	4.18	8.36	45.94	77.68	109.06
SD	0.422374	0.515363	0.856971	5.051574	4.409716	4.1778
SEM	0.188903	0.230493	0.383262	2.259099	1.972211	1.8683

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DATA 14-DEOXY-11,12 DIDEHYDROANDROGRILIDE [AC2]
 PERCENT OF MAXIMUM CUMULATIVE DOSE RESPONSE
 [CALCIUM CHLORIDE = CaCl₂]
 CONTROL

Log[CaCl ₂]	[5]	[4]	[3]	[2]	[1.7]	[1.3]
AC2(1)-N1	8.3	30.6	47.2	83.3	91.7	100
N2	7.5	43.3	61.1	88.9	94.4	100
N3	5.5	22.7	54.5	81.8	90.9	100
N4	8.3	33.3	56.1	88.3	96.7	100
N5	7.5	25	51.2	86.9	95.2	100
N6	10.2	36.4	57.6	87.9	95.4	100
AC2(2)-N1	3.2	26.3	43.8	78.1	98.4	100
N2	8.3	33.3	55.5	77.8	91.7	100
N3	9.4	31.2	56.3	87.5	93.8	100
N4	5.8	26.9	50	86.5	96.2	100
N5	14.7	38.2	60.8	85.3	97.1	100
N6	10.3	40.4	60.3	84.2	98.1	100
VER ---N1	6.3	27.8	49.4	86.1	93.7	100
N2	8.4	21.1	45.3	73.7	86.3	100
N3	7.3	27	50.2	76.8	90	100
N4	9	22	47.2	75.6	88.3	100
N5	8.3	20.1	46	75	88	100
MEAN	8.135294	29.74117	52.5	82.57058	93.28823	100
SD	2.378813	6.740314	5.524810	5.111091	3.572424	0
SEM	0.576992	1.634762	1.340009	1.239599	0.866434	0

VER mean VERAPAMIL 5×10^{-8} M , AC2(1) mean AC2 1.5×10^{-5} M
 AC2(2) mean AC2 1.5×10^{-6} M

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PERCENT OF MAXIMUM CUMULATIVE DOSE RESPONSE

CaCl₂ plus AC2 1.5×10^{-5} M [AC2(1)]

Log[CaCl ₂]	[5]	[4]	[3]	[2]	[1.7]	[1.3]
N1	0.6	1.7	6.7	17.8	45.6	106.7
N2	1.1	2.8	8.3	30.5	80.5	133.3
N3	0.9	2.3	11.4	34.1	75	115.9
N4	0.3	3.3	11.7	43.3	75	100
N5	0.2	1.2	5.9	32.1	63.1	100
N6	0.9	1.5	13.6	40.9	74.2	101.5
MEAN	0.666666	2.133333	9.6	33.11666	68.9	109.566
SD	0.329983	0.740870	2.811879	8.243465	11.64474	11.9701
SEM	0.134721	0.302511	1.147994	3.365190	4.753928	4.88673

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PERCENT OF MAXIMUM CUMULATIVE DOSE RESPONSE

CaCl₂ plus AC2 1.5x10⁻⁶ M [AC2(2)]

Log[CaCl ₂]	[5]	[4]	[3]	[2]	[1.7]	[1.3]
N1	2.5	9.3	18.8	50	89.1	102.6
N2	0.5	14.4	39.4	70	86.7	114.4
N3	1.3	9.4	25	62.5	106.3	117.2
N4	3.8	9.6	21.2	67.3	98.1	103.8
N5	4.9	18.6	41.2	76.5	98	102
N6	1.9	18.3	39.4	76	93.3	101.2
MEAN	2.483333	13.26666	30.83333	67.05	95.25	106.866
SD	1.485952	4.065983	9.361920	9.033041	6.487359	6.41525
SEM	0.606616	1.659896	3.821979	3.687706	2.648306	2.61891

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PERCENT OF MAXIMUM CUMULATIVE DOSE RESPONSE

CaCl₂ plus VERAPAMIL 5x10⁻⁸ M

Log[CaCl ₂]	[5]	[4]	[3]	[2]	[1.7]	[1.3]
N1	1.3	3.8	8.9	53.2	84.3	109
N2	2.1	4.2	7.4	38.9	72.6	110.5
N3	1.6	5	9.1	49	80.2	102
N4	2.4	3.5	7.9	42	73.1	115
N5	2.3	4.4	8.5	46.6	78.2	108.8
MEAN	1.94	4.18	8.36	45.94	77.68	109.06
SD	0.422374	0.515363	0.631189	5.051574	4.409716	4.17784
SEM	0.188858	0.230315	0.282281	2.259099	1.972211	1.86836

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DATA NEOANDROGRAPHOLIDE [AC3]
 PERCENT OF MAXIMUM CUMULATIVE DOSE RESPONSE
 [CALCIUM CHLORIDE = CaCl_2]
 CONTROL

Log[CaCl_2]	[5]	[4]	[3]	[2]	[1.7]	[1.3]
AC3(1)-N1	10	33.3	53.3	95	100	100
N2	8.3	29.2	45.8	77.1	97.9	100
N3	6.5	22.6	48.4	87.1	93.5	100
N4	9.4	31.3	53.1	87.5	93.8	100
N5	3.2	17.2	41.2	91.2	100	100
N6	5.6	19.4	36.1	71.1	94.4	100
N7	6.3	15.6	33.3	71.9	90.6	100
N8	4.6	15.4	38.5	84.6	98.1	100
AC3(2)-N1	5.5	21.3	40	67.5	92.5	100
N2	7.5	25	40	75	92.5	100
N3	6.6	26.3	46.1	82.9	96.1	100
N4	5.6	28.9	53.3	80	95.6	100
N5	3.6	21.4	41.7	82.1	95.2	100
N6	3.3	19.1	35	68.6	84.1	100
VER ---N1	6.3	27.8	49.4	86.1	93.7	100
N2	8.4	21.1	45.3	73.7	86.3	100
N3	7.3	27	50.2	76.8	90	100
N4	9	22	47.2	75.6	88.3	100
N5	8.3	20.1	46	75	88	100
MEAN	6.594736	23.36842	44.41578	79.41052	93.18947	100
SD	1.977897	5.091484	6.053816	7.540828	4.342797	0
SEM	0.453784	1.168047	1.388882	1.730024	0.996352	0

VER mean VERAPAMIL 5×10^{-8} M, AC3(1) mean AC3 1.5×10^{-5} M

AC3(2) mean AC3 1.5×10^{-6} M

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PERCENT OF MAXIMUM CUMULATIVE DOSE RESPONSE

CaCl_2 plus AC3 1.5×10^{-5} M [AC3(1)]

Log[CaCl_2]	[5]	[4]	[3]	[2]	[1.7]	[1.3]
N1	1.3	6.7	20	53.3	100	133
N2	2.1	2.1	23.7	58.3	83.3	100
N3	1.6	8.1	21	59.7	85.5	112.9
N4	3.1	6.3	18.8	56.3	81.3	131.3
N5	0.8	2.8	14	48	78	100
N6	0.6	1.7	5.6	22.2	55.6	100
N7	0.6	3.1	9.4	31.2	62.5	109.4
N8	0.4	4.2	17.3	55.8	88.5	103.8
MEAN	1.3125	4.375	16.225	48.1	79.3375	111.3
SD	0.866656	2.220782	5.756898	12.98364	13.30967	12.8276
SEM	0.306424	0.785242	2.035406	4.590537	4.705689	4.53524

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[Continue]

DATA AC3 CONTINUE

PERCENT OF MAXIMUM CUMULATIVE DOSE RESPONSE

CaCl₂ plus AC3 1.5x10⁻⁶ M [AC3(2)]

Log[CaCl ₂]	[5]	[4]	[3]	[2]	[1.7]	[1.3]
N1	3.7	18.8	35	68.8	87.5	100
N2	2.5	15	32.5	67.5	95	105
N3	2.1	8.7	23.2	91.6	125.8	126
N4	1.1	10	23.3	80	95.6	100
N5	2.4	8.3	22.6	63.1	91.7	100
N6	0.5	7.3	20.8	67.3	97.7	104.5
MEAN	2.05	11.35	26.23333	73.05	98.88333	105.916
SD	1.029158	4.150803	5.426068	9.775266	12.46961	9.23045
SEM	0.420087	1.694557	2.215155	3.990627	5.090692	3.76813

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PERCENT OF MAXIMUM CUMULATIVE DOSE RESPONSE

CaCl₂ plus VERAPAMIL 5x10⁻⁸ M

Log[CaCl ₂]	[5]	[4]	[3]	[2]	[1.7]	[1.3]
N1	1.3	3.8	8.9	53.2	84.3	109
N2	2.1	4.2	7.4	38.9	72.6	110.5
N3	1.6	5	9.1	49	80.2	102
N4	2.4	3.5	7.9	42	73.1	115
N5	2.3	4.4	8.5	46.6	78.2	108.8
MEAN	1.94	4.18	8.36	45.94	77.68	109.6
SD	0.422374	0.515363	0.631189	5.051574	4.409716	4.17784
SEM	0.188858	0.230315	0.282281	2.259099	1.972211	1.8683

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ศูนย์วิทยุทัพยากร
จุฬาลงกรณ์มหาวิทยาลัย

DATA ETHANOL 6.9×10^{-2} M
 PERCENT OF MAXIMUM CUMULATIVE DOSE RESPONSE
 [CALCIUM CHLORIDE = CaCl_2]
 CONTROL

Log[CaCl_2]	[5]	[4]	[3]	[2]	[1.7]	[1.3]
N1	5.5	25.7	39.2	78.5	87.2	100
N2	7.9	28.9	53.6	80.9	94.7	100
N3	8.5	33.2	57.8	83.2	96.9	100
N4	6.9	25.9	38.9	72.1	85.4	100
N5	10.2	35.6	58.9	89.4	98.7	100
MEAN	7.8	29.86	49.68	80.82	92.58	100
SD	1.572259	3.949987	8.858306	5.669356	5.312400	0
SEM	0.703019	1.766493	3.961552	2.535253	2.375598	0

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PERCENT OF MAXIMUM CUMULATIVE DOSE RESPONSE

CaCl_2 plus ETHANOL 6.9×10^{-2} M

Log[CaCl_2]	[5]	[4]	[3]	[2]	[1.7]	[1.3]
N1	7.9	27.7	48.9	80.3	36.2	95.2
N2	10.8	35.6	55.2	85.3	93.6	97.8
N3	11.2	38	58.9	85.5	94.2	98
N4	8.7	27.2	40.1	75.1	88.3	93.7
N5	13.2	39.3	62	90.2	96.7	103
MEAN	10.36	33.56	53.02	83.28	91.8	97.54
SD	1.885311	5.130536	7.795742	5.151465	3.914588	3.172128
SEM	0.806773	2.294429	3.486477	2.303820	1.750841	1.418561

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ศูนย์วิทยทรัพยากร
 จุฬาลงกรณ์มหาวิทยาลัย

DATA ANDROGRAPHOLIDE [AC1]
 PERCENT OF MAXIMUM CUMULATIVE DOSE RESPONSE
 [ACETYLCHOLINE = ACh]

CONTROL								
Log[ACh]	[13]	[9]	[7]	[5]	[4]	[3]	[2]	[1.5]
AC1(1)-N1	30.3	40.1	50	59.6	71.2	87.5	99	100
N2	18.3	25.9	35.5	44.1	60.2	84.1	96.9	100
N3	24.7	30.3	38.6	47.1	60.4	77.1	93.1	100
N4	28.8	37.4	42.6	50.9	71.1	88.2	98	100
N5	19.7	26.8	35.1	45.8	62	77.6	94.8	100
N6	30.2	45.2	54.7	65.2	77.7	88.9	99	100
AC1(2)-N1	30.3	44.2	52.1	64.2	79.2	90.2	100	100
N2	26.9	35.4	44.1	56.2	75.4	89.2	97	100
N3	23.5	35.2	41.1	51.5	68	85	96	100
N4	22	35.4	43.9	55.5	74.5	90.8	98	100
N5	28.9	38.3	45.2	59.1	75.1	87.9	93.2	100
ATR ---N1	12	21.2	31.4	49.2	61	81.4	98.3	100
N2	34	44.6	59.8	70.1	80.4	92.8	99.5	100
N3	20.9	33.7	36	43	53.5	72.1	97.7	100
N4	45.3	48	65.3	76.8	86.3	93.7	96.8	100
N5	26.7	40	46.7	53.3	63.3	78.3	95	100
MEAN	26.406	36.356	45.131	55.725	69.956	85.3	97.018	100
SD	7.2927	7.3002	9.0879	9.3495	8.8393	6.1020	2.0457	0
SEM	1.8225	1.825	2.272	2.3375	2.21	1.525	0.51	0

ATR mean ATROPINE 1×10^{-8} M , AC1(1) mean AC1 1.5×10^{-5} M

AC1(2) mean AC1 1.5×10^{-6} M

PERCENT OF MAXIMUM CUMULATIVE DOSE RESPONSE

ACh plus AC1 1.5×10^{-5} M [AC1(1)]

Log[ACh]	[13]	[9]	[7]	[5]	[4]	[3]	[2]	[1.5]
N1	25.6	30.5	38.2	45.3	58	78.6	95.1	97
N2	11.4	16.2	24	30.3	45.4	72.9	93.9	94.9
N3	14.5	18.1	25.2	36	52.2	80.8	88.6	93.7
N4	23.7	27.2	32	40	55.8	73.7	89.8	93.9
N5	12.1	16.7	20.2	30.4	44.5	69.8	85.3	87
N6	26.9	30.5	33.2	42.2	53.2	80.8	93.3	96.9
MEAN	19.033	23.2	28.8	37.366	51.516	76.1	91	93.9
SD	6.5022	6.3224	6.1633	5.6799	5.0054	4.2055	3.4205	3.3481
SEM	2.6544	2.5801	2.5148	2.3188	2.0412	1.7146	1.3962	1.3668

[Continue]

Data AC1 continue

PERCENT OF MAXIMUM CUMULATIVE DOSE RESPONSE

ACh plus AC1 1.5×10^{-6} M [AC1(2)]

Log[ACh]	[13]	[9]	[7]	[5]	[4]	[3]	[2]	[1.5]
N1	27.5	29.8	34.2	45.3	60.5	82.3	96.9	98.9
N2	24.7	27.8	29.7	37.4	56.8	78.9	92.3	94.5
N3	22	24.7	35.3	42	56	82	96	99
N4	20	21.2	29.2	36.3	50.9	76.2	90	96
N5	22.9	26.3	33.2	45	59.1	83	95	98.6
MEAN	23.42	25.96	32.32	41.2	56.66	80.48	94.04	97.4
SD	2.5403	2.9152	2.4408	3.7507	3.2964	2.5607	2.5413	1.8231
SEM	1.1359	1.3058	1.0912	1.6770	1.4740	1.1448	1.1359	0.8152

PERCENT OF MAXIMUM CUMULATIVE DOSE RESPONSE

ACh plus ATROPINE 1×10^{-8} M

Log[ACh]	[13]	[9]	[7]	[5]	[4]	[3]	[2]	[1.5]
N1	5.1	19.3	22.9	40.1	61.9	74.6	90.7	91.5
N2	23.7	43.4	52.6	67.9	80.4	95.9	112.4	112.4
N3	11.6	30.2	32.6	40.7	52.3	68	89.1	89.7
N4	21	38.9	47.4	56.8	74.7	86.3	89.5	91.6
N5	16.7	33.3	40	50	60.2	79.8	103	103
MEAN	15.62	33.02	39.1	51.1	65.9	80.92	96.94	97.64
SD	6.6667	8.2290	10.551	10.441	10.209	9.6069	9.2896	8.7614
SEM	2.9814	3.6801	4.7185	4.6693	4.5656	4.2963	4.1544	3.9182

ศูนย์วิทยุทันตกรรม
จุฬาลงกรณ์มหาวิทยาลัย

DATA 14-DEOXY-11,12 DIDEHYDROANDROGRAPHOLIDE [AC2]
 PERCENT OF MAXIMUM CUMULATIVE DOSE RESPONSE
 [ACETYLCHOLINE = ACh]

CONTROL								
Log[ACh]	[13]	[9]	[7]	[5]	[4]	[3]	[2]	[1.5]
AC2(1)-N1	27.6	40.5	46.2	57.6	74.8	88.1	98.6	100
N2	18.4	30.3	36.8	44.7	59.2	77.6	96	100
N3	20	30	35	41.7	54.2	74.2	96.7	100
N4	28.8	41.3	50	61.3	74.4	88.1	99.4	100
N5	14.8	24.8	33.8	41.4	55.7	76.7	95.7	100
N6	13.2	22.6	31.1	41.5	56.6	84	97.2	100
AC2(2)-N1	32.7	50	63.5	75	84.6	96.1	100	100
N2	26.3	27.6	31.6	39.5	60.5	72.4	94.7	100
N3	34.4	40	45.5	57.8	70	84.4	96.6	100
N4	34.3	40	50	65.7	77.1	91.4	97.1	100
N5	32.3	38.2	48.5	64.7	76.5	91.2	100	100
ATR ---N1	12	21.2	31.4	49.2	61	81.4	98.3	100
N2	34	44.6	59.8	70.1	80.4	92.8	99.5	100
N3	20.9	33.7	36	43	53.5	72.1	97.7	100
N4	45.3	48	65.3	76.8	86.3	93.7	96.8	100
N5	26.7	40	46.7	53.3	63.3	78.3	95	100
MEAN	26.356	35.8	44.45	55.206	68.006	83.906	97.456	100
SD	8.9251	8.5982	11.087	12.339	10.889	7.7616	1.6533	0
SEM	2.2312	2.1495	2.7717	3.0847	2.7222	1.9404	0.4133	0

ATR mean ATROPINE 1×10^{-8} M , AC2(1) mean AC2 1.5×10^{-5} M

AC2(2) mean AC2 1.5×10^{-6} M

PERCENT OF MAXIMUM CUMULATIVE DOSE RESPONSE

ACh plus AC2 1.5×10^{-5} M [AC2(1)]

Log[ACh]	[13]	[9]	[7]	[5]	[4]	[3]	[2]	[1.5]
N1	8.1	17.1	21	26.2	37.6	59.5	71	72.4
N2	13.1	22.4	28.9	35.5	44.7	56.6	63.2	65.8
N3	6.7	13.3	17.5	22.5	32.5	45.8	57.5	58.3
N4	15	29.4	38.8	47.5	59.4	69.4	78.1	78.7
N5	8.6	14.3	19.5	28.1	39.5	59	73.3	73.3
N6	9.4	18.9	27.3	35.9	52.8	75.5	86.8	86.8
MEAN	10.15	19.233	25.5	32.616	44.416	60.966	71.65	72.55
SD	2.9238	5.4404	7.2104	8.2110	9.1969	9.4644	9.5384	9.0378
SEM	1.1936	2.2210	2.9436	3.3521	3.7546	3.8638	3.8940	3.6896

[Continue]

Data AC2 continue

PERCENT OF MAXIMUM CUMULATIVE DOSE RESPONSE

ACh plus AC2 1.5×10^{-6} M [AC2(2)]

Log[ACh]	[13]	[9]	[7]	[5]	[4]	[3]	[2]	[1.5]
N1	19.6	26.9	42.3	51.9	63.4	73.1	76.9	76.9
N2	18.4	23.7	31.6	42.1	56.6	61.8	64.5	65.8
N3	17.8	22.2	28.9	37.8	46.6	58.9	64.4	66.6
N4	24.3	34.3	42.9	55.7	65.7	82.9	92.9	94.3
N5	20.6	29.4	41.2	52.9	63.2	80.9	94.1	94.1
MEAN	20.14	27.3	37.38	48.08	59.1	71.52	78.56	79.54
SD	2.2939	4.3020	5.9091	6.8895	6.9478	9.7337	13.023	12.594
SEM	1.0258	1.9239	2.6426	3.0810	3.1071	4.3530	5.8240	5.6322

PERCENT OF MAXIMUM CUMULATIVE DOSE RESPONSE

ACh plus ATROPINE 1×10^{-8} M

Log[ACh]	[13]	[9]	[7]	[5]	[4]	[3]	[2]	[1.5]
N1	5.1	19.3	22.9	40.1	61.9	74.6	90.7	91.5
N2	23.7	43.4	52.6	67.9	80.4	95.9	112.4	112.4
N3	11.6	30.2	32.6	40.7	52.3	68	89.1	89.7
N4	21	38.9	47.4	56.8	74.7	86.3	89.5	91.6
N5	16.7	33.3	40	50	60.2	79.8	103	103
MEAN	15.62	33.02	39.1	51.1	65.9	80.92	96.94	97.64
SD	6.6667	8.2290	10.551	10.441	10.209	9.6069	9.2896	8.7614
SEM	2.9814	3.6801	4.7185	4.6693	4.5656	4.2963	4.1544	3.9182

ศูนย์วิทยพัชกร
จุฬาลงกรณ์มหาวิทยาลัย

DATA NEOANDROGRAPHOLIDE [AC3]
 PERCENT OF MAXIMUM CUMULATIVE DOSE RESPONSE
 [ACETYLCHOLINE = ACh]

CONTROL								
Log[ACh]	[13]	[9]	[7]	[5]	[4]	[3]	[2]	[1.5]
AC3(1)-N1	28.1	45.3	57.8	67.2	82.8	95.3	98.4	100
N2	17.2	34.4	45.3	53.1	65.6	76.6	82.8	100
N3	29.1	43.7	53.1	62	74.7	89.2	98.1	100
N4	15.1	30.2	40.7	46.5	62.8	79.1	95.3	100
N5	19.2	34.6	46.1	53.8	71.1	84.6	96.1	100
N6	14.1	29.5	40.9	48.2	66.4	83.6	94.5	100
AC3(2)-N1	19.1	30.4	39.1	49.6	63.9	78.7	95.2	100
N2	17.3	38.5	50	57.7	73.1	90.4	100	100
N3	28.3	39.8	54.3	69.6	84.7	95.6	100	100
N4	22.9	33.3	41.7	62.5	79.2	89.6	95	100
N5	16.7	33.3	44.4	63.9	80.6	91.7	97.2	100
ATR ---N1	16	19.2	31.4	49.2	61	81.4	98.3	100
N2	36	44.6	59.8	70.1	80.4	92.8	99.5	100
N3	21.9	33.7	36	43	53.5	72.1	97.7	100
N4	38.3	49	65.3	76.8	86.3	93.7	96.8	100
N5	25.7	40	46.7	53.3	63.3	78.3	95	100
MEAN	22.812	36.218	47.037	57.906	71.837	85.793	96.243	100
SD	7.1956	7.2394	8.8641	9.5364	9.5170	7.1989	3.8999	0
SEM	1.7989	1.8098	2.2160	2.3836	2.3792	1.7997	0.9749	0

ATR mean ATROPINE 1×10^{-8} M , AC3(1) mean AC3 1.5×10^{-5} M

AC3(2) mean AC3 1.5×10^{-6} M

PERCENT OF MAXIMUM CUMULATIVE DOSE RESPONSE

ACh plus AC3 1.5×10^{-5} M [AC3(1)]

Log[ACh]	[13]	[9]	[7]	[5]	[4]	[3]	[2]	[1.5]
N1	17.2	34.4	45.3	53.1	65.6	76.6	82.8	84.4
N2	7.7	17.3	28.8	38.5	50	63.5	73.1	73.1
N3	20.2	32.9	41.8	51.9	67.1	77.2	82.3	82.3
N4	4.7	9.4	15.1	22.1	32.6	74.4	79.1	79.1
N5	5.8	17.3	25	30.8	42.3	53.8	65.4	69.2
N6	11.8	20.9	28.2	33.6	46.8	61.3	75.5	77.3
MEAN	11.233	22.033	30.7	38.333	50.733	67.8	76.366	77.566
SD	5.7881	8.9135	10.182	11.141	12.280	8.8138	12.280	5.1876
SEM	2.3629	3.6389	4.1567	4.5482	5.0132	3.5982	5.0132	2.1178

[Continue]

Data AC3 continue

PERCENT OF MAXIMUM CUMULATIVE DOSE RESPONSE

ACh plus AC3 1.5×10^{-6} M [AC3(2)]

Log[ACh]	[13]	[9]	[7]	[5]	[4]	[3]	[2]	[1.5]
N1	16.5	27	36.5	47.8	60	70.4	77.4	78.2
N2	7.6	19.2	30.8	38.5	57.7	75	84.6	84.6
N3	13	22.8	31.5	48.9	64.1	77.2	82.6	82.6
N4	16.6	29.2	39.5	60.4	79.2	89	89	89
N5	11.1	19.4	30.5	50	69.4	80.5	86.1	86.1
MEAN	12.96	23.52	33.76	49.12	66.08	78.42	83.94	84.1
SD	3.4050	4.0131	3.6042	6.9654	7.6716	6.2252	3.88	3.6144
SEM	1.5227	1.7947	1.6118	3.1150	3.4308	2.7839	1.7351	1.6164

PERCENT OF MAXIMUM CUMULATIVE DOSE RESPONSE

ACh plus ATROPINE 1×10^{-8} M [ATR]

Log[ACh]	[13]	[9]	[7]	[5]	[4]	[3]	[2]	[1.5]
N1	5.1	19.3	22.9	40.1	61.9	74.6	90.7	91.5
N2	23.7	43.4	52.6	67.9	80.4	95.9	112.4	112.4
N3	11.6	30.2	32.6	40.7	52.3	68	89.1	89.7
N4	21	38.9	47.4	56.8	74.7	86.3	89.5	91.6
N5	16.7	33.3	40	50	60.2	79.8	103	103
MEAN	15.62	33.02	39.1	51.1	65.9	80.92	96.94	97.64
SD	6.6667	8.229	10.551	10.441	10.209	9.6069	9.2896	8.7614
SEM	2.9814	3.6801	4.7185	4.6693	4.5656	4.2963	4.1544	3.9185

ศูนย์วิทยุแพทย์
จุฬาลงกรณ์มหาวิทยาลัย

DATA ETHANOL 6.9×10^{-2} M
 PERCENT OF MAXIMUM CUMULATIVE RESPONSE
 [ACETYLCHOLINE = Ach]
 CONTROL

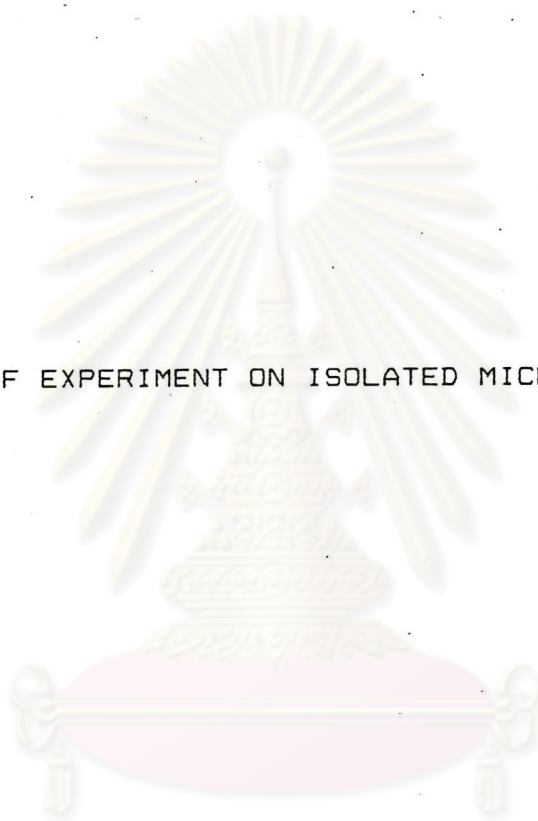
Log[ACh]	[13]	[9]	[7]	[5]	[4]	[3]	[2]	[1.5]
N1	17.3	25	35.1	58	71.2	86.5	92.3	100
N2	18.3	33.3	41.7	51.7	63.3	78.3	95	100
N3	19.8	36.7	45.5	54.5	66.9	80.2	91.7	100
N4	26.1	33.1	39.1	57.8	78.3	97.1	100	100
N5	17.5	30.8	35.6	46	63.3	79.2	97.5	100
MEAN	19.8	31.78	39.4	53.6	68.6	84.26	95.3	100
SD	3.2704	3.8778	3.8863	4.4537	5.6554	7.0355	3.1298	0
SEM	1.4625	1.7342	1.7380	1.9917	2.5291	3.1463	1.3996	0

PERCENT OF MAXIMUM CUMULATIVE RESPONSE

ETHANOL 6.9×10^{-2} M

Log[ACh]	[13]	[7]	[5]	[4]	[3]	[2]	[1.5]	
N1	17.7	29.2	35.1	60.8	71.2	84.6	92.3	96.3
N2	19.2	34.2	42.8	50	60.8	75.8	90.8	94.2
N3	21.5	31.2	47	52.9	63.1	81	91	96
N4	17.4	36	45	63.6	63.8	86.6	100	103
N5	16.5	33.2	40	53.1	60.5	82	91.8	96.4
MEAN	18.46	32.76	41.98	56.08	63.88	82	93.18	97.18
SD	1.7511	2.3610	4.1532	5.1920	3.8757	3.6704	3.4527	3.0175
SEM	0.7826	1.0558	1.8573	2.3219	1.7332	1.6414	1.5440	1.3494

ศูนย์วิทยทรัพยากร
 จุฬาลงกรณ์มหาวิทยาลัย



DATA OF EXPERIMENT ON ISOLATED MICE STOMACH.

ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย

PERCENT OF MAXIMUM CONTRACTION

	ACh (1×10^{-6} M)	ACh (1×10^{-6} M) plus ANTAGONIST		
	CONTROL	AC1[1]	AC2[1]	AC3[1]
	100	86.2	41.2	81.8
	100	86.6	54.4	73
	100	86.8	44.2	85.7
	100	80.8	58.3	83.3
	100	87.5	44.6	75
	100	80	66.6	72.7
MEAN	100	84.65	51.55	78.58
SD	0	3.038	9.033	5.194
SEM	0	1.241	3.687	2.119

AC1[1] mean AC1 1.5×10^{-5} M
 AC2[1] mean AC1 1.5×10^{-5} M
 AC3[1] mean AC3 1.5×10^{-5} M

ศูนย์วิทยทรัพยากร
 จุฬาลงกรณ์มหาวิทยาลัย



ประวัติผู้เขียน

นางวนิดา แสงอลังการ สำเร็จการศึกษาปริญญาตรีเกศาสตรบัณฑิต
จากคณะเกศาสตร มหาวิทาลัยมหิดล ในปี พ.ศ. 2518 และเข้าศึกษาต่อในหลักสูตร
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