



CONTENTS

1	Introduction	1
1.1	Definition	1
1.2	Etiology	1
1.3	Pathophysiology	1
1.4	Clinical Features	2
1.5	Diagnosis	3
1.6	Management	3
1.7	Current Treatment	4
1.8	Cytokines: Role in RA	5
1.9	TNF Converting Enzyme (TACE)	10
1.10	Matrix Metalloproteinase (MMPs)	12
1.11	TACE and MMP Inhibitors	14
1.12	TACE Inhibitors – Concerns and Clarifications	16
1.13	Selective/Dual TACE Inhibitors	17
2	Research Envisaged	37
3	Results and Discussion	41
3.1	Chemical Studies	41
3.2	Biological Studies	99
4	Experimental	104
4.1	Synthetic Work	104
4.1.1	4-Methoxybenzyl alcohol	104
4.1.2	Hydroxymethylpyridine	105
4.1.3	4-Phenylbenzyl alcohol	105
4.1.4	2-Isobutylquinoline-4-carboxylic acid	106
4.1.5	2-Ethylquinoline-4-carboxylic acid	106
4.1.6	2-Phenylquinoline-4-carboxylic acid	106
4.1.7	Methyl 2-isobutylquinoline-4-carboxylate	107
4.1.8	Methyl 2-ethylquinoline-4-carboxylate	107
4.1.9	Methyl 2-phenylquinoline-4-carboxylate	107
4.1.10	4-Hydroxymethyl-2-isobutylquinoline	108
4.1.11	4-Hydroxymethyl-2-ethylquinoline	108
4.1.12	4-Hydroxymethyl-2-phenylquinoline	108
4.1.13	4-Methoxybenzyl chloride	109
4.1.14	2-Chloromethylpyridine	109
4.1.15	4-Chloromethylbiphenyl	109
4.1.16	4-Chloromethyl-2-isobutylquinoline	110
4.1.17	4-Chloromethyl-2-ethylquinoline	110
4.1.18	4-Chloromethyl-2-phenylquinoline	110
4.1.19	1-Chloromethylnaphthalene	111
4.1.20	1-(4-Nitrophenoxyethyl)-4-methoxybenzene	111
4.1.21	2-(4-Nitrophenoxyethyl)pyridine	111
4.1.22	4-(4-Nitrophenoxyethyl)biphenyl	112
4.1.23	2-Isobutyl-4-(4-nitrophenoxyethyl)quinoline	112
4.1.24	2-Ethyl-4-(4-nitrophenoxyethyl)quinoline	112
4.1.25	2-Phenyl-4-(4-nitrophenoxyethyl)quinoline	113
4.1.26	1-(4-Nitrophenoxyethyl)naphthalene	113
4.1.27	4-(4-Methoxybenzyloxy)aniline	114
4.1.28	4-(2-Pyridinylmethoxy)aniline	114
4.1.29	4-(4-Aminophenoxyethyl)biphenyl	114

4.1.30	4-(2-Isobutyl-4-quinolinylmethoxy)aniline	115
4.1.31	4-(2-Ethyl-4-quinolinylmethoxy)aniline	115
4.1.32	4-(2-Phenyl-4-quinolinylmethoxy)aniline	115
4.1.33	1-(4-Aminophenoxy)methyl)naphthalene	115
4.1.34	2-Amino-5-benzyl-1,3,4-thiadiazole	116
4.1.35	2-Amino-5-(4-methoxyphenyl)-1,3,4-thiadiazole	116
4.1.36	2-Amino-5-(4-methoxybenzyl)-1,3,4-thiadiazole	116
4.1.37	4,5-Diphenyl-2-thiazolylamine	117
4.1.38	4-(<i>p</i> -Tolyl)-2-thiazolylamine	117
4.1.39	1-(4-Aminothiophenoxy)methyl)-4-methoxybenzene	117
4.1.40	2-Chloroethyl isocyanate	118
4.1.41	3-Chloropropionyl isocyanate	118
4.1.42	1-(2-Chloroethyl)-3-[4-(4-methoxybenzyloxy)phenyl]urea	118
4.1.43	1-(2-Chloroethyl)-3-[4-(2-pyridinylmethoxy)phenyl]urea	119
4.1.44	1-[4-(4-Biphenylmethoxy)phenyl]-3-(2-chloroethyl)urea	119
4.1.45	1-(2-Chloroethyl)-3-[4-(2-isobutyl-4-quinolinylmethoxy)phenyl]urea	119
4.1.46	1-(2-Chloroethyl)-3-[4-(2-ethyl-4-quinolinylmethoxy)phenyl]urea	120
4.1.47	1-(2-Chloroethyl)-3-[4-(2-phenyl-4-quinolinylmethoxy)phenyl]urea	120
4.1.48	1-(2-Chloroethyl)-3-[4-(1-naphthylmethoxy)phenyl]urea	121
4.1.49	1-(5-Benzyl-1,3,4-thiadiazol-2-yl)-3-(2-chloroethyl)urea	121
4.1.50	1-(2-Chloroethyl)-3-[5-(4-methoxyphenyl)-1,3,4-thiadiazol-2-yl]urea	121
4.1.51	1-(2-Chloroethyl)-3-[5-(4-methoxybenzyl)-1,3,4-thiadiazol-2-yl]urea	121
4.1.52	1-(2-Chloroethyl)-3-(4,5-diphenyl-2-thiazolyl)urea	122
4.1.53	1-(2-Chloroethyl)-3-(4- <i>p</i> -tolyl-2-thiazolyl) urea	122
4.1.54	1-(2-Chloroethyl)-3-[4-(4-methoxythiobenzyloxy)phenyl]urea	122
4.1.55	1-(2-Chloroethyl)-3-phenylurea	123
4.1.56	1-(2-Chloroethyl)-3-(4-methoxyphenyl) urea	123
4.1.57	1-(2-Chloroethyl)-3-(3,4-dimethoxyphenyl)urea	123
4.1.58	1-(2-Chloroethyl)-3-(3,4,5-trimethoxyphenyl)urea	124
4.1.59	1-(4-Benzoyloxyphenyl)-3-(2-chloroethyl) urea	124
4.1.60	1-(2-Chloroethyl)-3-(4-hydroxyphenyl) urea	125
4.1.61	1-(2-Chloroethyl)-3-[4-(4-nitrobenzyloxy) phenyl]urea	125
4.1.62	1-[4-(4-Methoxybenzyloxy)phenyl] imidazolidin-2-one	126
4.1.63	1-[4-(2-Pyridinylmethoxy)phenyl] imidazolidin-2-one	126
4.1.64	1-[4-(4-Biphenylmethoxy)phenyl] imidazolidin-2-one	126
4.1.65	1-[4-(2-Isobutyl-4-quinolinylmethoxy) phenyl]imidazolidin-2-one	127
4.1.66	1-[4-(2-Ethyl-4-quinolinylmethoxy) phenyl]imidazolidin-2-one	127
4.1.67	1-[4-(2-Phenyl-4-quinolinylmethoxy)phenyl]imidazolidin-2-one	127
4.1.68	1-[4-(1-Naphthylmethoxy)phenyl] imidazolidin-2-one	128
4.1.69	1-(5-Benzyl-1,3,4-thiadiazol-2-yl)imidazolidin-2-one	128
4.1.70	1-[5-(4-Methoxyphenyl)-1,3,4-thiadiazol-2-yl]imidazolidin-2-one	129
4.1.71	1-[5-(4-Methoxybenzyl)-1,3,4-thiadiazol-2-yl]imidazolidin-2-one	129
4.1.72	1-(4,5-Diphenyl-2-thiazolyl)imidazolidin-2-one	129
4.1.73	1-(4- <i>p</i> -Tolyl-2-thiazolyl)imidazolidin-2-one	129
4.1.74	1-[4-(4-Methoxythiobenzyloxy)phenyl] imidazolidin-2-one	130
4.1.75	1-Phenylimidazolidin-2-one	130
4.1.76	1-(4-Methoxyphenyl)imidazolidin-2-one	130
4.1.77	1-(3,4-Dimethoxyphenyl)imidazolidin-2-one	131
4.1.78	1-(3,4,5-Trimethoxyphenyl)imidazolidin-2-one	131
4.1.79	1-(4-Benzoyloxyphenyl)imidazolidin-2-one	132
4.1.80	1-[4-(4-Nitrobenzyloxy)phenyl] imidazolidin -2-one	132

4.1.81	Ethyl 2-{3-[4-(4-methoxybenzyloxy)phenyl]-2-oxo-1-imidazolidinyl} propionate	132
4.1.82	Ethyl 2-{2-oxo-3-[4-(2-pyridinylmethoxy)phenyl]-1-imidazolidinyl} propionate	133
4.1.83	Ethyl 2-{3-[4-(4-biphenylmethoxy)phenyl]-2-oxo-1-imidazolidinyl} propionate	133
4.1.84	Ethyl 2-{3-[4-(2-isobutyl-4-quinolinylmethoxy)phenyl]-2-oxo-1-imidazolidinyl} propionate	134
4.1.85	Ethyl 2-{3-[4-(2-ethyl-4-quinolinylmethoxy)phenyl]-2-oxo-1-imidazolidinyl}-propionate	134
4.1.86	Ethyl 2-{2-oxo-3-[4-(2-phenyl-4-quinolinmethoxy)phenyl]-1-imidazolidinyl}-propionate	134
4.1.87	Ethyl 2-{3-[4-(1-naphthylmethoxy)phenyl]-2-oxo-1-imidazolidinyl} propionate	135
4.1.88	Ethyl 2-[3-(5-benzyl-1,3,4-thiadiazol-2-yl)-2-oxo-1-imidazolidinyl] propionate	135
4.1.89	Ethyl 2-{3-[5-(4-methoxyphenyl)-1,3,4-thiadiazol-2-yl]-2-oxo-1-imidazolidinyl}-propionate	135
4.1.90	Ethyl 2-{3-[5-(4-methoxybenzyl)-1,3,4-thiadiazol-2-yl]-2-oxo-1-imidazolidinyl}-propionate	136
4.1.91	Ethyl 2-[3-(4,5-diphenyl-2-thiazolyl)-2-oxo-1-imidazolidinyl] propionate	136
4.1.92	Ethyl 2-[2-oxo-3-(4- <i>p</i> -tolyl-2-thiazolyl)-1-imidazolidinyl] propionate	136
4.1.93	Ethyl 2-{3-[4-(4-methoxythiobenzyloxy)phenyl]-2-oxo-1-imidazolidinyl} propionate	137
4.1.94	Ethyl 2-(2-oxo-3-phenyl-1-imidazolidinyl)propionate	137
4.1.95	Ethyl 2-[3-(4-methoxyphenyl)-2-oxo-1-imidazolidinyl]propionate	138
4.1.96	Ethyl 2-[3-(3,4-dimethoxyphenyl)-2-oxo-1-imidazolidinyl]propionate	138
4.1.97	Ethyl 2-[3-(3,4,5-trimethoxyphenyl)-2-oxo-1-imidazolidinyl]propionate	138
4.1.98	Ethyl 2-[3-(4-benzyloxyphenyl)-2-oxo-1-imidazolidinyl]propionate	139
4.1.99	Ethyl 2-{3-[4-(4-nitrobenzyloxy)phenyl]-2-oxo-1-imidazolidinyl} propionate	139
4.1.100	2-{3-[4-(4-Methoxybenzyloxy)phenyl]-2-oxo-1-imidazolidinyl} propionic acid	140
4.1.101	2-{2-Oxo-3-[4-(2-pyridinylmethoxy) phenyl]-1-imidazolidinyl} propionic acid	140
4.1.102	2-{3-[4-(4-Biphenylmethoxy)phenyl]-2-oxo-1-imidazolidinyl} propionic acid	141
4.1.103	2-{3-[4-(2-Isobutyl-4-quinolinylmethoxy)phenyl]-2-oxo-1-imidazolidinyl} propionic acid	141
4.1.104	2-{3-[4-(2-Ethyl-4-quinolinylmethoxy) phenyl]-2-oxo-1-imidazolidinyl} propionic acid	142
4.1.105	2-{3-[4-(2-Phenyl-4-quinolinylmethoxy) phenyl]-2-oxo-1-imidazolidinyl} propionic acid	143
4.1.106	2-{3-[4-(1-Naphthylmethoxy)phenyl]-2-oxo-1-imidazolidinyl} propionic acid	143
4.1.107	2-[3-(5-Benzyl-1,3,4-thiadiazol-2-yl)-2-oxo-1-imidazolidinyl]propionic acid	144
4.1.108	2-{3-[5-(4-Methoxyphenyl)-1,3,4-thiadiazol-2-yl]-2-oxo-1-imidazolidinyl} propionic acid	144
4.1.109	2-{3-[5-(4-Methoxybenzyl)-1,3,4-thiadiazol-2-yl]-2-oxo-1-imidazolidinyl} propionic acid	144
4.1.110	2-[3-(4,5-Diphenyl-2-thiazolyl)-2-oxo-1-imidazolidinyl]propionic acid	145
4.1.111	2-[2-Oxo-3-(4- <i>p</i> -tolyl-2-thiazolyl)-1-imidazolidinyl]propionic acid	145
4.1.112	2-{3-[4-(4-Methoxythiobenzyloxy) phenyl]-2-oxo-1-imidazolidinyl} propionic acid	146
4.1.113	2-(2-Oxo-3-phenyl-1-imidazolidinyl) propionic acid	146
4.1.114	2-[3-(4-Methoxyphenyl)-2-oxo-1-imidazolidinyl]propionic acid	147
4.1.115	2-[3-(3,4-Dimethoxyphenyl)-2-oxo-1-imidazolidinyl]propionic acid	147
4.1.116	2-[3-(3,4,5-Trimethoxyphenyl)-2-oxo-1-imidazolidin-1-yl]propionic acid	148
4.1.117	2-[3-(4-Benzyloxyphenyl)-2-oxo-1-imidazolidinyl]propionic acid	148
4.1.118	2-{3-[4-(4-Nitrobenzyloxy)phenyl]-2-oxo-1-imidazolidinyl} propionic acid	149
4.1.119	<i>N</i> -Hydroxy-2-{3-[4-(4-methoxybenzyloxy)phenyl]-2-oxo-1-imidazolidinyl}-propionamide	149
4.1.120	<i>N</i> -Hydroxy-2-{2-oxo-3-[4-(2-pyridinylmethoxy)phenyl]-1-imidazolidinyl}-propionamide	150
4.1.121	2-{3-[4-(4-Biphenylmethoxy)phenyl]-2-oxo-1-imidazolidin}- <i>N</i> -hydroxypropionamide	151

4.1.122 <i>N</i> -Hydroxy-2-{3-[4-(2-isobutyl-4-quinolinylmethoxy)phenyl]-2-oxo-1-imidazolidinyl} propionamide	151
4.1.123 2-{3-[4-(2-Ethyl-4-quinolinylmethoxy) phenyl]-2-oxo-1-imidazolidinyl}- <i>N</i> -hydroxy-propionamide	152
4.1.124 <i>N</i> -Hydroxy-2-{3-[4-(1-naphthylmethoxy)phenyl]-2-oxo-1-imidazolidinyl}-propionamide	152
4.1.125 <i>N</i> -Hydroxy-2-{2-oxo-3-[5-benzyl-1,3,4-thiadiazol-2-yl]-1-imidazolidinyl}-propionamide	153
4.1.126 <i>N</i> -Hydroxy-2-{3-[5-(4-methoxyphenyl)-1,3,4-thiadiazol-2-yl]-2-oxo-1-imidazolidinyl} propionamide	153
4.1.127 <i>N</i> -Hydroxy-2-{3-[5-(4-methoxybenzyl)-1,3,4-thiadiazol-2-yl]-2-oxo-1-imidazolidinyl} propionamide	154
4.1.128 2-[3-(4,5-Diphenyl-2-thiazolyl)-2-oxo-1-imidazolidinyl]- <i>N</i> -hydroxypropionamide	154
4.1.129 <i>N</i> -Hydroxy-2-[2-oxo-3-(4- <i>p</i> -tolyl-2-thiazolyl)-1-imidazolidinyl]propionamide	155
4.1.130 <i>N</i> -Hydroxy-2-{3-[4-(4-methoxythiobenzyloxy)phenyl]-2-oxo-1-imidazolidinyl} propionamide	155
4.1.131 <i>N</i> -Hydroxy-2-(2-oxo-3-phenyl-1-imidazolidinyl)propionamide	156
4.1.132 <i>N</i> -Hydroxy-2-[3-(4-methoxyphenyl)-2-oxo-1-imidazolidinyl]propionamide	156
4.1.133 <i>N</i> -Hydroxy-2-[3-(3,4-dimethoxyphenyl)-2-oxo-1-imidazolidinyl]propionamide	157
4.1.134 <i>N</i> -Hydroxy-2-[3-(3,4,5-trimethoxyphenyl)-2-oxo-1-imidazolidinyl]propionamide	157
4.1.135 2-[3-(3-Benzoyloxyphenyl)-2-oxo-1-imidazolidinyl]- <i>N</i> -hydroxypropionamide	158
4.1.136 <i>N</i> -Hydroxy-2-{3-[3-(4-nitrobenzyloxy) phenyl]-2-oxo-1-imidazolidinyl} propionamide	158
4.1.137 2-{2-Oxo-3-[4-(2-pyridinylmethoxy) phenyl]-1-imidazolidinyl} propanol	159
4.1.138 2-[3-(4-Methoxyphenyl)-2-oxo-1-imidazolidinyl]propanol	159
4.1.139 2-[2-Oxo-3-(3,4,5-trimethoxyphenyl)-1-imidazolidinyl]propanol	160
4.1.140 2-[3-(4-Benzoyloxyphenyl)-2-oxo-1-imidazolidinyl]propanol	160
4.1.141 2-{3-[4-(4-Nitrobenzyloxy)phenyl]-2-oxo-1-imidazolidinyl} propanol	161
4.1.142 1-Iodo-2-{2-oxo-3-[4-(2-pyridinylmethoxy) phenyl]-1-imidazolidinyl} propane	161
4.1.143 1-Iodo-2-[2-oxo-3-(4-methoxyphenyl)-1-imidazolidinyl]propane	161
4.1.144 1-Iodo-2-[2-oxo-3-(3,4,5-trimethoxyphenyl)-1-imidazolidinyl]propane	162
4.1.145 1-Iodo-2-[2-oxo-3-(4-benzyloxyphenyl)-1-imidazolidinyl]propane	162
4.1.146 1-Iodo-2-[3-[4-(4-nitrobenzyloxy)phenyl]-2-oxo-1-imidazolidinyl]propane	163
4.1.147 2-{2-Oxo-3-[4-(2-pyridinylmethoxy) phenyl]-1-imidazolidinyl} propyl thioacetate	163
4.1.148 {2-[3-(4-methoxyphenyl)-2-oxo-1-imidazolidinyl]propyl} thioacetate	163
4.1.149 {2-[2-Oxo-(3,4,5-trimethoxyphenyl)-1-imidazolidinyl]propyl} thioacetate	164
4.1.150 {2-[3-(4-Benzoyloxyphenyl)-2-oxo-1-imidazolidinyl]propyl} thioacetate	164
4.1.151 2-{3-[4-(4-Nitrobenzyloxy)phenyl]-2-oxo-1-imidazolidinyl} propyl thioacetate	165
4.1.152 1-(2-Mercapto-1-methylethyl)-3-[4-(2-pyridinylmethoxy)phenyl]imidazolidin-2-one	165
4.1.153 1-(2-Mercapto-1-methylethyl)-3-(4-methoxyphenyl)imidazolidin-2-one	166
4.1.154 1-(2-Mercapto-1-methylethyl)-3-(3,4,5-trimethoxyphenyl)imidazolidin-2-one	166
4.1.155 1-(2-Mercapto-1-methylethyl)-3-(4-benzyloxyphenyl)imidazolidin-2-one	167
4.1.156 1-(2-Mercapto-1-methylethyl)-3-[4-(4-nitrobenzyloxy)phenyl]imidazolidin-2-one	167
4.1.157 1-(3-Chloropropyl)-3-[4-(4-methoxybenzyloxy)phenyl]urea	168
4.1.158 1-(3-Chloropropyl)-3-[4-(2-pyridinylmethoxy)phenyl]urea	168
4.1.159 1-[4-(4-Biphenylmethoxy)phenyl]-3-(3-chloropropyl)urea	168
4.1.160 1-(3-Chloropropyl)-3-[4-(2-isobutyl-4-quinolinylmethoxy)phenyl]urea	168
4.1.161 1-(3-Chloropropyl)-3-[4-(2-ethyl-4-quinolinylmethoxy)phenyl]urea	169
4.1.162 1-(3-Chloropropyl)-3-[4-(2-phenyl-4-quinolinylmethoxy)phenyl]urea	169
4.1.163 1-(3-Chloropropyl)-3-[4-(1-naphthyl methoxy)phenyl]urea	170
4.1.164 1-(5-Benzyl-1,3,4-thiadiazol-2-yl)-3-(3-chloropropyl)urea	170
4.1.165 1-(3-Chloropropyl)-3-[5-(4-methoxybenzyl)-1,3,4-thiadiazol-2-yl]urea	170

4.1.166	1-(3-Chloropropyl)-3-(4,5-diphenyl-2-thiazolyl)urea	170
4.1.167	1-(3-Chloropropyl)-3-(4- <i>p</i> -tolyl-2-thiazolyl)urea	171
4.1.168	1-(3-Chloropropyl)-3-phenylurea	171
4.1.169	1-(3-Chloropropyl)-3-(4-methoxyphenyl) urea	171
4.1.170	1-(3-Chloropropyl)-3-(3,4-dimethoxyphenyl)urea	172
4.1.171	1-(4-Benzoyloxyphenyl)-3-(3-chloropropyl) urea	172
4.1.172	1-[4-(4-Methoxybenzyloxy)phenyl] tetrahydropyrimidin-2(1 <i>H</i>)-one	172
4.1.173	1-[4-(2-Pyridinylmethoxy)phenyl] tetrahydropyrimidin-2(1 <i>H</i>)-one	173
4.1.174	1-[4-(4-Biphenylmethoxy)phenyl]tetrahydropyrimidin-2(1 <i>H</i>)-one	173
4.1.175	1-[4-(2-Isobutyl-4-quinolinylmethoxy)phenyl]tetrahydropyrimidin-2(1 <i>H</i>)-one	173
4.1.176	1-[4-(2-Ethyl-4-quinolinylmethoxy) phenyl]tetrahydropyrimidin-2(1 <i>H</i>)-one	174
4.1.177	1-[4-(2-phenyl-4-quinolinylmethoxy) phenyl]tetrahydropyrimidin-2(1 <i>H</i>)-one	174
4.1.178	1-[4-(1-Naphthylmethoxy) phenyl]tetrahydropyrimidin-2(1 <i>H</i>)-one	175
4.1.179	1-(5-Benzyl-1,3,4-thiadiazol-2-yl)tetrahydropyrimidin-2(1 <i>H</i>)-one	175
4.1.180	1-[5-(4-Methoxybenzyl)-1,3,4-thiadiazol-2-yl]tetrahydropyrimidin-2(1 <i>H</i>)-one	175
4.1.181	1-(4,5-Diphenyl-2-thiazolyl)tetrahydropyrimidin-2(1 <i>H</i>)-one	176
4.1.182	1-(4- <i>p</i> -Tolyl-2-thiazolyl)tetrahydro- pyrimidin-2(1 <i>H</i>)-one	176
4.1.183	1-Phenyltetrahydropyrimidin-2(1 <i>H</i>)-one	176
4.1.184	1-(4-Methoxyphenyl)tetrahydropyrimidin-2(1 <i>H</i>)-one	176
4.1.185	1-(4-Benzoyloxyphenyl) tetrahydropyrimidin-2(1 <i>H</i>)-one	177
4.1.186	1-(4-Benzoyloxyphenyl) tetrahydropyrimidin-2(1 <i>H</i>)-one	177
4.1.187	Ethyl 2-{3-[4-(4-methoxybenzyloxy) phenyl]-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl} propionate	178
4.1.188	Ethyl 2-{2(1 <i>H</i>)-oxo-3-[4-(2-pyridinylmethoxy)phenyl]tetrahydro-1-pyrimidinyl} propionate	178
4.1.189	Ethyl 2-{3-[4-(4-biphenylmethoxy) phenyl]-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl} propionate	178
4.1.190	Ethyl 2-{3-[4-(2-isobutyl-4-quinolinylmethoxy)phenyl]-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl} propionate	179
4.1.191	Ethyl 2-{3-[4-(2-ethyl-4-quinolinylmethoxy)phenyl]-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl} propionate	179
4.1.192	Ethyl 2-{3-[4-(2-phenyl-4-quinolinylmethoxy)phenyl]-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl} propionate	179
4.1.193	Ethyl 2-{3-[4-(1-naphthylmethoxy) phenyl]-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl}-propionate	179
4.1.194	Ethyl 2-[3-(5-benzyl-1,3,4-thiadiazol-2-yl)-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl] propionate	180
4.1.195	Ethyl 2-{3-[5-(4-methoxybenzyl)-1,3,4-thiadiazol-2-yl]-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl} propionate	180
4.1.196	Ethyl 2-[3-(4,5-diphenyl-2-thiazolyl)-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl] propionate	181
4.1.197	Ethyl 2-[2(1 <i>H</i>)-oxo-3-(4- <i>p</i> -tolyl-2-thiazolyl)tetrahydro-1-pyrimidinyl]propionate	181
4.1.198	Ethyl 2-[3-phenyl-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl]propionate	181
4.1.199	Ethyl 2-[3-(4-methoxyphenyl)-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl]propionate	182
4.1.200	Ethyl 2-[3-(3,4-dimethoxyphenyl)-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl]propionate	182
4.1.201	Ethyl 2-[3-(4-benzyloxyphenyl)-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl]propionate	182
4.1.202	2-{3-[4-(4-Methoxybenzyloxy)phenyl]-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl} propionic acid	183
4.1.203	2-{2(1 <i>H</i>)-Oxo-3-[4-(2-pyridinylmethoxy)phenyl]tetrahydro-1-pyrimidinyl} propionic acid	183
4.1.204	2-{3-[4-(4-Biphenylmethoxy)phenyl]-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl} propionic acid	184
4.1.205	2-{3-[4-(2-Isobutyl-4-quinolinylmethoxy) phenyl]-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl} propionic acid	184

4.1.206	2-{3-[4-(2-Ethyl-4-quinolinylmethoxy) phenyl]-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl} propionic acid	185
4.1.207	2-{3-[4-(2-Phenyl-4-quinolinylmethoxy) phenyl]-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl} propionic acid	185
4.1.208	2-{3-[4-(1-Naphthylmethoxy)phenyl]-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl} propionic acid	186
4.1.209	2-[3-(5-Benzyl-1,3,4-thiadiazol-2-yl)-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl]propionic acid	186
4.1.210	2-{3-[5-(4-Methoxybenzyl)-1,3,4-thiadiazol-2-yl]-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidin} propionic acid	187
4.1.211	2-[3-(4,5-Diphenyl-2-thiazolyl)-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl]propionic acid	187
4.1.212	2-[2(1 <i>H</i>)-Oxo-3-(4- <i>p</i> -tolyl-2-thiazolyl) tetrahydro-1-pyrimidinyl]propionic acid	188
4.1.213	2-[3-Phenyl-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl]propionic acid	188
4.1.214	2-[3-(4-Methoxyphenyl)-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl]propionic acid	189
4.1.215	2-[3-(3,4-Dimethoxyphenyl)-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl]propionic acid	189
4.1.216	2-[3-(4-Benzoyloxyphenyl)-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl]propionic acid	190
4.1.217	<i>N</i> -Hydroxy-2-{3-[4-(4-methoxybenzyloxy)phenyl]-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl} propionamide	190
4.1.218	2-{3-[4-(4-Biphenylmethoxy)phenyl]-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl}- <i>N</i> -hydroxypropionamide	191
4.1.219	<i>N</i> -Hydroxy-2-{3-[4-(2-isobutyl-4-quinolinylmethoxy)phenyl]-2(1 <i>H</i>)-oxo-tetrahydro-1-pyrimidinyl} propionamide	192
4.1.220	<i>N</i> -Hydroxy-2-{3-[4-(2-isobutyl-4-quinolinylmethoxy)phenyl]-2(1 <i>H</i>)-oxo-tetrahydro-1-pyrimidinyl} propionamide	192
4.1.221	<i>N</i> -Hydroxy-2-{3-[4-(2-ethyl-4-quinolinylmethoxy)phenyl]-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl}- propionamide	193
4.1.222	<i>N</i> -Hydroxy-2-{3-[4-(2-phenyl-4-quinolinylmethoxy)phenyl]-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl} propionamide	193
4.1.223	<i>N</i> -Hydroxy-2-{3-[4-(1-naphthylmethoxy)phenyl]-2-oxotetrahydro-1-pyrimidinyl} propionamide	194
4.1.224	<i>N</i> -Hydroxy-2-{3-[5-(4-methoxybenzyl)-1,3,4-thiadiazol-2-yl]-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl} propionamide	195
4.1.225	2-[3-(4,5-Diphenyl-2-thiazolyl)-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl]- <i>N</i> -hydroxy-propionamide	195
4.1.226	<i>N</i> -Hydroxy-2-[2(1 <i>H</i>)-oxo-3-(4- <i>p</i> -tolyl-2-thiazolyl)tetrahydro-1-pyrimidinyl] propionamide	196
4.1.227	<i>N</i> -Hydroxy-2-{3-phenyl-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl} propionamide	196
4.1.228	<i>N</i> -Hydroxy-2-[3-(4-methoxyphenyl)-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl] propionamide	197
4.1.229	<i>N</i> -Hydroxy-2-{3-[3,4-dimethoxyphenyl]-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl} propionamide	197
4.1.230	<i>N</i> -Hydroxy-2-{3-[4-benzyloxyphenyl]-2(1 <i>H</i>)-oxotetrahydro-1-pyrimidinyl} propionamide	198
4.2	Biological Work	198
	References	200
	Summary	I