

Index

Sr.No	Title	Page No.
Chapter 1	Introduction	
	1.1 General Introduction	9
	1.2 Coumarin and Naphthopyrone	10
	1.3 Pyridine	17
	1.4 Benzothiazole	22
	1.5 References	27
Chapter-2	Synthesis of some new 4-aminomethy-3[H]-benzo(f)-chromen-3-one derivatives and their antibacterial and anticancer evaluation.	32-76
	2.1 Introduction	32
	2.2 Result and discussion	34
	2.2.1 Chemistry	34
	2.2.1.1 Single crystal X-ray diffraction	37
	2.2.2. Biological evaluation	61
	2.2.2.1 Antimicrobial activity	61
	2.2.2.2 Anticancer activity	62
	2.3 Experimental	66
	2.3.1 Chemistry	66
	2.3.2 Biological Activity Screening	71
	2.3.2.1 Procedure of serial dilution agar diffusion method for antimicrobial activity	71
	2.3.2.2 Procedure of MTT Assay for anticancer activity	72
	2.4 Conclusion	73
	2.5 References	74

Sr. No	Title	Page No.
Chapter-3	Synthesis of some new derivatives of Coumarinyloxy acetamide and their antimicrobial & anticancer evaluation.	77-112
3.1	Introduction	77
3.2	Result and discussion	78
3.2.1	Chemistry	78
3.2.1.1	Single crystal X-ray diffraction	80
3.2.2.	Biological evaluation	102
3.2.2.1	Antimicrobial activity	102
3.2.2.2	MTT assay	102-103
3.3	Experimental	104
3.3.1	Chemistry	104
3.3.2	Biological Activity Screening	108
3.3.2.1	Procedure of Cup Plate Method for antimicrobial activity	108
3.3.2.2	Procedure of MTT Assay for anticancer activity	109
3.4	Conclusion	110
3.5	References	111-112
Chapter-4	Synthesis, antimicrobial and anticancer evaluation of various amide derivatives from 3-amino methyl pyridine.	113-160
4.1	Introduction	113
4.2	Result and discussion	116
4.2.1	Chemistry	116
4.2.2.	Biological evaluation	146
4.2.2.1	Antimicrobial activity	146

4.2.2.2 Anticancer activity	148
4.3 Experimental	151
4.3.1 Chemistry	152
4.3.2 Biological Activity Screening	156
4.3.2.1 Procedure of Cup Plate Method for antimicrobial activity	156
4.3.2.2 Procedure of MTT Assay for anticancer activity	157
4.4 Conclusion	158
4.5 References	159-160
Chapter-5 Synthesis, Antimicrobial and Anticancer evaluation of some novel N-(benzo[d] thiazol-2-yl) -2 -((pyridine-3-ylmethyl) amino) acetamide.	161-229
5.1 Introduction	161
5.2 Result and discussion	163
5.2.1 Chemistry	165
5.2.2. Biological evaluation	209
5.2.2.1 Antimicrobial activity	209
5.2.2.2 MTT assay	211
5.3 Experimental	215
5.3.1 Chemistry	215
5.3.2 Biological Activity Screening	226
5.3.2.1 Procedure of Cup Plate Method for antimicrobial activity	226
5.3.2.2 Procedure of MTT Assay for anticancer activity	227
5.4 Conclusion	227
5.5 References	228-229