

**BIOCHEMICAL ASSESSMENTS OF
METABOLIC ALTERATIONS INDUCED BY
SOME BIOLOGICALLY ACTIVE COMPOUNDS**

THESIS

SUBMITTED BY

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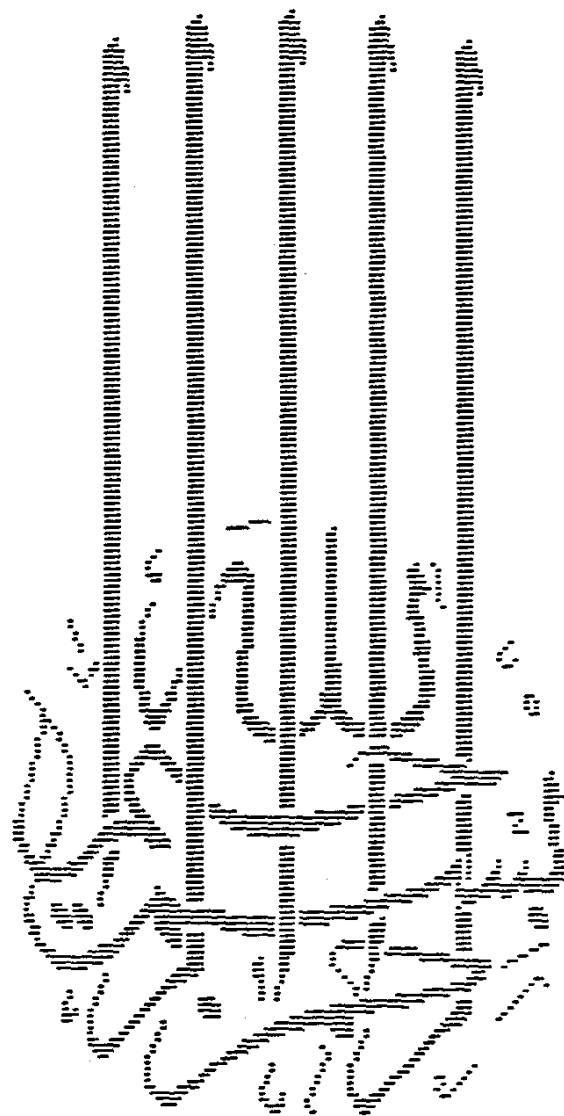
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THIS THESIS HAS NOT BEEN SUBMITTED FOR A
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ABBREVIATIONS

AIDS	Acquired Immuno Deficiency Syndrome
bp	base pair
<i>B. subtilis</i>	<i>Bacillus subtilis</i>
<i>B. subtilis</i> TMP-r	<i>Bacillus subtilis</i> resistant to Trimethoprin.
<i>B. subtilis</i> S-r	<i>Bacillus subtilis</i> resistant to sulfathiazole.
<i>B. subtilis</i> TMD-r	<i>Bacillus subtilis</i> resistant to TMD.
<i>B. subtilis</i> TSF-r	<i>Bacillus subtilis</i> resistant to TSF.
<i>B. subtilis</i> TSFQ ₈ -r	<i>Bacillus subtilis</i> resistant to TSFQ ₈ .
<i>B. subtilis</i> (T+S)-r	<i>Bacillus subtilis</i> resistant to Trimethoprim and sulfatiazole in ratio 1:5.
<i>B. subtilis-s</i>	<i>Bacillus subtilis</i> (wild type).
Co-T	Cotrimoxazole
DHFA	Dihydrofolic acid.
DHFR	Dihydrofolic reductase
DHPS	Dihydropteroate synthetase
DMSO	Dimethyl sulphoxide.
DNA	Deoxyribonucleic acid.
<i>E. coli.</i>	<i>Escherichia coli.</i>
EDTA	Ethylene diamine tetracetate.
FH ₂	Dihydrofolic acid
FH ₄	Tetrahydrofolic acid
g.	Gram
HCl	Hydrochloric acid

KOH	Potassium hydroxide.
I.R.	Infrared
Kb	Kilo base
Ki	Inhibitor constant
Km	Michaelis constant
LD ₅₀	Median lethal dose
M	Molar
mg	Milligram
MIC	Minimum inhibitory concentration
ml	Milliliter
mM	Millimolar
M.W	Molecular weight
Mur NAC	N-acetyl muramic acid
N	Normal
NADH	Reduced nicotinamide adenine dinucleotide
Ne. gonorrhoea	Neisseria gonorrhoea
ng	Nanogram
nm	Nanometer
O.D.	Optical density
pABA	p-aminobenzoic acid
<i>p. carinii</i>	<i>Pneumocystis carinii</i>
R _f	Relative mobility
RNA	Ribonucleic acid
rpm	Revolution per minute
<i>p. mirabilis</i>	<i>Proteus mirabilis</i>
<i>Ps. aeruginosa</i>	<i>Pseudomonas aeruginosa</i>

<i>S. typhi</i>	<i>Salmonella typhimurium</i>
S	Sulfathiazole
[S]	Substrate concentration
<i>S. faecalis</i>	<i>Streptococcus faecalis</i>
SDS	Sodium dodecy sulphate
<i>S. infantis</i>	<i>Salmonella infantis</i>
SSC	Standard saline citrate solution
<i>Staph. aureus</i>	<i>Staphylococcus aureus</i>
TAE	Tris-acetate EDTA buffer
TCA	Trichloroacetic acid
TEAE-cellulose	Triethylaminoethyl cellulose
THFA	Tetrahydrofolic acid
TMP	Trimethoprim
TMD, TSF & TSFQ ₈	Trimethoprim derivatives
µg	Microgram
µl	Microliter
U.V.	Ultra violet
uW/Cm ²	Micro-watt per cupic centimeter
V _o	Initial velocity
V _m	Maximum velocity

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