

*Supplementary Materials*

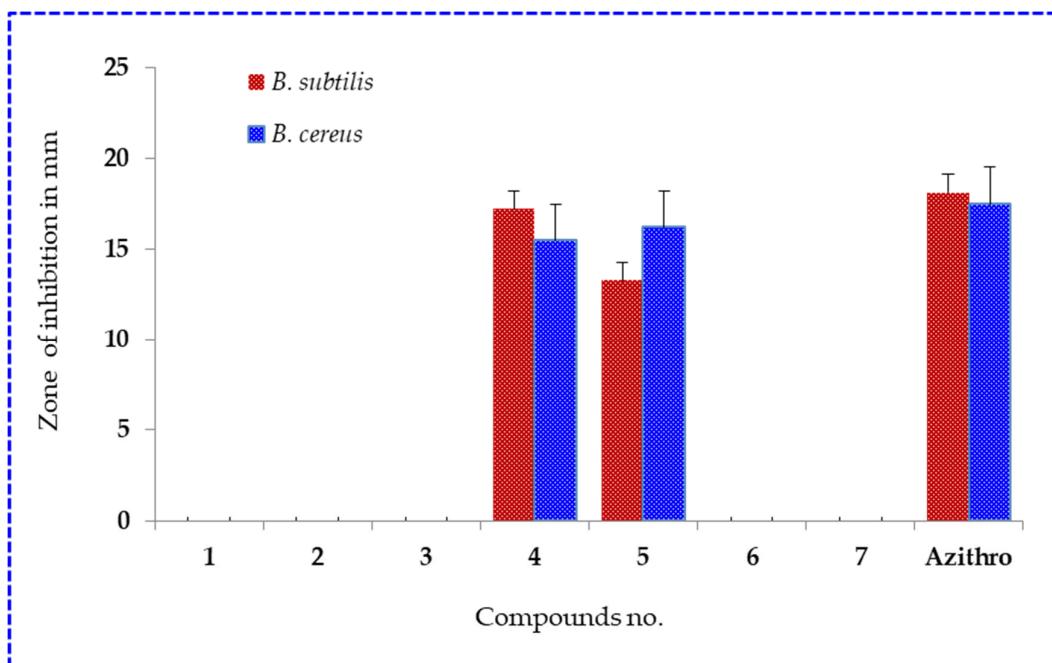
# Fused Pyrimidine Derivatives: Synthesis, Biological Evaluation, and In Silico Studies as Antimicrobial and Anticancer Agents

**Table S1.** Name of the pathogenic microorganisms.

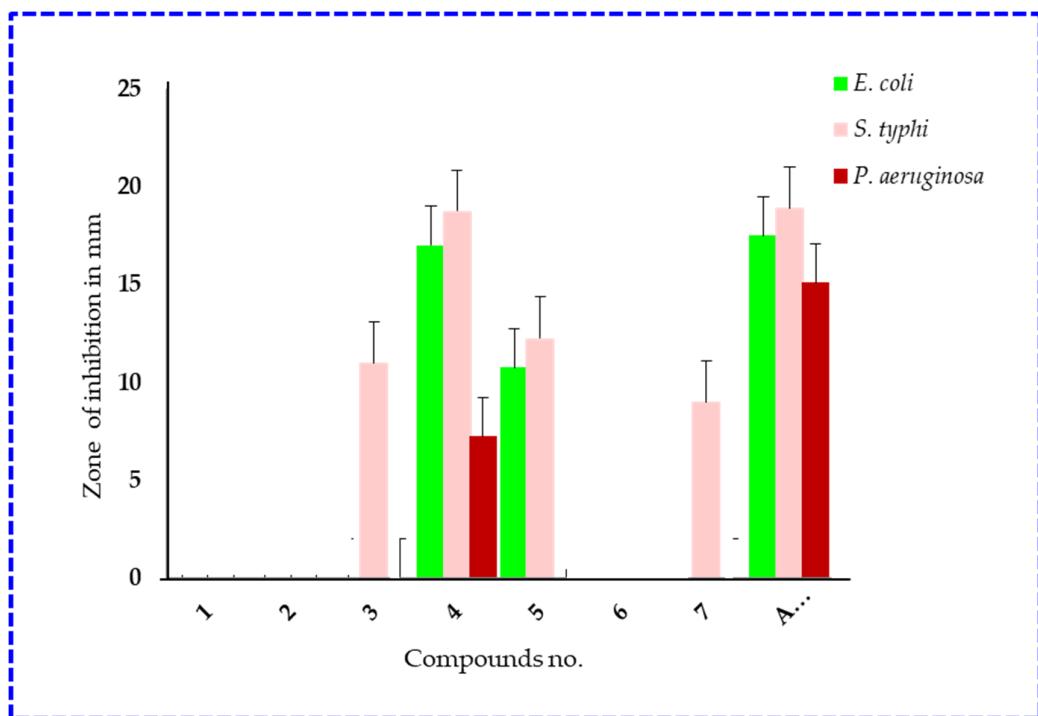
Types of Organisms	Strain	Reference
Gram-positive bacteria	<i>Bacillus subtilis</i>	ATCC 6633
	<i>Bacillus cereus</i>	BTCC 19
Gram-negative bacteria	<i>Escherichia coli</i>	ATCC 8739
	<i>Salmonella typhi</i>	AE 14612
Name of the fungi	<i>Pseudomonas aeruginosa</i>	ATCC 9027
	<i>Aspergillus niger</i>	ATCC 16404
	<i>Aspergillus flavus</i>	ATCC 204304

**Table S2.** The MIC and MBC values in mg/L of esters **4** and **5** against tested organisms.

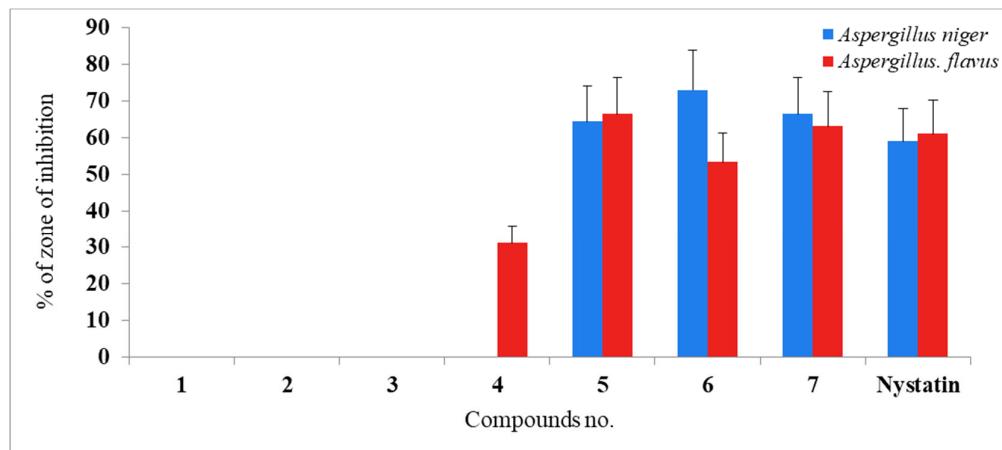
Name of bacteria	MIC (mg/L)		MBC (mg/L)	
	Compound 4	Compound 5	Compound 4	Compound 5
<i>E. coli</i>	0.50	4.00	32.00	8.00
<i>B. subtilis</i>	4.00	0.50	8.00	8.00
<i>B. cereus</i>	0.13	1.00	32.00	16.00
<i>S.typhi</i>	0.50	0.50	16.00	8.00
<i>P. aeruginosa</i>	0.50	NF	16.00	NF



**Figure S1.** Zone of inhibition observed against Gram-positive bacteria by derivatives **2–7**.



**Figure S2.** Zone of inhibition observed against Gram-negative bacteria by derivatives 2–7.



**Figure S3.** Antifungal activities of the synthesized uridine derivatives 2–7.