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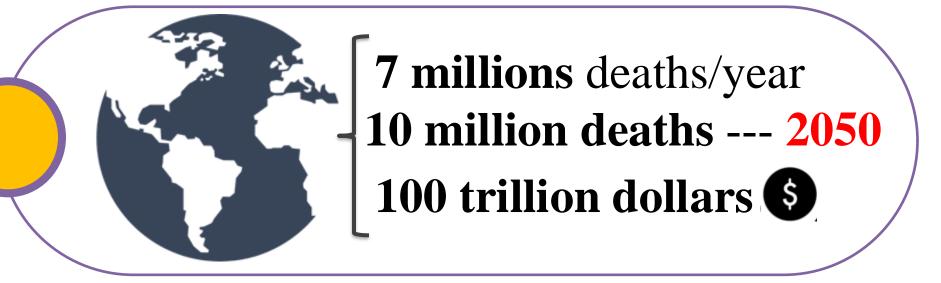
From Desert to Lab: Evaluating Camel Urine's Antibacterial Efficacy Against Carbapenem-Resistant Gram-Negative Bacilli

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INTRODUCTION & AIM

Antimicrobial resistance

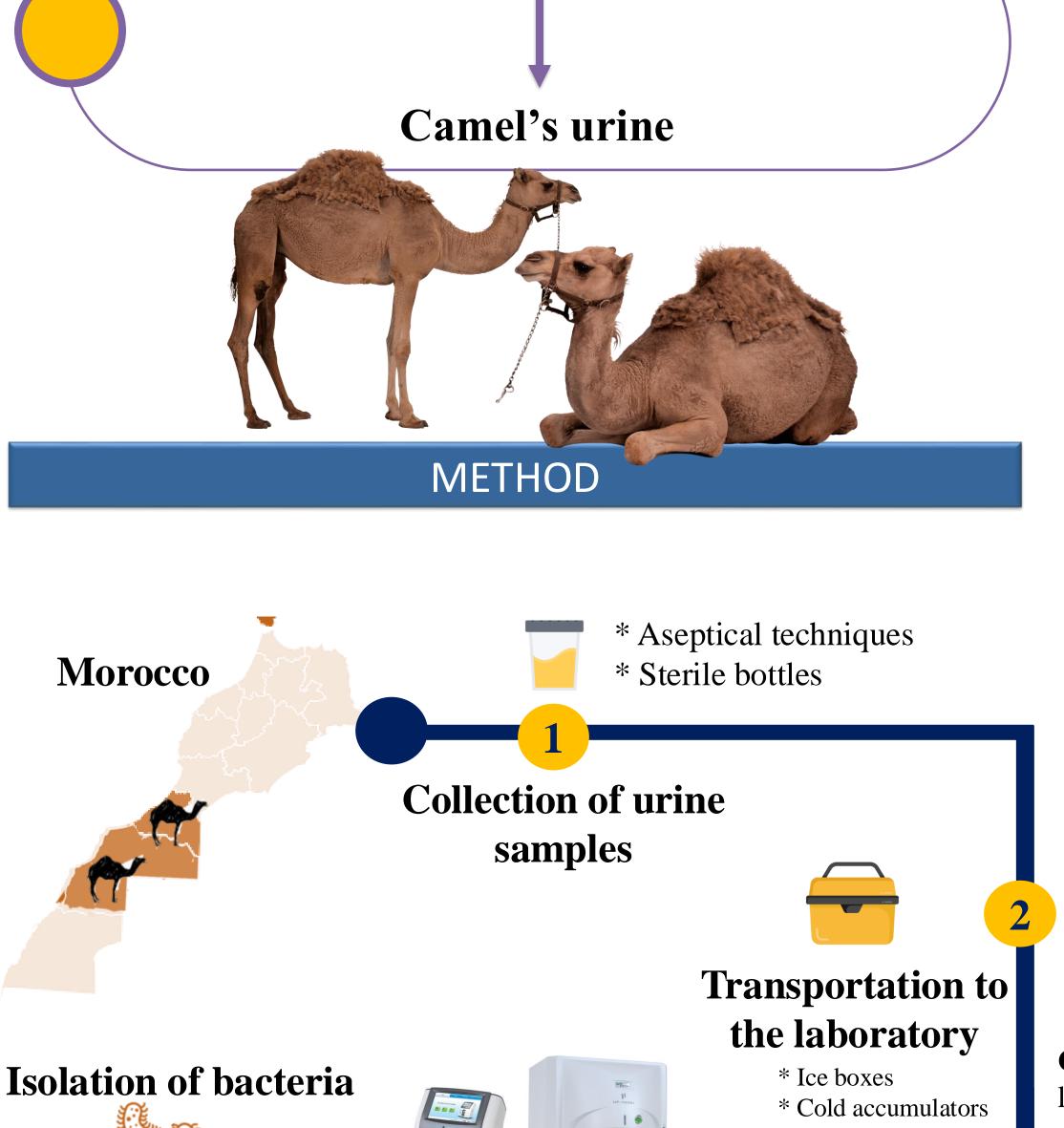


Alternative agents/ therapeutic approaches

RESULTS & DISCUSSION

1- Chemical analysis of camel's urine:

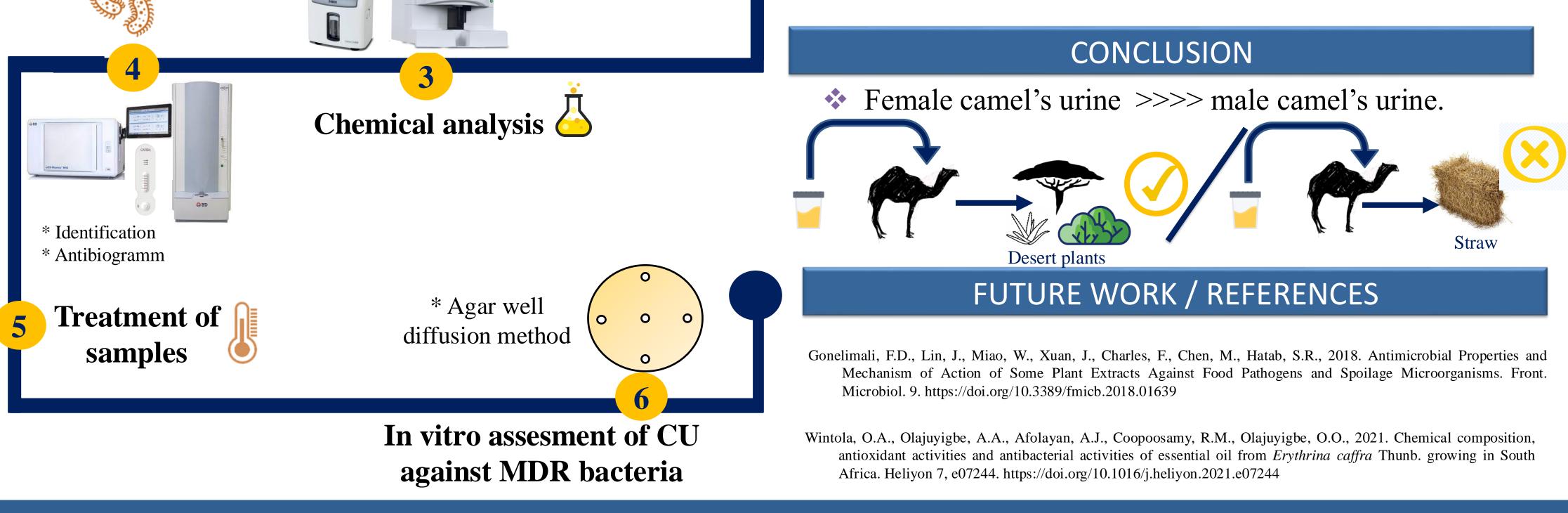
Variables Samples	Na+/K+/Cl ⁻ (mmol/l)	Ketones	Glucos e	Proteins (mg/dl)	рН	Feeding on Desert plants
Female	$(730/400/750) \pm (1.3/0.95/1.02)$	-	_	++++1000 ± 0.0	9,0	Yes
Male	(330/400/650) ± (0.4/0.2/21)	_	_	$+50 \pm 0.0$	6,0	Yes
Female Control	$(400/370/460) \pm (0.9/1.57/2.0)$	-	_	+100 ± 0.0	8,0	No
Male Control	$(247/350/500) \pm (0.75/2.9/1.66)$	-	_	$+30 \pm 0.0$	6,0	No



2-Antimicrobial susceptibility testing:

Antibacterial activity of Camel's urine												
Bacteria Samples	G- ESBL	G- R colistin (mcr-1)	G-/ NDM	G-/OXA 48	G-/VIM	G- ESBL/ CPE	E. coli ATCC	Feeding on Desert plants				
Female	+++	++	+++	+++	+++	+++	+	Yes				
Male	-	-	_	_	-	_	+	Yes				
Female Control	-	_	_	_	_	_	_	No				
Male Control	-	-	_	_	-	_	_	No				

CPE: Carbapenemases producing Enterobacteriaeae / **ESBL**: Extended Spectrum Beta lactamases/ **ATCC**: American Type Culture Collection



https://sciforum.net/event/ECM2025