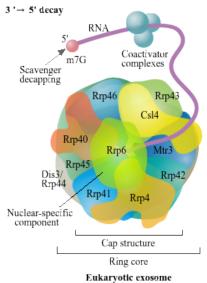
Archaeal RNA degradation

RNA

Rrp42

RNA DEGRADATION

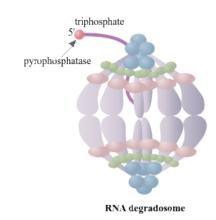
Eukaryotic RNA degradation

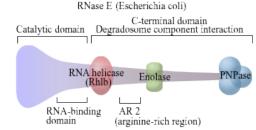




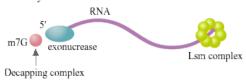
Cap structure
Ring core
Archaeal exosome

Bacterial RNA degradation





5 '→ 3' decay





						Shared by	y Archaea
Eukaryotic core exosome			Rrp40		Rrp4	Csl4	
	Mtr3	Rrp43	Rrp45	Rrp46		Rrp41	Rrp42

Exosome associated factors

12000000 appointed factors	
Nuclear exosome cofactors	Cytoplasmic exosome cofacto
Rm44 Rm6 LRP1	MPP6 Dis3L SKI7

Exosome coactivator complexes

TRAMP complex		Ski complex					
	Trf4/5	Air1/2	Mtr4		SKI2	SKI3	SKI8

Scavenger decapping

DCPS

Cytoplasmic deadenylation Ccr4-NOT complex						
CCR4	CNOT1	CNOT2	CNOT3	CNOT4	PARN	
CNOT7/8	CNOT9	CNOTIO	Caf16	Caf120		
TOB PABP1 Pan complex PAN3 PAN2 PAN3 PAN3						

5 '→ 3' decay

Decapping complex				
Dep1	DDX6	Pat1		
Dep2	EDC3			
	EDC4			

5' exonuclease

XRN1 XRN2

NUDT16

Lsm complex			Lsm1	Cytoplasmic
	Lsm2	Lsm3	Lsm4	Lsm 1-7 complex
	Lsm5	Lsmb	Lsm7	Nuclear
			Lsm8	Lsm 2-8 complex

RNA degradosome type A (Escherichia coli)

DIMASE E	илир	Enurase	FIMFase

RNA degradosome type B (Pseudomonas)
RNase E RhlE RNaseR

RNA degradosome type C (Rhodobacter)
RNase E helicases Rho

RNA degradosome type D (Bacillus subtilis)

		21			
	RNaseY	CshA	RNaseJ	Enolase	PNPase
					PfkA

Associated proteins

DnaK	Hfq	
PPK	PAP	

Pyrophosphatase

RppH