

























	In /	Escheric	hia col	<i>i</i> :
Group 1: Prin	nary sigma	a Factor F	amily	
Major Sigma	RpoD	σ ⁷⁰		Exponential phase
Sigma S	RpoS	σ ³⁸	σs	Stationary phase
Sigma H	RpoH	σ ³²		Heat
Sigma E	RpoE	σ ²⁴	σe	— Shock
Sigma F	FliA	σ ²⁸		flagellum
Group 2: The	sigma⁵⁴ fa	amily		
Sigma54	RpoN	σ ⁵⁴	σ^{N}	Nitrogen limitation



	-35	spacer	-10
σ ⁷⁰	TTGACA	16-18	ΤΑΤΑΑΤ
σ ³⁸			CTATACT
σ ³²	CTTGAAA	11-16	CCCATnT
σ ²⁴	GAACTT	16-17	TCTRA
σ ²⁸	TAAA	15	GCCGATAA
	-24	spacer	-12
σ ⁵⁴	TGGCAC	5	TTGCW











RseB&C	
 RseB and C also affect system RseB: interact w/ RseA periplasmic interact with C-term domain RseA and mis-folded proteins RseC: inner membrane promotes RpoE activity anti-anti-sigma factor 	
 Yeast 2-hybrid system used to show interactions between RpoE, RseA, B, C. 	
2001-2002	B:22















































Spore cascade				
 In pre-spore not many sigmaF controlled genes identified SigmaF does control transcription of gene encoding another sigma factor SigmaG (gene spolIIG) 				
 SigmaG produced in inactive form signals derived from mother cell control conversion to active form via SpolIAB system again? Perhaps inactive form so inhibit production of sigmaG until structural event occurred? engulfment? 				
 production of active sigmaG results in many spore specific genes being transcribed. For example: resistance to UV nutrient storage germination proteins to sense when to germinate and initiate germination 2001-2002 B:46 				











