

2017 American Sheep Industry

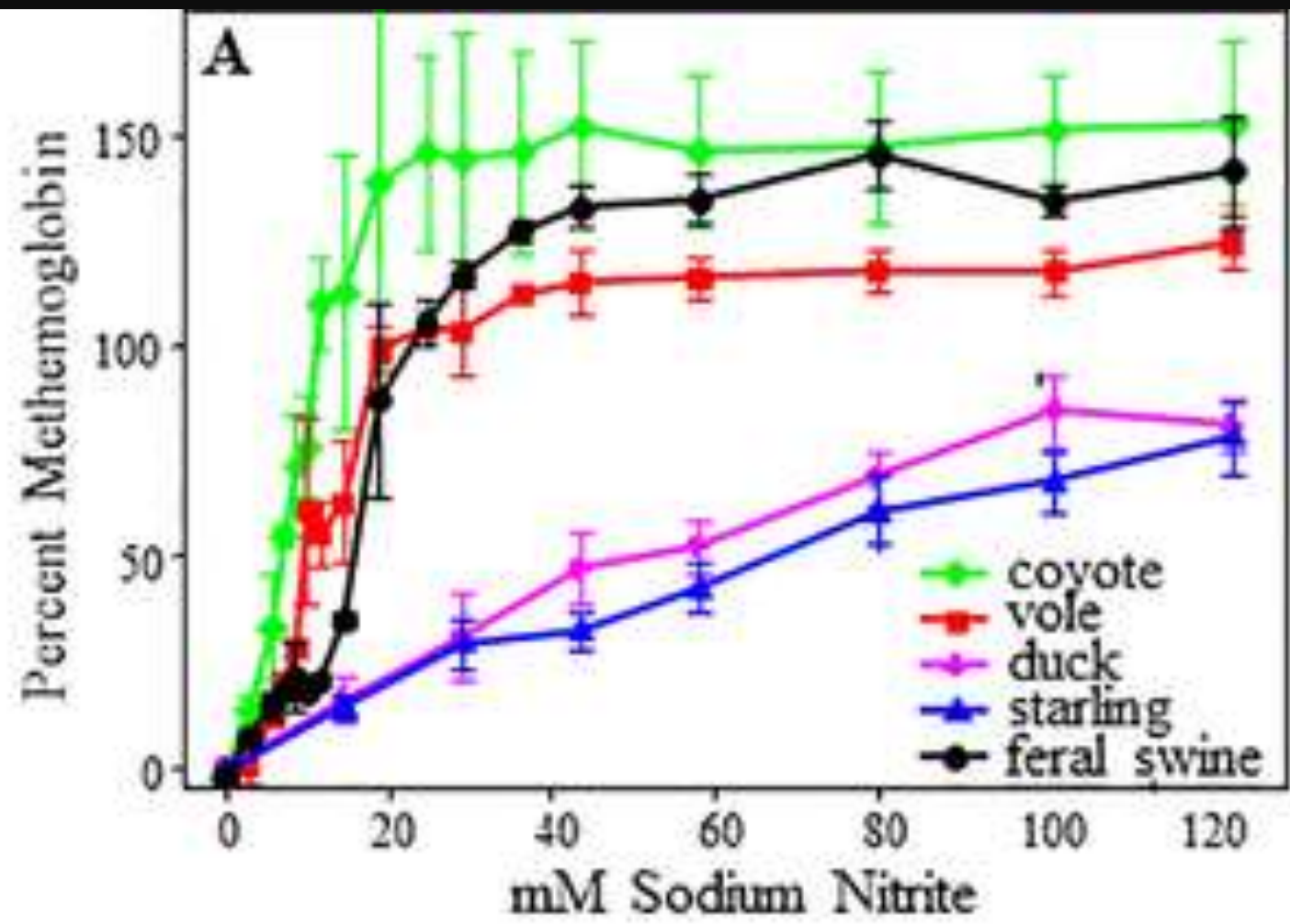


The road to success is always under construction---Lily Tomlin

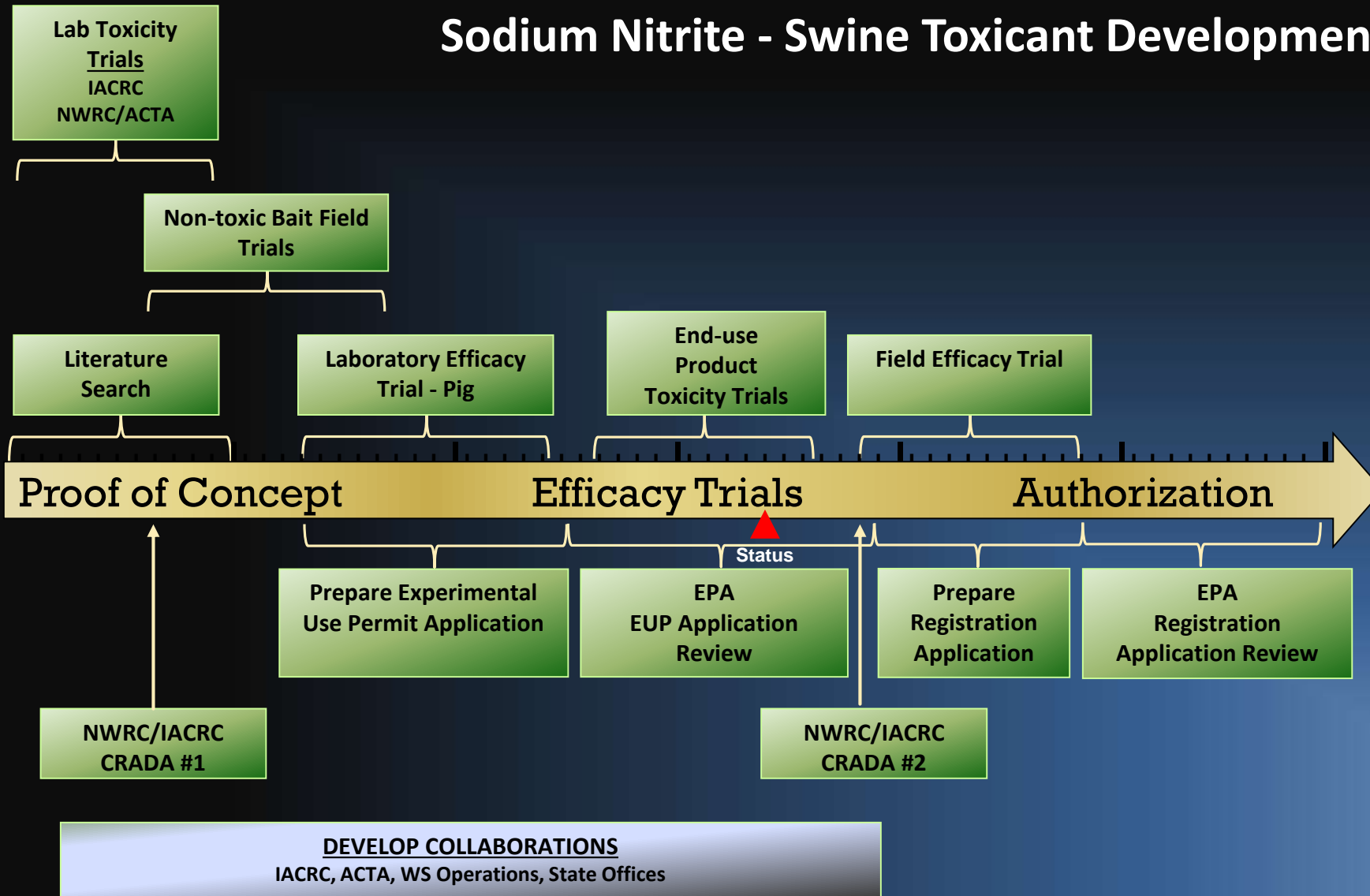


APHIS Toxicant Development

	Sodium Cyanide	1080	Sodium Nitrite	PAPP
Status	APHIS Registered	APHIS Registered	Registration Submitted	Research Phase
Mode of Action	Krebs Cycle Inhibitor	Krebs Cycle Inhibitor	Oxygen Depletion	Oxygen Depletion
Humaneness: Time to Death	10 min	< 12 hr	1-2 hr	???
Humaneness: Awareness	Transient	???	Low	Low
Antidote	Sodium nitrite Amy nitrite	None	Methylene Blue	???
Challenges	Lost Registration	Lost Registration	Palatability Loading	Vomiting Loading
Registration Costs	Low: Maintenance	Low: Maintenance	Low	Medium



Sodium Nitrite - Swine Toxicant Development



Silencing Genes: siRNA Technology



DNA transcription → RNA translation → Protein