

Additional file 8

Table S8: Generated fungus name in the second task for chemical compound equals

Ergosterol

Prompt	GPT-2	GPT-3	GPT-neo	Bloom	BioGPT	BioGPT-Large	Galactica	ChatGPT	GPT-4
Question: Which fungus produces Ergosterol ?	X	X	X	X	X	X	<i>Aspergillus</i>	X	X
Answer:									
Ergosterol is produced by					<i>Aspergillus terreus</i>	<i>Ganoderma lucidum</i>	X		
Ergosterol is produced by the fungus		<i>Saccharomyces cerevisiae</i>	<i>Aspergillus nidulans</i>	<i>Aspergillus niger</i>	<i>Aspergillus terreus</i>	<i>Ganoderma lucidum</i>	X		
Ergosterol is produced by fungi							X		
Ergosterol is produced by fungi, such as			<i>Emericella</i>		<i>Aspergillus terreus</i>	<i>Ganoderma lucidum</i>	X	<i>Aspergillus, Penicillium, Fusarium</i>	
Ergosterol is isolated from						<i>Ganoderma lucidum</i>	X		
Ergosterol originally isolated from						<i>Ganoderma lucidum</i>	X	<i>Claviceps purpurea</i>	
Ergosterol is isolated from the fungus				<i>Penicillium expansum</i>	<i>Aspergillus terreus</i>	<i>Ganoderma lucidum</i>	X	<i>Claviceps purpurea</i>	
Ergosterol is isolated from fungi					<i>Aspergillus</i>		X		
Ergosterol is isolated from fungi, such as					<i>Aspergillus terreus</i>	<i>Ganoderma lucidum, Ganoderma applanatum, Ganoderma neojaponicum</i>	X	<i>Candida albicans, Aspergillus fumigatus, Saccharomyces cerevisiae, Penicillium chrysogenum</i>	
Ergosterol is a natural product found in							X		
Ergosterol is a natural chemical compound found in							X		

Generated fungus name in the *chemical-fungus relation determination via entity generation* task for one chemical compound equals *Ergosterol* for 11 prompts (P8-P18) (for Galactica model only P19 prompt). Bold generated fungus names that are correct.