

Additional file 5

Table S5: Generated fungus name in the second task for chemical compound equals

Alternariol

Prompt	GPT-2	GPT-3	GPT-neo	Bloom	BioGPT	BioGPT-Large	Galactica	ChatGPT	GPT-4
Question: Which fungus produces Alternariol ?	X	X	X	X	X	X	<i>Alternaria</i>	X	X
Answer:									
Alternariol is produced by		<i>Alternaria alternata</i>			<i>Alternaria alternata</i>	<i>Phomopsis amygdali</i>	X	<i>Alternaria</i>	<i>Alternaria alternata, Alternaria tenuissima, Alternaria mali</i>
Alternariol is produced by the fungus		<i>Alternaria alternata</i>		<i>Penicillium acnes</i>	<i>Alternaria alternata</i>	<i>Phomopsis amygdali</i>	X	<i>Alternaria</i>	<i>Alternaria alternata, Alternaria tenuissima</i>
Alternariol is produced by fungi		<i>Alternaria, Fusarium, Penicillium</i>	Ascomycota: Tremellomycetes				X	<i>Alternaria</i>	<i>Alternaria alternata, Alternaria tenuissima, Alternaria infectoria</i>
Alternariol is produced by fungi, such as		<i>Alternaria</i>	<i>Aspergillus</i>		<i>Alternaria alternata</i>	<i>Alternaria alternata</i>	X	<i>Alternaria alternata, Alternaria tenuissima, Alternaria infectoria</i>	<i>Alternaria alternata, Alternaria tenuissima, Alternaria infectoria</i>
Alternariol is isolated from		<i>Alternaria</i>				<i>Phomopsis amygdali</i>	X	<i>Alternaria</i>	<i>Alternaria</i>
Alternariol originally isolated from		<i>Alternaria alternata</i>	<i>Aspergillus terreus</i>			<i>Phellinus linteus</i>	X	<i>Alternaria tenuissima</i>	<i>Alternaria alternata</i>
Alternariol is isolated from the fungus		<i>Alternaria alternata</i>			<i>Alternaria alternata</i>	<i>Phomopsis amygdali</i>	X	<i>Alternaria</i>	<i>Alternaria alternata, Alternaria tenuissima</i>
Alternariol is isolated from fungi					<i>Alternaria</i>		X	<i>Alternaria</i>	<i>Alternaria alternata, Alternaria tenuissima</i>
Alternariol is isolated from fungi, such as		<i>Alternaria alternata, Alternaria tenuissima, Alternaria solani</i>			<i>Alternaria alternata</i>	<i>Phomopsis</i>	X	<i>Alternaria alternata, Alternaria tenuissima, Alternaria infectoria</i>	<i>Alternaria alternata, Alternaria solani, Alternaria tenuissima</i>
Alternariol is a natural product found in							X	<i>Alternaria</i>	<i>Alternaria</i>
Alternariol is a natural chemical compound found in							X	<i>Alternaria</i>	<i>Alternaria</i>

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