

Table S1. Performance of ChatGPT on biomedical-NLP tasks with different prompt.

Dataset	Prompt	Metrics
ChemPort	According to the reference: <text>, What is the relation between ent1 and ent2? Answer with one word within 'activator', 'inhibitor', 'agonist', 'antagonist', 'substrate' or 'None'.	34.16%
	According to the reference <text>, what is the relation between the @CHEMICAL\$ and @GENE\$ ignoring what they exactly are? The relation between a chemical and a gene can be ["activator", "inhibitor", "agonist", "antagonist", "substrate", "production"]. Here are some examples: {1 example for each label According to the reference}. Answer in one words within ["activator", "inhibitor", "agonist", "antagonist", "substrate", "production"]. If the relation can not be determined with the reference or they have no relation, answer "False".	48.54%
GAD	Reference: <text> Dose the reference reflect a relation between the @DISEASE\$ and the @GENE\$ without inferring what the exact disease and gene are? Answer with "yes" or "no".	47.19%
	Reference: <text> Dose the reference reflect a relation between the @DISEASE\$ and the @GENE\$ without inferring what the exact disease and gene are? Answer with "yes" or "no".	52.43%
DDI	Text: <text> Target: you need to identify the relationship between the two @DRUG\$. Require: you must answer within ['mechanism', 'effect', 'advice', 'int', 'None']	45.80%
	Target: you need to identify the relationship between the two @DRUG\$. Require: you must answer within ['mechanism', 'effect', 'advice', 'int', 'None'] <mechanism>: This type is used to annotate DDIs that are described by their PK mechanism (e.g. Grepafloxacin may inhibit the metabolism of theobromine). <effect>: This type is used to annotate DDIs describing an effect (e.g. In uninfected volunteers, 46% developed rash while receiving SUSTIVA and clarithromycin) or a PD mechanism (e.g. Chlorthalidone may potentiate the action of other antihypertensive drugs). <advice>: This type is used when a recommendation or advice regarding a drug interaction is given (e.g. UROXATRAL should not be used in combination with other alpha-blockers). <int>: This type is used when a DDI appears in the text without providing any additional information (e.g. The interaction of omeprazole and ketoconazole has been established). <none>: The text does not mention the relationship between the two drugs.	51.62%