

Task 1		<p>In this task you have 10 predictions of drug-disease pairs and 4 explanations for each prediction given by different systems.</p> <p>Your objective:</p> <ul style="list-style-type: none"> <li>- For each explanation, provide the following rating (0 = 0 most valid) Scientific Validity refers to how scientifically correct, plausible, and coherent the explanation is based on existing biomedical knowledge.</li> <li>- Completeness: Rate from 1 (too simple) to 5 (too complex). Completeness refers to the extent to which the explanation provides sufficient detail to make the prediction understandable. It should be informative without being unnecessarily overwheleing.</li> <li>- Relevance: Rate from 1 (least relevant) to 5 (most relevant). Relevance relates to the usefulness and informativeness of the explanation for understanding the prediction. An explanation can be scientifically valid but still irrelevant if it does not help clarify why the prediction matters or how it connects to the task at hand.</li> <li>- Provide brief comments on the strengths and weaknesses of the explanations like: the length of the path, preferred properties or the complexity of the explanation (more than one path or ontological expansion).</li> </ul> <p>Thank you!</p>										
		Drug Repurposing Task										
Pair Drug-Target		Explanation by System 1		Explanation by System 2		Explanation by System 3		Explanation by System 4		Rating 1-5		Overall Comments (e.g., usefulness, size, complexity)
Vincristine Hematologic Cancer		<pre> graph LR     V[Vincristine] --&gt; LS[Lymphatic System Disease]     LS --&gt; CHL[Complete Hearing Loss]     CHL --&gt; HC[Hematologic Cancer]     style V fill:#d3d3d3     style LS fill:#f2f2f2     style CHL fill:#f2f2f2     style HC fill:#ffd92f   </pre>	Scientific Validity	<pre> graph LR     V[Vincristine] --&gt; LS[Lymphatic System Disease]     LS --&gt; CHL[Complete Hearing Loss]     CHL --&gt; HC[Hematologic Cancer]     HC --&gt; V     style V fill:#d3d3d3     style LS fill:#f2f2f2     style CHL fill:#f2f2f2     style HC fill:#ffd92f   </pre>	Scientific Validity	<pre> graph LR     V[Vincristine] --&gt; LS[Lymphatic System Disease]     LS --&gt; CHL[Complete Hearing Loss]     CHL --&gt; HC[Hematologic Cancer]     HC --&gt; V     V --&gt; CYT[Cytarabine]     CYT --&gt; HC     style V fill:#d3d3d3     style LS fill:#f2f2f2     style CHL fill:#f2f2f2     style HC fill:#ffd92f     style CYT fill:#ffd92f   </pre>	Scientific Validity	<pre> graph LR     V[Vincristine] --&gt; LS[Lymphatic System Disease]     LS --&gt; CHL[Complete Hearing Loss]     CHL --&gt; HC[Hematologic Cancer]     HC --&gt; V     V --&gt; CYT[Cytarabine]     CYT --&gt; HC     V --&gt; TIA1[TIA1 gene]     TIA1 --&gt; TA1[TA1 protein]     TA1 --&gt; LS     TA1 --&gt; CHL     TA1 --&gt; HC     style V fill:#d3d3d3     style LS fill:#f2f2f2     style CHL fill:#f2f2f2     style HC fill:#ffd92f     style CYT fill:#ffd92f     style TIA1 fill:#d3d3d3     style TA1 fill:#f2f2f2   </pre>	Scientific Validity	Scientific Validity		
			Completeness		Completeness					Completeness	Completeness	Completeness
			Relevance		Relevance					Relevance	Relevance	Relevance
Cyclosporine Systemic Lupus Erythematosus		<pre> graph LR     C[Cyclosporine] --&gt; HD[Hodgkin's Disease]     HD --&gt; AZA[Azathioprine]     AZA --&gt; SLE[Systemic Lupus Erythematosus]     style C fill:#d3d3d3     style HD fill:#f2f2f2     style AZA fill:#f2f2f2     style SLE fill:#ffd92f   </pre>	Scientific Validity	<pre> graph LR     C[Cyclosporine] --&gt; HD[Hodgkin's Disease]     HD --&gt; AZA[Azathioprine]     AZA --&gt; SLE[Systemic Lupus Erythematosus]     SLE --&gt; C     style C fill:#d3d3d3     style HD fill:#f2f2f2     style AZA fill:#f2f2f2     style SLE fill:#ffd92f   </pre>	Scientific Validity	<pre> graph LR     C[Cyclosporine] --&gt; HD[Hodgkin's Disease]     HD --&gt; AZA[Azathioprine]     AZA --&gt; SLE[Systemic Lupus Erythematosus]     SLE --&gt; C     C --&gt; CYT[Cytarabine]     CYT --&gt; SLE     C --&gt; LPD[Lymphoproliferative Disorder]     LPD --&gt; CYT     style C fill:#d3d3d3     style HD fill:#f2f2f2     style AZA fill:#f2f2f2     style SLE fill:#ffd92f     style CYT fill:#ffd92f     style LPD fill:#f2f2f2   </pre>	Scientific Validity	<pre> graph LR     C[Cyclosporine] --&gt; HD[Hodgkin's Disease]     HD --&gt; AZA[Azathioprine]     AZA --&gt; SLE[Systemic Lupus Erythematosus]     SLE --&gt; C     C --&gt; CYT[Cytarabine]     CYT --&gt; SLE     C --&gt; LPD[Lymphoproliferative Disorder]     LPD --&gt; CYT     CYT --&gt; MAC[Mixed Altered Compound]     style C fill:#d3d3d3     style HD fill:#f2f2f2     style AZA fill:#f2f2f2     style SLE fill:#ffd92f     style CYT fill:#ffd92f     style LPD fill:#f2f2f2     style MAC fill:#d3d3d3   </pre>	Scientific Validity	Scientific Validity		
			Completeness		Completeness					Completeness	Completeness	Completeness
			Relevance		Relevance					Relevance	Relevance	Relevance
Tazarotene Psoriasis		<pre> graph LR     T[Tazarotene] --&gt; R[Retinoids]     R --&gt; A[Acitretin]     A --&gt; PS[Psoriasis]     style T fill:#d3d3d3     style R fill:#f2f2f2     style A fill:#f2f2f2     style PS fill:#ffd92f   </pre>	Scientific Validity	<pre> graph LR     T[Tazarotene] --&gt; R[Retinoids]     R --&gt; A[Acitretin]     A --&gt; PS[Psoriasis]     PS --&gt; T     style T fill:#d3d3d3     style R fill:#f2f2f2     style A fill:#f2f2f2     style PS fill:#ffd92f   </pre>	Scientific Validity	<pre> graph LR     T[Tazarotene] --&gt; R[Retinoids]     R --&gt; A[Acitretin]     A --&gt; PS[Psoriasis]     PS --&gt; T     T --&gt; ASE[Application Site Erythema]     ASE --&gt; CYT[Cyclosporin]     CYT --&gt; PS     style T fill:#d3d3d3     style R fill:#f2f2f2     style A fill:#f2f2f2     style PS fill:#ffd92f     style CYT fill:#ffd92f   </pre>	Scientific Validity	<pre> graph LR     T[Tazarotene] --&gt; R[Retinoids]     R --&gt; A[Acitretin]     A --&gt; PS[Psoriasis]     PS --&gt; T     T --&gt; ASE[Application Site Erythema]     ASE --&gt; CYT[Cyclosporin]     CYT --&gt; PS     CYT --&gt; ACI[Acitretin]     ACI --&gt; CYT     style T fill:#d3d3d3     style R fill:#f2f2f2     style A fill:#f2f2f2     style PS fill:#ffd92f     style CYT fill:#ffd92f     style ACI fill:#f2f2f2   </pre>	Scientific Validity	Scientific Validity		
			Completeness		Completeness					Completeness	Completeness	Completeness
			Relevance		Relevance					Relevance	Relevance	Relevance
Fludarabine Lymphatic System Cancer		<pre> graph LR     F[Fludarabine] --&gt; AP[Apnea]     AP --&gt; MTX[Methotrexate]     MTX --&gt; LSC[Lymphatic System Cancer]     style F fill:#d3d3d3     style AP fill:#f2f2f2     style MTX fill:#f2f2f2     style LSC fill:#ffd92f   </pre>	Scientific Validity	<pre> graph LR     F[Fludarabine] --&gt; AP[Apnea]     AP --&gt; MTX[Methotrexate]     MTX --&gt; LSC[Lymphatic System Cancer]     LSC --&gt; F     style F fill:#d3d3d3     style AP fill:#f2f2f2     style MTX fill:#f2f2f2     style LSC fill:#ffd92f   </pre>	Scientific Validity	<pre> graph LR     F[Fludarabine] --&gt; AP[Apnea]     AP --&gt; MTX[Methotrexate]     MTX --&gt; LSC[Lymphatic System Cancer]     LSC --&gt; F     F --&gt; CYT[Cytarabine]     CYT --&gt; LSC     style F fill:#d3d3d3     style AP fill:#f2f2f2     style MTX fill:#f2f2f2     style LSC fill:#ffd92f     style CYT fill:#ffd92f   </pre>	Scientific Validity	Scientific Validity				
			Completeness		Completeness					Completeness	Completeness	Completeness
			Relevance		Relevance					Relevance	Relevance	Relevance

Latanoprost Glaucoma	<pre> graph TD     Latanoprost --&gt; Prostaglandins     Prostaglandins --&gt; Bimatoprost     Bimatoprost --&gt; Travoprost     Travoprost --&gt; Glaucoma     Latanoprost --&gt; Glaucoma   </pre>	Scientific Validity	<pre> graph TD     Latanoprost --&gt; Prostaglandins     Prostaglandins --&gt; Bimatoprost     Bimatoprost --&gt; Travoprost     Travoprost --&gt; Glaucoma     Latanoprost --&gt; Glaucoma     Latanoprost --&gt; Iritis_Hyperpigmentation     Iritis_Hyperpigmentation --&gt; Glaucoma   </pre>	Completeness	<pre> graph TD     Latanoprost --&gt; Prostaglandins     Prostaglandins --&gt; Bimatoprost     Bimatoprost --&gt; Travoprost     Travoprost --&gt; Glaucoma     Latanoprost --&gt; Glaucoma     Latanoprost --&gt; Iritis_Hyperpigmentation     Iritis_Hyperpigmentation --&gt; Glaucoma     Latanoprost --&gt; Prostaglandin_Agonist     Prostaglandin_Agonist --&gt; Glaucoma   </pre>	Relevance	Scientific Validity
Vinorelbine Breast Cancer	<pre> graph TD     Vinorelbine --&gt; VincaAlkaloids     VincaAlkaloids --&gt; Vinblastine     Vinblastine --&gt; BreastCancer     Vinorelbine --&gt; BreastCancer   </pre>	Scientific Validity	<pre> graph TD     Vinorelbine --&gt; VincaAlkaloids     VincaAlkaloids --&gt; Vinblastine     Vinblastine --&gt; BreastCancer     Vinorelbine --&gt; BreastCancer     Vinorelbine --&gt; Tumor_Pain     Tumor_Pain --&gt; Letrozole     Letrozole --&gt; BreastCancer   </pre>	Completeness	<pre> graph TD     Vinorelbine --&gt; VincaAlkaloids     VincaAlkaloids --&gt; Vinblastine     Vinblastine --&gt; BreastCancer     Vinorelbine --&gt; BreastCancer     Vinorelbine --&gt; Tumor_Pain     Tumor_Pain --&gt; Letrozole     Letrozole --&gt; BreastCancer     Vinorelbine --&gt; Antidepressant_Agent     Antidepressant_Agent --&gt; Tumor_Pain     Antidepressant_Agent --&gt; Letrozole   </pre>	Relevance	Scientific Validity
Eplerenone Hypertension	<pre> graph TD     Eplerenone --&gt; Aldosterone_Antagonists     Aldosterone_Antagonists --&gt; Spironolactone     Spironolactone --&gt; Hypertension     Eplerenone --&gt; Hypertension   </pre>	Scientific Validity	<pre> graph TD     Eplerenone --&gt; Aldosterone_Antagonists     Aldosterone_Antagonists --&gt; Spironolactone     Spironolactone --&gt; Hypertension     Eplerenone --&gt; Hypertension     Eplerenone --&gt; Coronary_Artery_Disease     Coronary_Artery_Disease --&gt; Serum_Potassium_Increased     Serum_Potassium_Increased --&gt; Hypertension     Eplerenone --&gt; Papillary_Muscle_Or_Heart     Papillary_Muscle_Or_Heart --&gt; Serum_Potassium_Increased     Papillary_Muscle_Or_Heart --&gt; Hypertension   </pre>	Completeness	<pre> graph TD     Eplerenone --&gt; Aldosterone_Antagonists     Aldosterone_Antagonists --&gt; Spironolactone     Spironolactone --&gt; Hypertension     Eplerenone --&gt; Hypertension     Eplerenone --&gt; Coronary_Artery_Disease     Coronary_Artery_Disease --&gt; Serum_Potassium_Increased     Serum_Potassium_Increased --&gt; Hypertension     Eplerenone --&gt; Papillary_Muscle_Or_Heart     Papillary_Muscle_Or_Heart --&gt; Serum_Potassium_Increased     Papillary_Muscle_Or_Heart --&gt; Hypertension     Eplerenone --&gt; Antihypertensive_Agent     Antihypertensive_Agent --&gt; Coronary_Artery_Disease     Antihypertensive_Agent --&gt; Papillary_Muscle_Or_Heart   </pre>	Relevance	Scientific Validity
Clofarabine Hematologic Cancer	<pre> graph TD     Clofarabine --&gt; Pneumonia_Fungi     Pneumonia_Fungi --&gt; Neutropenia     Neutropenia --&gt; Hematologic_Cancer     Clofarabine --&gt; Hematologic_Cancer   </pre>	Scientific Validity	<pre> graph TD     Clofarabine --&gt; Pneumonia_Fungi     Pneumonia_Fungi --&gt; Neutropenia     Neutropenia --&gt; Hematologic_Cancer     Clofarabine --&gt; Hematologic_Cancer     Clofarabine --&gt; S_Adenosylmethionine     S_Adenosylmethionine --&gt; Nucleic_Acid_Synthesis_Inhibitor     Nucleic_Acid_Synthesis_Inhibitor --&gt; Hematologic_Cancer   </pre>	Completeness	<pre> graph TD     Clofarabine --&gt; Pneumonia_Fungi     Pneumonia_Fungi --&gt; Neutropenia     Neutropenia --&gt; Hematologic_Cancer     Clofarabine --&gt; Hematologic_Cancer     Clofarabine --&gt; S_Adenosylmethionine     S_Adenosylmethionine --&gt; Nucleic_Acid_Synthesis_Inhibitor     Nucleic_Acid_Synthesis_Inhibitor --&gt; Hematologic_Cancer     Clofarabine --&gt; Purine_Antagonist     Purine_Antagonist --&gt; Pneumonia_Fungi     Pneumonia_Fungi --&gt; Neutropenia     Neutropenia --&gt; Hematologic_Cancer   </pre>	Relevance	Scientific Validity
Etidronic Acid Paget's Disease of Bone	<pre> graph TD     EtidronicAcid --&gt; Diphosphonates     Diphosphonates --&gt; Thudrotide     Thudrotide --&gt; PagetsDiseaseOfBone     EtidronicAcid --&gt; PagetsDiseaseOfBone   </pre>	Scientific Validity	<pre> graph TD     EtidronicAcid --&gt; Diphosphonates     Diphosphonates --&gt; Thudrotide     Thudrotide --&gt; PagetsDiseaseOfBone     EtidronicAcid --&gt; PagetsDiseaseOfBone     EtidronicAcid --&gt; OsteonecrosisOfJaw     OsteonecrosisOfJaw --&gt; Risedronate     Risedronate --&gt; PagetsDiseaseOfBone   </pre>	Completeness	<pre> graph TD     EtidronicAcid --&gt; Diphosphonates     Diphosphonates --&gt; Thudrotide     Thudrotide --&gt; PagetsDiseaseOfBone     EtidronicAcid --&gt; PagetsDiseaseOfBone     EtidronicAcid --&gt; OsteonecrosisOfJaw     OsteonecrosisOfJaw --&gt; Risedronate     Risedronate --&gt; PagetsDiseaseOfBone     EtidronicAcid --&gt; Diphosphonate     Diphosphonate --&gt; Thudrotide   </pre>	Relevance	Scientific Validity

