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NeDRex - an integrative and interactive network medicine platform for drug repurposing

Drug discovery's prevailing paradigms grapple with efficacy challenges. Drug repurposing, with its agility and cost-efficiency, emerges as a potent alternative. Complex diseases are unraveled through disease modules, highlighting potential drug targets discernible in silico via network algorithms. However, essential data remains dispersed across various databases, underscoring a demand for unified tools. We present NeDRex, an integrated platform for network-based drug repurposing at NeDRex.net. NeDRex seamlessly integrates diverse data, underpinning tailored biomedical inquiries. Enhanced by NeDRexApp for Cytoscape and NeDRex-Web (NeDRex Web Interface), and emphasizing the expert-in-the-loop paradigm, it facilitates iterative feedback, allowing researchers to meld domain-specific knowledge with computational insights. Built on the same paradigm CoVex a COVID-19 drug repurposing platform was realized.

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Keywords

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TentID

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