

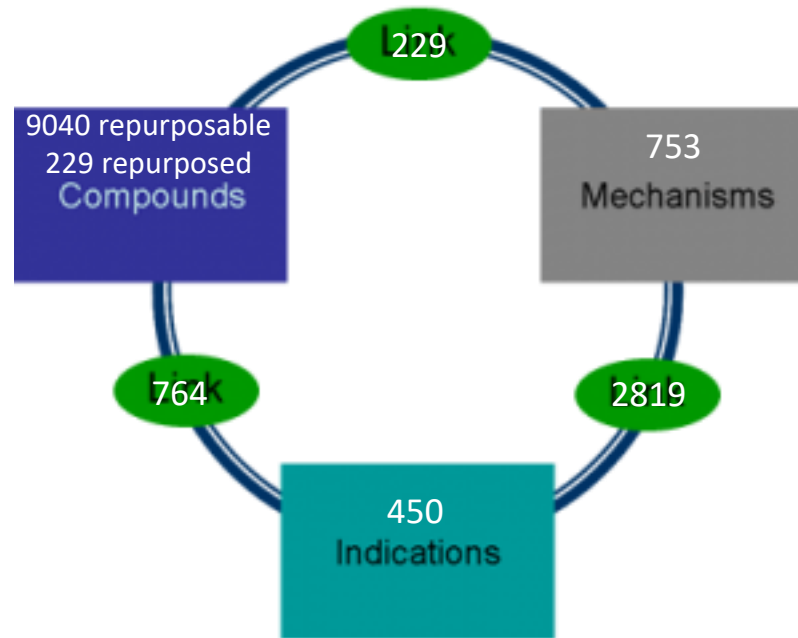
DrugRepurposing.Info

Findacure Lightning Talk Feb 2020

A large, curated and referenced database of functionally effective repurposing information

Establishing a community

- <https://drugrepurposing.info>



- Users can register for free
- Search through any of green oval link spots
- Contributions in return for full search capabilities
- Rare diseases linked to common conditions

Example: FOP




MECHANISM	EVIDENCE TYPE	REF TYPE	TITLE	POTENTIAL CHEMICAL CLASSES
Anaplastic lymphoma kinase 2 (ALK2) inhibitor	Pharmacological, in vitro	Journal	Development of Macrocycle Kinase Inhibitors for ALK2 Using Fibrodysplasia Ossificans Progressiva-Derived Endothelial Cells.	
Mammalian target of rapamycin (mTOR) antagonist	Pharmacological, in vitro	Journal	An mTOR Signaling Modulator Suppressed Heterotopic Ossification of Fibrodysplasia Ossificans Progressiva.	
Retinoid RAR agonist	Pharmacological, in vitro	Journal	Retinoic acid receptor γ -dependent signaling cooperates with BMP2 to induce osteoblastic differentiation of C2C12 cells	

(references in red involve negative results)

Given the number of results, are you interested in repurposing from indications *specifically* related to Fibrodysplasia ossificans progressiva (FOP)?

RELATED INDICATIONS

Example: off-target Alk2 inhibitor

MECHANISM	EVIDENCE TYPE	REF TYPE	TITLE	POTENTIAL CHEMICAL CLASSES
Anaplastic lymphoma kinase 2 (ALK2) inhibitor	Pharmacological, in vitro	Journal	Development of Macrocyclic Kinase Inhibitors for ALK2 Using Fibrodysplasia Ossificans Progressiva-Derived Endothelial Cells.	
Potential Chemical classes for Anaplastic lymphoma kinase 2 (ALK2) inhibitor				
LIGAND	VALUE	PARAMETER	TITLE	
gilteritinib	9.3	pIC50	Preclinical studies of gilteritinib, a next-generation FLT3 inhibitor.	
Mammalian target of rapamycin (mTOR) antagonist	Pharmacological, in vitro	Journal	An mTOR Signaling Modulator Suppressed Heterotopic Ossification of Fibrodysplasia Ossificans Progressiva.	
Retinoid RAR agonist	Pharmacological, in vitro	Journal	Retinoic acid receptor γ -dependent signaling cooperates with BMP2 to induce osteoblastic differentiation of C2C12 cells	

Example: graphical display

