Inflammatory Bowel Disease (IBD) Mouse Models

	Induced				Spontaneous	
Model	**DSS**	**TNBS/ oxazolone**	**Adoptive T cell Transfer**	**Anti-CD40**	**MDR1A KO**	**IL10 KO**
Recommended strain(s)	**C57BL/6 (B6, B6JBOM)**	**SJL, BALB/c**	**Rag2 knockout (RAGN12) at MPF health standard with C57BL/6 donors**	**Rag2 knockout (RAGN12)**	**Mdr1a knockout (MDR1A)**	**Il10 knockout (BALB/c background 15660)**
Alternative strain(s)	**Inbred strains:** BALB/c (BALB, BALJBO), SJL, C3H **GEMs:** NFκB-RE-luc (10499), Nod2 (16476) **Humanized immune system mice:** huNOG, huNOG-EXL	**Inbred:** C3H **GEMs:** NFκB-RE-luc (10499)	**Paired strains (donor / recipient)** BALB/c (BALB or BALJBO) and C.B-17 scid (CB17SC) BALB/c (BALB or BALJBO) and Rag2 knockout (601)	C.B-17 scid (CB17SC)	N/A	Il10 knockout (C57BL/6 background 16006)
Typical study duration	1-2 wk 2-4 mo	1-2 wk	5-10 wk	1-2 wk	1-3 mo	2-6 mo
Predictive validity*	+	+	++	++	+++	+++
Face validity*	+/-	+	+	+	++	++
Construct validity*	-	+/-	-	-	+/-	++/-
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*__Predictive validity:__ how well a model can be used to predict currently unknown aspects of the disease in humans, such as therapeutic interventions
__Face validity:__ how well a model replicates the disease phenotype in humans
__Construct validity:__ how well the mechanism used to induce the disease phenotype in animals reflects the currently understood disease etiology in humans
See this Taconic Insight for more information: taconic.com/validatedmodels

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