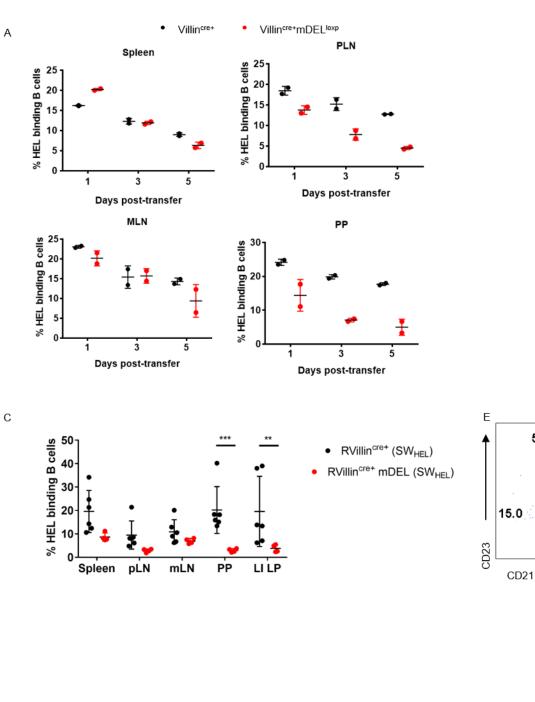
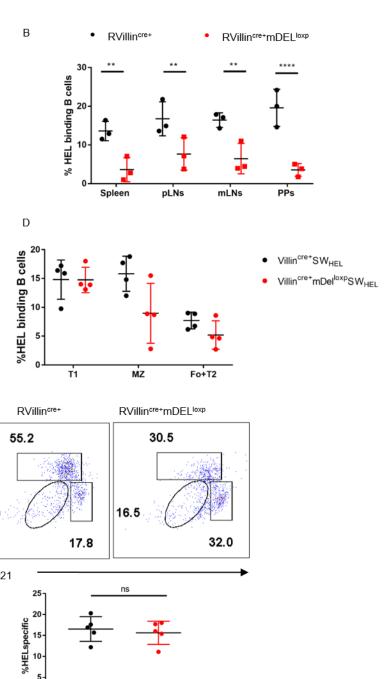


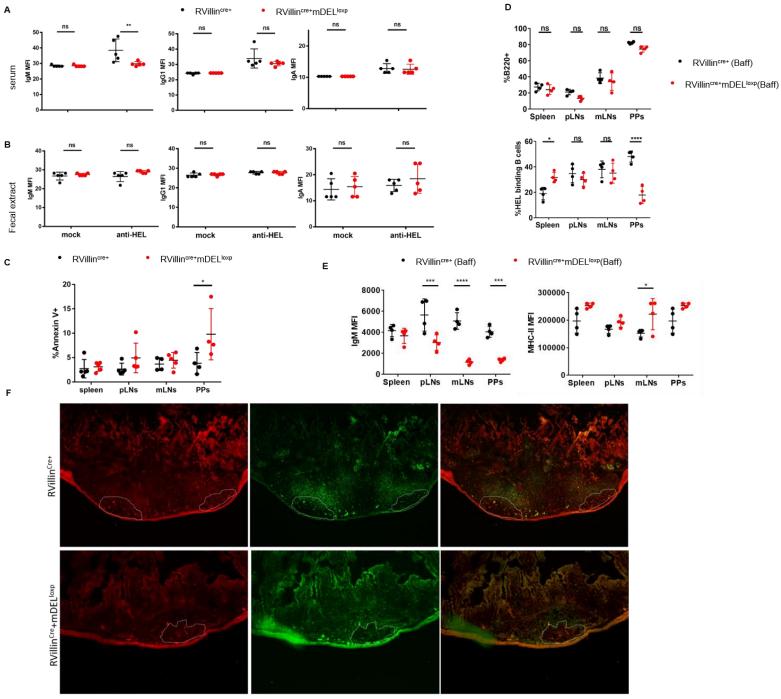
Bacteria phyla distribution over a 14 day period after administration of 25 mg of HEL at day zero





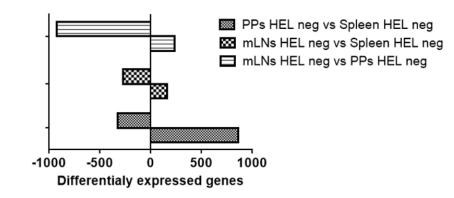
0

T1 B cells



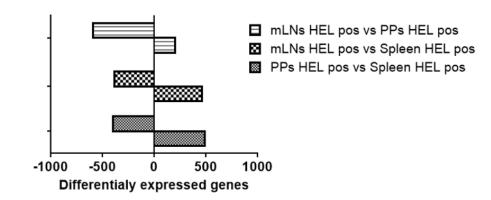
HEL IgD

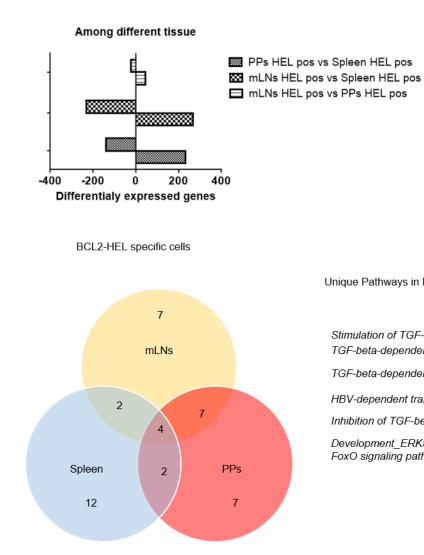
S3





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Unique Pathways in BCL2-HEL specific cells in PPs

Stimulation of TGF-beta signaling in lung cancer TGF-beta-dependent induction via SMADs

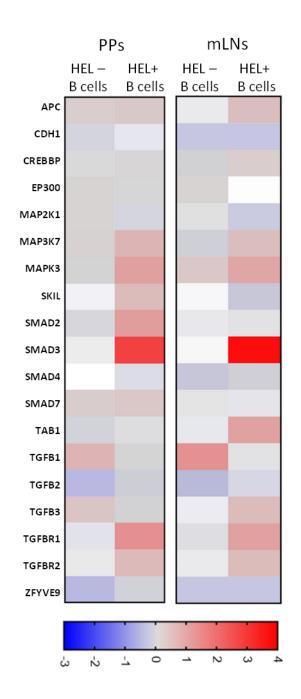
TGF-beta-dependent induction via MAPK

HBV-dependent transcription regulation leading to HCC

Inhibition of TGF-beta 1 signaling in early colorectal cancer

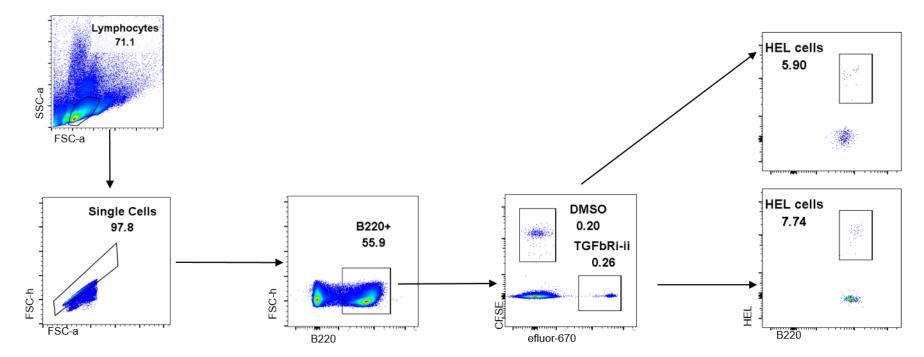
Development_ERK5 in cell proliferation and neuronal survival FoxO signaling pathway

В



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S6



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	T				RVillinCre+ (Bcl2)					R	Villin	Lloxp (Bcl2)				
			Score													
Category	Criterion	Definition	Value1	950	937	927	498	504	511	<mark>926</mark>	925	922	<mark>920</mark>	500	502	<u>503</u>
I,																
Inflamma																
tory cell		Leukocyte density of lamina propria area infiltrated														
infiltrate	Severity	in evaluated hpf:														
		Minimal: <10%	1	1			1	1	1		1	1		1		1
		Mild: 10-25%; scattered neutrophils	2							2					2	
		Moderate: 26-50%	3													
		Marked: >51%; dense infiltrate	4										2			
	Extent	Expansion of leukocyte infiltration:														
		Mucosal	1	1			1	1	1		1	1		1		1
		Mucosal and submucosal	2							2			2		2	
		Mucosal, submucosal and transmural	3													
П,		Increase in epithelial cell numbers in longitudinal														
Epithelial		crypts relative to baseline epithelial cell numbers														
changes2	Hyperplasia	per crypt; visible as crypt elongation:														
		Minimal: <25%	1	1					1	1			1	1		
		Mild: 25-35%	2 or 3				2				2				3	
		Moderate: 36-50%; mitoses in middle/upper third of														
		crypt epithelium, distant from crypt base	3 or 4													
		Marked: >51%; mitoses in upper third of crypt														
		epithelium, distant from crypt base	4 or 5													
		Reduction of goblet cell numbers relative to baseline														
	Goblet cell loss	goblet cell numbers per crypt:														
		Minimal: <20%	1 or 2	1			1	1		1	1	1	2	1	1	
		Mild: 21-35%	2 or 3													
		Moderate: 36-50%	3 or 4													
		Marked: >50%	4													
	Cryptitis	Neutrophils between crypt epithelial cells	2 or 3	2				2		2	2		2	2		
	Crypt abscesses	Neutrophils in crypt lumen	3 to 5													
	Erosion	Loss of surface epithelium	1 to 4													
III,																
Mucosal architect		For the stirl defined we are in a large state of an and second state.														
architect ure2	111	Epithelial defect reaching beyond muscularis	2 + - 5													
urez	Ulceration	mucosae	3 to 5													
		Connective tissue repair with new capillaries,														
		surrounded by spindle-shaped fibroblasts,														
		myofibroblasts, macrophages, neutrophils and														
		mononuclear cells as well as cell debris;														
	Constantions discuss	pseudopolyps: villiformous, hypertrophied areas	4													
	Granulation tissue	projecting into the lumen	4 or 5	-												
	1	Non-parallel crypts, variable crypt diameters,	4													
	Irregular crypts	bifurcation and branched crypts	4 or 5	<u> </u>												
	Crypt loss	Mucosa devoid of crypts	4 or 5												2	-
	Villous blunting	Mild: villous-to-crypt-length ratio of 2:1 to 3:1	1 to 3					<u> </u>		<u> </u>	-				3	3
		Moderate: villous-to-crypt-length ratio of 1:1 to 2:1	2 to 4								1					
	L			-				<u> </u>					<u> </u>			3
		Villous atrophy	3 to 5							1			1			