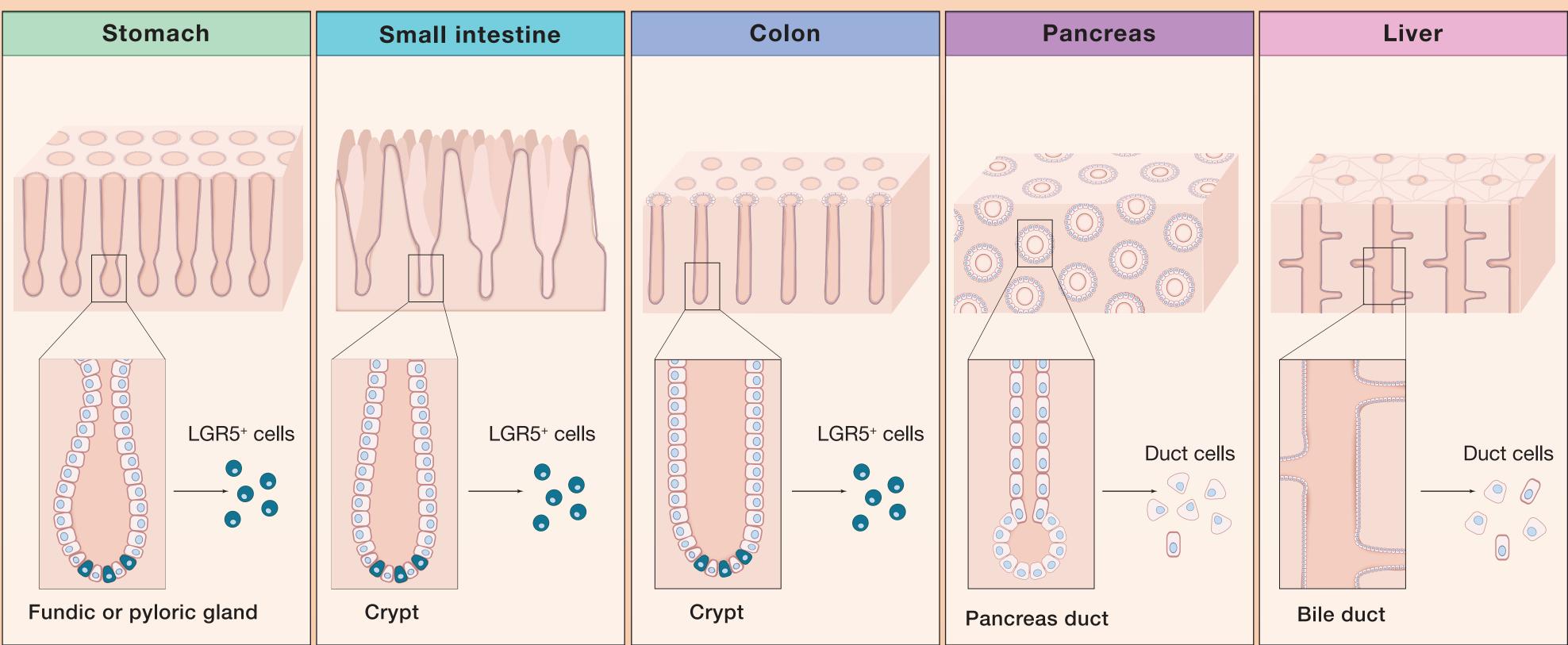
## **SnapShot: Growing Organoids from Stem Cells**

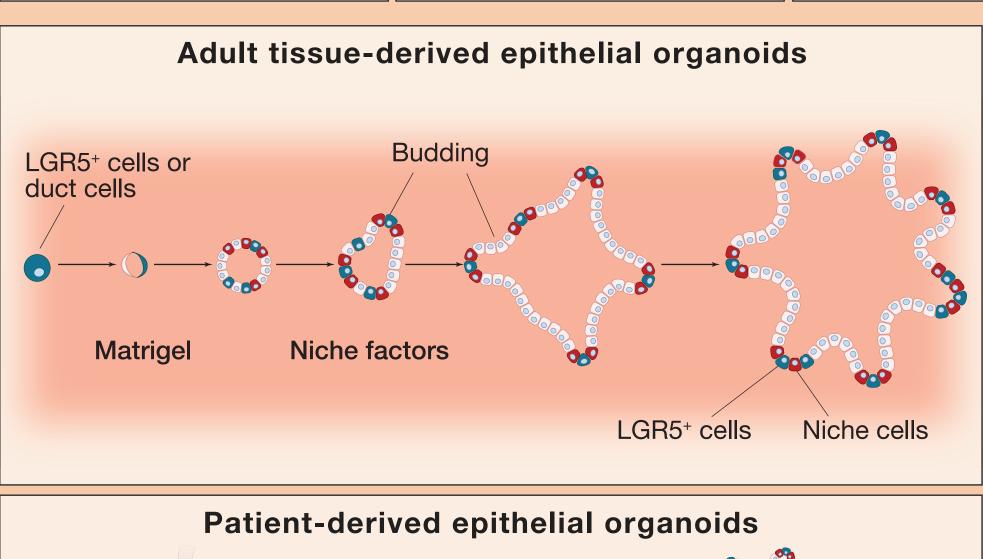


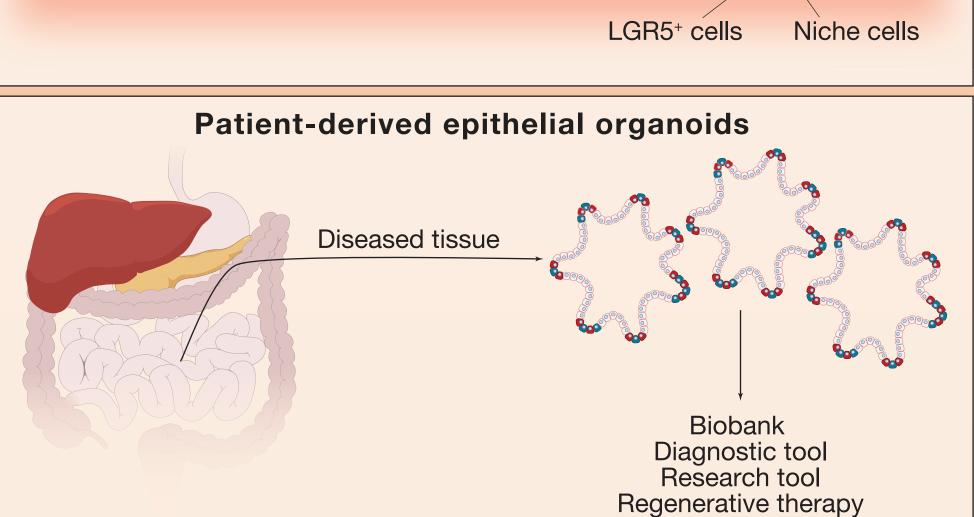
Toshiro Sato<sup>1</sup> and Hans Clevers<sup>2</sup>

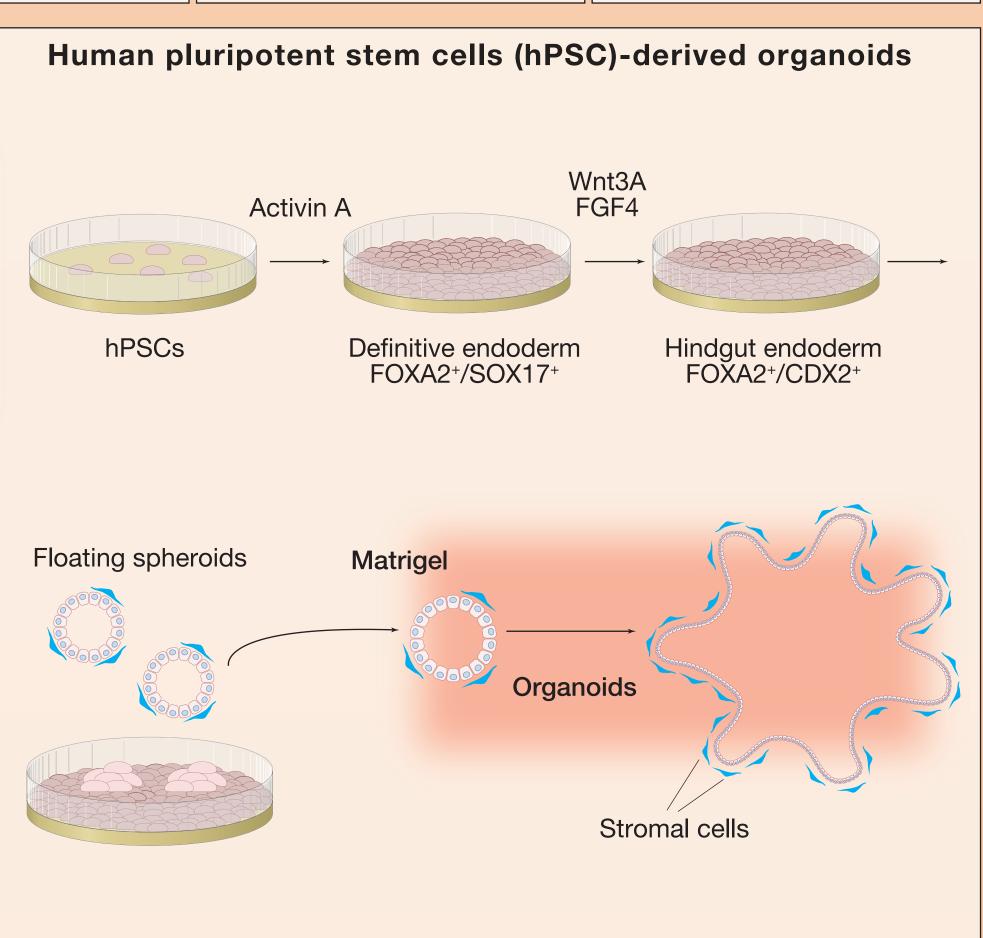
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<sup>2</sup>Hubrecht Institute, KNAW and University Medical Centre Utrecht, Uppsalalaan 8, 3584CT Utrecht, the Netherlands









Type of tissue	Source	Stem cell culture condition (niche factors)	Differentiation culture condition
Stomach	Adult mouse	EGF, Noggin, R-spondin, Wnt-3A, FGF10	EGF, R-spondin
	Adult human	EGF, Noggin, R-spondin, Wnt-3A, FGF10	EGF, R-spondin
	hPSC	EGF	EGF
Small intestine	Adult mouse	EGF, Noggin, R-spondin	EGF, Noggin, R-spondin
	Adult human	EGF, Noggin, R-spondin, Wnt-3A TGF-b inhibitor, p38 inhibitor	EGF, Noggin, R-spondin, TGF-b inhibitor
	hPSC	EGF	EGF
Colon	Adult mouse	EGF, Noggin, R-spondin, Wnt-3A	EGF, Noggin, R-spondin
	Adult human	EGF, Noggin, R-Spondin, Wnt-3A, TGF-b inhibitor, p38 inhibitor	EGF, Noggin, R-spondin, TGF-b inhibitor
Pancreas	Adult mouse	EGF, Noggin, R-spondin, Wnt-3A, FGF10, Nicotinamide	EGF, Noggin, R-spondin, Wnt-3A
	Adult human	EGF, Noggin, R-spondin, Wnt-3A, FGF10, TGF-b inhibition, Nicotinamide	Not reported
Liver	Adult mouse	EGF, Noggin, R-spondin, Wnt-3A, FGF10, HGF, Nicotinamide	EGF, Noggin, FGF10, TGF-b inhibition, Notch inhibition
	Adult human	EGF, Noggin, R-spondin, Wnt-3A, FGF10, HGF, Nicotinamide, TGF-b inhibitor, Forskolin	EGF, Noggin, FGF10, TGF-b inhibition, Notch inhibition, BMP7

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