

Stomach Epithelial Organoids

EGF
FGF-10
Noggin
R-Spondin-1
Wnt-3a
Gastrin
Y 27632

A 83-01
Nicotinamide
SB 202190

Small Intestine Epithelial Organoids & Colon Epithelial Organoids

EGF
Noggin
R-Spondin-1
Wnt-3a
A 83-01
SB 202190
Y 27632

A 83-01
Nicotinamide
SB 202190

Liver Organoids

BMP-4
EGF
FGF-basic
FGF-10
HGF
Noggin
R-Spondin-1
Wnt-3a
A 83-01
DAPT
Forskolin
Gastrin
Nicotinamide
Y 27632
Prostaglandin E2

Lung Organoids

Activin A
FGF-basic
FGF-4
Noggin
CHIR 99021
SB 431542

Prostate Organoids

Activin A
EGF
FGF-basic
FGF-10
Noggin
R-Spondin-1
A 83-01
SB 202190
Y 27632
Prostaglandin E2
Nicotinamide
Testosterone

Pancreatic Organoids

EGF
FGF-10
Noggin
R-Spondin-1
Wnt-3a
A 83-01
Nicotinamide
Gastrin

Brain Organoids

FGF-basic
Noggin
DKK-1
EGF
BDNF
GDNF
MK-2206
GDC-0068
Dorsomorphin
Y 27632

Inner Ear Organoids

BMP-4
FGF-basic
A 83-01
SB 431542

Retina Organoids

Shh
Wnt-3a
Y 27632
CHIR 99021

Mammary Organoids

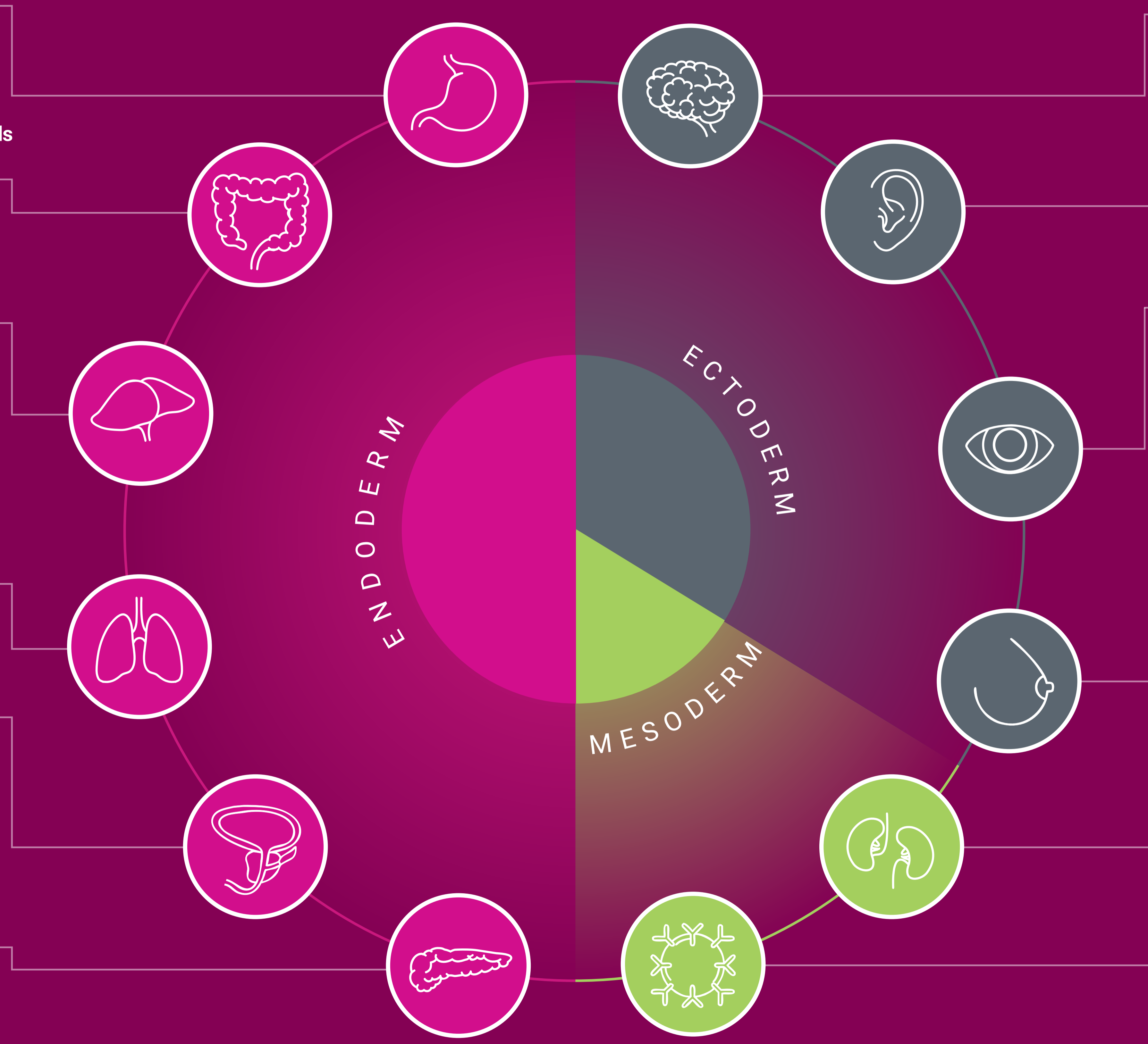
Heregulin β -1 (NRG1)
R-spondin-1
R-spondin-2
Noggin
EGF
FGF-basic
FGF-10
Wnt3a
Prolactin
Y 27632

Kidney Organoids

BMP-2
BMP-4
BMP-7
FGF-basic
FGF-9
CHIR 99021
Retinoic Acid
Y 27632

Immuno Germinal Center - Like Organoids

IL-4



■ Proteins & Growth Factors ■ Small Molecules ■ Long term grow components

References

Stomach Organoids
Mahe M, et al. (2013) Curr. Protoc. Mouse Biol. 3:217
Sato T, and H. Clevers (2015) Cell. 161:1700
Bartfeld S, et al. (2015) Gastroenterology. 148:126

Small Intestinal and Colonic Organoids
Mahe M, et al. (2013) Curr. Protoc. Mouse Biol. 3:217
Sato T, et al. (2011) Gastroenterology. 141:1762
Sato T, and H. Clevers (2015) Cell. 161:1700
Sato T, and H. Clevers (2009) Nature. 459:262
Jung P, et al. (2011) Nature Medicine. 17:1225

Liver Organoids
Sato T, and H. Clevers (2015) Cell. 161:1700
Takebe T, et al. (2013) Nature 499:481
Broutier L, et al. (2016) Nat. Protocols. 11:1724

Pancreatic Organoids
Sato T, and H. Clevers (2015) Cell. 161:1700
Boj S.F, et al. (2015) Cell. 160:324
Broutier L, et al. (2016) Nature Protocols. 11:1724

Prostate Organoids
Karthaus W.R, et al. (2014) Cell. 159:163
Drost J, et al (2016) Nat. Protocols. 11:347

Kidney Organoids
Xia Y, et al. (2014) Nature Protocols. 9:2693
Xia Y, et al. (2013) Nature Cell Biology. 15:1507
Takasato M, et al. (2014) Nat. Cell Biol. 16:118

Brain Organoids
Lancaster M.A, and J. A. Knoblich (2014) Nat. Protocols. 9:2329
Mariani J, et al. (2015) Cell. 162:375
Be I.Y, et al. (2017) Cell Stem Cell 20:1

Lung Organoids
Dye B.R, et al. (2015) eLIFE. 4:e05098

Inner Ear Organoids
Koehler K.R, and E. Hashino (2014) Nat. Protocols. 9:1229

Immuno Germinal Center - Like Organoids
Purwada A, and Singh A. (2017) Nat. Protocols. 12:168

Retina Organoids
Nakano T, et al. (2012) Cell stem cell. 10: 771

Mammary Organoids
Jardé T, et al. (2016) Nat. Commun. 7: 13207
Jamieson P.R, et al. (2016) Development. dev-145045