

## Supplementary Table 1

### Knowledge Graph Nodes

Assay	<ul style="list-style-type: none"><li>RNA-seq of coding RNA</li><li>RNA-seq of total RNA</li><li>scATAC-seq</li><li>RNA-seq of coding RNA from single cells</li><li>single nucleus RNA sequencing</li><li>transcription profiling by array</li><li>methylation profiling by array</li><li>CROP-seq</li><li>DNA-seq</li><li>RNA-seq of non coding RNA from single cells</li><li>spatial transcriptomics by high-throughput sequencing</li><li>methylation profiling by high throughput sequencing</li><li>microRNA profiling by high throughput sequencing</li><li>ATAC-seq</li><li>ChIP-seq</li></ul>
Organoid_source	<ul style="list-style-type: none"><li>hiPSC cell</li><li>hESC cell</li><li>primary cell</li><li>hESC cell-hiPSC cell</li><li>endothelial cell line</li></ul>
Organoid_type	<ul style="list-style-type: none"><li>colon</li><li>brain</li><li>kidney</li><li>retina</li><li>lung</li><li>placenta</li><li>thymus</li><li>intestine</li><li>dental follicle</li><li>thyroid gland</li><li>spinal cord</li><li>fallopian tube</li><li>gallbladder</li><li>bile duct</li></ul>

Perturbagen

liver  
pancreas  
breast  
heart  
uterus  
stomach  
skin  
spleen  
yolk sac

gene knockout  
CRISPR/Cas9 method  
gene overexpression  
Gefitinib  
Dibenzazepines  
Afimoxifene  
Fluorouracil  
Doxorubicin  
gene knock in  
Escherichia coli  
Salmonella enterica subsp. enterica serovar  
Typhimurium  
Mirdametininib  
Estrogens  
Progesterone  
XAV939  
lentivirus infection  
Sonic Hedgehog Protein  
Epiregulin  
CSF1  
CSF2  
XCL1  
CCL5  
Interferon Gamma  
Tumor necrosis factor alpha (substance)  
EGF  
noggin  
R-Spondin-2  
mutated  
Benzo(a)pyrene  
2,2',4,4',5,5'-hexachlorobiphenyl  
West Nile virus  
CHIR 99021

	GSK-LSD1 Human astrovirus 1 Transforming Growth Factor Beta-1 GSK343 Frameshift Mutation Nicotinamide point mutated Interferon Alpha-2 Baricitinib Severe acute respiratory syndrome coronavirus 2
Protocol	Regents et al., 2019 Lancaster et al., 2013 STEMdiff™ Cerebral Organoid Kit, StemCell Technologies 08570 Nikolic et al., 2017 Turco et al., 2018 Montel-Hagen et al. 2019 Lancaster et al., 2014 Dye et al., 2016a, 2015 Hemeryck et al., 2022 Cowan et al., 2020 Kuwahara et al., 2015 (adapted) Forbester et al., 2015 Tysoe et al., 2019 Li et al., 2023 Toshiro et al., 2011 Lancaster and Knoblich., 2014 Vancamelbeke et al., 2020 Spence et al., 2011 McCracken et al., 2011 Kyungtae et al., 2021 Bauersachs et al., 2021 Cheung et al., 2021 Yu-Hwai et al. 2018 Turco et al. 2017 Childs et al., 2022 Huch et al., 2015 Fleck et al., 2021 Eastlake et al., 2019 Ptasinski et al., 2023 Turco et al 2018 Sheridan et al 2020

Dame et al., 2018  
Tsai et al., 2018  
Fordham et al., 2013  
Forbester et al., 2016  
Howell et al., 2018  
Takasato et al., 2015  
Turco et al., 2017  
Boretto et al., 2017  
Conchola et al., 2023  
Capeling et al., 2022  
Childs et al., 2023  
Tsai et al., 2017  
Watson et al., 2014  
Johnstone et al., 2019  
Romitti et al., 2022  
Pasca et al., 2015  
Zwiggelaar et al., 2020  
Xue et al., 2021  
Sato et al., 2011  
Davis et al., 2022  
Takasato et al., 2015  
Bantounas et al., 2018  
Bantounas et al., 2021  
Vanova et al., 2023  
Bartfeld et al., 2015  
Villa et al., 2022  
van den Berg et al., 2018  
Kanber et al., 2022  
Dye et al., 2015  
Gonzalez-Cordero et al., 2017  
Capeling et al., 2019  
Linnemann et al., 2015  
Stebbing et al., 2021

Supplementary Table 1. Node types and their node instances, excluding dataset nodes.