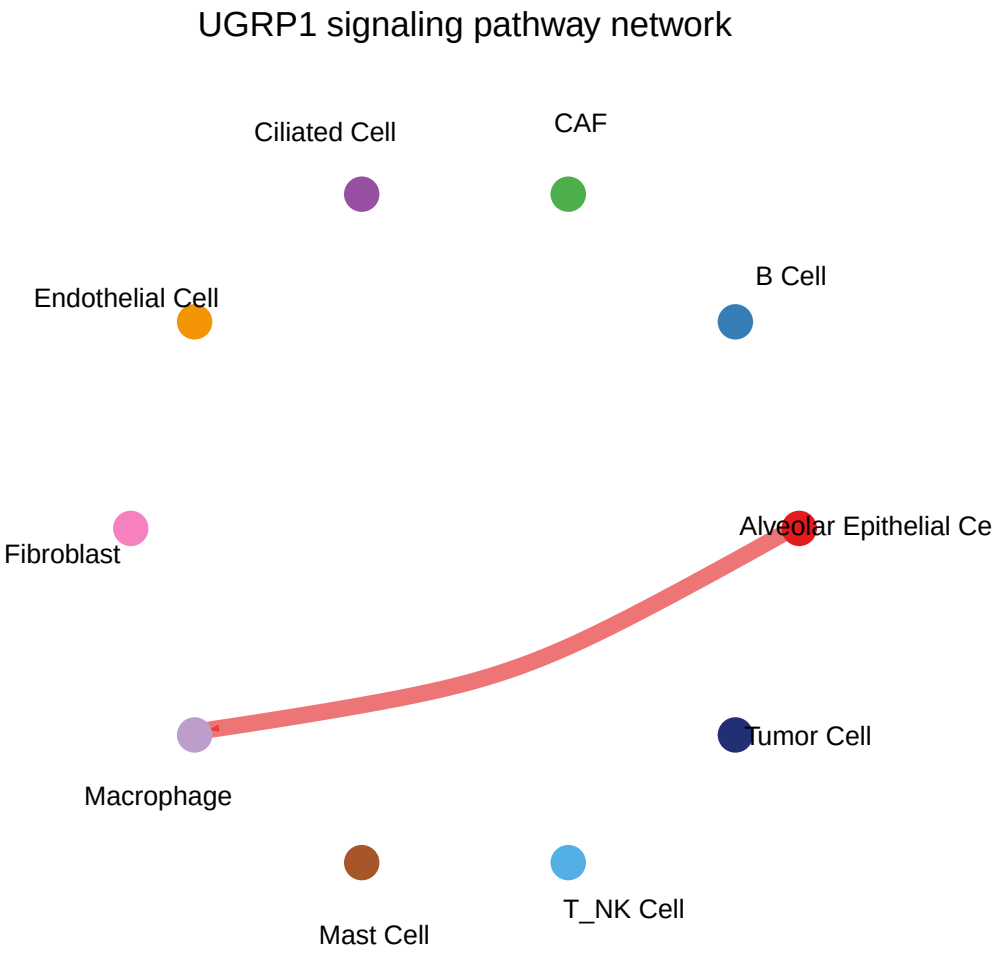
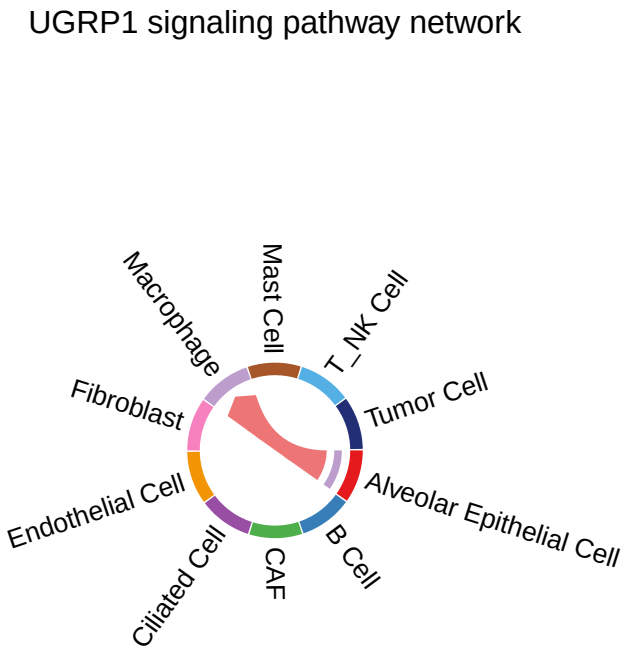
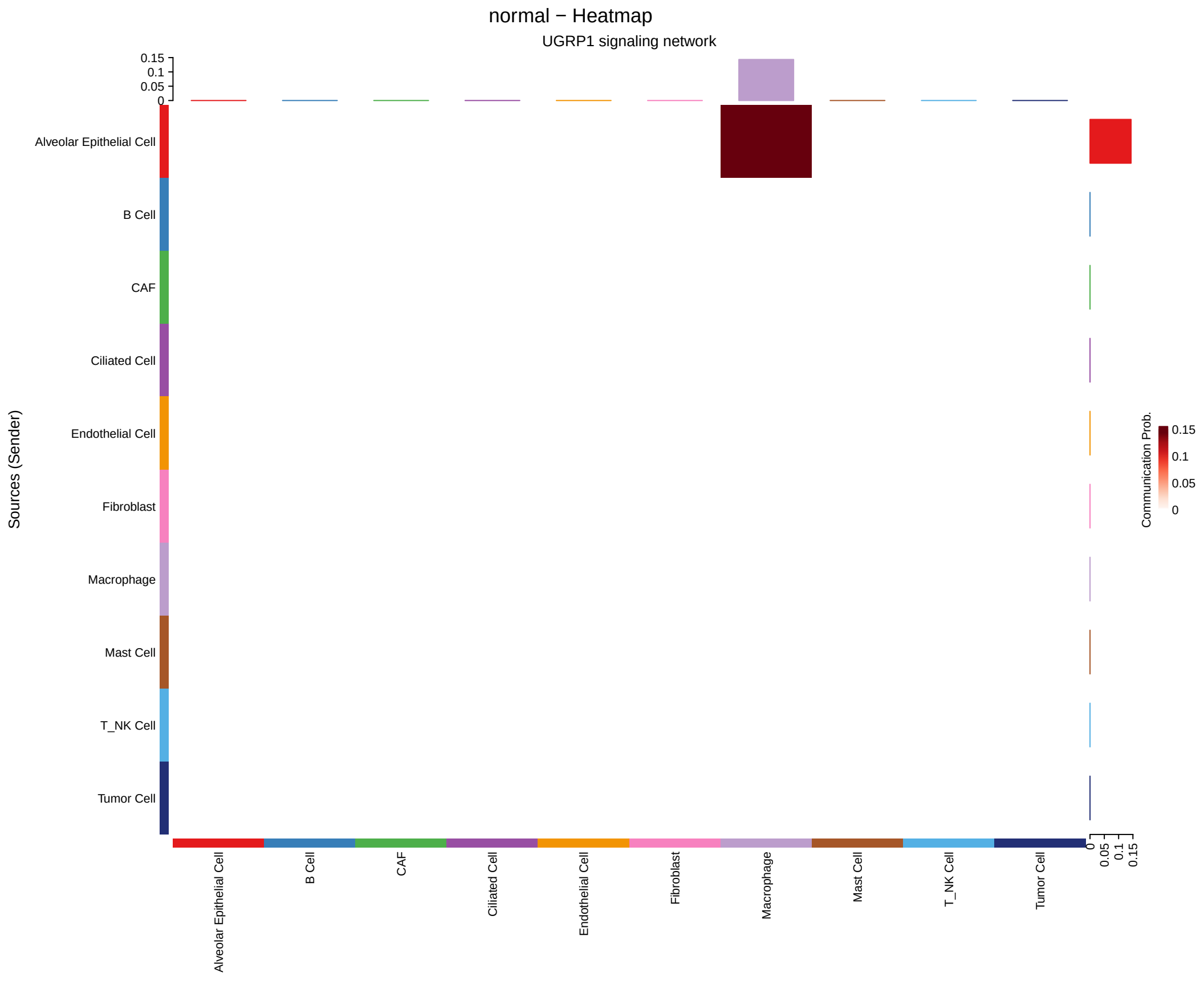
normal − Circle



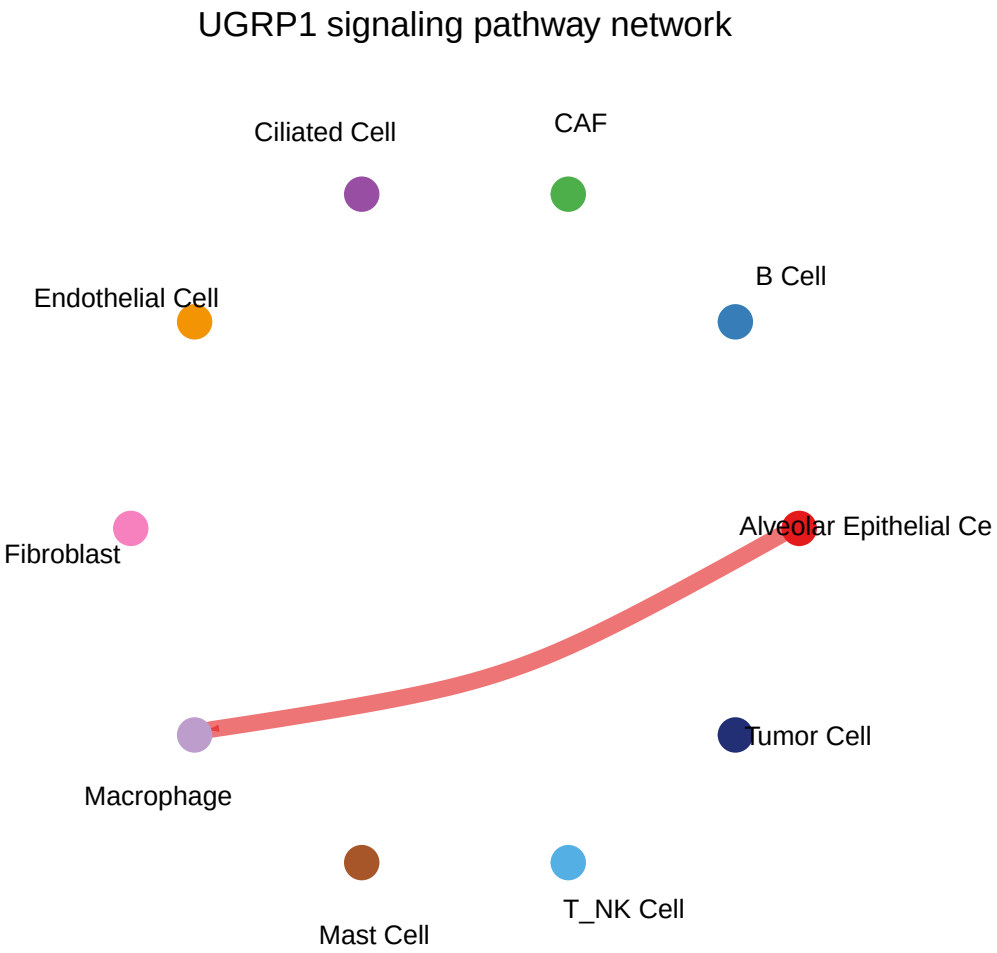
normal − Chord



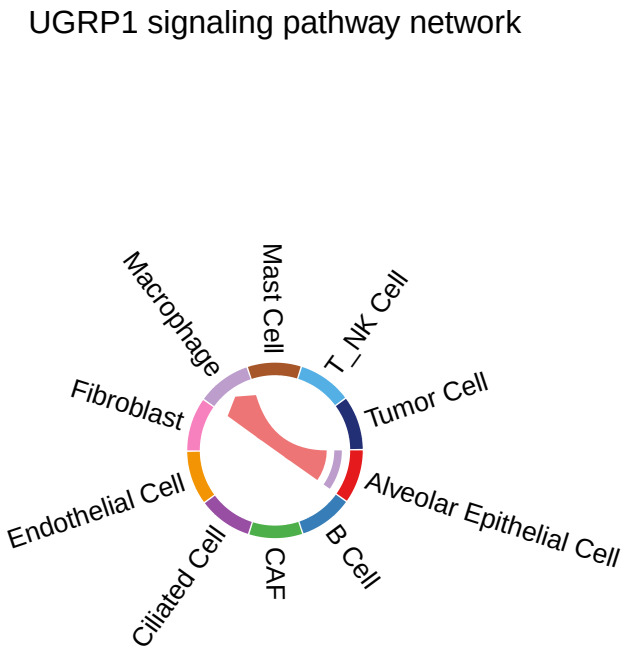

normal − Heatmap
UGRP1 signaling network
0.15
0.1
0.05
0
Alveolar Epithelial Cell
B Cell
CAF
Ciliated Cell
Endothelial Cell
Fibroblast
Macrophage
Mast Cell
T_NK Cell
Tumor Cell
Sources (Sender)
Communication Prob.
0.15
0.1
0.05
0
0
0.05
0.1
0.15

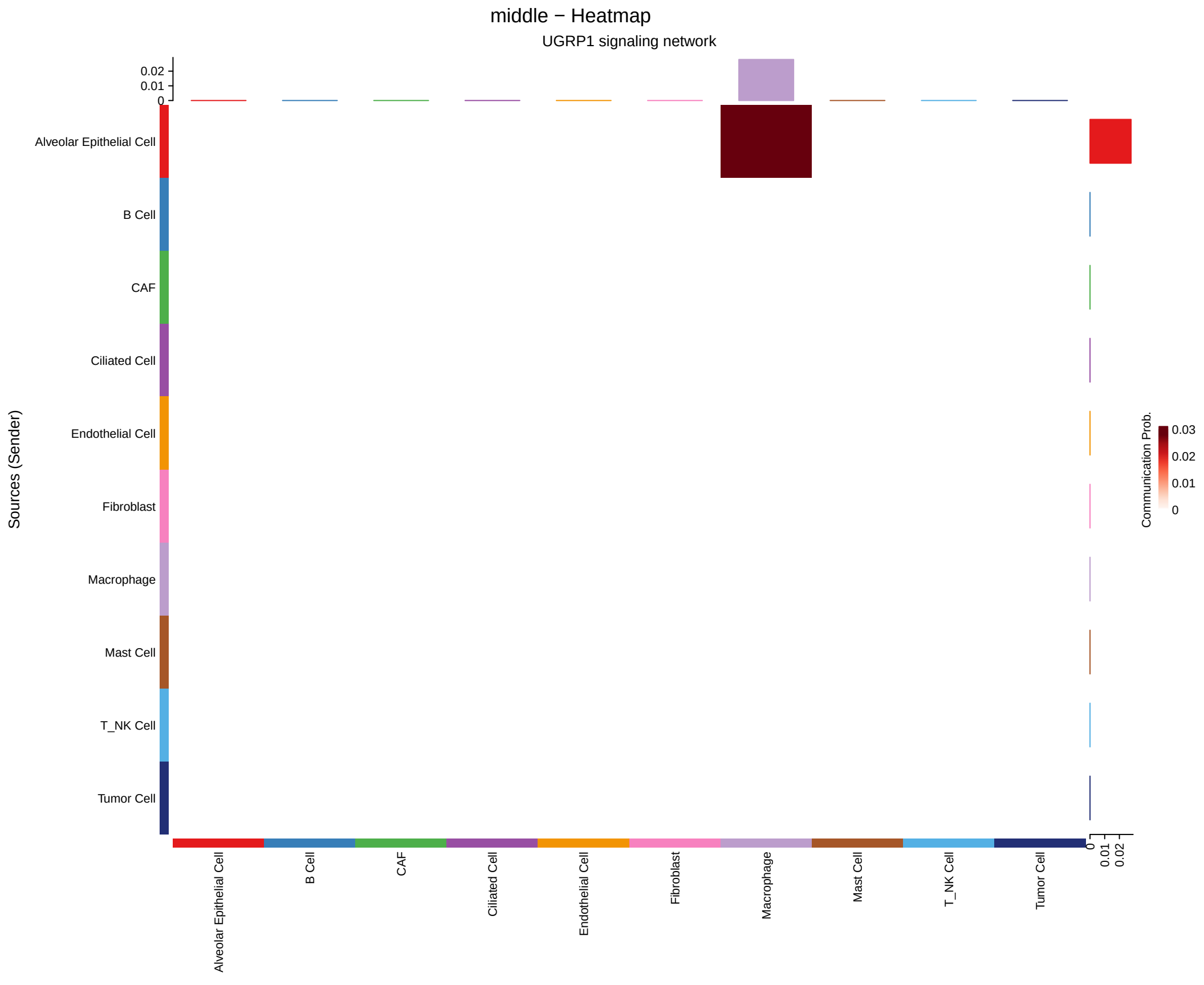
early: No signaling

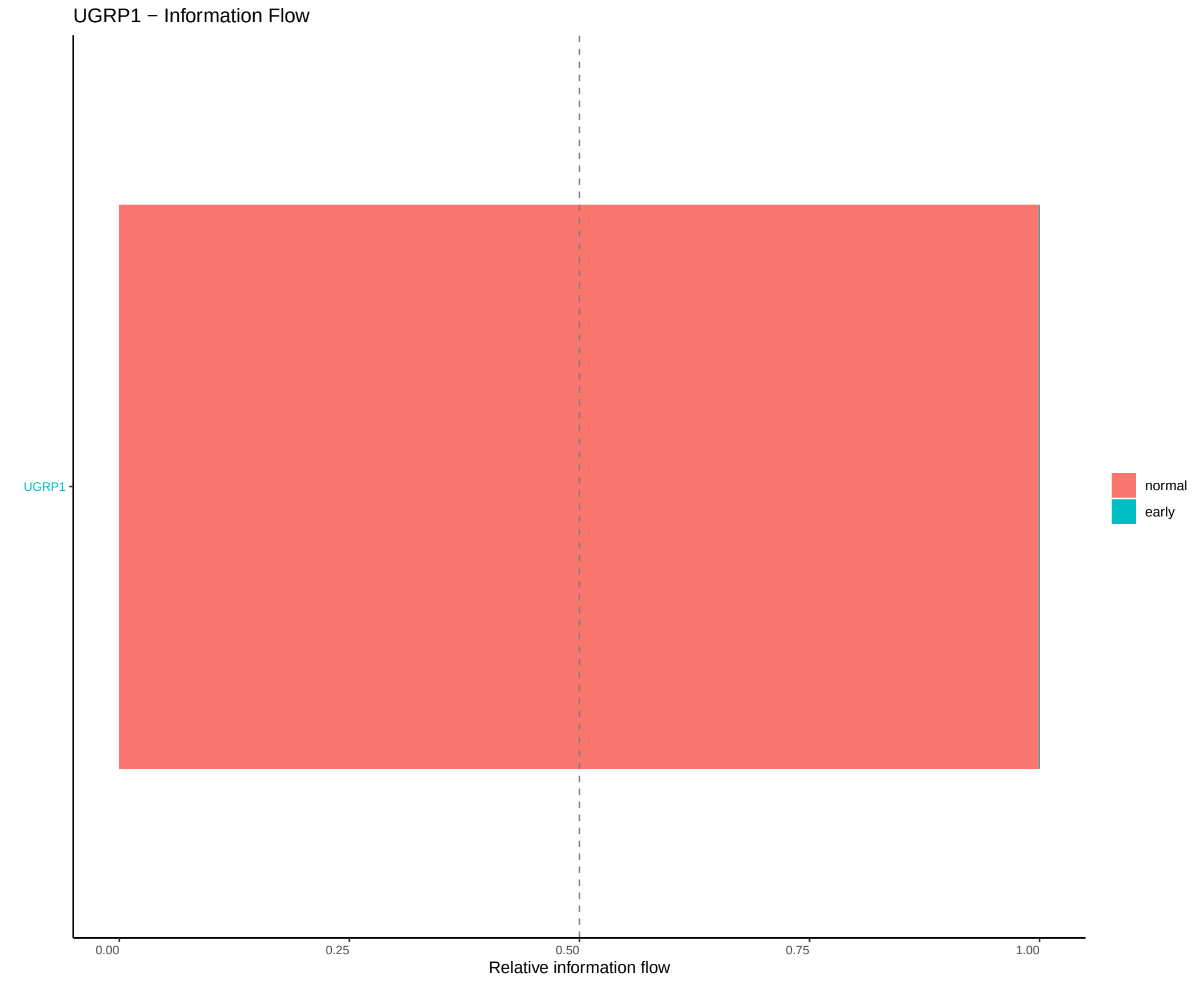
middle − Circle



middle − Chord




middle − Heatmap
UGRP1 signaling network
0.02
0.01
0
Alveolar Epithelial Cell
B Cell
CAF
Ciliated Cell
Endothelial Cell
Fibroblast
Macrophage
Mast Cell
T_NK Cell
Tumor Cell
Sources (Sender)
Communication Prob.
0.03
0.02
0.01
0
0
0.01
0.02


UGRP1 − Information Flow
UGRP1
0.00
0.25
0.50
0.75
1.00
Relative information flow
normal
early