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Gallie-Bateman, McMurrich and Translational Research Presentations
MaRS Auditorium

Gordon Murray Lecturer
Dr. Alan B. Lumsden
Walter F. Monden III Presidential Distinguished Chair, DeBakey Heart & Vascular Center, Chair, Department of Cardiovascular Surgery; Professor of Cardiovascular Surgery, Houston Methodist, Weill Cornell Medical College, Houston, Texas

Shelly Luu (SSTP), et al. [Carol Swallow, Supervisor]: Loss of FAM46C induces ion channelopathy in gastric adenocarcinoma (GCa). A-C RNA-sequencing analysis of 21 patients who underwent curative-intent resection of GCa demonstrates that ion channel-related gene expression is significantly dysregulated in low-FAM46C tumours. D- E KCNO1 is underexpressed in GCa and its expression is correlated with FAM46C in patients. F FAM46C-depleted AGS GCa cells are better able to tolerate high [KCl].

Severa Bunda, Gelareh Zadeh [Supervisor]

Figure 1: Cartoon depicting unstimulated and RTK stimulated downstream effector pathways and antagonism of gene repression by CIC. Ras/ERK promotes degradation of CIC and Src mediates nuclear export of DNA unbound CIC relieving CIC gene repression.