Effect of NaCl and minerals on secretion of gastrointestinal hormones by hormone-producing cells: Purification of hormone-producing cells from rat small intestine.

Summary

Gastrointestinal hormone-producing cells were purified from rat small intestin with dispersion and percoll density gradient centrifugation. Rat epithelial cells were dispersed by dispase and collagenase. The dispersed cells were filtrated through 200 and 400 mesh wire filters. The filtrates were then applied on density gradient centrifugation with 35% percoll. The fraction number 11 and 12 on the centrifugation contained gastrin, chromogranin and CCK. The small intestinal absorption cells, which occupy almost 99% of the small intestinal cells, were separated from these cells. It suggested that gastrointestional hormone producing cells were highly concentrated, and it must be useful for investigation of the effect of minerals on the hormone-release of the cells.