

学 位 論 文 の 要 旨

所 属	三重大学大学院医学系研究科 甲 生命医科学専攻 環境社会医学講座 環境分子医学分野	氏 名	莫 穎 禧
<div>主論文の題名</div> <div>Promoter hypermethylation of Ras-related GTPase gene <i>RRAD</i> inactivates a tumor suppressor function in nasopharyngeal carcinoma</div> <div>主論文の要旨</div> <div>Nasopharyngeal carcinoma (NPC) is endemic in southern China. In a genome-wide screen for genes inactivated by promoter hypermethylation in NPC cell lines, we identified Ras-related associated with diabetes (<i>RRAD</i>). Expression of <i>RRAD</i> was down-regulated in NPC cell lines and 83.3% (30/36) primary tumors. <i>RRAD</i> was aberrantly methylated in NPC cell lines and 74.3% (26/35) primary tumors, but not in normal nasopharyngeal epithelium. Ectopic <i>RRAD</i> expression inhibited the growth of NPC cells, colony formation, and cell migration. These results indicate that <i>RRAD</i> might act as a functional tumor suppressor and its epigenetic inactivation may play an important role in NPC development</div>			