

# 学位論文審査結果の要旨

所 属	乙 三重大学大学院医学系研究科 生命医科学専攻 病態解明医学講座 小児発達医学分野	氏 名	櫻井 直人
審 査 委 員	主 査 野阪 哲哉 副 査 山崎 英俊 副 査 片山 直之		
<p>(学位論文審査結果の要旨)</p> <p>Role of microRNAs in glucocorticoid-resistant B-cell precursor acute lymphoblastic leukemia</p> <p>【主論文審査結果の要旨】</p> <p>著者らは論文において下記の内容を述べている。</p> <p>Acute lymphoblastic leukemia (ALL) in childhood is characterized by a high remission rates which is attributed to patients responding poorly to therapy. Glucocorticoids (GCs) such as prednisone and dexamethasone (DEX) are essential drugs used for ALL chemotherapy, and response to GC treatment is a strong independent factor of ALL prognosis. In the present study, we examined the mechanism of GC resistance in B-cell precursor ALL (BCP-ALL). GCs treatment up-regulated glucocorticoid receptor (GR) and Bim expression, resulting in apoptosis of a GC-sensitive BCP-ALL cell line, but not of a GC-resistant BCP-ALL cell line. GR was down-regulated in a DEX-resistant BCP-ALL cell line which was induced by treatment of cells with increasing concentrations of DEX. Interestingly, expression levels of miR-142-3p and miR-17~92 cluster were up-regulated in the acquired DEX-resistant BCP-ALL cell line. Our results suggest that the interference of miR-142-3p and miR-17~92 might overcome resistance to GCs in BCP-ALL.</p> <p>櫻井直人らの研究は、小児急性リンパ性白血病のステロイド耐性の機序について詳</p>			

細に検討した論文であり、学術上極めて有益であり、学位論文として価値あるものと認めた。

Oncology Reports

Received: November 27. 2018

Accepted: May 14. 2019

NAOTO SAKURAI, YOSHINORI KOMADA, RYO HANAKI, MARI MORIMOTO,  
TAKAHIRO ITO, DAISUKE NAKATO and MASAHIRO HIRAYAMA