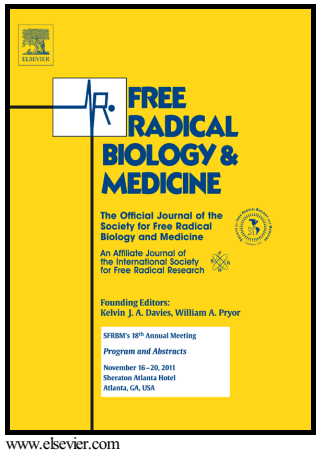

An Intronic Single Nucleotide Polymorphism in the *MUTYH* Gene Is Associated with Increased Risk for HCV-induced Hepatocellular carcinoma

Akira Sakurada, Koji Miyanishi, Shingo Tanaka, Masanori Sato, Hiroki Sakamoto, Yutaka Kawano, Kohichi Takada, Yusaku Nakabeppu, Masayoshi Kobune, Junji Kato

PII: S0891-5849(18)31216-4
DOI: https://doi.org/10.1016/j.freeradbiomed.2018.09.010
Reference: FRB13912

To appear in: *Free Radical Biology and Medicine*

Received date: 11 July 2018
Revised date: 30 August 2018
Accepted date: 11 September 2018

Cite this article as: Akira Sakurada, Koji Miyanishi, Shingo Tanaka, Masanori Sato, Hiroki Sakamoto, Yutaka Kawano, Kohichi Takada, Yusaku Nakabeppu, Masayoshi Kobune and Junji Kato, An Intronic Single Nucleotide Polymorphism in the *MUTYH* Gene Is Associated with Increased Risk for HCV-induced Hepatocellular carcinoma, *Free Radical Biology and Medicine,* https://doi.org/10.1016/j.freeradbiomed.2018.09.010

An Intronic Single Nucleotide Polymorphism in the *MUTYH* Gene Is Associated with Increased Risk for HCV-induced Hepatocellular carcinoma

Short Title: A SNP in the *MUTYH* Associated with Risk for HCC

AKIRA SAKURADA,[1] KOJI MIYANISHI,[1,#] SHINGO TANAKA,[1] MASANORI SATO,[1] HIROKI SAKAMOTO,[1] YUTAKA KAWANO,[1] KOHICHI TAKADA,[1] YUSAKU NAKABEPPU,[2,#] MASAYOSHI KOBUNE,[1] and JUNJI KATO[1,#]

[1] Department of Medical Oncology, Sapporo Medical University School of Medicine, Sapporo, Japan

[2] Division of Neurofunctional Genomics, Department of Immunobiology and Neuroscience, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan

[#] Corresponding authors.

Grant Supports: This work was supported by JSPS KAKENHI Grant Numbers JP24590985, JP19390202, JP17390220.

Abbreviations used in this paper: ROS, reactive oxygen species; 8-oxodGuo, 8-oxo-7,8-dihydro-2'-deoxyguanosine; 8-oxoguanine or GO, 8-oxo-7,8-dihydroguanine; OGG1, 8-oxoguanine DNA glycosylase protein; CI, confidence interval; HR, hzard ratio; SNP, single nucleotide polymorphism

Correspondence: Koji Miyanishi, M.D., Ph.D., Department of Medical Oncology, Sapporo Medical University, School of Medicine, South-1, West-16, Chuo-ku, Sapporo, 060-8543,