慶應義塾大学学術情報リポジトリ
Keio Associated Repository of Academic resouces

Title	Autooxidation of alkylhydrazones and mutagenicity of the resulting hydroperoxides
Sub Title	
Author	望月, 正隆(Mochizuki, Masataka) 道廣, 幸三(Michihiro, Kozo) 塩見, 佳津子(Shiomi, Katsuko) 伊藤, 啓(Ito, Kei) 丹下, 佳子(Tange, Yoshiko) 膝舘, 祥治(Hizatate, Shoji)
Publisher	共立薬科大学
Publication year	1993
Jtitle	共立薬科大学研究年報 (The annual report of the Kyoritsu College of Pharmacy). No.38 (1993.) ,p.71- 71
JaLC DOI	
Abstract	
Notes	抄録
Genre	Technical Report
URL	https://koara.lib.keio.ac.jp/xoonips/modules/xoonips/detail.php?koara_id=AN00062898-00000038-0071

慶應義塾大学学術情報リポジトリ(KOARA)に掲載されているコンテンツの著作権は、それぞれの著作者、学会または出版社/発行者に帰属し、その権利は著作権法によって保護されています。引用にあたっては、著作権法を遵守してご利用ください。

The copyrights of content available on the KeiO Associated Repository of Academic resources (KOARA) belong to the respective authors, academic societies, or publishers/issuers, and these rights are protected by the Japanese Copyright Act. When quoting the content, please follow the Japanese copyright act.

Autooxidation of Alkylhydrazones and Mutagenicity of the Resulting Hydroperoxides*

Masataka MOCHIZUKI, Kozo MICHIHIRO, Katsuko SHIOMI, Kei ITOH, Yoshiko TANGE and Shoji HIZATATE

望月正隆，道廣幸三，塩見佳津子，伊藤　啓，丹下佳子，膝舘祥治

Acetone alkylhydrazones were readily autooxidized to 2–alkylazo–2–propyl hydroperoxides, which were directly mutagenic in *Salmonella typhimurium* TA 1535, TA 100, TA 102 and *Escherichia coli* WP2*hcr*$^-$. The mechanism of this mutagenicity presumes that the hydroperoxides in aqueous solution decompose to alkyl diazonium ions which were observed in the alkylation of 4–(*p*–nitrobenzyl)pyridine, and also to hydroxyl radical which was detected by ESR.

* 本報告は *Biol. Pharm. Bull.*, **16** (1), 96—98 (1993) に発表。