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TITLE

QUINOLINE DERIVATIVES RELATED TO

2-HYDROXYQUININIC ACID

BY

Paul Oliver DeGarmo

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SUPERVISORY COMMITTEE

PREVIEW

QUINOLINE DERIVATIVES
RELATED TO 2-HYDROXYQUININIC ACID

by

Paul Oliver DeGarmo

A THESIS

Presented to the Faculty of
The Graduate College in the University of Nebraska
In Partial Fulfillment of Requirements
For the Degree of Doctor of Philosophy
Department of Chemistry

Lincoln, Nebraska

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The author wishes to express
his appreciation to Dr. C. S. Hamilton
who suggested this problem and super-
vised the work.

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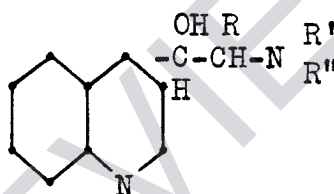
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I. Introduction

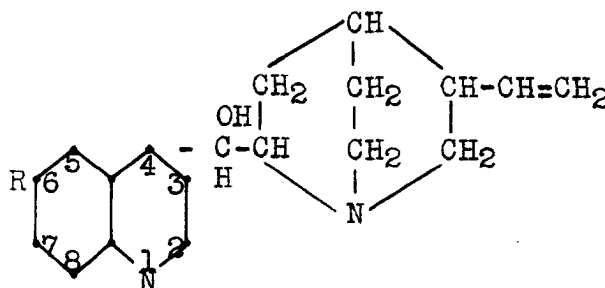
Malaria causes severe suffering to seventy or eighty million people and death to at least one million each year. Since about 1630 when cinchona bark was first used in Europe, many attempts have been made to synthesize compounds which would be suitable for the treatment of malaria.

Much of the recent work has apparently been based largely on Kaufmann's¹ idea that anti-malarial activity is a property of the grouping



(I)

The chief naturally occurring cinchona alkaloids conform to this pattern having the general formula



(II)