

## Thesis Abstract

Design, Synthesis and Biological Evaluation of Novel Quinoline Based Small  
Molecules as Anticancer Agents Targeting Topoisomerase I

(トポイソメラーゼ I 阻害薬を目指したキノリン誘導体の設計、合成、生物活性)

Mostafa Mohamed Mostafa Elbadawi

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Department of Chemistry,  
Graduate School of Science,  
Hiroshima University

## Content of the thesis

Preface

Abstract

**Chapter 1 Introduction**

**Chapter 2 Discovery of 4-alkoxy-2-aryl-6,7-dimethoxyquinolines as topoisomerase I poisons lead compounds with potential *in vitro* anticancer activity**

**Chapter 3 Development of potential anticancer agents through structural modification of 2-aryl-4-propoxymorpholine- 6,7-dimethoxyquinolines**

**Chapter 4 Design, synthesis and biological evaluation of benzofuroquinolines as potential anticancer agents through structural modification of 2-(*p*-chlorophenyl)-4-propoxymorpholine-6,7-dimethoxyquinoline**

**Summary**

References

Acknowledgement

List of publications