Functional study of the human genome

Li, Y.

Functional study of the human genome

Yufeng Li

Functional study of the human genome

ISBN:

Cover design: Yufeng Li
Layout: Yufeng Li, Baoxu Pang, Shengnan Sun

Functional study of the human genome

Proefschrift

ter verkrijging van

de graad van doctor aan de Universiteit Leiden

op gezag van rector magnificus prof.dr.ir. H. Bijl,

volgens besluit van het college voor promoties

te verdedigen op maandag 02 oktober 2023

klokke 15.30 uur

door

Yufeng Li

geboren te Tianmen, China

in 1992

Promotor: Prof.dr. J.J.C. Neefjes

Co-promotor: Dr. B. Pang

Promotiecommissie:

Prof.dr. R.C. Hoeben
Prof.dr. P. ten Dijke
Prof.dr. M.J.T.H. Goumans
Prof.dr.ir. S.M. van der Maarel
Dr. S.M. Noordermeer

The work described in this thesis was performed at the Department of Cell and Chemical Biology of the Leiden University Medical Center, Leiden, the Netherlands.

The research described in this thesis was supported by a personal grant of the China Scholarship Council to Yufeng Li (No. 201806990016).

Table of Contents

Chapter 1 Introduction

Chapter 2 Targeted CRISPR activation and knockout screenings identify novel doxorubicin transporters

Chapter 3 The genome-wide dual-CRISPR screening identifies essential non-coding regulatory elements

Chapter 4 Summary