

# Ziyuan He

PH.D. CANDIDATE

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## Education

### Tulane National Primate Research Center, Tulane University

New Orleans, LA, USA

GRADUATE STUDENT IN MICROBIOLOGY AND IMMUNOLOGY

Aug. 2014 - Present

- Admitted to PhD Candidacy at Nov. 2016
- Dissertation Advisor: Marcelo J. Kuroda MD, PhD

### Huazhong University of Science and Technology

Wuhan, China

B.S. IN BIOLOGICAL SCIENCE

Sep. 2010 - May. 2014

- Student in Bioscience of National Bases for Cultivation of Scientific Talent

## Research Experience

### Tulane University

New Orleans, LA, USA

DISSERTATION PROJECT

Aug. 2014 - PRESENT

- Investigate the kinetics of myeloid cells in rhesus macaques during homeostasis
- Determine the effect of aging on neutrophil kinetics and clearance
- Determine the effect of aging on phenotypes and functions of neutrophils and accumulation of PMN-MDSCs

### China Novartis Institutes for BioMedical Research, Novartis

Shanghai, China

RESEARCH ASSISTANT INTERN

Jun. 2013 - Sep. 2013

- Conducted targeted molecular epidemiology Research on Nasopharyngeal Carcinoma(NPC)
- Conducted target DNA sequence enrichment experiment(using RainDance RDT1000)
- Established quality control system for the extracted RNA integrity (using Agilent 2100 RIN score)
- Established Cell lines from primary cancer tissue using ROCK inhibitors and feeder cells (Georgetown Method).

### Huazhong University of Science and Technology

Wuhan, China

UNDERGRADUATE RESEARCH PROJECT

Jun. 2016 - Dec. 2016

- Conducted data analysis and visualization for genome-scale data from The Cancer Genome Atlas (TCGA).

## Publications

He, Z., Allers, C., Sugimoto, C., Ahmed, N., Fujioka, H., Kim, W.K., Didier, E.S. and Kuroda, M.J., 2018. "Rapid Turnover and High Production Rate of Myeloid Cells in Adult Rhesus Macaques with Compensations during Aging." *The Journal of Immunology*, p.ji1800207.

## Presentation

### IMMUNOLOGY 2017

Washington, DC, USA

POSTER PRESENTATION

May. 2017

- He, Ziyuan, et al. "Kinetics modeling of myeloid cells in rhesus macaques with pulse-chase BrdU labeling." (2017): 134-1.

### 2017 Summer School on Modeling Immunology

Atlanta, GA, USA

STUDENT AND PRESENTER

May. 2017

- Kinetics modeling of neutrophils, basophils, and classical monocytes in young and elderly rhesus macaques.

### 34th Annual Symposium on Nonhuman Primate Models for AIDS

New Orleans, LA, USA

POSTER PRESENTATION

Oct. 2016

- Role of neutrophils in healthy and SIV-infected rhesus macaques.

## Extracurricular Activity

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### KeYanZhe/Guokr/Zhihu.com

FREELANCE SCIENTIFIC COMMUNICATION WRITER

*Apr. 2017 - present*

- Wrote and translated various epidemiological and clinical infectious disease (HIV, influenza, etc.) summaries from public agencies (such as CDC, NCI, and WHO) into Chinese for the use of Chinese general public.
- Researched literature and summarized advance in disease research and treatment reports in plain writing for public knowledge both in Chinese and English.

### PR Department, Student Union, Huazhong University of Science and Technology

*Wuhan, China*

VICE PRESIDENT

*Oct. 2010 - Jun. 2012*

- Led a team of more than 10 students in the university's largest student organization and organized student events for 56,000 students at campus.
- Negotiated with company representatives and raised 50,000 yuan annually for company-sponsored student events.
- Led the team to organize the 2011 HUST New Year and Spring Festival Carnival for over 8,000 attendances.

### Go Game Clubs (Various)

*Wuhan, China || New Orleans, USA*

GO GAME TEACHER

*Sep. 2010 - present*

- Expertise(5 Dan) in the board game of GO.
- Taught a GO game class of more than 10 kids around 4-7 years old for a year.
- Helped administrating daily affairs of the club.
- Trained multiple clients for go game competitions.