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Q1 Faculty Information:

Last name:	Ke
First name:	Hangjun
Faculty Position:	Assistant Professor
Department:	Microbiology and Immunology
Institution:	DUCOM
Phone:	2159918448
Email Address:	hk84@drexel.edu

Q2 Type of Research? **Basic Science Research**

Q3 Please describe your research interests:

We are interested in malaria parasites, causative agents of making millions of illnesses and half a million deaths each year.

Medical Student Research Opportunities

Q4 Please provide a brief description of research opportunity/project(s):

1) Title of project(s):

mitochondrial ribosomes of malaria parasites

Brief Description:

The mitoribosomes of malaria parasites contains numerous fragmented ribosomal RNA (rRNA). In other organisms, ribosomes contain large and continuous rRNAs. How these small and fragmented rRNAs form a ribosome complex?

Duration:

2017-2022

Time commitment:

12 hours per week, minimal

Funded or unfunded (yes or no):

yes

2) Title of project(s):

mitochondrial fission mechanisms of malaria parasites

Brief Description:

During a cell cycle, the singular mitochondrion has to divide into 16 pieces along nuclear division. How does one mitochondrion split into 16 pieces?

Duration:

2017-2022

Time commitment:

12 hours per week, minimal

Funded or unfunded (yes or no);

no

Q5 Please indicate the specific level of experience required, if applicable:

First year medical student ,

Second year medical student
