

Page 1

Q1 Faculty Information:

Last name:	Orynbayeva
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Faculty Position:	Assistant Professor
Department:	Surgery
Institution:	College of Medicine
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Q2 Type of Research? **Translational Research**

Q3 Please describe your research interests:

Mitochondria disfunctions in metabolic diseases like cancer, neurodegeneration, and aging.

Medical Student Research Opportunities

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

1) Title of project(s):	Ca²⁺ regulation of cancer mitochondria malate-aspartate shuttle.
Brief Description:	Malate-aspartate shuttle bridges glycolysis and OxPhos. The mechanisms of On/Off control over two pathways are still unknown.
Duration:	6-12 months
Time commitment:	20 h/week
Funded or unfunded (yes or no):	No
2) Title of project(s):	Aging related alterations of mitochondria OxPhos and ROS production.
Brief Description:	To study the role of different metabolic substrates in mitochondria respiration and ROS production.
Duration:	6-12 months
Time commitment:	20h/week
Funded or unfunded (yes or no);	No

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

Open to all medical students
