Medical Student Research Opportunities

Q1 Faculty Information:

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Faculty Position: Professor of Surgery
Department: Surgery
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Q2 Type of Research?
Basic Science Research

Q3 Please describe your research interests:
Cancer research.
### Q4 Please provide a brief description of research opportunity/project(s):

1) **Title of project(s):** Targeting MDM2 protein for anticancer treatment.

   **Brief Description:**
   Study cancer cell membrane expression of the mdm-2 oncoprotein on different cancer stem cells (CTA, CTP, CTR and SW-1222) and understand the mechanism when targeting mdm-2 oncoprotein for anti-cancer treatment.

   **Duration:** 1-2 months
   **Time commitment:** 4-6 hours/ day
   **Specific Requirements:** Basic lab skills like laboratory safety, pipetting, weighing, making solutions, concentration determination.

2) **Title of project(s):** Plasma as an anticancer therapy.

   **Brief Description:**
   Study the effects of plasma as an anti-cancer treatment in different pancreatic cancer cell lines (UN-KPC-960 and PANC-1) and normal pancreatic cell line, HPNE.

   **Duration:** 1-2 months
   **Time commitment:** 4-6 hours/ day
   **Specific Requirements:** Basic lab skills like laboratory safety, pipetting, weighing, making solutions, concentration determination.

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

Open to all medical students