

# UAB BME

## BMES PRESENTATIONS

SEATTLE, WA | OCTOBER 11-14, 2023

**OCT 12**

9:30-10:30 AM  
EXHIBIT  
HALL

**KAMARI MARZETTE**

POSTER PRESENTATION: "TENSION IN THE OVARIAN TUMOR MICROENVIRONMENT MAY LEAD TO CHEMORESISTANCE" (M-496)

**OCT 12**

1:00-1:15 PM  
ROOM 340

**BRONTE MILLER JOHNSON**

PODIUM PRESENTATION: "CHARACTERIZING VEGFR-2 PHOSPHORYLATION PATTERNS DUE TO STRAIN AND ANTI-ANGIOGENIC THERAPIES"

**OCT 12**

1:00-3:00 PM  
EXHIBIT  
HALL 2

**SOPHIE SITAFALWALLA**

HS POSTER COMPETITION: "OPTIMIZING A 3D TUMOR MICROENVIRONMENT MODEL TO INVESTIGATE THE ROLE OF CD44-HYALURONIC ACID CROSSTALK IN BREAST CANCER MIGRATION" (CENTER, EH LEVEL)

**OCT 12**

2:00-3:00 PM  
EXHIBIT  
HALL

**MARANDA KRAMER**

POSTER PRESENTATION: "CD44 EXPRESSION DRIVES DIRECTED MIGRATION IN OVARIAN CANCER CELLS" (C-119)

**OCT 12**

2:00-3:00 PM  
EXHIBIT  
HALL

**HO-WOOK JUN**

POSTER PRESENTATION: "APPLICATION OF NITRIC OXIDE RELEASING BIONANOMATRIX GEL FOR DIALYSIS ARTERIOVENOUS FISTULA MATURATION" (B-63)

**OCT 12**

2:00-3:00 PM  
EXHIBIT  
HALL

**NOORULAH IMRAN**

POSTER PRESENTATION: "DUAL FUNCTION ANTIBODY CONJUGATES (DFAC) AS A PHOTOACOUSTIC IMAGING PROBES FOR IMAGE-GUIDED ORAL CANCER THERAPY" (F-215)

**OCT 12**

2:30-4:00 PM  
ROOMS  
423-425

**HO-WOOK JUN**

SESSION PRESENTATION: THE 11TH US-KOREA  
JOINT WORKSHOP ON BIOMEDICAL ENGINEERING

**OCT 12**

3:00-3:15 PM  
ROOM 342

**IAN BERG**

PODIUM PRESENTATION: "DEVELOPMENT OF SCAFFOLD-FREE,  
HUMAN INDUCED PLURIPOTENT STEM CELL DERIVED, CARDIAC  
TISSUES MATURED UNDER PHYSIOLOGICAL LEVELS OF  
PRESSURE AND STRETCH

**OCT 13**

9:30-10:30 AM  
EXHIBIT  
HALL

**VAISHALI BALA**

POSTER PRESENTATION: "INVESTIGATING  
CROSSTALK OF MECHANICAL AND SOLUBLE CUES  
IN PERIVASCULAR MATRIX" (D-151)

**OCT 13**

9:30-10:30 AM  
EXHIBIT  
HALL

**JUN CHEN**

POSTER PRESENTATION: "THREE-LAYER NANOMATRIX  
VASCULAR SHEETS WITH ATHEROSCLEROSIS FOR HIGH-  
THROUGHPUT THERAPEUTIC EVALUATION" (H-295)

**OCT 13**

9:30-10:30 AM  
EXHIBIT  
HALL

**KYOUNGA CHEON**

POSTER PRESENTATION: "PULP-DENTIN REGENERATION  
USING NITRIC OXIDE RELEASING BIOMIMETIC  
NANOMATRIX GEL" (M-503)

**OCT 13**

3:30-4:30 PM  
EXHIBIT  
HALL

**SACHIN BUDHATHOKI**

POSTER PRESENTATION: "DEVELOPMENT OF AN ENGINEERED  
CARDIAC TISSUE CHIP TO SUBJECT RECELLULARIZED PORCINE  
MYOCARDIAL TISSUE SLICES TO BIOMECHANICAL LOADING"  
(E-190)

**OCT 13**

3:30-4:30 PM  
EXHIBIT  
HALL

**VIDHI PATEL**

POSTER PRESENTATION: "MECHANICAL REGULATION OF  
CADHERIN EXPRESSION IN HUMAN CARDIAC, DERMAL  
AND LUNG FIBROBLASTS" (F-233)

**OCT 14**

9:30-10:30 AM  
EXHIBIT  
HALL

**PEYTON CLARK**

POSTER PRESENTATION: "OVARIAN CANCER  
MIGRATION REGULATED BY VASCULAR  
SENESCENCE" (F-209)

**OCT 14**

9:30-10:30 AM  
EXHIBIT  
HALL

**MICHAEL D. HEIM**

POSTER PRESENTATION: "INVESTIGATING THE EFFECT OF PRO-LONGED TENSILE STRAIN ON THE VASCULAR ENDOTHELIAL GROWTH RECEPTOR 2 AND THE MECHANICAL MEMORY OF ENDOTHELIAL CELLS" (F-235)

**OCT 14**

9:30-10:30 AM  
EXHIBIT  
HALL

**ALLYSON CRISWELL**

PODIUM PRESENTATION: "OVARIAN CANCER CELLS DISPLAY ALTERED PROLIFERATION EXPRESSION WHEN EXPOSED TO STRAIN AND CHEMOTHERAPY DRUGS (H-317)

**OCT 14**

9:30-10:30 AM  
EXHIBIT  
HALL

**PIERCE PLUMLEE**

POSTER PRESENTATION: "NANOMATRIX COATING APPLICATIONS TO IMPROVE ORTHOPEDIC IMPLANT OUTCOMES" (A-6)

**OCT 14**

9:30-10:30 AM  
EXHIBIT  
HALL

**ANNABEL JOHNSON**

POSTER PRESENTATION: "ENDOSWIPE: A PULL-ACTIVATED ENDOSCOPE CLEANING DEVICE FOR EFFICIENT INTRAOPERATIVE LENS MAINTENANCE" (J-395)

**OCT 14**

1:45-2:00 PM  
ROOM 336

**ROBBIE J. CROSS**

PODIUM PRESENTATION: "PRO-HEALING NANOMATRIX COATED STENT ANALYSIS IN AN IN VITRO VASCULAR DOUBLE-LAYER AND IN A RABBIT MODEL"