**Koeppe Biology Undergraduate Honors Symposium**

**Tuesday, November 2, 2021**

**Coker 215**

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|  | Speaker Name | Laboratory | Talk title |
| **Session 1, 2:00 pm** | **Development** | | |
| 2:15 PM | Andrew Burciu | Celia Shiau | A missense mutation in XPR1 cytoplasmic tail ablates gene function required for microglia development |
| 2:35 PM | Angel Scialdone | Frank Conlon | A missense mutation in CHD4 disrupts cardiac development |
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| **Session 2, 3:05 pm** | **Epigenetics** | | |
| 3:10 PM | Cinthya Plazas | Rebecca Fry | The impact of inorganic arsenic exposure on imprinted genes in a human placental cell line |
| 3:30 PM | Emma Welter | Anthony Zannas | Measurement of the Effects of Cortisol-Induced Epigenetic Changes on Cell Morphology Using an AI-based Image Recognition Pipeline |
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| **Session 3, 4:00 pm** | **Cancer and Cancer Treatment** | | |
| 4:05 PM | Khushmi Shah | Alexander Kabanov | Drug-dependent morphological transitions in polymeric micelles enable optimization of therapeutic drug efficacy |
| 4:25 PM | Vaishnavi Siripurpapu | | Systematic Review of Clinicopathologic Characteristics and Outcomes of Primary Cardiac Angiosarcomas |
| 4:45 PM | Sabrina (Shiyue) Yang | Yue Xiong | L-Ascorbic Acid Activates TET2 DNA Dioxygenase to Suppress Tumor Growth as a Co-substrate |
| 5:05 PM | Yaofeng Zhong | Albert Baldwin | Role of eIF4G1 in cancer and its control by TBK1 and/or IKKε |