**2021 Summer Institute in Statistics for Clinical & Epidemiological Research**

**SISCER Module 5:**

**Evaluation of Biomarkers and Risk Models**

**Instructor:** Kathleen Kerr

Times listed are PDT (GMT-7)

All times are approximate. There will take two 15-minute breaks each day.

**Monday, July 12th**

8:30-8:45am Introductions

8:45-9:45am Part I: Foundational Concepts; ROC curves;

describe illustrative datasets

9:45-10am break

10:00-11:00am Part II: Risk Model Calibration and Discrimination

11:00-11:15am break

11:15-Noon Part II, continued: Decision Curve Analysis;

Biomarkers for prognostic enrichment

**Tuesday, July 13th**

8:30-9:30am Part III: Comparing risk models

9:30-9:45am break

9:45-10:45am Part IV: Combining biomarkers and developing risk models

10:45-11:00am break

11:00am-Noon Part V: Target performance for early phase biomarker research

Part VI: Prognostic vs. Predictive biomarkers

There is also a brief *R* demo. If there isn't time to cover it during the module, a recording of it will be shared with module participants.