InterACTION LABS
//CLAVERITO, IQUITOS, PERU

POPULATION HEALTH INITIATIVE 2017: ORAL HEALTH

**Overarching Goal:** to develop an interdisciplinary, action-oriented program – InterACTION Labs – to improve human and animal health, environmental resilience and social equity through participatory design, implementation and assessment of projects, processes and technologies in vulnerable communities

**Overarching Oral Health Goal:** to improve the quality of life of the Claverito Community by enhancing their oral health

### PLANNING

**Goals:** 1) To determine standards of a) calibration for oral exams, i.e. DMFS, Community Periodontal Index; b) selection of diet questionnaire, c) calibration for oral sampling; d) calibration on handling and storing samples; e) extraction of DNA; d) mailing process of samples to Seattle for microbiome analysis; 2) to create timelines; and 3) to recruit students and in-country partners.

**Team:** Seattle and Peruvian teams

**Where:** Seattle – communications with Peru

### CALIBRATION

**Goals:** a) Select the criteria to be used for assessment of quality of life and for oral screenings; b) Calibration among the Seattle team; c) assessment of the Peruvian equipment and extraction of DNA; d) calibration between Seattle and Peruvian dental team.

**Team:** Seattle team and Peruvian team

### BASELINE DATA COLLECTION

**Goal:** 1) to obtain baseline a) oral microbiome samples for DNA extraction, b) CPITN, OHIP14 Spanish version, c) DMFS; and to 2) mail DNA samples to UW

**Team:** Seattle and Peruvian teams.

**Where:** Peru

### ANALYSIS

**Goal:** to sequence the oral samples and perform initial exploratory analyses, i.e. taxonomy, alpha diversity, beta diversity.

**Team:** Seattle team

**Where:** Seattle

### POST INTERVENTION DATA COLLECTION

**Goal:** to obtain follow up data

**Team:** Seattle and Peruvian teams

**Where:** Peru

### FUTURE INTERVENTION

Planning future interventions based on the results of this grant and with the input of the community.

- **Oct – Dec 2017:** Refine tools, techniques, protocols, recruitment, and IRB submission. (Phase 1-2)
- **Mar – May 2018:** Community participatory design and implementation of landscape intervention. (Phase 4)
- **July – Sept 2018:** Conduct UW Exploration Seminar to document urban environmental changes and perform community impact assessment; develop pilot project report; apply for grants to further work. (Phase 6)
- **Jan – Feb 2018:** Oral, gastrointestinal and environmental microbiome sampling; testing for environmental contamination; document current health seeking behaviors; begin analysis of pre-intervention findings. (Phase 2d & 3)
- **June 2018:** Repeat microbiome testing; conduct Health Education Fair; begin analysis of follow-up findings. (Phase 5)

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