

SUNDAY, MARCH 20TH

6:00-8:00PM
WELCOME RECEPTION & POSTER SET-UP
Evening meal, meeting overview, charrette-style kick-off

MONDAY, MARCH 21ST
8

7:30-9:00AM
BREAKFAST

9

9:00-9:10AM **MORNING INTRO**

9:10AM-10:10AM
15 MINUTE TALKS
OBJ 2: REPRODUCIBLE WORKFLOWS AND PROVENANCE IN TICK-BORNE DISEASE RESEARCH
OBJ 4: CHANGING TICK-BORNE DISEASE AND TICK VECTOR DYNAMICS IN THE WESTERN US

- Dr. Claudia Rueckert (UNR) *Pathogen detection in Ixodes and Dermacentor ticks from California and Nevada*
- Dr. Monika Guila-Nuss (UNR) *Tick population genomics*
- Molly McVicar (UNR) *Population genetic structure of the western black-legged tick, Ixodes pacificus*

10

10:10-10:20AM **Break**

10:20 **OBJ 2** Dr. Marshall Ma (UI) *Reproducible workflows and provenance in tick-borne disease research*

10:30 **OBJ 4** Dr. Mike Teglas (UNR) *Changing tick-borne disease and tick vector dynamics in the western US*

11

10:40AM-12:00PM | Bay 3
OBJECTIVE 2 CONVERSATION AND COLLABORATION
Facilitated by objective leader. Brainstorm, shared objectives, plan for year 3, identify publications and proposals. Project outputs and milestones recorded in Google docs. Participants may switch breakout sessions as they wish.

10:40AM-12:00PM | Bay 3
OBJECTIVE 4 CONVERSATION AND COLLABORATION
Facilitated by objective leader. Brainstorm, shared objectives, plan for year 3, identify publications and proposals. Project outputs and milestones recorded in Google docs. Participants may switch breakout sessions as they wish.

12

12:00-1:30PM
LUNCH

1

1:30

1:30-1:40PM **SYNTHESIS FROM MORNING SESSIONS** Objective leaders

1:40-1:45PM **GROUP PHOTO**

2

1:45-3:15PM
UPDATE & ACTIVITY
OBJECTIVE 7: GAMES AND INTERACTIVE DEMOS FOR OUTREACH AND EDUCATION
Dr. Barrie Robison (UI) & Dr. Fred Harris (UNR)

- Dr. Barrie Robison (UI) *Strategic overview: progress update & future plans* (10 min)
- Full group activities (80 min)

3

3:15-4:45PM
UNSTRUCTURED COLLABORATION/FREE TIME
Optional hike and tick collection at Tubbs Hill

4

3:15-4:45PM
MEETING WITH STUDENTS & TRAINEES
Dr. Kim Bernard, External Evaluator
Dr. Paul Gessler, UI Internal Evaluator

5

4:45-6:00PM
POSTER SESSION

6

6:00PM
DINNER

7

7:30-9:00AM
BREAKFAST

8:00-9:00AM
BREAKFAST MEETING
WITH UNM PARTICIPANTS
(AVAILABLE ON ZOOM)

Dr. Kim Bernard, External Evaluator
Dr. Paul Gessler, UI Internal Evaluator

9:00-9:10AM MORNING INTRO

9:10-10:30AM
8 MINUTE TALKS (AVAILABLE ON ZOOM)
OBJ 5: SPATIOTEMPORAL ANALYSIS OF CLIMATE CHANGE IMPACTS ON LYME DISEASE
OBJ 6: SOCIO-ECONOMIC PATTERNS OF TICK-BORNE DISEASE

- Zhe Wang (UI) *Spatiotemporal modeling*
- Dr. Chao Fan (UI) *A simulation-based evaluation of a spatiotemporal modeling framework* (Zoom)
- Dr. Felix Haifeng Liao (UI) *The effect of COVID-19 pandemic on human exposure to ticks*
- Dr. Jonathan Winter (Dartmouth) *Simulated and Observed Black-Legged Tick Dynamics in New England* (Zoom)
- Dr. Vardayani Ratti (CSU Chico) *Mathematical modeling of Ixodes pacificus*
- Dr. Meifang Li (Dartmouth) *Spatiotemporal analysis on Lyme Disease and landscape fragmentation in NH*

10:30-10:45AM Break

10:45 **OBJ 5** Dr. Xun Shi (Dartmouth) *Spatiotemporal analysis of Lyme Disease and tick dynamics in New Hampshire*

10:55 **OBJ 6** Dr. Felix Liao (UI) *Socio-economic patterns of tick-borne disease*

11:05AM-12:15PM

OBJECTIVE 5 CONVERSATION
AND COLLABORATION

Facilitated by objective leader. Brainstorm, shared objectives, plan for year 3, identify publications and proposals. Project outputs and milestones recorded in Google docs. Participants may switch breakout sessions as they wish.

11:05AM-12:15PM

OBJECTIVE 6 CONVERSATION
AND COLLABORATION

Facilitated by objective leader. Brainstorm, shared objectives, plan for year 3, identify publications and proposals. Project outputs and milestones recorded in Google docs. Participants may switch breakout sessions as they wish.

12:15-1:45PM
LUNCH

1:45-2:00PM SYNTHESIS FROM MORNING SESSIONS Objective leaders

2:00-3:10PM
UPDATE & ACTIVITY
OBJECTIVE 1: FAIR DATA OF INTERACTIVE FACTORS IN TICK-BORNE DISEASE DYNAMICS

Dr. Luke Sheneman (UI) & Dr. Tin Nguyen (UNR)

- Dr. Luke Sheneman (UI) *Strategic overview: “Status of the TickBase Data Portal: Interoperability and Next Steps”* (10 min)
- Hung Nguyen (UNR) *TickCrawler progress* (20 min)
- Dr. Luke Sheneman (UI) *TickBase Data Dashboard demo* (50 min)

3:10-3:20PM Break

3:20-4:20PM
30 MINUTE TALKS (AVAILABLE ON ZOOM)
OBJ 3: DATA ANALYTICS AND MACHINE LEARNING
OBJ 8: INTEGRATING DATA TO IMPROVE MODELING OF ROCKY MOUNTAIN SPOTTED FEVER DYNAMICS

- Dr. Frank Gao (UI) *Data analytics and machine learning methods*
- Dr. Yan Lin (UNM) *Integrating big data with individual-level data to improve modeling and prediction of rocky mountain spotted fever dynamics in Native American communities* mountain spotted fever dynamics in Native American communities (Zoom)

4:20-4:45PM
EVALUATION & ADMINISTRATIVE UPDATES

4:45-6:00PM
UNSTRUCTURED COLLABORATION/FREE TIME

6:00PM
DINNER