



**HUMAN  
CELL  
ATLAS**

# **2023 Human Cell Atlas Africa in-person Computational and Experimental Design Workshop**

## **Day 1 - 06 March 2023**

7:00 PM - 8:30 PM GMT +0 / 2:00 PM - 3:30 PM Your local time (1 Hour, 30 Min)

**Welcome Reception**

📍 Fiesta Royale Hotel

## **Day 2 - 07 March 2023**

7:50 AM - 8:45 AM GMT +0 / 2:50 AM - 3:45 AM Your local time (55 Min)

**Depart Hotel and Travel**

8:30 AM - 9:00 AM GMT +0 / 3:30 AM - 4:00 AM Your local time (30 Min)

**Check-in and registration**

9:00 AM - 9:05 AM GMT +0 / 4:00 AM - 4:05 AM Your local time (5 Min)

**Welcoming Remarks**

9:05 AM - 9:20 AM GMT +0 / 4:05 AM - 4:20 AM Your local time (15 Min)

**HCA Overview and Workshop Goals**

9:20 AM - 9:25 AM GMT +0 / 4:20 AM - 4:25 AM Your local time (5 Min)

## Introduction to Staff and Training Leader Team

9:25 AM - 9:35 AM GMT +0 / 4:25 AM - 4:35 AM Your local time (10 Min)

## Staff Housekeeping Notes

9:40 AM - 10:00 AM GMT +0 / 4:40 AM - 5:00 AM Your local time (20 Min)

## Intro to Experimental Design/Dissociation - Track 2: Experimental Design Group

9:40 AM - 10:40 AM GMT +0 / 4:40 AM - 5:40 AM Your local time (1 Hour)

## Introduction to single cell transcriptomics - Track 1: Computational Group

10:00 AM - 1:00 PM GMT +0 / 5:00 AM - 8:00 AM Your local time (3 Hours)

## Experimental Cohort

10:00 AM - 1:00 PM GMT +0 / 5:00 AM - 8:00 AM Your local time (3 Hours)

## Intro to Experimental Design/Dissociation - Track 2: Experimental Design Group

**10:40 AM - 11:25 AM GMT +0 / 5:40 AM - 6:25 AM Your local time** (45 Min)

**Data pre-processing and quality control - Track 1: Computational Group**

**11:25 AM - 11:45 AM GMT +0 / 6:25 AM - 6:45 AM Your local time** (20 Min)

**WACCBIP computing infrastructure introduction - Track 1: Computational Group**

**11:45 AM - 1:00 PM GMT +0 / 6:45 AM - 8:00 AM Your local time** (1 Hour, 15 Min)

**Lab: Quality control for scRNA-Seq data - Track 1: Computational Group**

**1:00 PM - 2:30 PM GMT +0 / 8:00 AM - 9:30 AM Your local time** (1 Hour, 30 Min)

**Lunch (Track 1 & 2)**

**2:30 PM - 4:00 PM GMT +0 / 9:30 AM - 11:00 AM Your local time** (1 Hour, 30 Min)

**Dissociation - Track 2: Experimental Design Group**

**2:30 PM - 4:00 PM GMT +0 / 9:30 AM - 11:00 AM Your local time** (1 Hour, 30 Min)

**Identifying cell populations - Track 1: Computational Group**

**4:00 PM - 4:30 PM GMT +0 / 11:00 AM - 11:30 AM** Your local time (30 Min)

## **Break (Track 1 & 2)**

**4:30 PM - 6:00 PM GMT +0 / 11:30 AM - 1:00 PM** Your local time (1 Hour, 30 Min)

## **Cell Loading - Track 2: Experimental Design Group**

**4:30 PM - 6:00 PM GMT +0 / 11:30 AM - 1:00 PM** Your local time (1 Hour, 30 Min)

## **Lab: Identifying cell populations - Track 1: Computational Group**

**6:00 PM - 7:00 PM GMT +0 / 1:00 PM - 2:00 PM** Your local time (1 Hour)

## **Transportation to dinner**

**7:00 PM - 8:30 PM GMT +0 / 2:00 PM - 3:30 PM** Your local time (1 Hour, 30 Min)

## **Dinner**

 The Gold Coast Restaurant & Cocktail Bar

**8:30 PM - 9:30 PM GMT +0 / 3:30 PM - 4:30 PM** Your local time (1 Hour)

## **Return shuttle to WACCBIP**

8:30 PM - 9:30 PM GMT +0 / 3:30 PM - 4:30 PM Your local time (1 Hour)

**Return shuttle to hotel**

### **Day 3 - 08 March 2023**

7:50 AM - 8:45 AM GMT +0 / 2:50 AM - 3:45 AM Your local time (55 Min)

**Depart Hotel and Travel**

9:00 AM - 9:50 PM GMT +0 / 4:00 AM - 4:50 PM Your local time (12 Hours, 50 Min)

**Welcome Day 2 and Summary/Lessons Learned from Day 1 - Track 1:  
Computational Cohort**

9:00 AM - 9:50 PM GMT +0 / 4:00 AM - 4:50 PM Your local time (12 Hours, 50 Min)

**Welcome Day 2 and Summary/Lessons Learned from Day 1 - Track 2:  
Experimental Design Group**

9:50 AM - 1:00 PM GMT +0 / 4:50 AM - 8:00 AM Your local time (3 Hours, 10 Min)

**Data integration and batch correction - Track 1: Computational Cohort**

9:50 AM - 1:00 PM GMT +0 / 4:50 AM - 8:00 AM Your local time (3 Hours, 10 Min)

**SS2 Reverse Transcription - Track 2: Experimental Design Group**

**1:00 PM - 2:30 PM GMT +0 / 8:00 AM - 9:30 AM Your local time (1 Hour, 30 Min)**

**Lunch (Track 1 & 2)**

**2:30 PM - 4:30 PM GMT +0 / 9:30 AM - 11:30 AM Your local time (2 Hours)**

**Lab: Data integration - Track 1: Computational Cohort**

**2:30 PM - 4:30 PM GMT +0 / 9:30 AM - 11:30 AM Your local time (2 Hours)**

**SS2 PCR Clean-up & QC - Track 2: Experimental Design Group**

**4:30 PM - 5:00 PM GMT +0 / 11:30 AM - 12:00 PM Your local time (30 Min)**

**Break (Track 1 & 2)**

**5:00 PM - 6:00 PM GMT +0 / 12:00 PM - 1:00 PM Your local time (1 Hour)**

**Biological interpretation of cell populations - Track 1: Computational Cohort**

**5:00 PM - 6:00 PM GMT +0 / 12:00 PM - 1:00 PM Your local time (1 Hour)**

**SS2 PCR Clean-up & QC - Track 2: Experimental Design Group**

6:00 PM - 7:00 PM GMT +0 / 1:00 PM - 2:00 PM Your local time (1 Hour)

**Transportation to dinner**

7:00 PM - 8:30 PM GMT +0 / 2:00 PM - 3:30 PM Your local time (1 Hour, 30 Min)

**Dinner**

 Treehouse Restaurant & Bar

8:30 PM - 9:30 PM GMT +0 / 3:30 PM - 4:30 PM Your local time (1 Hour)

**Return shuttle to WACCBIP**

8:30 PM - 9:30 PM GMT +0 / 3:30 PM - 4:30 PM Your local time (1 Hour)

**Return shuttle to hotel**

### **Day 3 - 09 March 2023**

7:50 AM - 8:45 AM GMT +0 / 2:50 AM - 3:45 AM Your local time (55 Min)

**Depart Hotel and Travel**

9:00 AM - 9:50 AM GMT +0 / 4:00 AM - 4:50 AM Your local time (50 Min)

## Welcome Day 3 and Summary/Lessons Learned from Day 2 - Track 1: Computational Cohort

9:00 AM - 9:50 AM GMT +0 / 4:00 AM - 4:50 AM Your local time (50 Min)

## Welcome Day 3 and Summary/Lessons Learned from Day 2 - Track 2: Experimental Design Group

9:50 AM - 11:00 AM GMT +0 / 4:50 AM - 6:00 AM Your local time (1 Hour, 10 Min)

## Immune repertoire scVDJ and CITE-Seq - Track 1: Computational Cohort

9:50 AM - 1:00 PM GMT +0 / 4:50 AM - 8:00 AM Your local time (3 Hours, 10 Min)

## Finishing up Experiments - Track 2: Experimental Design Group

11:00 AM - 12:30 PM GMT +0 / 6:00 AM - 7:30 AM Your local time (1 Hour, 30 Min)

## Lab: Immune repertoire - Track 1: Computational Cohort

12:30 PM - 1:00 PM GMT +0 / 7:30 AM - 8:00 AM Your local time (30 Min)

## Group project introduction - Track 1: Computational Cohort



**1:00 PM - 2:30 PM GMT +0 / 8:00 AM - 9:30 AM Your local time (1 Hour, 30 Min)**

**Lunch (Track 1 & 2)**

**2:30 PM - 4:30 PM GMT +0 / 9:30 AM - 11:30 AM Your local time (2 Hours)**

**Experimental Task Work Period - Track 2: Experimental Design Group**

**2:30 PM - 4:30 PM GMT +0 / 9:30 AM - 11:30 AM Your local time (2 Hours)**

**Group project work - Track 1: Computational Cohort**

**4:30 PM - 5:00 PM GMT +0 / 11:30 AM - 12:00 PM Your local time (30 Min)**

**Break (Track 1 & 2)**

**5:00 PM - 6:00 PM GMT +0 / 12:00 PM - 1:00 PM Your local time (1 Hour)**

**Track 1 & 2 Group Session**

**6:00 PM - 7:00 PM GMT +0 / 1:00 PM - 2:00 PM Your local time (1 Hour)**

**Transportation to dinner**

7:00 PM - 8:30 PM GMT +0 / 2:00 PM - 3:30 PM Your local time (1 Hour, 30 Min)

## Dinner

 Buka Restaurant

8:30 PM - 9:30 PM GMT +0 / 3:30 PM - 4:30 PM Your local time (1 Hour)

## Return shuttle to WACCBIP

8:30 PM - 9:30 PM GMT +0 / 3:30 PM - 4:30 PM Your local time (1 Hour)

## Return shuttle to hotel

### Day 5 - 10 March 2023

7:40 AM - 8:45 AM GMT +0 / 2:40 AM - 3:45 AM Your local time (1 Hour, 5 Min)

## Depart Hotel and Travel

9:00 AM - 9:50 AM GMT +0 / 4:00 AM - 4:50 AM Your local time (50 Min)

## Welcome Day 4 and Summary/Lessons Learned from Day 3 - Track 1: Computational Cohort Group

9:00 AM - 9:50 AM GMT +0 / 4:00 AM - 4:50 AM Your local time (50 Min)

## **Welcome Day 4 and Summary/Lessons Learned from Day 3 - Track 2: Experimental Design Group**

9:50 AM - 12:00 PM GMT +0 / 4:50 AM - 7:00 AM Your local time (2 Hours, 10 Min)

## **Group project work working Time - Track 1 & 2**

12:00 PM - 1:00 PM GMT +0 / 7:00 AM - 8:00 AM Your local time (1 Hour)

## **Project Presentations Track 1 & 2**

1:00 PM - 2:30 PM GMT +0 / 8:00 AM - 9:30 AM Your local time (1 Hour, 30 Min)

## **Lunch (Track 1 & 2)**

2:30 PM - 4:00 PM GMT +0 / 9:30 AM - 11:00 AM Your local time (1 Hour, 30 Min)

## **Project Presentations - Track 1 & 2**

4:00 PM - 4:30 PM GMT +0 / 11:00 AM - 11:30 AM Your local time (30 Min)

## **Break (Computational & Experimental Cohorts)**

**4:30 PM - 5:30 PM GMT +0 / 11:30 AM - 12:30 PM Your local time (1 Hour)**

## **Panel & Q&A - Track 1 & 2**

**5:30 PM - 6:00 PM GMT +0 / 12:30 PM - 1:00 PM Your local time (30 Min)**

## **Defining Next Steps & Round the Room Share - Track 1 & 2**

**6:00 PM - 7:00 PM GMT +0 / 1:00 PM - 2:00 PM Your local time (1 Hour)**

## **Transportation to dinner**

**7:00 PM - 9:00 PM GMT +0 / 2:00 PM - 4:00 PM Your local time (2 Hours)**

## **Dinner**

 +233 Jazz Bar And Grill

**9:00 PM - 10:00 PM GMT +0 / 4:00 PM - 5:00 PM Your local time (1 Hour)**

## **Return shuttle to WACCBIP**

**9:00 PM - 10:00 PM GMT +0 / 4:00 PM - 5:00 PM Your local time (1 Hour)**

## **Return shuttle to hotel**