

## **Biotechnology Advisory Committee Meeting**

**Wednesday, May 31, 2023**

**8:30am – 10:00am**

### **Industry Attendees:**

Joy Adiletta – AGC Biologics

Arthur Castleton – AGC Biologics

Ad Legesse – Seagen

Roshan Liyanage – Vaxcyte Inc. (Chair)

Mark Parrish – Natera

Sandra Porter – Digital World Biology

Susan Julien – Mozart Therapeutics

Don Sodora – Seattle Children's Research Institute

### **SCC Attendees:**

Guy Hamilton – Executive Dean, Workforce & STEM

Maribel Tirado – Shoreline Biotech & Biomanufacturing Navigator

Jan Chalupny – Biotech Outreach Manager/Biotech Adjunct Faculty

Orlando de Lange – Biology/Biotech & Biomanufacturing Faculty

Rachel Rawle – Biology/Biotech Faculty

Reitha Weeks – Shoreline Biotech Camp Program Coordinator

Kelly Griffin – Note Taker

### **Guest:**

Terri Bright-Hettinger – Shoreline Associate Faculty

Roshan welcomed everybody and facilitated discussion and approval of the 2/28/2023 minutes after two edits were discussed. Camp is \$450 (not \$475), and Mark Parrish now works for Natera. The order of the agenda was slightly modified to accommodate schedules and then introductions were made.

Sandra Porter gave a PowerPoint slide presentation of the 5-week BIOL 285 (Basics of Bioinformatics class) as related to the course review. Major themes of the student projects include databases, molecular structures, molecular sequences, and genetic variation. After the presentation, Orlando, who will be teaching the course going forward did paired Zoom rooms for about five minutes to gather input (a Google form) from non-instructional committee members.

Upon return to the main Zoom room, a few highlights were shared out:

- Not so much any specific software or program but basically having exposure to a variety of these programs and knowing that they exist. And then being able to learn how to use the specific ones in your lab.
- Knowing how to use analysis and come into the lab able to do simple statistics.

- Perhaps Python or larger data set analysis as an add-on to a certificate program.
- Have it taught the same time as the BIOL 270 class.
- Aware of where they can find different information.

On program updates, Guy prefaced Maribel's report on the new Fred Hutch program. We're recruiting students with Fred Hutch and Shoreline School District to start as interns this summer and then take Rachel's Biomanufacturing internship course next quarter and complete a one-year credential at Shoreline. Maribel said they recruited with Shoreline high schools and then opened it up to other high schools. Out of twelve applicants, eight were selected. This was based on the interview with Maribel and Mary Grace (the recruiter at Fred Hutch), and the mentors.

Rachel talked about the high school Biomanufacturing Program growing out of the Biopath Program started by AGC. High school students get dual credit for college and high school from multiple partners. It is almost full so two cohorts will be offered (one with the traditional application process and the other, Fred Hutch). Rachel's ask is for additional partners within industry to mentor the high school students within the program over the year. Please contact Rachel.

Guy talked about the new building adding additional space for programs (while keeping existing space), and the expansion of offerings as a result. Rachel said some class work will continue at AGC so the students can experience industry training space, practice gowning, etc.

Terri Bright-Hettinger gave an update on the 5-week pilot of BIOL 250 Technical Writing and Documentation class (2 credits) with BMS. Students were introduced to the role of GMP documentation; requirements of master instructions; SOPs; and batch records. Class was held at the site of BMS and employees had time set aside for participation. Terri said they were positive and found it useful for as a review. Guy followed up with saying it is not exclusive to BMS and offered to general folks and companies of the advisory committee. Feedback included gratitude for the course to help students develop technical writing before starting their career.

Guy shared out information from Maribel (who works with the recruiting of BMS and Seagen) about the 10-week program, Essentials of Biomanufacturing Certificate which has previously trained 43 students with 40 employed. Maribel currently has 14 applicants and her ask is for more industry partners to be involved so needed internships can be filled. Industry partners can determine how many weeks they would like to offer. For example, BMS offers a 12-week internship (part-time, Monday and Tuesday, shifts are 6:30am-4:30pm), and Seagen offers an 8-week (full-time, 40 hours a week) – both offering \$22.00 an hour.

Guy mentioned there are about 50 students coming in this fall to start programs.

Rachel had an ask to the group – there are about 3-4 students still in need of an internship in order to graduate.

Orlando announced the poster session (June 13, 3:00-4:00pm, room 2925) which includes BIOL 277 Immunology class and culmination of Lab Tech and AAAS students' project posters. Students are looking forward to opportunities to talk with others in industry. Guy said it is a nice event to meet the advisory committee - graduates come as well. Guy to send out the official invitation. Let Guy or Maribel know if you need a parking pass. Guy mentioned new students are welcome to attend – Maribel will pass the information along.

As Roshan wrapped up the meeting, Guy thanked everybody for their input and involvement this year. Rachel gave a big thank you to Joy and Arthur for the equipment donations that have been put to good use.

Meeting adjourned about 9:55am.