



University of Pittsburgh

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Department of Computational Biology

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BBSI @ PITT 2009

INFORMATION DOCUMENT

NIH-NSF Bioengineering and Bioinformatics Summer Institute (BBSI) Program University of Pittsburgh, 2009

These pages provide information for your stay in Pittsburgh during the BBSI @ Pitt 2009. This document is divided into three sections: *Section I* (p. 1-6) deals with Duquesne University (DU, <http://www.duq.edu>); *Section II* (p. 7-9) deals with the University of Pittsburgh (Pitt, <http://www.pitt.edu>); *Section III* (p. 10-13) describes BBSI activities (<http://www.cccb.pitt.edu/bbsi>). Please read this document in its entirety, and contact Maureen Hernandez if you have any questions (mhdez@pitt.edu, Tel: 412-648-8107).

Note: Clicking on a web address in this document will open that site in your browser window.

SECTION I: DUQUESNE UNIVERSITY

Housing

- Dorm* St. Martin Hall (marked 30 on map on p. 5)
- Check in* Any time on Sunday, May 24 or Monday, May 25
- Check out* Any time on Friday, July 31
- Type* Double occupancy, air-conditioned
- Arrival* To check-in to the dorm at Duquesne University, provide your name to the on-duty attendant and inform him/her that you are part of the Chemistry/BBSI program. Have a photo ID available for identification. If you requested on-campus parking (see p. 6), your hangtag permit may be given to you at this time.
- ID* All BBSI students staying in the dorms will be issued Duquesne University IDs (DU cards) that will grant you swipe-access into the dorms. You will also receive a key for entry into your rooms. You must return your key at the front desk of St. Martin hall at the end of the program when you check out. Failure to return your key will result in a \$75 fee charged to you for replacement of the lock. DU cards will be issued to all program participants on Tuesday, May 26 at 10 am at the DU Card Center (<http://www.duq.edu/aboutdu/DUcard/index.html>), located in room 210 in the Student Union (marked 12 on map on p. 5). The DU ID card can be used for purchasing meals,

and also for withdrawing cash from on-campus ATMs (see p. 6).

Orientation An orientation tour of DU will be given on Tuesday, May 26 when IDs are issued. Any questions regarding DU may be clarified at this time. (see p. 3)

<i>Amenities</i>	Rooms are provided with basic furniture: beds, dressers, and desks. There are no communal refrigerators, microwaves, or kitchen facilities, in the rooms or on the floors.
<i>Appliances</i>	Refrigerator-microwave combination units may be rented from DU at a cost of \$75/unit for the entire 10-week program. Kindly check with your assigned roommate if you wish to share a unit. It is advisable to reserve these units in advance, in which case the unit will probably be placed in your room prior to check in. Units requested after arrival are distributed based on availability. Fees for rentals will be collected during orientation. Please have a check available for the appropriate amount, payable to <i>Duquesne University</i> (indicate <i>BBSI 2009</i> on check). Appliance unit requests should be sent to Ms. Sandy Russell (russell@duq.edu ; Tel: 412-396-4912).
<i>Linens</i>	A pillow and a light blanket are provided. <u>Please bring your own sheets, pillow cases, towels, and, if you think you might need one, a warmer blanket.</u>
<i>Laundry</i>	Laundry facilities are available at no charge. Please bring your own laundry detergent.
<i>Internet</i>	Internet access is available in all rooms. Before access is made available, students must complete and sign the Duquesne University Campus Network Policy form, posted at http://www.cccb.pitt.edu/BBSI/duquesne_network_form.pdf . Additionally, students will have access to the computers/internet in the common room on each dorm floor, and in the library and computer labs.
<i>Gym</i>	Access to the fitness facilities at DU is available for the duration of the program. Facilities include the gym at the Power Center, which is available during the posted summer hours. The fee for use of the gym is \$50. Outside courts and fields are available when other camps or athletic practices are not using the area. If you wish to use these facilities, please inform Ms. Sandy Russell (russell@duq.edu) prior to your arrival. Users are required to sign a <i>Release and Hold Harmless Agreement</i> which can be completed during orientation on May 26. Payment checks for the appropriate amount, payable to <i>Duquesne University</i> (indicate <i>BBSI 2009</i> on check), will be collected at this time.
<i>Cable TV</i>	There is a TV in the lounge area of each dorm. Cable TV should be available in individual rooms for those who wish to bring their personal TV sets. Students should bring their own coaxial cable to connect their television to the cable jack in the wall.
<i>Telephone</i>	Although each room is equipped with a telephone jack, it is anticipated that students will be using their own cell phones. If not, students should bring their own telephones for use. See complete details of usage and charges in the Residence Life Guidebook at http://www.residencelife.duq.edu/policies.html#telephones .
<i>Mail</i>	Mail should be addressed to you as follows: <div style="margin-left: 40px;"> Student's Name SMC # 3500 Duquesne University 1345 Vickroy Street Pittsburgh, PA 15219-2115 </div> Mail can be picked up in Duquesne University Towers (marked 11 on map on p.5) 2 nd Floor Mail Center between 10-3pm Monday-Friday.
<i>Directions</i>	(i) Driving: Detailed driving directions to DU can be found at http://www.duq.edu/frontpages/main/campusMap.html . The street address of Duquesne University is 600 Forbes Avenue, Pittsburgh, PA 15282.

- (ii) From the airport: Pittsburgh International Airport is ~20 miles from DU. You can take a cab to DU (fare ~\$40). Alternatively, you can use the bus service operated by the Port Authority of Allegheny County (PAT; <http://www.portauthority.org/paac/>). To get to DU, take bus number 28X (Airport Flyer) which leaves from the lower level of the airport. The fare for this trip is \$2.60 and exact change is required. The 28X is designed for airline travelers, and has luggage racks for baggage. Buses usually leave every 20-30 minutes (see <http://www.portauthority.org/PAAC/apps/pdfs/28X.pdf>), and should take ~45 minutes to reach DU. Get off at the Duquesne University footbridge on the Boulevard of the Allies – ask the driver to inform you where to get off. Once you get off the bus, walk across the footbridge into DU campus (see map on p. 5).
- (iii) From the train and bus stations: The best way to get to DU from either of these places is to take a cab. Both stations are <5 miles from DU.

DU Residence Guidebook

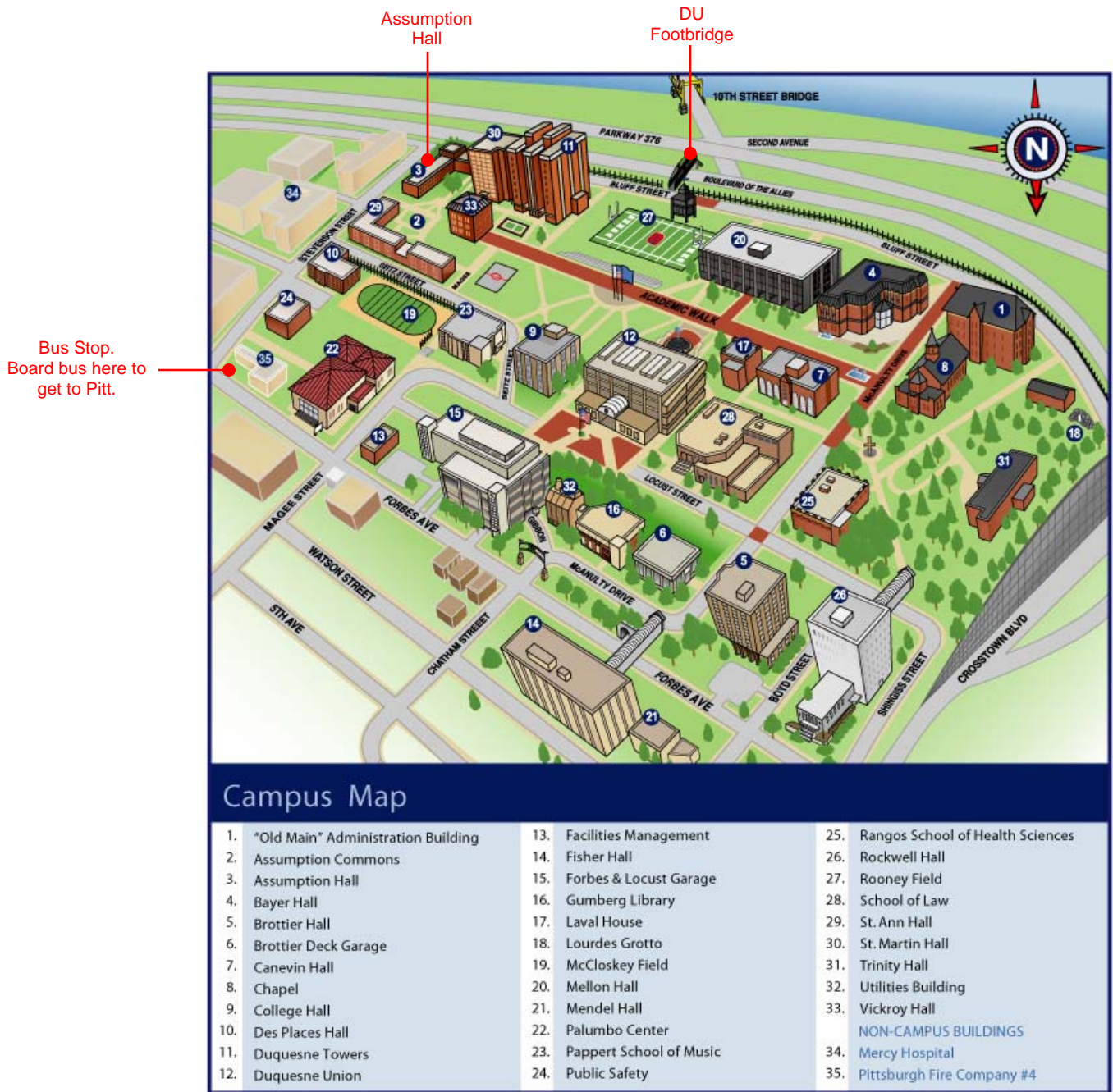
Please take a few minutes to read the DU Residence Life Guidebook at <http://www.residencelife.duq.edu/handbook.html>. In particular, read Section I which outlines Policies and Procedures (<http://www.residencelife.duq.edu/policies.html>), and covers useful information that is not included here. If you have questions about housing and/or DU, please contact Ms. Sandy Russell (russell@duq.edu; Tel: 412-396-4912). Ms. Russell will meet the students at the DU Card Center in the Student Union, on May 26 at 10 am and will also collect check payments for parking permits (if requested in advance), appliance rentals, and use of gym facilities at that time. PLEASE PLAN TO MEET AT 10:00AM IN THE LOBBY OF THE STUDENT UNION, JUST OUTSIDE OF STARBUCK'S COFFEE. PAYMENT FOR PARKING, MICRO-REFRIG COMBOS, AND GYM FACILITIES WILL BE COLLECTED AT THAT TIME. PLEASE BRING A CHECK OR CASH ONLY – CREDIT CARD PAYMENTS WILL NOT BE ACCEPTED. CHECKS ARE TO BE PAYABLE TO "DUQUESNE UNIVERSITY."

Parking at DU

If you plan to bring your car to Pittsburgh, and wish to park on DU campus during your stay here, you will need to purchase a DU parking permit. The cost of this permit from May 26–July 31 is \$375.00 per vehicle. The issued permit is valid for parking in Forbes garage only (marked 15 on map on p. 5), and does not include street parking on DU campus. You will be provided with a hang tag which you will use to enter and exit the Forbes Avenue Garage.

To pre-register your vehicle for a DU parking permit, provide Ms. Sandy Russell (russell@duq.edu) with the following information no later than May 13,2009. Note that you have to register the exact vehicle for which you are requesting the permit.

- (i) Student's name
- (ii) Make of vehicle
- (iii) Color of vehicle
- (iv) Year of vehicle
- (v) Vehicle license plate number
- (vi) State in which the vehicle is registered



If you had notified us in advance of your intent to park on Duquesne University's campus for the duration of the summer, you may receive your parking hangtag permit at the time of check-in into the dorms. However, the DU parking office will need to see the vehicle registration card and a photo ID. Payments can be made by cash or check only (payable to *Duquesne University*; indicate *BBSI 2009* on check). Checks for parking fees will be collected during orientation on May 26.

Parking at DU: May 25

The Parking offices at DU will be closed on Sunday and Monday, May 24-25, 2009. If you will be arriving on Sunday, May 24 or Monday, May 25, you may park in Forbes garage by paying the daily weekend parking rate until you pick up your permit. When you pick up your permit on Tuesday, inform the Parking office that you are parked in Forbes garage.

Note that there are two types of meters on DU campus: 1-hour limit meters and 3-hour limit meters. The 3-hour limit meters are reserved for meter permit holders only – your summer parking permit is not valid in these areas. University meters are enforced Monday through Saturday, 6 am-9 pm. Please see complete details at <http://www.duq.edu/administration/parking>. You are responsible for payment of any and all parking tickets that you may receive.

Banking

DU has a PNC Bank branch on campus. BBSI students with DU cards can link a new or existing PNC account to their DU card, thereby allowing them to use their DU card at ATM and point-of-sale locations worldwide. For more details, see <http://www.duq.edu/aboutdu/DUcard/pncbank.html>. Accounts can be created on May 26 at orientation.

Adding funds to DU card - *Virtual Cash*

Funds can be added to your DU card for use at the dining facilities and for other small purchases on campus, including vending and copy machines. This feature of the DU card – *virtual cash* – can be activated/recharged at five cash value centers on campus, up to a maximum of \$50. Funds are non-transferable and non-refundable; hence, all funds added to the card will have to be used before the end of the program. For details, go to <http://www.duq.edu/aboutdu/DUcard/features.html>.

Meals

Meals can be purchased with cash or with your DU Card (if you have funds on it, as described above). DU will have dining locations open for the summer. Complete details, including dates and hours of operation of dining locations, will be available during orientation on May 26.

DU Campus Map

The campus map is available at <http://www.duq.edu/frontpages/main/campusMap.html>.

DU Campus Police

Emergency: dial 2677 from campus phones (412-396-2677 from outside phones)

Non-emergency: 412-396-6002

Website: <http://www.duq.edu/administration/publicsafety>

SECTION II: UNIVERSITY OF PITTSBURGH

Organizational Meeting

A luncheon (12:30 pm) and an organizational meeting (2:00 pm) will be held on Tuesday, May 26 in room 3073 of Biomedical Science Tower 3 (BST-3) at the University of Pittsburgh (see map below). Please attend these events, as they will allow you to meet the core faculty and your research mentor. Additionally, the program will be overviewed, and important changes may be announced.

It is highly recommended that you use public transportation in Pittsburgh, especially when commuting between DU and Pitt campuses. Port Authority of Allegheny County (PAT) operates a bus system with frequent, efficient, and convenient service between the two university campuses (see *Transportation* on the next page).

To get to BST-3 from DU, board bus 71A, 71C, 71D or 500 from Forbes Avenue at Stevenson Street (next to building marked 35 on map on p. 5). Bus passes will be given to you at the Duquesne Orientation on Tuesday morning, May 26 before you travel to the University of Pittsburgh. Ask the driver to let you off at Fifth Avenue at McKee Place (see map below; pull the yellow/grey cord on the bus to request a stop). The entrance to BST-3 is diagonally across the street from this bus stop. Be cautious when crossing Fifth Avenue: there are 4 lanes of vehicular traffic moving in the *opposite* direction of the single-lane busway.

Access to the BST-3 is restricted. Hence, department personnel will meet you at 12:15 pm in the lobby of the building, and escort you through security (please do not be late in arriving). A BST-3 ID will be given to you later that afternoon, thereby permitting unrestricted entry into the building.



IDs

In addition to the DU ID, all BBSI students will receive one University of Pittsburgh ID.

BST-3 ID This ID will allow you to enter BST-3 from the entrances on the main (ground) floor and from the sixth floor (from Victoria Building). This ID will also permit entry into the office suite of the Department of Computational Biology (DCB) located on the 3rd floor. Please carry this ID at *all* times when in the building. Note that this ID card will be programmed to allow you access to the Computational Biology departmental office suite on the third floor, and also to the floor on which your research mentor's lab is located (if different from the third floor). BST-3 IDs will be given to all students at the organizational meeting on the afternoon of May 26.

Libraries

The University of Pittsburgh has two library systems: (i) the University Library System (<http://www.library.pitt.edu>), and the Health Sciences Library System (<http://www.hsls.pitt.edu>). A listing of the libraries within these two systems is available at <http://www.library.pitt.edu/libraries>; operating hours for the summer semester are listed at <http://www.library.pitt.edu/libraries/hours/all.html>.

Transportation

PAT Each BBSI student will be provided a Zone 1 PAT bus pass for the duration of the program. This will allow you to freely commute between Pitt and DU on any PAT-operated bus. Passes will be given to you during the Duquesne Orientation on May 26. For PAT bus routes, schedules, and zones, see <http://www.portauthority.org/paac/>. Please do not lose your bus pass; these cannot be replaced.

Pitt Computer Accounts

Each of you will be given a Pitt computer account (e.g. *userID@pitt.edu*). This account provides 10 MB of server space for e-mail, and will allow you to use several computer labs on campus (http://technology.pitt.edu/HtmlSourceFiles/middleContent/Students/labs/Labs_SummerHours_2008.pdf). A group e-mail list will be created to inform you of program changes, announcements, and special events of interest. Inform me of your preferred e-mail address after you arrive.

Paychecks

You will receive your stipend in two paychecks on the last working day of June, and July, i.e. Tuesday, June 30; and Friday, July 31. Your paycheck for the last four working days in May will be added into your first paycheck at the end of June. Paychecks can be picked up after 2 pm on these dates from Nancy Linderman, Personnel Administrator in the Department of Computational Biology, 3056 BST-3; nmg5@ccbb.pitt.edu, Tel: 412-648-8690. The second paycheck will be available on July 31 in Nancy Linderman's office for pickup. You will turn in your BST-3 ID at this time. Due to the short duration of the program, direct deposit is not available.

General Information

The University of Pittsburgh maintains a comprehensive website, <http://www.pitt.edu/pittsburgh/index.html>, with general information on Pittsburgh, and a listing of some

local attractions that might be of interest. While some of the information on the webpage does not apply to BBSI students (such as housing at Pitt), the links on this page may be a useful guide during your initial weeks in the city.

Pitt Campus Map

The University of Pittsburgh Campus map (<http://www.umc.pitt.edu/tour/tour-firstmap.html>) contains an alphabetical and clickable listing of all Pitt campus buildings. A printable version of the campus map is available at <http://www.umc.pitt.edu/tour/images/bigmaps/campusmap2002.gif>.

Pitt Campus Police

Emergency: dial *811* or *4-2121* from campus (412-624-2121 from outside phones)

Non-emergency: 412-624-2121

Website: <http://www.police.pitt.edu/>

SECTION III: BBSI ACTIVITIES

There are six official curricular activities planned for the BBSI @ Pitt 2009: Coursework and Computer Laboratory Sessions (ii) Research (iii) Seminars (iv) Journal Club (v) Ethics Forum (vi) Research Presentations. Please see <http://www.cccb.pitt.edu/BBSI/BBSICalendar.htm> for a listing.

1. Coursework and Computer Laboratory Sessions

1.1. Coursework

Classes are scheduled from Wednesday, May 27 to Friday, June 19. During this time, two sessions of lectures will be held daily: Session I from 9–10.30 am, and Session II from 10.45 am–12.15 pm. All classes will be held in 3073 BST-3. At the start of each class, you will be given printouts of the lecture material (also available on the website). There are no exams scheduled during this program. The complete sequence of lectures is available at <http://www.cccb.pitt.edu/BBSI/BBSIClasses.htm>.

1.2. Computer Laboratory Sessions

Twelve computer lab sessions, including a computing primer covering the basics of UNIX, have been scheduled to introduce you to the software applications relating to the topics covered in class. Computer lab sessions are scheduled periodically from Wednesday, May 27 to Friday, June 19, and will be held from 1.30–4.30 pm on the dates indicated on the schedule (for locations, see schedule). Sessions will be taught by the instructor teaching the corresponding class, with the help of teaching assistants familiar with the software being demonstrated.

2. Research

The research component will be carried out over the entire 10 weeks of the program. Students will meet with their research mentors when not involved in educational activities to discuss potential projects, and possibly start their research. All students are required to submit a 4-page written proposal of their research by June 19. Students are encouraged to follow the format of past participants' written proposals (available at <http://www.cccb.pitt.edu/BBSI/2007/participants.htm>). Following the coursework component of the program, you are expected to be in the lab for 8 hours/day during each working day of the week. Additional research time is always encouraged, and can be discussed with your mentor.

3. Seminars

Weekly seminars organized for this program are scheduled every Tuesday (with some exceptions) from 4–5 pm in 3073 BST-3. Seminars are of three types: (i) research, (ii) career, and (iii) an ethics forum (see next page).

4. Journal Club

Each student will present one research article during Journal Club. The article will be selected by your research mentor after discussion of your research interest and background. Journal club presentations will be held on Thursdays between June 1 and July 24 from 4–5 pm in 3073 BST-3. Two or three presentations of ~20 minutes (including a brief discussion) will be held on each day.

Students have been grouped as shown below. Members of each group will assist the scheduled presenter from their group with his/her presentation for that week. Each student will present only the paper assigned to him/her; however, the group may help the presenter in answering questions during the discussion of the presentation. The objective of this is twofold: (i) it provides a foundation for team-based activities, and (ii) it allows students from different academic backgrounds to complement each other's knowledge and experience in a certain area. Group assignments have been made based on students' academic backgrounds, and the labs in which they will be doing their research.

Group	Student Name	Academic Year	Major/Minor
I	Eunice Yi	2nd Year Graduate School	Biomedical Engineering
	Victor Rusu	Senior	Honors Math, Biology
	Naved Siddiqui	Junior	Bio Tech
	Yagmur Muftuoglu	Junior	Biophysics & Chemistry
II	Chad Miller	2nd Year Graduate School	Chemistry
	Minjal Pancholi	Senior	Biology
	Lorane Psalmond	Junior	Math & Neuroscience
	Lauren Anderson	Senior	Bioengineering
III	Laura Gump	Junior	Biomedical Engineering
	Theresa Downey	Senior	Biochemistry
	Damilola Adepegba	Senior	Biology
	Geet Garg	Junior	Bio Tech
IV	Kathryn Myer	Senior	Biochemistry
	Amy Scarbrough	Junior	Ecology & Evolution/Chemistry
	Devashsih Ghosh	Junior	Math & CS
V	Hannah Watkins	Junior	Biomedical Engineering
	Yao Sun	1 st Year Fellow	Computer Science
	Logan Woodall	Senior	Biology

5. Ethics Forum

An annual Ethics Forum is held in Pittsburgh for all summer research students at DU and Pitt. Ethical issues are an important aspect of research, and the forum deals with real-life situations that you might encounter in your (scientific) career. The forum is a team-based activity: groups select an ethical issue, meet with an assigned mentor to discuss the issue, and then present their case at the forum. The Ethics Forum will be held on Friday, June 26 from 8:30 am–1:30 pm at the Pitt Alumni Association at Pitt. Following group presentations, all participants will attend the plenary session/luncheon. Group assignments are:

Group	I	II	III
Mentor	Gabriela Mustata	Jason DeChancie	Indira Shrivastava
	Chad Miller	Minjal Pancholi	Damilola Adepegba
	Laura Gump	Kathryn Myer	Theresa Downey
	Victor Rusu	Lauren Anderson	Yagmur Muftuoglu
	Lorane Psalmond	Amy Scarbrough	Logan Woodall
	Hannah Watkins	Naved Siddiqui	Geet Garg
	Devashish Ghosh	Eunice Yi	Yao Sun

6. Research Presentations

Students will give oral presentations of their summer research during the final week of the program. These presentations will be held in 3073 BST-3 from 1–5 pm on Tuesday, July 28; Wednesday, July, 29; and Thursday, July 30. Each research presentation will be ~20 minutes long (6-7 presentations/day). In addition, DU will hold its annual all-day Summer Research Symposium on Friday, July 31. All BBSI students will attend this symposium and present their research at the poster sessions scheduled for that afternoon. At least one BBSI participant will be selected to present his/her research during the oral presentation sessions of the Symposium.

Social Events

In addition to the curricular activities, several BBSI social events have also been planned. Because this program is a collaboration, BBSI students can participate in social events organized at Pitt and DU. These include baseball games, a picnic, and a trip to Kennywood. You will be informed of these (and other) activities via e-mail once their dates have been finalized.

- (i) DCB Picnic: BBSI students are invited (and encouraged) to attend the *Annual Department of Computational Biology Picnic* on June 16. There is no charge to attend.
- (ii) Baseball Games: The Office of Experiential Learning will organize a trip to a baseball game at PNC Park. An earlier trip will also be organized by the BBSI program.
- (iii) DU organizes a trip to Kennywood for all summer program participants. BBSI students are invited to join the group.

Questions?

We want to make your arrival and stay in Pittsburgh as safe, enjoyable, and productive as possible. Do not hesitate to contact me if you face any problems. My office and fax numbers are listed below.

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