BBSI @ Pitt 2006

INFORMATION DOCUMENT

NIH-NSF Bioengineering and Bioinformatics Summer Institute (BBSI) Program

University of Pittsburgh, 2006

These pages provide information for your stay in Pittsburgh during the BBSI @ Pitt 2006. This document is divided into three sections: Section I (p. 1-5) deals with Duquesne University (DU, http://www.duq.edu); Section II (p. 6-8) deals with the University of Pittsburgh (Pitt, http://www.pitt.edu); Section III (p. 9-11) describes BBSI activities (http://www.ccbp.pitt.edu/bbsi). Please read this document in its entirety, and contact me if you have any questions (Rajan Munshi, rajan@pitt.edu, Tel: 412-648-7799).

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. 4)

**Check in**

Saturday, May 20 or Sunday, May 21

**Check out**

Saturday, July 29

**Type**

Double occupancy, air-conditioned

**Arrival**

To check-in to the dorm at DU, 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. 3), your hangtag permit may be given to you at this time.

**ID**

All BBSI students staying in the dorms will be issued DU IDs (DU cards) that will grant you swipe-access into the dorms. You will also receive a key for entry into your rooms. DU cards will be issued to all program participants on Monday, May 22 at 2 pm at the DU Card Center (http://www.duq.edu/aboutdu/DUcard/index.html), located in room 203 in the Student Union (marked 12 on map on p. 4). The DU card can be used for purchasing meals, and also for withdrawing cash from on-campus ATMs (see p. 5).

**Orientation**

An orientation tour of DU will be given on Monday, May 22 after IDs are issued. Any questions regarding DU may be clarified at this time.
**Amenities**

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.

**Appliances**

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 *Duquesne University* (indicate *BBSI 2006* on check). Appliance unit requests should be sent to Ms. Sandy Russell (russell@duq.edu; Tel: 412-396-4912).

**Linens**

A pillow and a light blanket are provided. Please bring your own sheets, pillow cases, towels, and, if you think you might need one, a warmer blanket.

**Laundry**

Laundry facilities are available at no charge. Please bring your own laundry detergent.

**Internet**

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.ccb.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.

**Gym**

Access to the fitness facilities at DU is available for $25/month or a one-time fee of $50 for the duration of the program. Facilities include the gym at the AJ Palumbo Center, which is available to students except during athletic practices, summer camps or event setups. There are two workout areas within the AJ Palumbo Center; the upper-level workout area is designated for *Duquesne University Athletics* only. Summer students may use the workout area located in the back gym, which includes weights and cardiovascular equipment. 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 *Release and Hold Harmless Agreement* which can be completed during orientation on May 22. Payment checks for the appropriate amount, payable to *Duquesne University* (indicate *BBSI 2006* on check), will be collected at this time. All BBSI students also have access to two fitness facilities at Pitt (see p. 7).

**Cable TV**

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.

**Telephone**

Each room is equipped with a telephone jack. 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.

**Mail**

Mail should be addressed to you as follows:

- Student’s Name
- c/o Sandy Russell
- Department of Chemistry & Biochemistry
- Room 308, Mellon Hall
- Duquesne University
- 600 Forbes Avenue
- Pittsburgh, PA 15282
Directions

(i) Driving: Detailed driving directions to DU can be found at http://www.duq.edu/frontpages/main/campusMap.html. The street address of DU 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 ~$35). Alternatively, you can use the bus service operated by the Port Authority of Allegheny County (PAT; http://www.ridegold.com). 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 $2.25 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.ridegold.com/ride/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 to St. Martin Hall (see map on p. 4).

(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 22 at 2 pm and will also collect check payments for parking permits (if requested in advance) and appliance rentals at that time.

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 22–July 28 is $312.50 per vehicle. The issued permit is valid for parking in Forbes garage only (marked 15 on map on p. 4), and does not include street parking on DU campus. Note: During the summer, there will be a time period when Forbes Garage will be closed. During this time, permit holders will be directed to Locust Garage.

To pre-register your vehicle for a DU parking permit, provide Ms. Sandy Russell (russell@duq.edu) with the following information. 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
(vii) Address and phone number
If you had notified us in advance of your intent to park on 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, check (payable to Duquesne University; indicate BBSI 2006 on check), MasterCard, or Visa. Checks for parking fees will be collected during orientation on May 22.

Parking at DU: May 20 and May 21
Parking offices at DU are closed on weekends. If you will be arriving on Saturday, May 20 or Sunday, May 21, you have two options: (i) Park in Forbes garage by paying the daily weekend parking rate until you pick up your permit. (ii) Since there is no permit enforcement on DU campus after 4 pm on Saturday and all day Sunday, you can street-park in any legal area during this time at no charge (see campus parking
map at http://www.duq.edu/frontpages/main/pdf/ParkingMap.pdf; do not park in Handicapped and Reserved zones). Move your vehicle into Forbes garage on Sunday night. When you pick up your permit on Monday, inform the Parking office that you are parked in Forbes garage (you probably will not have to pay for parking for Monday).

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.

**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 22 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 22.

**DU Campus Map**

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

**DU Campus Police**

Emergency: dial 4747 from campus phones (412-396-4747 from outside phones)
Non-emergency: 412-396-6002
Website: http://www.duq.edu/administration/publicsafety
Organizational Meeting
An organizational (breakfast) meeting will be held at 10 am on Monday, May 22 in room 3073 of Biomedical Science Tower 3 (BST-3) at the University of Pittsburgh (see map below). Please attend this meeting, as it 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. 4). Exact change is required ($1.75). 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 9.45 am 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 morning, thereby permitting unrestricted entry into the building.
**IDs**
In addition to the DU ID, all BBSI students will receive two University of Pittsburgh IDs.

**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 and will also permit entry into the office suite of the Department of Computational Biology (CB) 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 morning of May 22.

**Trainee Pitt ID**
This ID will permit use of Pitt libraries, designated fitness facilities, and campus shuttle services. IDs will be issued to the entire group on Wednesday, May 24 after 4 pm, at Panther Central located in the main lobby of Litchfield Towers.

**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.

**Fitness Facilities**
Your Trainee Pitt ID permits use of the following two fitness facilities at Pitt at no cost to you.

- **Trees Hall**
  Includes weight room, basketball courts, racquetball courts, volleyball courts, and swimming pool (http://www.umc.pitt.edu/tour/tour-191-map.html).

- **Bellefield Hall**
  Includes weight room, powerlifting room, basketball court, and swimming pool (http://www.umc.pitt.edu/tour/tour-220-map.html).

Summer semester hours are available at http://www.education.pitt.edu/intramurals/facilities-hours.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 organizational meeting on the morning of May 22. For PAT bus routes, schedules, and zones, see http://www.ridegold.com. Please do not lose your bus pass; these cannot be replaced.

- **Shuttles**
  The Pitt campus shuttle service operates several routes within and around Pitt campus, including one to a popular mall and shopping center. You can use these services by presenting your Trainee Pitt ID. Shuttle routes and schedules can be obtained at Pitt’s Parking and Transportation website at http://www.pc.pitt.edu/transportation/index.html.

**Pitt Computer Accounts**
Each of you has been 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://www.technology.pitt.edu/students/labhours.html). 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 three equal paychecks on the last working day of May, June, and July i.e. Wednesday, May 31; Friday, June 30; and Monday, July 31. Paychecks can be picked up after 2 pm on these dates from Ms. Nancy Gehenio, Personnel Administrator in the Department of Computational Biology, 3056 BST-3; nmg5@ccbb.pitt.edu, Tel: 412-648-8690. Since the third paycheck will not be available until after your departure from Pittsburgh, they will be mailed to you (to a specified address) as soon as it is available. Due to the short duration of the program, direct deposit is not available.

**General Information**
The University of Pittsburgh maintains a comprehensive website for summer research students (http://www.pitt.edu/~urop/reu/index.htm), 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. The website also has a link to a calendar that lists events related to all summer programs at Pitt (click OEL Calendar on left banner). All BBSI students are welcome (and encouraged) to attend these events. In addition, BBSI students can also participate at DU-organized events. You will be informed of these events by e-mail.

**Pitt Campus Map**

**Pitt Campus Police**
Emergency: dial 4-2121 from campus (412-624-2121 from outside phones)
Non-emergency: 412-624-2121
Website: http://www.pitt.edu/~police
There are six official curricular activities planned for the BBSI @ Pitt 2006: Coursework and Computer Laboratory Sessions (ii) Research (iii) Seminars (iv) Journal Club (v) Ethics Forum (vi) Research Presentations. Please see http://www.ccbb.pitt.edu/BBSI/BBSICalendar.htm for a listing.

1. Coursework and Computer Laboratory Sessions

1.1. Coursework

Classes are scheduled from Tuesday, May 23 to Thursday, June 15. 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.ccbb.pitt.edu/BBSI/BBSIClasses.htm.

1.2. Computer Laboratory Sessions

Eleven 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 24 to Thursday, June 15, and will be held from 1.30–4.30 pm in 3073 BST-3 on the dates indicated on the schedule (note exceptions *). Sessions will be taught by the instructor teaching the corresponding class, with the help of teaching assistants familiar with the software being demonstrated.

*Exceptions: June 2 and 12, held at the Computer Training Center, Pittsburgh Supercomputing Center, 300 South Craig, 1.30 – 4.30 pm.

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 16. Students are encouraged to follow the format of past participants’ written proposals (available at http://www.ccbb.pitt.edu/BBSI/2005/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 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 13 from 4–5 pm in 3073 BST-3. Two presentations of ~30 minutes (including a brief discussion) will be held on each day.

Students have been grouped as shown on the next page. 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.

<table>
<thead>
<tr>
<th>Group</th>
<th>Student Name</th>
<th>Academic Year</th>
<th>Major</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Angelo Kontgas</td>
<td>Senior</td>
<td>Biochemistry</td>
</tr>
<tr>
<td></td>
<td>Ji Lee</td>
<td>Junior</td>
<td>Bioengineering</td>
</tr>
<tr>
<td>II</td>
<td>Christopher Hackmeyer</td>
<td>Junior</td>
<td>Biochemistry</td>
</tr>
<tr>
<td></td>
<td>Megan Jeans</td>
<td>Senior</td>
<td>Bioengineering</td>
</tr>
<tr>
<td></td>
<td>Zofia Koscielniak</td>
<td>Junior</td>
<td>Mathematical Sciences</td>
</tr>
<tr>
<td>III</td>
<td>Stephanie Lucas</td>
<td>Junior</td>
<td>Biology</td>
</tr>
<tr>
<td></td>
<td>Marie Wilkening</td>
<td>Senior</td>
<td>Bioinformatics</td>
</tr>
<tr>
<td></td>
<td>Chi Zheng</td>
<td>1st-year medical school</td>
<td>Chemical Engineering</td>
</tr>
<tr>
<td>IV</td>
<td>Abderrahmane Benghanem</td>
<td>Junior</td>
<td>Biomedical Engineering</td>
</tr>
<tr>
<td></td>
<td>Nicole Kennerly</td>
<td>1st-year graduate school</td>
<td>Biochemistry &amp; Cell Biology</td>
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<tr>
<td></td>
<td>Jieming Shen</td>
<td>Senior</td>
<td>Chemistry</td>
</tr>
<tr>
<td>V</td>
<td>Ryan Cheng</td>
<td>Senior</td>
<td>Chemistry</td>
</tr>
<tr>
<td></td>
<td>Amanda McCoy</td>
<td>Junior</td>
<td>Chemistry &amp; Physics</td>
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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 23 from 9 am–2 pm at the William Pitt Union at Pitt. Following group
presentations, all participants will attend the plenary session/luncheon. Group assignments are:

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<tr>
<th>Group</th>
<th>I</th>
<th>II</th>
<th>III</th>
</tr>
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<tbody>
<tr>
<td>Mentor</td>
<td>Rajan Munshi</td>
<td>Edward Lyman</td>
<td>Judy Wieber</td>
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<tr>
<td></td>
<td>Nicole Kennerly</td>
<td>Abderrahmane Benghanem</td>
<td>Ryan Cheng</td>
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<td>Angelo Kontgas</td>
<td>Christopher Hackmeyer</td>
<td>Stephanie Lucas</td>
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<td></td>
<td>Ji Lee</td>
<td>Megan Jeans</td>
<td>Amanda McCoy</td>
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<td></td>
<td>Jieming Shen</td>
<td>Zofia Koscielniak</td>
<td>Marie Wilkening</td>
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<td></td>
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<td></td>
<td>Chi Zheng</td>
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</tbody>
</table>
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 25; Wednesday, July, 26; and Thursday, July 27. Each research presentation will be ~30 minutes long (4-5 presentations/day). In addition, DU will hold its annual all-day Summer Research Symposium on Friday, July 28. 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, picnics, and a trip to Kennywood. You will be informed of these (and other) activities via e-mail once their dates have been finalized.

(i) Picnics: The Office of Experiential Learning at the University of Pittsburgh will host a Summer Undergraduate Research Program Welcoming Picnic on Wednesday, May 31, from 5 pm onward on the lawn of the William Pitt Union on Pitt campus. BBSI students are also invited (and encouraged) to attend the Annual DCB Picnic (TBD). There is no charge to attend either picnic.

(ii) Baseball Games: The Office of Experiential Learning will organize a trip to a baseball game at PNC Park on Friday, July 28 (Pittsburgh Pirates vs. San Francisco Giants, 7.05 pm). Although this is the last day of the BBSI program, you still may wish to attend. Most likely, 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 reaching DU, checking into your dorm rooms, or finding your way around Pittsburgh. My home, mobile, and office phone numbers are listed below.

Rajan Munshi
Coordinator, BBSI
Department of Computational Biology
University of Pittsburgh School of Medicine
3053 Biomedical Science Tower 3
3501 Fifth Avenue
Pittsburgh, PA 15213
Tel: 412-648-7799 (office)
    412-521-7596 (home)
    412-215-3404 (mobile)
Fax: 412-648-3163
E-mail: rajan@pitt.edu