

BIOMOD

Quick Guide

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BIOMOD 2015 Schedule

Friday, October 30, 2015

16:00-20:00 Registration at Northwest Building, lower level, 52 Oxford Street, Cambridge, MA 02138 (snacks provided).
Optional Practice Session Space: available in Northwest Building, lower level classrooms. Availability is on a first-come, first-serve basis. There will be eight practice rooms available.

Saturday, October 31, 2015

| Time | Description |
|--------------------|---|
| 07:00-08:00 | Make your way to Northwest Building. Breakfast will be available to all registered teams. |
| 08:00-08:15 | Opening Remarks |
| 08:15-08:30 | Berlin15 |
| 08:30-08:45 | Bioluminati |
| 08:45-09:00 | BIOMOD Hokkaido Univ. |
| 09:00-09:15 | Delta-Sci |
| 09:15-09:30 | HUST-China |
| 09:30-09:45 | ImaGene |
| 09:45-10:00 | Jilin_China |
| 10:00-10:30 | Coffee Break |
| 10:30-10:45 | Mount Tai |
| 10:45-11:00 | NanocANDy |
| 11:00-11:15 | NanoCrafters |
| 11:15-11:30 | NZymes"R"Us |
| 11:30-11:45 | Ochadai |
| 11:45-12:00 | OhioMOD |
| 12:00-12:15 | Group Photo |
| 12:15-13:30 | Lunch |
| 13:30-13:45 | PK Nanonauts |
| 13:45-14:00 | Protomato |
| 14:00-14:15 | SCUT-CHEM |
| 14:15-14:30 | Team Injectimod |
| 14:30-14:45 | Team Kansai |
| 14:45-15:00 | Team NTU |
| 15:00-15:30 | Coffee Break |
| 15:30-15:45 | Team Season |
| 15:45-16:00 | Team Sendai |
| 16:00-16:15 | Team Tsukuba |
| 16:15-16:30 | Team UofC |
| 16:30-16:45 | The NanoLions |
| 16:45-17:00 | Tianjin |
| 17:00-17:15 | Toehold Conga Nanny |

Sunday, November 1, 2015

| Time | Description |
|-------------|---|
| 07:00-08:00 | Make your way to Northwest Building. Breakfast will be available to all registered teams. |
| 08:00-08:15 | UBerCoolecular |
| 08:15-08:30 | UTokyo-Komaba |
| 08:30-08:45 | Virtus Parva |
| 08:45-09:00 | YOKABIO |
| 09:00-10:30 | AutoDesk Workshop, Awards Ceremony & Closing remarks |
| 12:00 | Check out of Boston Marriott Cambridge Hotel |

Registration/Check-in

All teams are required to check-in for BIOMOD on Friday, October 30th from 16:00 – 20:00. Registration is located at Harvard University, Northwest Lab Building, lower level, 52 Oxford Street, Cambridge, MA 02138. At registration each team member will receive a badge (which must be worn at all times during BIOMOD), participation certificate, and BIOMOD t-shirt.

Friday Night Practice

Optional practice session space is available in the classrooms at Harvard University, Northwest Lab Building, lower level, 52 Oxford Street, Cambridge, MA 02138 on Friday, October 30th from 16:00 – 20:00. Sign-up for the space will be available at registration in 60-minute intervals. Please begin and end your practice session within your designated time slot. More information will be provided at registration.

Hotel

The official hotel of BIOMOD 2015 is Marriott Hotel – Cambridge.

Address:

Marriott Hotel-Cambridge

50 Broadway, Cambridge, MA 02142

Link: <http://bit.ly/POkTKy>

Telephone: 617.494.6600

Check-in: after 4:00 PM on Friday, October 30, 2015

Check-out time: before 12:00PM on Sunday, November 1, 2015

For individuals and/or teams that made arrangements for an early arrival before October 30th or late departure after November 1st please contact the hotel directly regarding any questions.

Breakfast will be served each morning starting at 7:00 at Harvard University, Northwest Lab Building, lower level, 52 Oxford Street, Cambridge, MA 02138 for all registered teams.

Please note: There are no public phones in the vicinity of the Marriott Hotel-Cambridge or Northwest Lab Building.

Getting to BIOMOD

Address:

Northwest Lab Building at Harvard University, Room B-103

52 Oxford Street

Cambridge, MA 02138



Public Transportation from Marriott Hotel - Cambridge, Cambridge, MA

On Saturday, October 31st the morning trains depart approximately every 14 minutes.

FROM MARRIOTT HOTEL-CAMBRIDGE

Walking from the Marriott Hotel-Cambridge to Northwest Building will take approximately 41 minutes and public transit from the Marriott Hotel-Cambridge will take approximately 20 minutes.

Walking directions to get to the MBTA, 'T' *Red Line.

1. Exit the Marriott Hotel-Cambridge main entrance and take a right onto Broadway.
2. Turn right onto Main Street.
3. Continue on to the 'T' Station to the Redline, Station Name 'Kendall/MIT'.
4. Take the Red Line train **Alewife** to 'Harvard Square' Station.

*The 'T' symbol indicates the location of the subway line.

Once in Harvard Square – Getting to Northwest Building

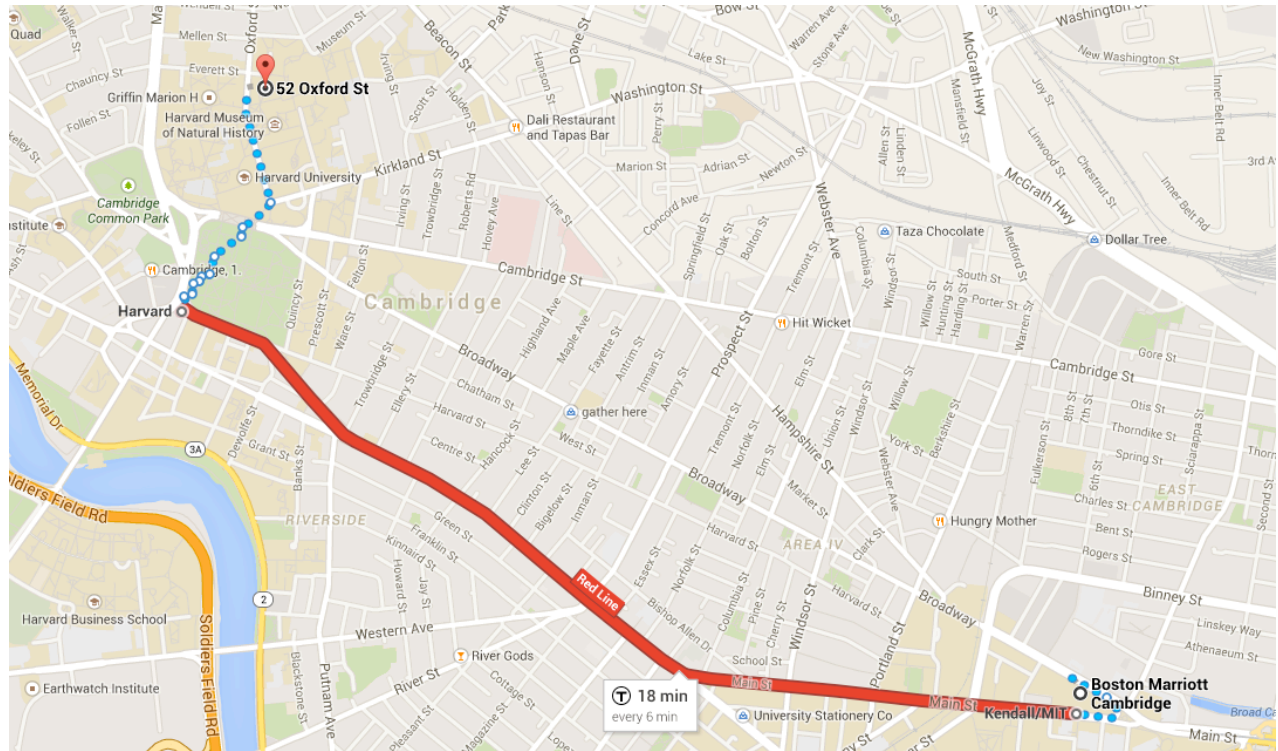
Upon exiting the "T" station via Church Street exit, walk NNE through Harvard Yard to the Science Center. Then proceed away from the Science Center on Oxford Street. The Northwest Building is just beyond the Harvard Museum of Natural History, on the right hand side of the street.

Area maps

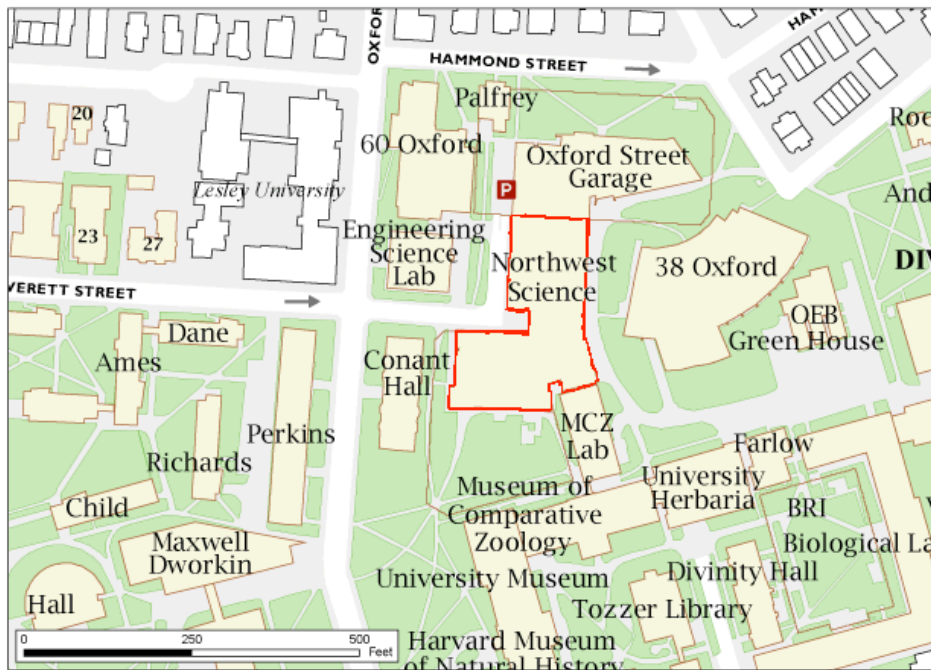
Map - from Marriott Hotel-Cambridge to Northwest Lab Building

Start – 'Boston Marriott Cambridge', 50 Broadway, Cambridge, MA 02142

End – Northwest Lab Building, 52 Oxford Street, Cambridge, MA 02138



Map of Northwest Building on the Harvard University campus



Presentation details

All team presentations will take place in North West Building, Room B-103. Note that the TOTAL time allotted to each team is 15 minutes. This includes laptop setup (1 min), present slides (10 min), audience questions (~3 min), and exiting the stage + buffer time (1 min). The time limits will be strictly enforced, so rehearsing in advance is strongly recommended to avoid being cut off. The room is equipped with a projector and screen. Please remember to bring converters, adapters, cables, etc. as these will **not** be provided by BIOMOD.

Breakfast, break refreshments and lunch

Saturday: Breakfast, morning and afternoon break refreshments as well as lunch will be available for all attendees at Northwest Building just outside Room B-103.

Sunday: Breakfast will be available for all attendees at Northwest Building just outside Room B-103.

Judging and awards

Our aim is to maintain an open and fair process for evaluating each team's performance. Teams will be scored by judges using a point system. The judging process will have two stages: online content (worth up to **75 points**) and live presentation (worth up to **25 points**).

Online content scoring

- Maximum combined score for online content is **75 points** (= 50 points for wiki + 25 points for internet video)
- Scores will be determined by a range-voting system.
- Five (5) judges will be randomly assigned to each team.
- Judges will evaluate each project according to a rubric (see below) and assign a point value in each category.
- Highest and lowest judges' total scores are excluded to remove outliers.
- Three remaining judges' scores will each be weighted by 1/3 and combined to determine the total scores for each category.

Wiki (up to 50 points)

Project Idea (20 points)

- Relevance: Has the team made a strong case that their project idea is scientifically and/or technologically interesting? **(5 points)**
- Specification: Are the project goals well-defined? (i.e. Does the team explicitly state what criteria need to be met in order to consider the project a success?) **(5 points)**
- Feasibility: Was the proposed solution feasible? (i.e. Was it reasonable to expect that the solution could be implemented by a BIOMOD team in one summer?) **(5 points)**
- Merit: Is the proposed solution a good one? Is it particularly elegant or innovative? **(5 points)**

Project Documentation (20 points)

- Clarity: Is the project description well-written and easy to understand? Does it include the background and motivation of the project, methods, results, and discussion? Are the figures easy to understand? **(10 points)**

- Transparency: Are all of the raw experimental data and source files easily accessible? Would it be straightforward to attempt to reproduce the team's results? **(5 points)**
- Layout: Is the team's project page arranged in a clear and logical fashion? **(5 points)**

Project Execution (10 points)

- Execution: Did the team accomplish what they set out to do? **(10 points)**

YouTube video (up to 25 points)

- Overall impact: Was the video interesting? Did you want to watch more than once? **(10 points)**
- Clarity: Was the project described in a simple and clear manner that could be easily understood by a wide audience? **(10 points)**
- Production: Was the sound and video high quality? Were the images focused and scaled properly? **(5 points)**

Presentation scoring (up to 25 points)

- Content: Were the slides clear and easy to understand? Did the project narrative have a logical flow, with clearly stated goals and results? **(10 points)**
- Delivery: Did the speaker(s) give a well-rehearsed, well-paced presentation? Did the speaker(s) engage with the audience and maintain good eye contact? **(10 points)**
- **Impact: Was the presentation interesting? fun? clever? memorable?** (5 points)

Judges

- Judges were selected from a pool of BIOMOD faculty mentors and outside experts.
- Mentors will not evaluate their own team.
- The 2015 BIOMOD Jamboree Judges:

| Name | Affiliation |
|-----------------------|---|
| Ebbe Andersen | Aarhus University |
| Max Anikovskiy | University of Calgary |
| Nathanael Aubert-Kato | Ochanomizu University |
| Erick Leite Bastos | University of São Paulo |
| Hans-Georg Braun | Leibniz Institute of Polymer Research Dresden |
| Carlos Castro | Ohio State University |
| Edward Chern | National Taiwan University |
| Anne Condon | University of British Columbia |
| Kei Fujiwara | Keio University |
| Kurt Gothelf | Aarhus University |
| Masami Hagiya | University of Tokyo - Komaba |
| Shogo Hamada | Tohoku University |
| Henry Hess | Columbia University |
| Akira Kakugo | Hokkaido University |
| Yonggang Ke | Emory University |
| Jorgen Kjems | Aarhus University |
| Ken Komiya | Tokyo Institute of Technology |
| Akihiko Konagaya | Tokyo Institute of Technology |

| | |
|------------------------|---|
| Minseok Kwak | Pukyong National University |
| Thom LaBean | North Carolina State University |
| Lawrence Lee | Victor Chang Cardiac Research Institute |
| Tim Liedl | Ludwig-Maximilians-Universität |
| Philip Lukeman | St. John's University |
| Jinbiao Ma | Fudan University |
| Saravanan Matheshwaran | Indian Institute of Technology Kanpur |
| Satoshi Murata | Tohoku University |
| Takashi Nakakuki | Kyushu Institute of Technology |
| Malempati Raylakshmi | BMS College of Engineering |
| Francesco Ricci | University of Rome |
| Jannet Salinas | Universidad Autónoma de Nuevo León (UANL) |
| Thorsten Schmidt | Technische Universität Dresden |
| Nomura Shin-ichiro | Tohoku University |
| Praphulla Shukla | BITS-Pilani |
| WilliamTai | Hong Kong Baptist University |
| Masahiro Takinoue | Tokyo Institute of Technology |
| Philip Tinnefeld | TU Braunschweig |
| Saisha Vinjamuri | BMS College of Engineering |
| Shizhen Wang | Xiamen University |
| Patrick Yue | Hong Kong Baptist University |
| Yi Zhan | Huazhong University of Science and Technology |

Awards

The following prizes will be awarded:

Top Prizes

- Grand prize = 1st highest total combined points from wiki + video + presentation
- 1st runner up = 2nd highest total combined points from wiki + video + presentation
- 2nd runner up = 3rd highest total combined points from wiki + video + presentation

Category awards

- Best Wiki = 1st place, 2nd place, 3rd place
- Best YouTube Video = 1st place, 2nd place, 3rd place
- Best Presentation = 1st place, 2nd place, 3rd place
- Audience Favorite = 1st place, 2nd place, 3rd place

Project awards

- Bronze: Team satisfied all minimum requirements for judging (i.e. Submitted a complete Project wiki and uploaded a YouTube video)
- Silver: Satisfied criteria for Bronze, plus at least one device (part of the system) in the team's design is worked as expected.
- Gold: Satisfied criteria for Silver, and overall point score from Wiki + YouTube + Jamboree presentation are in top 50% of all teams.

Special Awards

- The 5th Annual Molecular Robotics Award (by [MOLBOT](#), Japan)
- Best Team T-shirt Award

Each member of the winning team of the top prizes, category awards, and project awards will receive an award certificate provided by the BIOMOD sponsors.



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