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Introduction and Executive Summary

This document represents a draft of recommended guidelines for a gradual, phased approach to reestablishing the full breadth of research activities at Johns Hopkins University. These guidelines are based on detailed recommendations and analysis from the 2020 Research Workgroup, led by Denis Wirtz (Vice Provost for Research). During the past month, the Workgroup engaged in intensive planning, and received significant input and review from research faculty, postdoctoral fellows and graduate students, and school leadership.

In preparing this draft, the Workgroup deliberated on the many facets of research carried out at the University, and consulted broadly with stakeholders. The result is a set of general considerations related to the conditions necessary to allow the safe return to campus of increased numbers of researchers and support staff.

The Johns Hopkins University’s overall plan for resumption of on-campus activities is structured in phases. There are three main phases, which conceptually parallel those in the State of Maryland’s plan, the Roadmap to Recovery. This draft document was prepared in advance of the University’s move to Phase 1, which will occur only as state and local regulations and our own assessment of the public health risks on our campuses allow. These draft guidelines are intended to elicit community feedback, and will be revised based on that feedback and review by the deans.

The focus of this document is on near-term measures – those enabling movement of research activities into Phase 1 of the University’s plan. While it is based on current knowledge, we anticipate that its guidance will evolve along with our understanding of the status of the pandemic and our experience in the safe resumption of research activities. Although there is a consensus from our peers that certain types of research, such as laboratory research and core activities, can be conducted in a manner that poses low levels of risk, we plan to resume research activities gradually so that we can be certain of our capacity to employ the protective measures that will be necessary. We thus caution that not all research labs will be able to open at the same time, nor will all labs be able to open with the same capacity.

Of importance, the resumption of on-campus research activities in Phase 1 will be limited only to those activities that actually require a person to be on campus/in the lab. Any and all research work that can be accomplished at home via telework should continue to be done at home, and persons should only be on campus for the time periods necessary to accomplish required on-campus work.

This document focuses on resumption of research activities. It is meant to integrate seamlessly with other University guidance, divisional planning efforts, and critical cross-cutting University functions to safely support full resumption of research and other activities on campus, including facilities; Health, Safety and Environment (HSE); health and wellness (including testing and contact tracing); human resources; information technology; transportation; and security. Those issues are at most touched on here, and will be covered more fully in companion documents, including as needed to move into Phase 1 research activities.

Our guidance in the following pages is organized into top-line findings and recommendations, followed by detailed recommendations organized into thematic sections: Health & Safety; PI
Preparation; Lab Personnel; Libraries, Archives & Museums; and Clinical & Human Subjects. The principles laid out here apply to all University locations (e.g., Homewood, East Baltimore, DC, JHACH), noting that all actual operations should reflect local guidance and conditions. This is a living document and as such will be updated as we receive feedback; it will also be subject to alteration based on developing circumstances, changed or increased understanding of the virus, and governmental and public health guidance.

Guiding Principles

The development of this plan is based on the following basic Guiding Principles, which complement the overall guiding principles articulated by University leadership earlier in May:

• Our highest priority is to put health and safety first. We will implement physical distancing and the use of personal protective equipment (PPE) in the controllable environments of our laboratories, libraries, and associated spaces. And we will pay special attention to the needs of vulnerable populations, making reasonable accommodations through Human Resources and Disability Services where warranted.

• We will adopt an evidence-based risk management approach to the COVID-19 challenge, and our decisions will be guided by state and local public leaders and health experts. We will abide by federal, state, and local restrictions and the most current OSHA, CDC and related government guidance.

• At this time (while we are still prior to Phase 1 of our plan), and when we enter Phase 1, personnel should be on campus / in a laboratory only to perform necessary experiments and other research activities that require physical presence; all other work should continue to be performed at home.

We will approach the scale-up thoughtfully, allowing for expansion and adjustments when they make sense. If conditions worsen, either locally or regionally, another rapid research scale-back may be required.

Phases

Our approach calls for a multiphase resumption of activities consistent both with state and local restrictions and our own public health experts’ assessment of the COVID-19 pandemic and the complexities inherent in protecting the health and safety of our students and postdoctoral fellows (collectively, “trainees”), faculty and staff. While our phasing seeks to align with Maryland’s phasing, the alignment is not automatic and there may be many periods when the University cannot, for public health and safety reasons, be in the same phase as the state, just as not all counties in the state may be in the same phase at the same time. The University has not yet moved to Phase 1 of its recovery plan, in which the resumption of non-COVID-19 research activity will begin. Below is a summary of restrictions that will be applied during our anticipated phases of recovery.
## PHASES OF RESEARCH RESUMPTION

<table>
<thead>
<tr>
<th>Primary work/lab</th>
<th>Building access</th>
<th>Occupancy of shared offices</th>
<th>Density of lab spaces</th>
<th>Group Meetings</th>
<th>Hygiene – follow CDC guidelines</th>
<th>Cleaning</th>
<th>Health monitoring/Testing</th>
<th>Undergraduates</th>
<th>Graduate students/Postdoctoral fellows</th>
<th>Libraries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimal on-campus presence for research operations; still remote when possible; approved PI plan in place for essential research</td>
<td>Minimal on-campus presence for research operations; still remote when possible; approved PI plan in place</td>
<td>Remote preferred for those at higher risk; approved PI plan in place</td>
<td>Near 100% density - Return to full research operations</td>
<td>None</td>
<td>Strict distancing, required face covering, minimal lab density, frequent hand-washing</td>
<td>Lab-specific as per Phase 0 plans</td>
<td>Symptomatic persons only</td>
<td>No</td>
<td>Only for COVID-related research</td>
<td>Some digitizing of materials; curbside drop-off of books to be returned; begin curbside pickup of circulating materials</td>
</tr>
<tr>
<td>Phase 0 (current)</td>
<td>Limited, with possible shift work; swipe access</td>
<td>Yes, with appropriate distancing</td>
<td>Minimal</td>
<td>None</td>
<td>Strict distancing, required face covering, minimal lab density, frequent hand washing</td>
<td>New cleaning protocols in place; no shared surfaces, such as desks, keyboards, phones; common areas closed</td>
<td>Testing and contact tracing of symptomatic trainees and employees only</td>
<td>No</td>
<td>Yes</td>
<td>JHU library, archive, and museum staff continue to digitize needed materials for researchers; curbside drop-off and pick up of circulating materials; in-person access to non-circulating collections for small #s of trainees and faculty</td>
</tr>
<tr>
<td>Low Density - Increase research activity</td>
<td>Wider access; tracking with apps</td>
<td>Yes</td>
<td>Managed through approved PI plans; 1 person per 400 sf of gross lab area</td>
<td>Constraints on meeting size and use of general space align with university policy</td>
<td>Required face covering and strict distancing</td>
<td>Cleaning protocols remain; limited shared surfaces; some common areas reopen with distancing rules</td>
<td>Testing and contact tracing of symptomatic trainees and employees (TBD)</td>
<td>No/ Possibly*</td>
<td>Yes</td>
<td>Continued digitization and in-person access for JHU classroom instructors; as slots and staffing are available, researchers and instructors from the broader community</td>
</tr>
<tr>
<td>Phase 1</td>
<td>Open access</td>
<td></td>
<td>Managed through approved PI plans; capacity limits will be revisited</td>
<td>Larger meetings; normal limits on room occupancy</td>
<td>Recommended face covering; some potential lessening of distancing requirements</td>
<td>Routine cleaning of labs and common areas</td>
<td>Vaccine, effective therapeutics, or substantial immunity amongst community</td>
<td>Yes</td>
<td>No</td>
<td>Non-JHU affiliates who rely on JHU collections for any other purpose; use of the space in research collections for in-person classes and the general public</td>
</tr>
<tr>
<td>Phase 2A/2B</td>
<td></td>
<td></td>
<td>Near full capacity</td>
<td></td>
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<tr>
<td>Phase 3</td>
<td></td>
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*subject to university decision to resume on-campus undergraduate education
Part One: Health & Safety

Guidelines around occupancy density, expectations for social distancing, use of face coverings or masks and other PPE, cleaning schedules, changes in facilities and space, and foot traffic management are being established in coordination with the Health and Safety Workgroup and JHU Facilities and Health, Safety, and Environment (“HSE”) guidelines.

1. Every individual returning to campus for research will be required to adhere strictly to social distancing and use face coverings.
   a. **Social distancing:** Involve minimal numbers of individuals returning to laboratories and libraries during Phase 1. Adhere to newly established maximum occupancy rates for each designated space, based for now on an assumption of 400 gross square feet per person in the lab. Mark spaces to reinforce need for space separation.
   b. **Face coverings:** These should be worn at all times indoors, unless inside a single-occupancy office. (No determination has been made yet regarding outdoor face covering requirements.) Face coverings may be brought from home and should be provided to all laboratory and library personnel. The University is currently determining who will be responsible for procurement and distributions of such coverings.

2. Laboratories and libraries must engineer their facilities to improve safety through frequent cleaning, clear signage and other guidance, and provide all personnel with information on how to report concerns.
   a. **Cleaning:** Work with the school’s facilities team to develop a plan for regular cleaning and disinfecting of laboratory space – including by third-party cleaners, where applicable – that follows the HSE protocol for cleaning.
   b. **Physical signage:** Post safety signage with information about where to report safety concerns.
   c. **Common spaces and shared equipment:** Provide specific guidance on using common spaces and shared instrumentation, based on guidance from the University and HSE.

3. Laboratories, core facilities, and libraries should maximize capacity while minimizing occupancy rates. Expect return at significantly decreased density compared with normal operations, and return at different times for different research spaces.

Part Two: PI Preparation

Phase 1 lab readiness is based on a PI-driven approach, with school and University oversight. PIs are the most knowledgeable about the details of their research space, workflow, personnel, shared instrumentation, and program priorities. The guidance herein is developed for initial re-opening and is intended to align with the resumption of low-risk activities. Later phases of re-opening are not addressed in these recommendations.

4. Every laboratory must have an approved re-opening plan as well as a shut-down plan (in the event of increased infection rates) in place before occupancy. Approval of re-opening plans is by the relevant Dean’s Office.
5. Wherever possible, work on all projects will be commenced to enhance research momentum and resume research training for all. The details of each project and time spent directly at the bench will vary.

6. Expectation for adherence to safety requirements should be near zero tolerance, and personnel will be provided easy means for reporting violations.

**Part Three: Lab Personnel (e.g., postdoctoral fellows, graduate students, technicians)**

Guidelines must make shift assignments fair/flexible and take into account those who have concerns about returning to work. (More information on this will be forthcoming.) Safeguards to avoid coercion and retaliation must be in put in place.

7. Consistent and equitable consideration will be given to employee and trainee needs.

8. PIs must provide clear communications to continually inform employees and trainees, make them aware of formal channels to report concerns and/or mistreatment, and create a culture of flexibility and protection.

9. Effective training and reinforcement of new COVID-19 related safety measures must be implemented in each lab.

**Part Four: Libraries**

Encourage digital access to non-circulating materials for both research and teaching where possible. Allow curbside drop off and pick up of circulating collections. Accommodate as many requests as possible from graduate student and faculty researchers, and course instructors to access non-circulating collections in keeping with safety protocols. The Libraries will address the following:

10. Organizing space for safe utilization.

11. Safe transfer of materials.

12. Digitization of materials.

13. In-person access to non-circulating materials.


**Part Five: Clinical & Human Subjects**

A Human Subjects Research workgroup is developing a multiphase resumption of human subjects research plan. In the meantime, as always, if you have questions about human subjects research, you should direct them to the appropriate Institutional Review Board. The human subjects research plan will address:

15. Engaging subjects on campus.
Part One: Health & Safety

Multiple, interconnected layers of management of campus services, specific buildings, libraries, individual laboratories and core facilities/shared resources are required to execute a successful research ramp-up in a safe manner. The guidance below is offered to help ensure that safety, and will change as public health guidance and understanding of the virus change. In creating this guidance, special attention has been given to the concerns of those who may be at greater risk of contracting COVID-19. Please note that these and other elements of University health and safety not addressed here are being addressed through other workgroups, whose draft guidance is forthcoming.

The guidance below is also subject to reasonable accommodations. Faculty, staff, and trainees who believe they may be at particular risk will be able to request reasonable accommodations to their work or learning environment based on COVID-19-related risk factors. Information on the accommodations process for students and employees is forthcoming, and will involve Human Resources and the Office of Institutional Equity.

1. Every individual returning to campus for research will be required to strictly adhere to social distancing and use face coverings.

   Laboratories and libraries should ensure equitable use and availability of face coverings, including recommendations for the type of covering used, instructions on how to wear/clean face coverings and a centralized distribution on face coverings (i.e., how many per person). It may be appropriate to also issue reminders about distinguishing between laboratory PPE and PPE appropriate for commuting to and from campus.

   Spaces within an individual building must be organized in a manner that ensures safe social distancing.
   • Limit building access points and elevator occupancy.
   • Designate up and down staircases.
   • Establish access control to buildings – for example, swipe in / swipe out access at main entrances for buildings so equipped – with continued limiting of the number of entrances to a building.
   • Add signage and floor markings at common spaces to ensure social distancing,
   • The use of additional PPE or other safety devices (e.g., air-flow-controlled hoods) may compensate for reduced social distancing in certain situations where social distancing is not practical or safe for the nature of the work. Such exceptions will need explicit approval from HSE.

2. Laboratories and libraries should engineer their facilities to improve safety through frequent cleaning, clear signage and other guidance, and information on how to report concerns.
Each lab is responsible for regularly cleaning and disinfecting laboratory space, and Facilities and Real Estate will provide guidance on critical items that need to be performed and provide disinfectants as needed (Appendix E).

- Deep cleaning should be done between shifts.
- Lab surfaces should be cleaned with products that are EPA-approved for use against the virus that causes COVID-19. A list of products is available here.
- Follow the manufacturer’s instructions for all cleaning and disinfection products (e.g., concentration, application method and contact time).
- Clean handles for sinks, DI water systems, cabinets (including acid and flammable liquid), fume hood sashes, lab benches, phones, and freezer and incubator doors.

In order to reinforce the new COVID-19 safety measures, we recommend the prominent display of checklists and/or graphical posters in high-traffic areas (e.g. main entry and exit points, elevators, stairwells) reminding researchers about necessary COVID-19 related safety precautions, such as hand washing, distancing, and face coverings as well as the phone number for the Employee COVID-19 Call Center and the hotline number for safety concerns.

Common spaces require special consideration regarding social distancing protocols:

- **Shared breakrooms.** Acknowledging the likelihood that campus dining facilities will be closed, researchers who will be bringing food from home should be given specific local guidance and signage for safely using break rooms, including kitchens and lounge areas, such as assigned lunch shifts that ensure a safe density of users.
- **Common areas.** For common areas (e.g., hallways, entrances, stairs, bathrooms, elevators, mailrooms, cafes, cafeterias, parking garages), doors should be made hands-free where possible and traffic reduced. Designated up vs. down stairs is preferable. Some common areas may be closed to public use entirely.
- **Bottlenecks/lines at entrances.** If shift schedules all begin at the same time, put measures in place to avoid bottlenecks at key entry and exit points, especially if new sign-in and sign-out procedures are instituted.

The university is working to train and deploy a group of safety monitors, modeled after a successful program now underway in the clinical setting, to help faculty, staff, and students adjust to these new protocols. These safety assistants would be positioned at lab building entrances and select common areas, to the extent staffing capability allows, to answer questions about the new protocols and help remind individuals of required steps, such as wearing face coverings before entering lab buildings and completing any required cleaning steps before the end of lab shifts, among other tasks.

3. **Laboratories, core facilities, and libraries should maximize capacity while minimizing occupancy rates.** Expect return at significantly decreased density compared with normal operations, and return at different times for different research spaces.

Expect return at significantly decreased density than normal operations. The current guidance regarding space is not to exceed 1 person per 400 square feet of gross lab area.
• Time spent in a laboratory should be spent performing necessary experiments and other activities that require physical presence; other work should continue to be performed at home.
• Floor plans for individual laboratories should be distributed to aid in planning and organizing research start up efforts.
• Plans for common research spaces such as equipment, tissue culture rooms, etc., require additional planning to avoid overcrowding.
• Staggered work schedules should be developed to ensure all laboratory members have the ability to initiate their research in a reasonable timeframe.

Core facility managers should implement scheduling changes to ensure safe social distancing. In Phase 1 allow only low-risk activities; for example, instruments should be submission-only until the campus community transitions into Phases 2 and 3. Scheduling users and maintaining occupancy rate maximums will be essential. This may require, in many cases, authorizing only a portion of the labs in a particular building to open at precisely the same time. Protocols for disinfecting equipment and work stations before and after use should be developed with guidance from Facilities and HSE (Appendix E).

Many basic science labs share equipment/access with neighboring labs. In such situations, the relevant PIs must collaboratively develop a social distancing plan and scheduling plan to mutually optimize/accommodate research needs. Options might include: (a) moving to submission-only data collection, where only one research group operates the shared instrument and shares data digitally, or (b) operating instruments on shift schedules.

Part Two: PI Preparation

A central premise of this guidance is that return-to-research planning should, wherever possible, consist of a PI-driven approach, with appropriate consultation with lab members and oversight from program, departmental and school leadership. The premise is based on the fact that the PIs are the most knowledgeable about the details of the research space, needed workflow, personnel, shared instrumentation, and program priorities. As such they are in the best position to provide specific details and plans for restarting research. While all conditions around the current situation are fluid and no recommendations should be considered final, the following approach reflects the best current methods for establishing needed modifications for resumption of research with respect to health and safety, equitable access to research laboratories, or any of the evolving institutional requirements and precautions.

4. Every laboratory must have in place an approved re-opening plan, as well as a shut-down plan (in the event of increased infection rates), before occupancy. Approval of re-opening plans is by the relevant Dean’s Office.

Safe re-opening of laboratories is a high priority. Clear expectations and processes provide a knowable path for PIs to resume laboratory-based research productivity. A preliminary list of PI responsibilities for lab re-opening includes:
• Developing a lab-specific re-opening plan,
• Providing primary points of contact and communication for lab personnel,
• Establishing appropriate training and monitoring for all lab personnel,
• Demonstrating behavioral best practices, and
• Reporting concerns and sharing best practices to programs and/or divisions.

The basic recommended process is that the lab re-opening plan is provided to a program/department chair and Dean’s Office, and once approved, the lab becomes eligible for re-opening. Recognizing that some of the most important questions regarding operations under current conditions are not fully known, PIs need:

• Initial best practices (e.g. for spacing, disinfecting protocols, etc.),
• Practical information (e.g. laboratory floor plans),
• Materials (e.g. PPE, cleaning supplies),
• Signage detailing proper PPE use, disinfecting, reporting, and
• General support to prepare plans, initiate laboratory purchases and deliveries.

A detailed plan is necessary to maintain health and safety during re-opening (Appendix A). Laboratory re-opening plans should address at a minimum:

• Responsible party,
• Physical distance,
• Logistics (e.g. shifts, density),
• Personnel responsibilities,
• Cleanup,
• PPE and supplies, and
• Lab shutdown contingency plan.

It is equally important that lab members other than the PI understand the plan, agree with the implementation, and become conduits for best practices. This is best done primarily within the programs that house a given laboratory, therefore Program/Department Chairs should provide first level approval (Appendix C). In addition, division-level approval provides the surest means to assure equity and collect best practices. It is not expected that the re-opening plans or shut-down plans are a pro-forma exercise. It is intended that only plans that fundamentally address the issues around re-opening are approved.

When creating a plan, PIs need to consider what steps will be necessary to safely shut the lab down again if necessary. Given the possibility that research may have to be scaled-back again with little notice, PIs are strongly advised to ramp up only those projects that can be ramped down quickly and at relatively little cost and complexity. For the time being, PIs should de-prioritize projects that depend on non-renewable resources, such as primary cell cultures or high-volume animal experiments, for which scaling back would be costly. As such, care should be taken in choosing projects to ramp up in the early phases.

In the event of a suspected COVID-19 infection in the lab:
• The lab director must notify and consult with HSE.
• All the lab areas that the affected individual inhabited will be subject to quarantine until disinfection has been completed. Leave space(s) unoccupied for a minimum of 3 hours and increase ventilation/open windows.
• **Disinfection can be performed by either lab personnel or a third-party cleaner, at the lab’s discretion.**
• If the lab decides, in/upon consultation with HSE, to undertake cleaning by lab personnel, cleaning is to be done with standard procedures/PPE (gloves and face covering). No special materials or protocols are required. In areas that have higher air movement and exchange, larger particles will settle quickly while smaller particles would be removed by air exchange in relatively short time spans (i.e. under 3 hours). Some labs may only need 1-2 hours depending on air exchange, and reduced access time will be coordinated with HSE. In areas with little air movement or exchange, small particles will be in the air longer. In enclosed rooms without or extremely limited ventilation such as recording studios or residences, those rooms would need to be vacant for 24 hours before entering without higher levels of PPE.

5. **Wherever possible, work on all projects will be permitted to commence in order to enhance research momentum for all.**

Restarting every research project in a laboratory is the goal during Phase 1, though it should be clear that some projects may move forward at a slower pace, and time spent directly at the bench will vary. Experienced personnel should be the first to return so protocols and procedures can be verified and updated. Note that this will be progressively advanced based on measures of no spread within the work environment.

6. **Expectation for compliance should be near zero tolerance and personnel will be provided easy means for reporting violations.**

Lab personnel or PIs who do not abide by university and/or lab-specific protocol will be removed from the laboratory setting. Return to labs after such offense is at the discretion of the Program and/or Division. We recommend clearly communicating that noncompliance with current COVID-19 workplace safety guidelines will result in suspended laboratory access for a period time between 1-4 weeks, depending on the severity and frequency of the infraction; serious or continuing violations could result in more substantial consequences, as per the appropriate conduct policy.

Robust reporting structures are and will be available to PIs and lab personnel in the newly re-opened labs. There are many existing reporting structures such as SPEAK2US, HSE hotline, and closecalls@jhu.edu, and clear signage and communication strategies will support and encourage reporting. In addition, it is recommended that Divisions conduct surveys regarding compliance, concerns, general observations, and lessons learned so that the best information is both pulled from the community as well as pushed to the university.
Part Three: Lab Personnel

The University’s highest priority is the health and safety of all Hopkins faculty, trainees, and staff. When determining how trainees, faculty and staff will restart or ramp-up their on-site research efforts, efforts should be made to provide adequate notice and to consider physical and mental health support and services and individual caregiving responsibilities, transportation needs and commuting hazards or other concerns.

The guidelines below pertain to those elements of lab personnel support that are within the purview of labs and their PIs. Other issues relevant to the health and safety of lab personnel but outside that purview are being addressed through other University workgroups.

7. Consistent and equitable consideration of employee and trainee needs.

The University has established procedures for students, postdoctoral fellows, staff, and faculty to request special accommodation related to COVID-19 health risks.

- Every effort must be made to protect the health and privacy of vulnerable individuals in ways that avoid publicly disclosure of personal health and/or disabilities information.
- Employees and trainees will be able to request reasonable accommodations to their work or learning environment based on COVID-19-related risk factors. This process will be handled by Human Resources and the Office of Institutional Equity. Specific Covid-related guidance is forthcoming.
- Where possible, the University will work with PIs to develop alternate, remote assignments that allow individuals to further their professional development and education goals, including off-site research projects. If the University, the PI and the employee or trainee fully explore all options and there is no viable path to comparable remote work, graduate students/postdoctoral fellows may be permitted to go on a leave of absence (LOA).

8. PIs must provide clear communications to inform employees and trainees, and make them aware of formal channels to report concerns and/or mistreatment, creating a culture of flexibility and protection.

Communications and guidelines from the University will establish a baseline of expectations for establishing a culture of health and safety on an equitable basis across the University. PIs must help to ensure those communications reach their employees and trainees and encourage those with concerns about lack of adherence (by their PI or other members of their lab) to government and university guidelines for managing COVID-19-related risk to speak out. In addition, the University recognizes the power imbalance between PIs and their supervisees, including graduate students, postdoctoral fellows, staff, and more junior faculty. Employees or trainees should not be placed under any pressure by PIs to expose themselves to potentially hazardous situations (e.g. unsafe working conditions in the lab). To that end, employees and trainees will be able to voice concerns confidentially to an authority who has the ability to act on their behalf to address safety concerns.
The University urges use of the SPEAK2US hotline (by phone at 1-844-SPEAK2US (1-844-773-2528) or by online reporting at johnshopkinsspeak2us.com) for faculty, trainees, and staff to report (anonymous or self-identified) a complaint or register a concern regarding health and safety.

9. **Effective training and reinforcement of new COVID-19 related safety measures must be implemented in each lab.**

   It is likely that, due to laboratory safety and access concerns (e.g., handling of hazardous chemicals, animal transport), researchers will need to clean and disinfect some of their own work spaces, as facilities workers will be prohibited from cleaning those areas. A guidance document should be created for the Disinfection of Laboratory Benches/Work Spaces, as well as any other relevant novel COVID-19 safety measures (Appendix E). A brief mandatory training module (MyLearning) should also be developed and given to all researchers regarding PPE requirements and workspace disinfection.

**Part Four: Libraries**

The range of activities in humanities and social science research is broad, including focus groups, observational studies, canvassing and surveying, individual and group interviews, and access to library circulating and non-circulating materials. Much library research can inherently transition to remote work supported by increased digitization, which has been occurring but needs to be increased to allow more researchers to continue to work from home.

10. **Organizing space for safe utilization**

   - Major alterations of space (e.g., plexiglass) so far have been discouraged in favor of rigorous hand hygiene, frequent disinfection of study spaces, and redesigning staff/user flows to maintain minimum 6 feet of distance. Posting of signs related to expectations of hand hygiene before and after handling of materials will be appropriate.
   - Scheduling users based on a clear understanding of carrying capacity will be essential to the early phase of reopening. The number of scheduling slots should be based on availability within each particular space given social distancing requirements and determined by local staff based on safety parameters.
   - Distancing calculations should account for staff to maintain safe distances as they move around to complete needed tasks of managing use, digitization, helping retrieve non-circulating materials, and working with users.
   - Optimal workflow includes staff retrieving needed/reserved materials in advance (using proper hand hygiene and gloves if relevant) and having materials already on the worktable in anticipation of a user’s arrival.
   - Additional space for use of non-circulating collections may be available in some locations before libraries are open more generally.
   - Consider in this process repurposing additional space to quarantine materials before or after use, given that libraries/museums will not be open to other users in initial phases.
   - Cleaning and disinfection of sensitive library artifacts and materials is the responsibility of conservators. At their discretion, materials may be cleaned, sanitized, disinfected or left alone
to reduce or eliminate contamination. **General cleaning and disinfection will be a joint effort between custodial and library staff, and third-party cleaners may be used to accomplish the cleaning required, at the library's discretion.** Frequent disinfecting of doorknobs, tables, and bathrooms will be based on recommendations of facilities and health/safety experts. Surfaces used by researchers will additionally be disinfected before and after each user.

- All users of library facilities will be expected to use face coverings when indoors. No exception will be made unless a reasonable accommodation is needed. In many special collections, latex glove use is not permitted, hand washing facilities are not present in the reading room, and alcohol-based disinfectants are not permitted. In these situations, users are expected to wash hands and disinfect their own laptops, cameras, and/or writing materials thoroughly both before and after using the collection. In addition to existing user agreements regarding security and handling of rare materials, each user will be required to review, sign, and implement COVID-19 specific protocols detailing safe research practices at each service point.

11. **Safe transfer of materials.**

Establish quarantine practices when transferring materials within a facility from research space back to collections, and when transferring between different JHU locations. Consider short-term suspension of inter-facility transfer service within Baltimore, asking users instead to travel to site where the material is ordinarily maintained. Quarantine duration of materials (24-72h) and spatial practices for quarantine will be informed by further guidance from health/safety/facilities workgroups. Users will be asked to understand that this will increase wait times to access frequently used materials, but is imperative to guarantee safety of both users and staff.

12. **Digitization of materials.**

Where possible, researchers and course instructors are encouraged to use already-digitized materials, or to request additional digitization of materials where feasible.

- All collections will need to establish a process for requesting digitization and a plan for staffing for the scope and scale of requests that can be accommodated in a given period. Priority will be given to JHU affiliates, especially for small requests that would avoid a user needing to come to use a space in-person, and course instructors’ requests that would avoid the need for a class to come in-person to a JHU library, archive, or museum.
  - All special collections have been asked to consider what forms and volume of digitization can be completed by a small number of staff in each location maintaining safe distance and staffing practices.
  - In phase 1, special collections can provide additional capacity to both researchers and course instructors to digitize non-circulating materials and to accommodate an increased volume of requests.
  - Staff at different sites across JHU collections, who already closely collaborate about complementary needs and services, may determine that it is safest and most efficient to designate particular sites (e.g., Evergreen library?) as not open to in-person users but instead dedicated entirely to digitization of large or specialized requests performed by a single or small number of staff with no other users on site.
• Clear communication to users is important about which digitization services are covered as customary service and which e.g., very large volume requests, especially for outside users, require special payment. The capacity for digitization varies with the nature of the non-circulating materials.
  o Digitization of single-sheet documents or archival materials can be achieved with a common scanner or even a simple handheld camera and likely can be provided quite quickly.
  o Digitization of rare books which requires flatbed scanning or the use of sophisticated overhead cameras and lighting, digitization of artwork and artifacts may require more skilled photographic or filming equipment, spaces, and techniques.
• Digitization will be a key tool for course instruction that relies on non-circulating materials, although appropriate tech support will be crucial for success:
  o A librarian could “live Zoom” a special collection with a given class;
  o A librarian could film a special collection in advance of class.
  o The instructor could be within a collection with students observing remotely.
• Digitization is a key area of investment for the University, if we are to speed the process of making non-circulating collections broadly available to JHU researchers, teachers, and learners. Note that the Sheridan Libraries has a relatively small digitization staff compared to peer institutions. This is a crucial area for strategic investment, and there can also be opportunities for innovative solutions repurposing existing technologies to meet user needs.

13. In-person access to non-circulating materials.

Reopening of non-circulating collections will be a phased process. During Phase 1, first priority for in-person access will be given to graduate student and faculty researchers, then JHU instructors who rely on collections, and then educators and researchers from the broader community (Phases 2-3). It is noted that some collections are not in high demand by JHU users and, if staffing time and space constraints permit, could still be made available (following usual protocols for safety) in earlier phases to external researchers. Direct user access to special collections, archives, and museums will need to be scheduled in advance. User requests for non-circulating and special materials may encounter delays in access due to needs for physical spacing, triaging of direct use and digitization requests and quarantining of materials after use or transit. The below outlines proposed triage and priority for Phases 1 and 2:
  • Phase 1: JHU researchers, with special attention to the needs of graduate students and to faculty at critical stages of career/promotion timelines.
  • Phase 1-2: JHU teaching faculty who need materials examined for teaching purposes with first priority for those who teach in fall 2020.
  • Phase 1-2: Teaching faculty from local institutions who rely on non-circulating collections at JHU for their fall 2020 teaching (only as space and staffing allow; triage priority given to JHU affiliates).


• Return of previously checked out books and materials will start during Phase 0. This process will occur through a combination of sending users pre-paid mailing labels, having safe procedures at all JHU libraries for curbside return of books, and, in rare circumstances,
sending a JHU van to users’ homes to pick up materials from those who require special accommodations.

- Procedures for curbside pickup of circulating books and materials will be established during Phase 0 and Phase 1 at every library, with minimal numbers of library staff pulling needed books from shelves and scheduling times with users for pickup.

**Part Five: Clinical & Human Subjects Research**

A Human Subjects Research workgroup is developing a multiphase resumption of human subjects research plan. That plan will address:

15. **Engaging subjects on campus.**

To the extent possible, studies involving human subjects should continue to be done remotely. Research resumption involving interactions with human subjects must consider the risk to the subjects and the subjects’ community, as well as that to the researcher and to the campus. Resumption plans should include social distancing in research space and buildings, as well as cleaning protocols for any instrumentation, computers, etc. that are contacted by research subjects. Potential issues associated with subjects’ transportation should also be addressed.

The Institutional Review Boards (“IRBs”) will be issuing further guidance on a phased restart of human subjects research over the coming days and weeks that will take into account restarted clinical activity as well as any potential increased risks to participants in the research.

16. **Field work and other off campus activities.**

Some research focuses on groups defined by geography, history, poverty, etc.; therefore, field work is often a component of research in these disciplines. General guidance for the resumption of field work is forthcoming. In many cases, research activities in the social sciences cross regulatory jurisdictional boundaries, for example when working in other countries, or across state borders, which may mean different regulations or guidelines related to COVID-19 safety. Issues such as privacy and data management can arise as well. In this climate of rapidly evolving regulatory requirements, resumption plans should address compliance with relevant regulations.
Appendix A

Template for Laboratory Re-opening

It is required that prior to re-opening any laboratory (lab/core/shared facility) to personnel (e.g. graduate students, technicians) that a PI develop a re-opening plan, and have this plan approved.

Any work that can be performed away from the labs at proper social distance should still be done away from the lab. Group meetings and communal kitchens are not appropriate for use during Phase 1 and are to be explicitly avoided in the initial re-opening.

All normal laboratory safety protocols should be maintained and personnel should be reminded of traditional safety policy and resources. Any new procedures do not replace traditional safety policy. Safety is always paramount for laboratories, but as we move into Phase 1, additional measures need to be put in place to operate under pandemic conditions.

PIs must provide to their Divisional leadership a re-opening plan that addresses the following:

<table>
<thead>
<tr>
<th>Plan Element</th>
<th>Plan Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Responsible Party (Parties)</td>
<td>• Provide location (and name) of lab.</td>
</tr>
<tr>
<td></td>
<td>• State responsible party for lab, including contact details. If not the same as current lab signage, document change with photo (if possible)</td>
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<tr>
<td></td>
<td>• Provide department/program name that the lab falls under.</td>
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<tr>
<td>Physical Distance Plan</td>
<td>• Provide details for providing ample physical distance that is consistent with the current university recommendation.</td>
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<tr>
<td></td>
<td>• Establish max occupancy for lab based on university and school guidelines.</td>
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<td></td>
<td>• Establish workspace markings (distances) where appropriate.</td>
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<tr>
<td></td>
<td>• Provide separate sections/discussion for specialized/shared equipment that need their own personnel distance guidelines and markings.</td>
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<tr>
<td></td>
<td>• Provide guidance on spacing for work areas (benches), consider supply cabinets, refrigerators, and secondary equipment etc. and any other features of the lab that require distance plans and appropriate marking for the personnel.</td>
</tr>
<tr>
<td>Lab Logistics</td>
<td>• The PI is responsible for creating a system whereby it is known in near real-time who is in the lab and when they are in the lab.</td>
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<td></td>
<td>• A list of all personnel who are allowed in the lab should be provided. If cohorts are utilized the cohort groups may be provided.</td>
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<td></td>
<td>• Work (open) hours for the lab should be stated.</td>
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<td></td>
<td>• Logistics for special shared equipment, if varied from established practice (e.g. how to reserve) should be explained.</td>
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<tr>
<td></td>
<td>*Note, the use of non-standard work hours (colloquially referred to as shifts) is allowed to increase utilization, see Appendix B for additional guidance.</td>
</tr>
<tr>
<td>Personnel Responsibilities</td>
<td>• Specifically state personnel responsibilities and share with all lab personnel.</td>
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<tr>
<td></td>
<td>• Document standard safety rules and point to existing safety guidance.</td>
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<tr>
<td></td>
<td>• Provide additional COVID related personnel responsibilities, refer to latest guidance from Health &amp; Safety.</td>
</tr>
</tbody>
</table>
• Include any additional lab specific user responsibilities, include reference to pre-existing safety manuals.

| Cleaning plan | • A plan should be provided for how the lab will remain clean. PIs and personnel are advised that given desires to minimize mixing and maximize social distance more cleaning than before is likely expected of personnel. Areas to be considered: trash, bench/work areas, touch spots, equipment, and general housekeeping (see Appendix D). |
| PPE, materials and supplies | • Re-opening requires appropriate PPE and cleaning materials.  
• Document (list) materials required before re-opening.  
• The university is procuring necessary PPE and specific cleaning materials for the initial re-opening phase.  
• Divisions will put in place mechanisms to deliver PPE and cleaning supplies based on laboratory needs. |
| Shut-down Procedure | • The PI should provide a plan for how to shut down the lab safely in minimal time. Consider redundancy in personnel who would perform the shutdown.  
• Protocols for shutting down, cleaning, and restarting a lab if personnel tests positive for COVID-19 or for personnel with a positive test in their household are not yet fully established. |

*Note to PI’s of Core Facilities or Shared Equipment*

The university recognizes that bringing core facilities online is an important step towards providing equitable research opportunities. However, shared use equipment presents special challenges. Please consider if exposure risks with shared use equipment can be minimized by the use of a technician or smaller set of consistent operators on a specific piece of equipment. Consider staged opening of your facilities bringing low-risk equipment online first. It is possible that some items/equipment may be too high of a risk for initial re-opening. In addition to specific disinfecting protocols for the instrument, pre-defined downtime between users is encouraged. Plans for core facilities will be reviewed the same as other labs and due to the special conditions for cores some discretion is likely necessary in providing the re-opening plan.
Appendix B

Re-Opening Template “Shifts”

PIs of labs are allowed to consider non-standard lab open hours as a potential means to increase productivity while managing social distance (density) requirements. The underlying principle of the cyclic shift strategy is to separate teams over the time period, for potential carriers to become symptomatic and inhibit cross-team transmission. Fixed shift teams limit the size of any given person’s potential interactions over time and serves as a buffering function that distance alone does not accomplish. Fixing shift teams – at least in the earliest phase of reopening – functionally limits the number of people in the lab who would potentially be at risk for infection as well as the number who may need to be quarantined should a lab cluster emerge. Deep cleaning should be done between shifts.

Below, three different shift models are described. The right model will depend on a the type pf research and space layout (e.g., need to access animals, experimental duration) and personnel preference. The mechanism by which shifts are assigned are not defined but considerations should include lab members’ transportation options and child care responsibilities and the ability of infrastructure to support the designated shift hours (e.g. security).

**Shift model A – divide the day**
The day is divided into two shifts. Every lab member is assigned to an AM or PM shift. Individuals can only come in during their shift. Two 4-hour shifts may not be realistic for many labs. Time windows that allow closer to ~8 hours per shift (e.g., 6 AM – 1:00 PM lab does wipe down on exit; 2 PM – 10:00 PM lab does wipe down on exit) may be possible but should address the division’s ability to support extended hours and accommodate any lab member. Plans should include a time buffer to ensure shift changes occur without cross-contact.

**Shift model B – divide the week**
The week is divided into two shifts. The easiest division to imagine is MoWeFr/ TuThSaSu but other divisions are possible (Mon-Wed and Thurs-Sun). This allows longer workdays for experiments that are not easily accomplished in 4-6 hour blocks. There is less daily concern about (and friction over) overlap. However, some people would always be working on Saturdays.

**Shift model C - somewhat longer blocks**
A 15-day period could be divided into three blocks. Lab personnel are divided into cohorts. Cohort 1 works on campus the first 5 days and then works remotely for the next 10 days. Cohort 2 works on campus the next set of 5 days and then remotely the next 10 days. Cohort 3 works on campus for the next 5 days and then remotely the next 10 days. That ends a 15-day period. This strategy is designed to even more strictly isolate work units.
Appendix C

Approval Process - Laboratory Re-Opening Plan

Specific implementation details will vary by division but laboratory re-opening plans will be initially submitted to a divisional chair and then a second party. In this context a “Chair” is the program, center or department leader that the laboratory falls directly under. The second party should be designated by the division and may be a standing committee, Vice Dean for Research, or other division-level position. If no second party is available to the Program Chair, the office of the Vice Provost of Research could provide second party approval.

If external conditions change (e.g. critical new guidance) Chairs may require modifications and re-approval of any laboratory plan. As internal conditions change (e.g. new equipment, new personnel) PIs should provide updated operating plans. Chairs are responsible for evaluating if changes warrant an additional re-approval cycle.

Advice for Chairs and Approvers

The PI-centric approach adopted for re-opening fits the structure and culture of Johns Hopkins, but places a great deal of weight on the programs and their leadership to monitor and implement flexible solutions for re-opening that remain safe. Chairs and Approvers need to understand the “guiding principles” that have been established for the process – namely safety and equity. It is important that the provided plans place a serious emphasis on safety and are not a pro-forma exercise.

Plans should be rejected and revision requested if any major element of the plan: Physical Distance Plan, Lab Logistics, User Responsibilities, Cleaning, PPE, Materials and Supplies, Shut-down Process – is not adequately addressed. Plans should not be approved unless the Chair and secondary approver have a clear understanding of how social distance needs will be implemented and how monitoring of who is in the lab and when they are in the lab is clear to all parties.
Appendix D

JHU Research Laboratory Disinfection Guidance

In order to prevent the spread of the SARS-CoV-2 virus in research laboratories, the following procedures must be performed by each lab group each day. Failure to comply will place your lab at risk for spreading the virus which could result in harm to your health, the health of your household, or our community. Health Safety & Environment has the authority to shut down labs that are consistently noncompliant with these health and safety precautions.

**BEFORE Coming to Campus**

1. **Check for COVID-19 symptoms.** Fever; Cough; Shortness of breath or difficulty breathing, see full list of symptoms at: [https://www.hopkinsmedicine.org/coronavirus/covid-19-self-checker.html](https://www.hopkinsmedicine.org/coronavirus/covid-19-self-checker.html)
2. If you are experiencing symptoms or have had contact with someone who is COVID-19 positive in the past 14 days, call the appropriate call center for guidance. Stay at home if you are sick. If you are sick but not due to COVID-19 notify your supervisor.
3. **Students must call the University Health Services at 410-955-3250 or Student Health & Wellness at 410-516-8270 and Employees must call the Employee COVID-19 Call Center at 833-546-7546 if you are experiencing symptoms or if you have had contact with someone who has been diagnosed as COVID-19 positive in the past 14 days.**
4. **Wear freshly laundered, lab appropriate clothing and a cloth face mask**
5. **Leave non-essential personal items, i.e., purses, backpacks, at home.**

**Laboratory Disinfection Protocol**

1. **Wash hands** with mild soap and warm water for 20 seconds. **Dry hands.**
2. **Don additional PPE required for disinfection:** lab coat or apron, nitrile gloves, and safety goggles.
3. **Assemble disinfectant and wiping materials.** Supplies can be obtained through your usual supply chain methods or custodial services.
4. **Disinfect laboratory surfaces using EPA approved hospital grade disinfectant or 1:10 bleach solution.** For consistency, reproducibility, and chemical compatibility, multiple disinfectant use should be avoided. Information on appropriate disinfectants can be found at [https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2](https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2)
   a. Disinfect all frequently touched surfaces and objects.
   b. ***If there is visible chemical/other residue on a surface, first remove residue with a separate cloth wetted with water and allow surface to dry before attempting to disinfect***
   c. Spray/apply disinfectant directly to new cloth- minimizing aerosol generation of disinfectant; wipe working and high contact surfaces with cloth- benchtop, fume hood bench and sash, cabinet handles, refrigerator handles, door handles, sink handles, computer keyboard and mouse, etc. On certain electronic devices, several lighter applications with dampened disinfecting cloth may be necessary to reduce damage to the device.
   d. ***Apply enough disinfectant to thoroughly wet surfaces and allow disinfectant to air dry, ensuring that the manufacturers recommended contact time is met***
e. Disinfecting cloth may be reused until grossly soiled. Dispose of grossly soiled cloths in bio box.
f. When you complete the cleaning/disinfecting process, remove nitrile gloves and dispose into biohazard waste box, wash hands.
g. ***Ensure everyone in the lab is using the same disinfectant! Do not switch between different disinfectants and/or bleach***
h. You may wish to exit the room while the disinfectant vapors dissipate.
i. You are ready to begin research.

**While Performing Laboratory Activities**

1. **Maintain social distancing** of 6 feet between other researchers.
2. **Continue to wear** mask (Note: Cloth masks are being worn based on state public health requirements for masking, not to protect against hazards in the lab. Tasks where potential respiratory exposure to hazardous chemicals, biologicals and radioactive materials must be done in fume hoods and/or biosafety cabinets. Follow existing JHU health and safety PPE policies.)
3. **Wash hands** anytime you leave the lab, after you touch shared items, **before** AND after using the restroom.
4. **Do not touch your eyes, nose, or mouth.**
5. **Monitor your symptoms throughout the day.** Immediately leave laboratory and alert your PI if you develop symptoms at work. Contact your COVID Call Center for guidance.

**BEFORE Leaving the Laboratory**

1. **Disinfect laboratory surfaces using hospital grade disinfectant.**
2. **Disinfect any personal item you handled in the lab such as mobile phones and computers.**
3. **Doff lab coat and store.** The lab coat should be considered soiled once it is worn. This does not preclude it from being worn for several days before it is laundered. Launder or exchange soiled lab coat weekly per established laboratory procedures.
4. **Remove gloves** and dispose in lab bio box.
5. **Wash hands** with mild soap and warm water for 20 seconds. **Dry hands.** Alternatively, use hand sanitizer.

**When you get home**

1. **Remove mask.** Either launder cloth mask or store other mask in paper bag.
2. **Place clothes in dirty laundry.** Launder before next use.
3. **Wash hands** with mild soap and warm water for 20 seconds.
4. **Shower**

Contact JHU Department of Health, Safety & Environment with questions.
Homewood 410-516-8798
JHMI 410-955-5918
HSEinfo@jhmi.edu
Appendix E

Membership of the Committee on Research Restart

- **Denis Wirtz**, PhD, T.H. Smoot Professor, Engineering and Vice Provost for Research, University Administration (Chair)
- **Suhnne Ahn**, PhD, Director, Peabody at Homewood Program, Peabody Conservatory
- **Netz Arroyo**, PhD, Assistant Professor, Pharmacology and Molecular Sciences, School of Medicine
- **David Ashwood**, Senior Director, Plant Operations, University Administration
- **Kristin Brig**, PhD Student, History of Medicine, School of Medicine
- **Betsy Bryan**, PhD, Professor, Near Eastern Studies and Vice Dean for Humanities and Social Sciences, Krieger School of Arts & Sciences
- **James Bukowski**, Assistant Director, Occupational Safety, East Baltimore Campus
- **Kate Calvin**, Interim Vice Dean for Finance and Administration, Bloomberg School of Public Health
- **Christopher Cannon**, PhD, Bloomberg Distinguished Professor, English and Classics, Krieger School of Arts & Sciences
- **Chad Clapsaddle**, Associate Dean for Finance and Administration, Whiting School of Engineering
- **Keira Cohen**, MD, Assistant Professor, Medicine, School of Medicine (Chair – Student/Postdoc Subcommittee)
- **Theresa Colecchia**, JD, Senior Associate General Counsel, University Administration
- **Perry Cooper**, Manager, Health, Safety and Environment, Homewood Campus
- **Sarah Cunningham**, Assistant Vice Provost, Student Life Strategy and Policy, University Administration
- **Lisa Deleonardis**, PhD, Professor, History of Art, Krieger School of Arts & Sciences
- **Kathleen DeLaurenti**, Head Librarian, Peabody Conservatory
- **Kirsten Endresen**, PhD Student, Physics, Krieger School of Arts & Sciences
- **Jeremy Greene**, MD, PhD, Professor, History of Medicine, School of Medicine
- **Earle Havens**, PhD, Curator of Rare Books, Sheridan Libraries
- **Cheryl Himmelfarb**, PhD, Professor and Vice Dean for Research, School of Nursing
- **Eric Hutchinson**, DVM, Associate Director, Research Animal Resources, School of Medicine
- **Marty Kajic**, Director of Facilities Management, Bloomberg School of Public Health
- **Nancy Kass**, ScD, Professor, Health Policy and Vice Provost for Graduate and Professional Education, University Administration (co-Chair – Libraries Subcommittee)
- **Christine Kavanagh**, Assistant Dean, Graduate and Postdoctoral Academic Affairs, Whiting School of Engineering
- **Gregory Kirk**, MD, Professor, Epidemiology and Vice Dean for Research, Bloomberg School of Public Health
• **Rebekka Klausen**, PhD, Associate Professor, Chemistry, Krieger School of Arts & Sciences
• **Clarence Lam**, MD, Interim Director, Occupational Health Services, School of Medicine
• **Bria Macklin**, PhD Student, Chemical & Biomolecular Engineering, Whiting School of Engineering
• **Heather Mason**, Director, Human Resources, University Administration
• **Courtney McQueen**, PhD, Senior Science Writer, University Administration
• **Tyrel McQueen**, PhD, Professor, Chemistry, Krieger School of Arts
• **Katherine (Kat) Moon**, Postdoctoral Fellow, Environmental Health and Engineering, Bloomberg School of Public Heath
• **Heba Mostafa**, MD, PhD, Assistant Professor, Pathology, School of Medicine
• **Larry Nagahara**, PhD, Associate Dean for Research, Whiting School of Engineering
• **Andy Pekosz**, PhD, Professor, Molecular Microbiology and Immunology, Bloomberg School of Public Health (Chair – Health & Safety Subcommittee)
• **Michael Pokrass**, PhD Student, Molecular Biology and Genetics, School of Medicine
• **Mark Pollei**, Director, Conservation and Preservation, Sheridan Libraries
• **Sue Porterfield**, Associate Vice Provost, Research, University Administration
• **Matt Poyton**, PhD, Postdoctoral Fellow, Biophysics and Biophysical Chemistry, School of Medicine
• **Kristen Reek**, JD, Assistant Director, Federal Affairs, University Administration
• **Ben Schafer**, PhD, Professor, Civil and Systems Engineering, Whiting School of Engineering (Chair – PI Subcommittee)
• **Geraldine Seydoux**, PhD, Professor, Molecular Biology and Genetics, School of Medicine
• **Anne Seymour**, Director, Welch Medical Library
• **Brian Smith**, Chief Procurement Officer, University Administration
• **Winston Tabb**, Dean, University Libraries (co-Chair – Libraries Subcommittee)
• **Sheila Thalhimer**, Head Librarian, Nitze School of Advanced International Studies
• **Christina Thomas**, PhD Student, History, Krieger School of Arts & Sciences
• **John Toscano**, Professor, Biology and Vice Dean for Natural Sciences, Krieger School of Arts & Sciences
• **Elliot Wainwright**, PhD Student, Nitze School of Advanced International Studies
• **Ashi Weenaratna**, PhD, Bloomberg Distinguished Professor and Chair, Biochemistry & Molecular Biology, Bloomberg School of Public Health
• **Emily Wisniewski**, PhD Student, Chemical & Biomolecular Engineering, Whiting School of Engineering
• **Vasan Yegnasubramanian**, MD, PhD, Associate Professor, Oncology, School of Medicine
• **Lingxin Zhang**, PhD Student, Near Eastern Studies, Krieger School of Arts & Sciences