

U.S. Public Health Service Bethesda, Maryland 20892

Office of Science Policy National Institutes of Health 6705 Rockledge Drive Suite 750, MSC 7985 Bethesda, MD 20892-7985 (301) 496-9838 (Phone) (301) 496-9839 (Fax) http://osp.od nih gov/index. html

October 6, 2016

Institutional Biosafety Committee
Boston University
85 East Newton Street, Suite M-81 OG Boston, MA
02118

Dear :

I am writing in response to your e-mail communication sent to the NIH Office of Science Policy (OSP) on September I, 2016 requesting the lowering of containment for the cloning of full-length cDNA of Lloviu cuevavirus (LLOV) in non-pathogenic strains of E. coli. We understand from the information provided that LLOV is a filovirus isolated from bats in Spain and that there are no reported cases of human infection associated with this virus. However, as noted in the information provided, LLOV may have the potential to cause severe disease in humans.

is authorized to lower containment to BL2 for work involving the full-length cloning of LLOV under the existing procedures used for Ebola and Marburg full-length clones as described in the Boston University proposal dated 3/3/2016, with the following stipulations as stated in the OSP approval letter dated July 15, 2016:

- Work on helper plasmids will occur at a location separate from work involving the full-length cDNA cloning in E. coli ofLLOV. The latter will be confined to a secure BL2 laboratory (the fulllength cDNA laboratory -- FLCL) separate from the regular BL2 laboratory.
- Helper plasmids will be stored in a separate location than that used for the full-length clones.

Full-length cDNA clones of the different RG4 stored in separate boxes maintained in the sec	
Workflow restrictions will be instituted to prevent cross-contamination while working with individual cDNA clones. Temporal separation between experimental procedures (to include appropriate cleaning and disinfection) will be implemented.	
We presume that responsible for overseeing the biosecurity and biosafet plan, including an occupational health plan; and a form and biosecurity requirements. will also	nal training program covering both the biosafety
annual report regarding this research is submitted to the copy of this report is submitted to OSP upon request.	BU Institutional Biosafety Committee and that a
Please note that the approval to lower containment applies only to the cloning of full-length LLOV virus cDNA (as well as to other RG4 virus cDNAs previously approved) in E. coli K 12 strains and is limited to and to her work with these particular RG4 viruses, i.e. it does not extend to any other investigator, or to the full-length cDNA of other RG4 RNA viruses.	
We also understand that experiments involving work with live recombinant LLOV virus will occur under biosafety level 4 containment at the NIH Rocky Mountain Laboratory, pending review of the planned work by CDC-DSAT. Please let us know whether CDC-DSAT determines that work with this recombinant virus is under their purview. If it is not, then work with the with live recombinant LLOV virus falls under the NIH Guidelinesfor Research Involving Recombinant or Synthetic Nucleic Acid Molecules (NIH Guidelines).	
Thank you for your conscientious and continued adherence to the NIH Guidelines.	
Jessica Directo Emerg Office	M. Tucker, PhD. or, Division of Biosafety, Biosecurity, and ing Biotechnology Policy of Science Policy National es of Health
Enclosures: "Points to Consider" guidance Approval letter dated 7/15/2016	
cc:	