

Biosafety Level 4 Zoonotic Laboratory Network

VISION: BSL4ZNet is a Network of government-mandated organizations with national level responsibility for protecting animal and human health by working together to enhance knowledge, competency and capacity to meet current and future high containment needs.

MISSION: To establish & sustain trusted BSL4 partnerships to strengthen international coordination, improve knowledge sharing and leverage capacity for diagnostics, research & training.

4 Established Working Groups: key achievements & outcomes



TRAINING WORLD-CLASS PERSONNEL

➤ To strengthen high containment laboratory personnel training through identification and creation of training opportunities, building a highly trained, collaborative workforce able to respond to emerging procedures.



SCIENTIFIC EXCELLENCE

➤ To promote scientific collaboration and learning within the Network, enhancing diagnostic capabilities, scientific collaborations & collective advice for decision makers.



INSTITUTIONAL COOPERATION

➤ To promote institutional cooperation and knowledge sharing within the network to allow efficient mechanisms for harmonized exchange of laboratory-based information, such as latest advances in infrastructure and research.



INTERNATIONAL RESPONSE

To strengthen laboratory preparedness and response to potential outbreaks through knowledge sharing activities, leading to a better understanding of the hazards, exposure and vulnerability.

A Networking Opportunity: Recognizing the global need, emerging threats and the timeliness of the opportunity to re-define the current state, decision-makers and subject matter experts from key international organizations came together face to face in Winnipeg, MB (March, 2016) to develop a common vision for the future. A unanimous decision was reached to move forward with a strategic framework for an international Network. Since then, BSL4ZNet has flourished into a productive group that meets virtually through quarterly Steering Committee Meetings and regular Working Group discussions.



Co-Chairs:

Dr. Primal Silva - Chief Science Operating Officer,
Canadian Food Inspection Agency (CFIA) &
Dr. Jeffrey Silverstein - Office of National Programs
Deputy Administrator USDA, Agricultural Research
Service

- Dr. Olga Pena Science Specialist (CFIA)
- Funding: though the Canadian Food Inspection Agency (CFIA); the Canadian Safety and Security Program, Defence Research Development Canada (DRDC) and the Agricultural Research Service, USDA

PARTNERS

COVID-19 Rapid Collaborative Response

COVID-19 Update Meetings (January 2020 - To Date): BSL4ZNet facilitated prompt sharing of knowledge concerning SARS-CoV-2 laboratory diagnostic protocols, survival and spread potential, susceptibility of animal species and countermeasures to control the virus. Sharing COVID-19 research plans has been a main outcome of institutional cooperation during these meetings. An inventory of coronavirus experts across the Network was generated to enhance collaboration among partner organizations.

COVID-19 International Symposium (August - September 2020): A six-part scientific program focused on different COVID-19 topics, including virology, epidemiology, animal studies, diagnostics, vaccines and therapeutics, was organized by BSL4ZNet involving high quality presentations by well recognized experts. This highly successful event attracted an international audience of over 1200 regulatory scientists, academia, government officials, non-profit organizations and industry.

Integrated global capacity to respond to current and emerging high consequence bio-threats through strengthened partnerships.

