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**Recipients:** Veterinarians from all sectors  
**Sender:** EcL laboratory  
**Date:** 2019-02-06  
**Objet:** **Whole genome sequencing - *E.coli***

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Dear clients,

The *E. coli* Laboratory is proud to announce that it is now offering a Whole Genome Sequencing (WGS) service for the genome of *Escherichia coli* isolates from all the different animal species. The information obtained by WGS of isolates allows their identification and characterization to a level of precision never equaled until now at the Laboratory. Thus, genus and species, pathotype, virotype (based on more than 300 factors), serotype O: H, phylogenetic group and ST (MLST) are obtained and included in a detailed report. An antimicrobial resistance profile is also predicted from the detection of resistance genes (based on more than 2000 resistance genes and their variants) and / or their mutations.

WGS has several advantages over conventional PCR and / or agglutination analysis. It provides more information which, put together, allows a better determination of the pathogenicity potential of the isolates and evaluation of their zoonotic potential. In addition, the tracking of isolates from the same clonal lineage becomes possible (on request and under certain conditions e.g. when several isolates are available).

In order to promote this service and to harmonize with the promotional price of the Diagnostic Service of the Faculty of Veterinary Medicine for the sequencing of complete genomes of other bacterial and viral pathogens, the sequencing of complete *E. coli* genomes is offered to you at only \$ 200 per isolate for a limited time.

The isolates should be submitted as live bacteria on agar media by checking the box for "Whole Genome Sequencing" of the submission form.

Do not hesitate to contact our experts for more information.

Regards,

**Dr John Morris Fairbrother, BVSc, PhD**

[john.morris.fairbrother@umontreal.ca](mailto:john.morris.fairbrother@umontreal.ca)

Laboratoire de référence de l'OIE pour *Escherichia coli* (EcL)  
Service de diagnostic  
Faculté de médecine vétérinaire, Université de Montréal  
Complexe de diagnostic et d'épidémiologie vétérinaire du Québec (CDEVQ)  
(450) 773-8521, poste 49091 (laboratoire)  
3200, rue Sicotte  
St-Hyacinthe, QC  
J2S 2M2  
[www.ec-lab.ca](http://www.ec-lab.ca) / [www.apzec.ca](http://www.apzec.ca)