## Gastro-intestinal Outbreak Investigations at the Scottish Microbiology Reference Labs

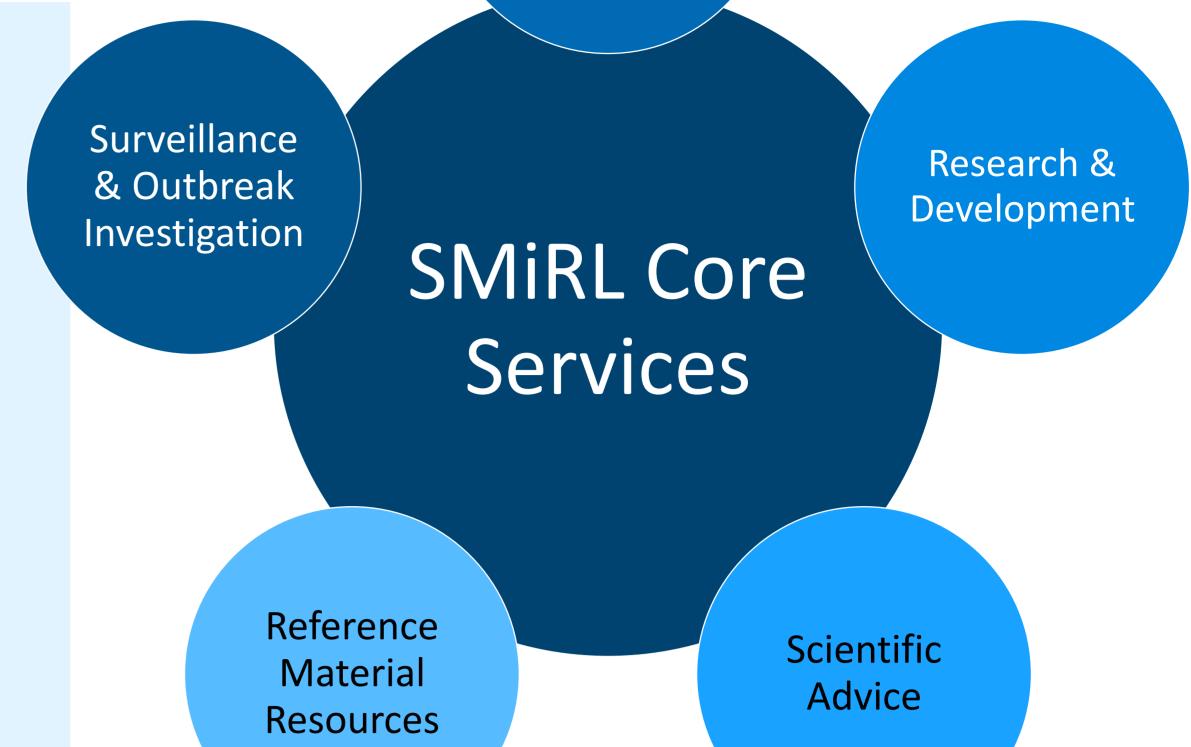
Greater Glasgow and Clyde

**Ross Bacchetti** 

**Trainee Clinical Scientist in Microbiology** 

The Scottish Microbiology Reference Labs (SMiRL), located in Glasgow, offers specialist advice and diagnostic testing for a range of infectious bacterial and parasitic diseases.

Commissioned by National Services Division for Scotland, SMiRL works closely with stakeholders to **provide essential healthcare services**, with support from Public Health Scotland (PHS).



Specialist

Diagnostic

Testing

Gastro-intestinal (GI) outbreak

**investigations** identify the molecular types of circulating gut infections, and how these are spread through populations. SMiRL carries out GI outbreak investigations on:



## **Enteric Bacteria**

- Salmonella
- Shigella
- Clostridioides
- Vancomycin resistant Enterococci (VRE)

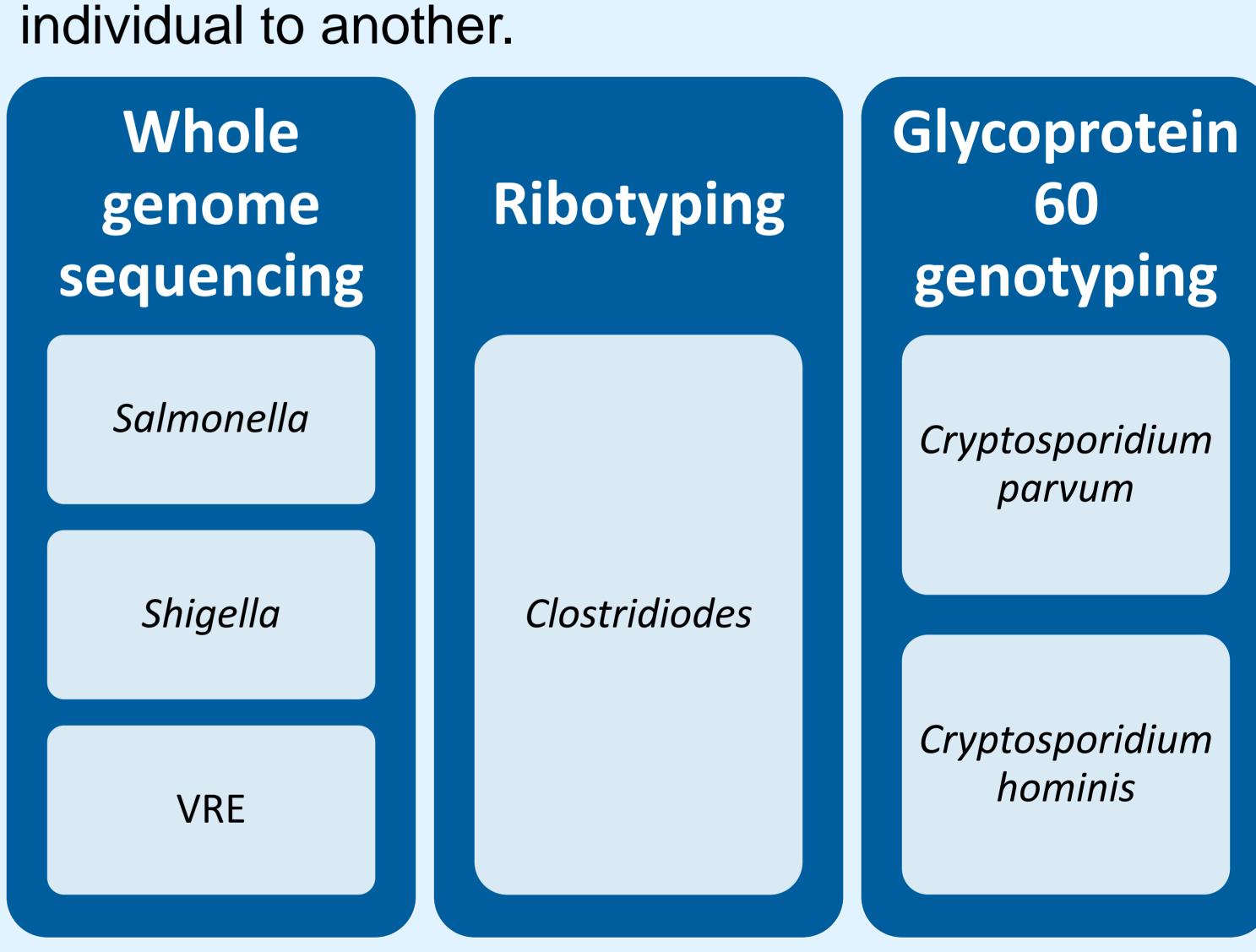


## Parasites

- Cryptosporidium parvum
- Cryptosporidium hominis

Food and water samples can also be tested as part of GI outbreak investigations.

SMiRL uses cutting-edge molecular techniques to profile the genetic codes of gut microorganisms, and track transmission from one



## Sample processing and data analysis involved in outbreak investigations

