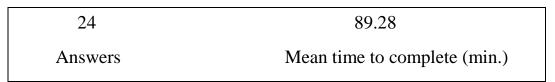
Questionnaire on Toxoplasma gondii molecular (DNA) detection (with a focus on oocysts)



1. Please complete with your details (Name, Institution, Country, Email address)

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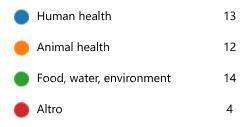
Risposte

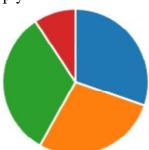
2. In what type of institution do you work? Please select all that apply





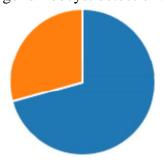
3. What is the main focus of your institution? Please select all that apply





4. Do you currently use molecular (DNA) methods for Toxoplasma gondii oocyst detection?





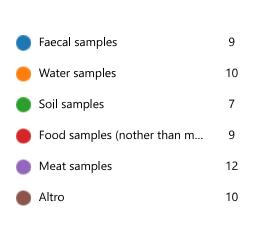
5. Please specify any other methods you use (e.g. microscopy)

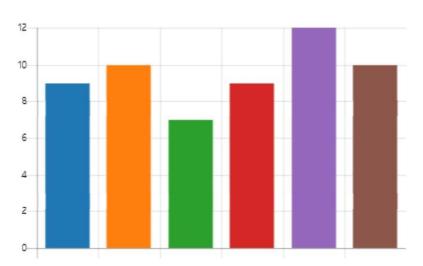
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6. In which type of samples do you detect Toxoplasma gondii by molecular (DNA) methods? Please select all that apply.





7. If you use molecular (DNA) detection methods for Toxoplasma gondii in food and/or meat samples, please specify food items (e.g. type of lettuce; type of meat/meat product):

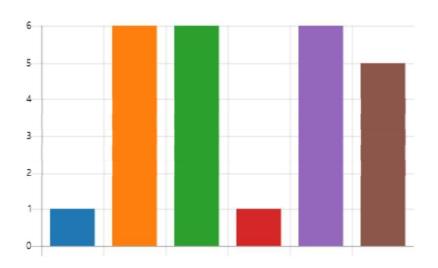
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Risposte

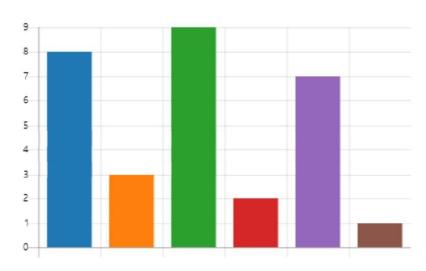
8. If you selected 'faecal samples' above: For processing faecal samples for DNA extraction for detection of Toxoplasma gondii, which methods do you use? Please select all that apply





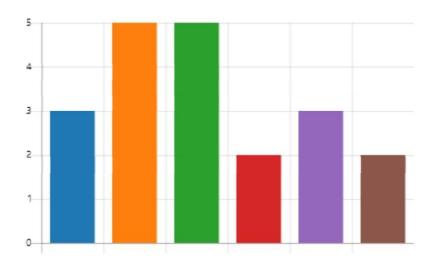
9. If you selected 'water samples' above: For processing water samples for DNA extraction for detection of Toxoplasma gondii, which methods do you use? Please select all that apply

Filtration	8
Density gradient purification	3
Centrifugation	9
Stomacher	2
Washing and pelleting	7
Altro	1

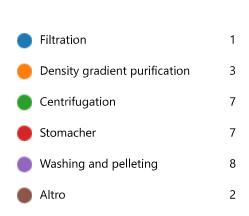


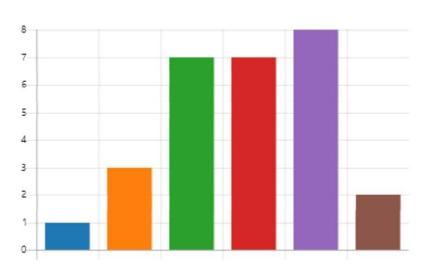
10. If you selected 'soil samples' above: For processing soil samples for DNA extraction for detection of Toxoplasma gondii, which methods do you use? Please select all that apply





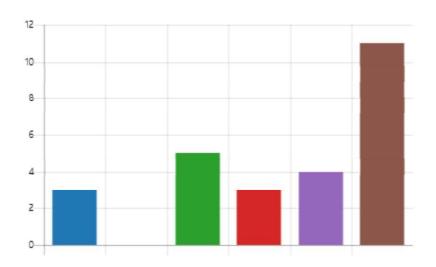
11. If you selected 'food samples (other than meat)' above: For processing food samples (other than meat) for DNA extraction for detection of Toxoplasma gondii, which methods do you use? Please select all that apply





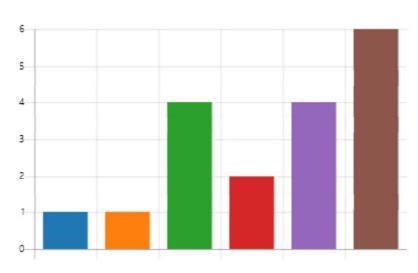
12. If you selected 'meat samples' above: For processing meat samples for DNA extraction for detection of Toxoplasma gondii, which methods do you use? Please select all that apply





13. If you selected 'other samples' above: For processing other samples for DNA extraction for detection of Toxoplasma gondii, which methods do you use? Please select all that apply

1
1
4
2
4
6



14. If you selected "Washing and pelleting", please report composition of buffer(s) for each sample type

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Risposte

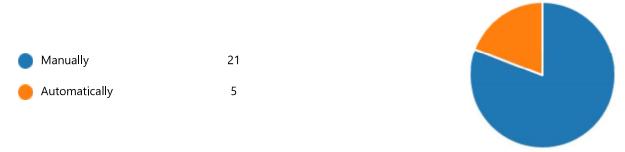
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15. Before DNA extraction, do you perform any pre-treatment of the sample (e.g. bead beating; freezing and thawing)?



16. If YES, please specify

17. How do you extract Toxoplasma gondii DNA for the molecular detection?



18. For manual extraction, which DNA extraction method do you use for the different matrices (if commercial kit, please specify brand and type)?

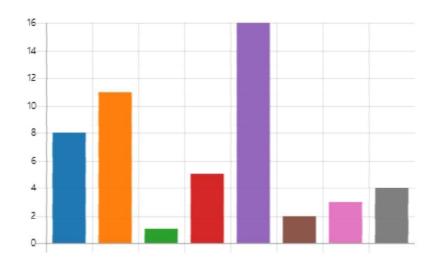
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19. For automatic extraction, which automated extraction system(s) and reagents do you use? Please specify.

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20. What kind of molecular detection method(s) do you use? Please select all that apply.

Conventional PCR	8
Nested PCR	11
Semi-nested PCR	1
Real-time PCR with non-specif	5
Real-time PCR with sequence	16
Digital PCR	2
LAMP	3
Altro	4



21. If you perform qPCR or digital PCR, please report details of the instrument(s) (e.g. brand, model)

18

Risposte

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22. Which is the target gene(s) you use for Toxoplasma gondii molecular (DNA) detection? Please select all that apply.





23. If you apply different molecular (DNA) procedures for Toxoplasma gondii detection , please specify the target gene(s) used for each method (e.g. B1 gene for conventional PCR)

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Risposte

24. What is the amplicon size for each target gene?

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25. Do you use the Toxoplasma gondii molecular detection method for quantification?





26. If YES, please could you provide the algorithm? (quantification is not simply Ct values)

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27. Do you use different molecular detection methods for Toxoplasma gondii for different sample types?





28. If YES, please specify

6 Risposte

29. Do you use an internal amplification control (IAC) in Real-time PCR for Toxoplasma gondii detection?





30. If YES, please specify

7

Risposte

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31. Do you add the control for PCR inhibitors in a separate PCR reaction?



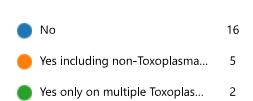


32. If YES, please specify

2

Risposte

33. Do you use a multiplex assay for Toxoplasma gondii molecular detection?





34. If you use multiple Toxoplasma gondii target genes, please specify which ones

Risposte

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35. If NON-Toxoplasma gondii genes are included, please specify which ones

Risposte

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36. Do you use a molecular method for typing of Toxoplasma gondii?





37. What kind of molecular method for Toxoplasma gondii genotyping do you use? Please specify and report reference(s), if available

15 Risposte Risposte più recenti

38. Have you tested the analytical sensitivity of the molecular (DNA) method(s) for Toxoplasma gondii detection?





39. What is the analytical sensitivity (in %) of the Toxoplasma gondii molecular detection method(s) you use (i.e. the ability of a method to detect the target, calculated as the number of positive results relative to expected positive results)?

15

Risposte

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40. How you define your limit of detection (LoD)?

- Based on DNA (the limit of D... 6
- Based on oocysts (the minimu... 13
- Based on tachyzoites/bradyzoi... 6
- I do not define LoD
- Altro 1



41. What is the LoD of the Toxoplasma gondii molecular detection method(s) you use?

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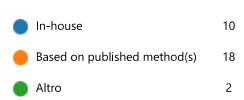
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42. What is the analytical specificity (in %) of the Toxoplasma gondii molecular detection method(s) you use (i.e. the ability of an assay to exclusively identify a target substance or organism rather than similar but different substances)?

15

Risposte

43. How have the molecular methods you use for detection of Toxoplasma	gondii been developed?
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44. Please provide references to the detection method(s)

18

Risposte

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45. Is the molecular method you use validated?

YesNo6



46. If YES, how was the molecular method validated?

According International guidel... 4According to in house guideli... 10Altro 4



47. Please provide reference for the validation procedure or a brief description of the parameters chosen for validation

13 Risposte

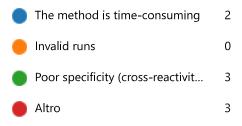
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48. Are you satisfied with the Toxoplasma gondii molecular method you use in the laboratory?





49. If not satisfied, which challenges are you facing? Please select all that apply





50. If you observe poor specificity, please specify cross-reactions

3 snoste

Risposte

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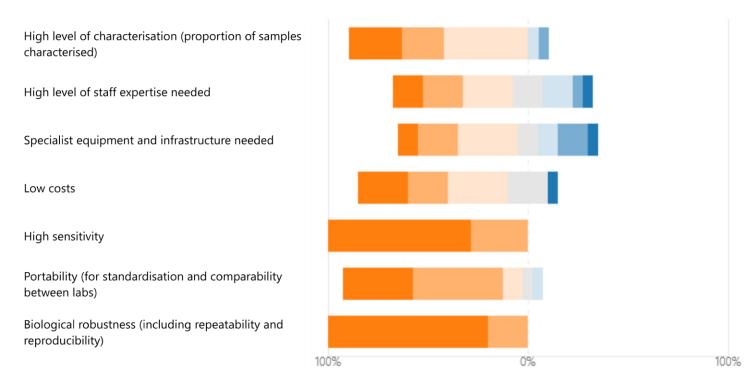
51. With regards to Toxoplasma gondii oocysts molecular detection ONLY, what do you think could be done to improve the method(s)? Please specify

15

Risposte

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52. With regards to Toxoplasma gondii oocysts molecular detection ONLY, please think about the attributes of the molecular detection methods for Toxoplasma gondii in food (other than meat). Please score each attribute (7 = most important, 1 = least important).



53. With regards to Toxoplasma gondii oocysts molecular detection ONLY, what do you think is currently missing for the development of standard methods for the molecular detection, quantification, and characterisation of Toxoplasma gondii in food (other than meat)? Please comment

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54. Thank you for your contribution. If you wish to add any further comment, please do it here.