

Remote-NMR: User Survey

Showing 49 of 401 responses

Showing **all** responses

Showing **all** questions

With filter **q4-is-united-kingdom** applied

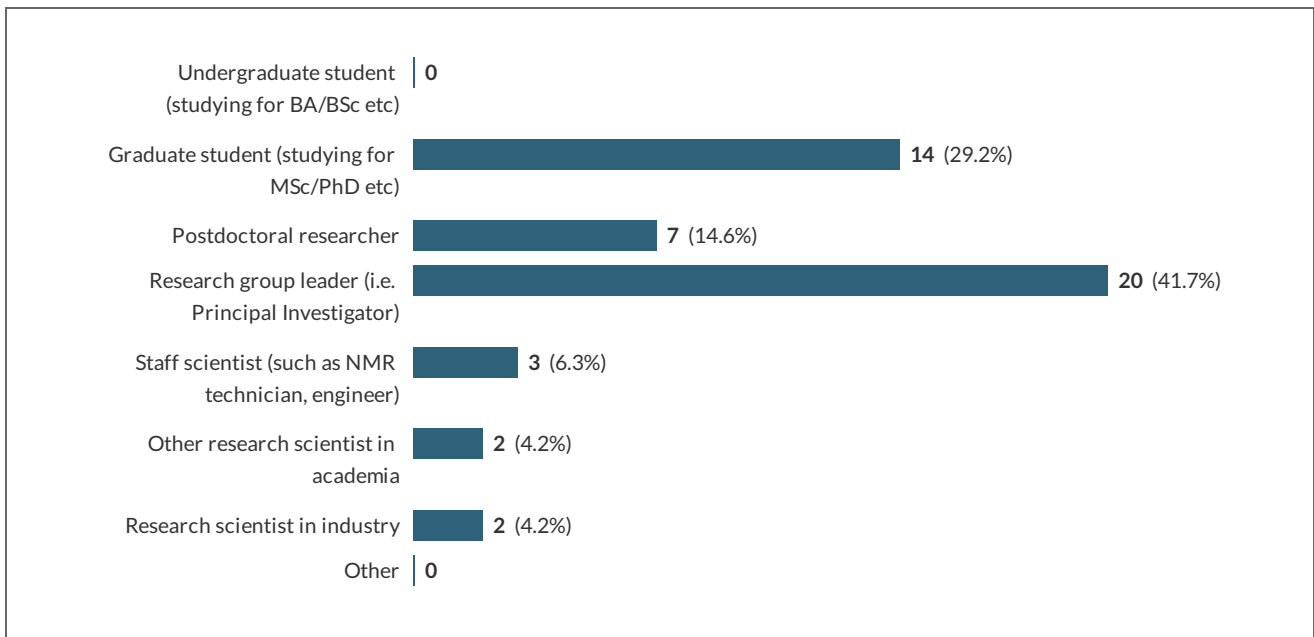
- 1** You are invited to complete this online survey aimed at users of NMR facilities. We will ask questions about the NMR facility(ies) that you use, about your experiences (if any) with remote access to NMR spectrometers and for your views on how remote access can be improved in the future. The survey will be completed anonymously (you will not be asked for your name or email address) but you will be asked to indicate in which country your NMR facility is located. Information that you provide about your experiences with remote access will be included in discussions with other R-NMR project participants and in project reports. All survey data will be stored at the University of Oxford on a secure computer (password protected and behind a firewall) during the duration of the R-NMR project (until 30 June 2025). A version of the survey will also be created for longer-term storage; we intend to keep this version for 3 years beyond the end date of the project. Please confirm that you have read this information and that you are willing to continue with the survey.

Yes  49 (100%)
No | 0

- 2** Please confirm that you are a user of an NMR facility. By user, we mean someone who actively collects NMR data. (Please only complete the survey once even if you have received the link from multiple sources.)

Yes  49 (100%)
No | 0

- 3** Please select the option that best describes you?



3.a If you selected Other, please specify:

No responses

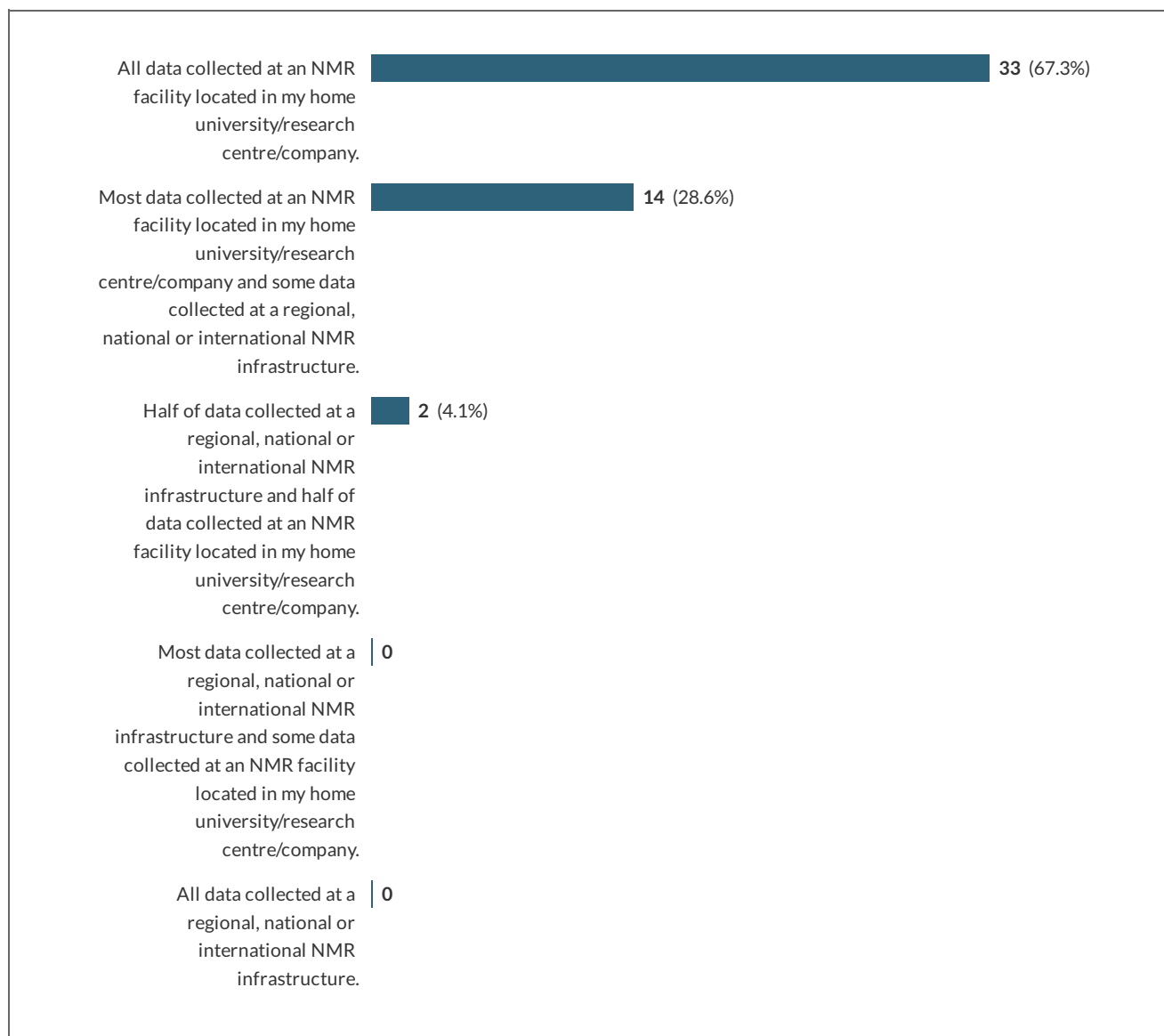
4 In which country do you carry out your NMR research? This is most likely to be the country in which you live. If you also use an NMR facility in another country you will be able to indicate that later in the survey. Select one:

Austria		0
Belgium		0
Bulgaria		0
Croatia		0
Cyprus		0
Czech Republic		0
Denmark		0
Estonia		0
Finland		0
France		0
Germany		0
Greece		0
Hungary		0
Iceland		0
Ireland		0
Israel		0
Italy		0
Latvia		0
Lithuania		0
Luxembourg		0
Malta		0
Netherlands		0
Norway		0
Poland		0
Portugal		0
Romania		0
Serbia		0
Slovakia		0
Slovenia		0
Spain		0
Sweden		0
Switzerland		0
United Kingdom		49 (100%)
Ukraine		0
Other		0

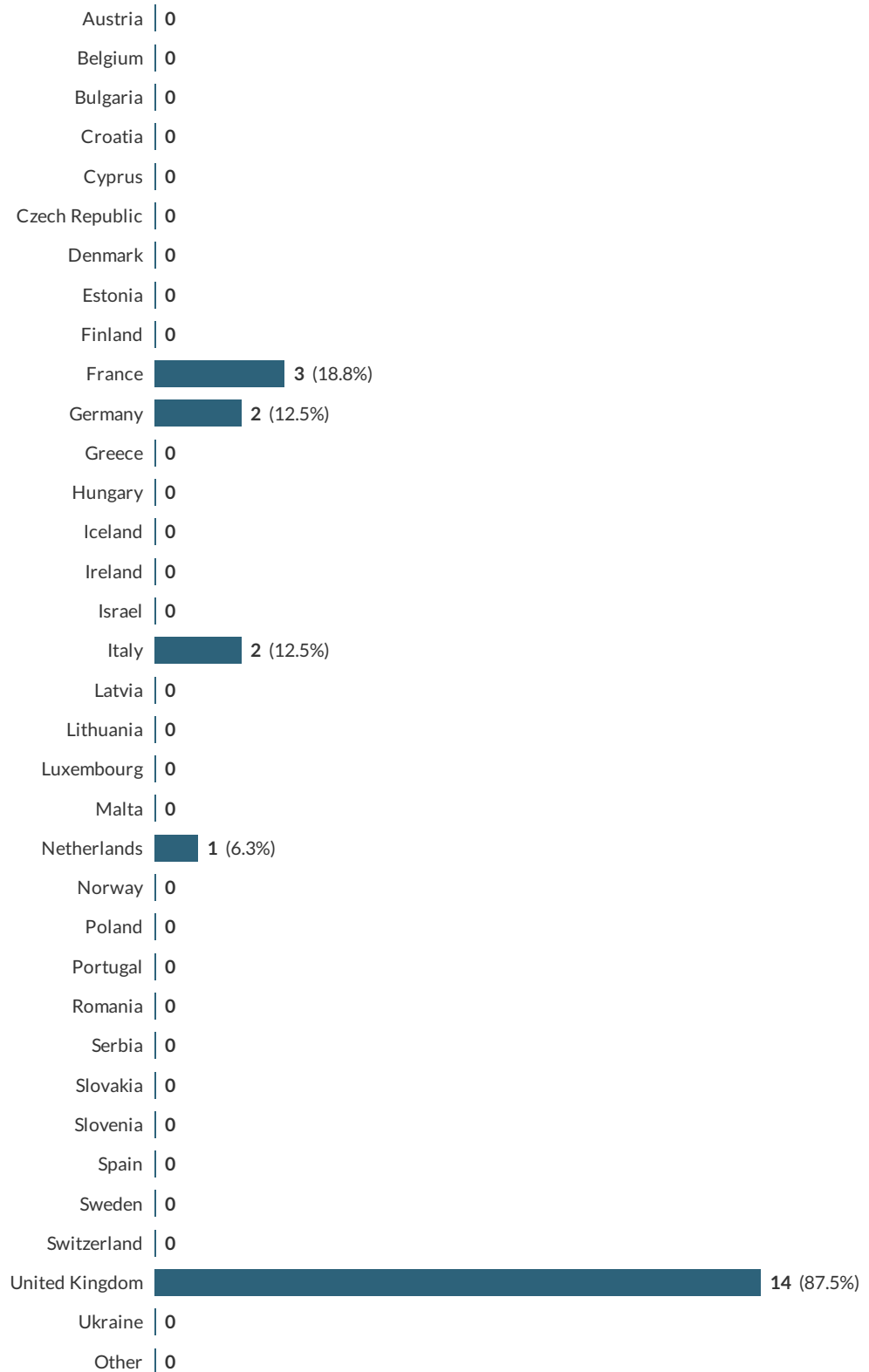
4.a If you selected Other, please specify:

No responses

5 Where do you collect your NMR data? (select one option)



5.a If some or all of your NMR data are collected at one or more national or international NMR infrastructures, instead of your local NMR facility, please specify in which country(ies) these NMR infrastructures are located. Select all that apply:

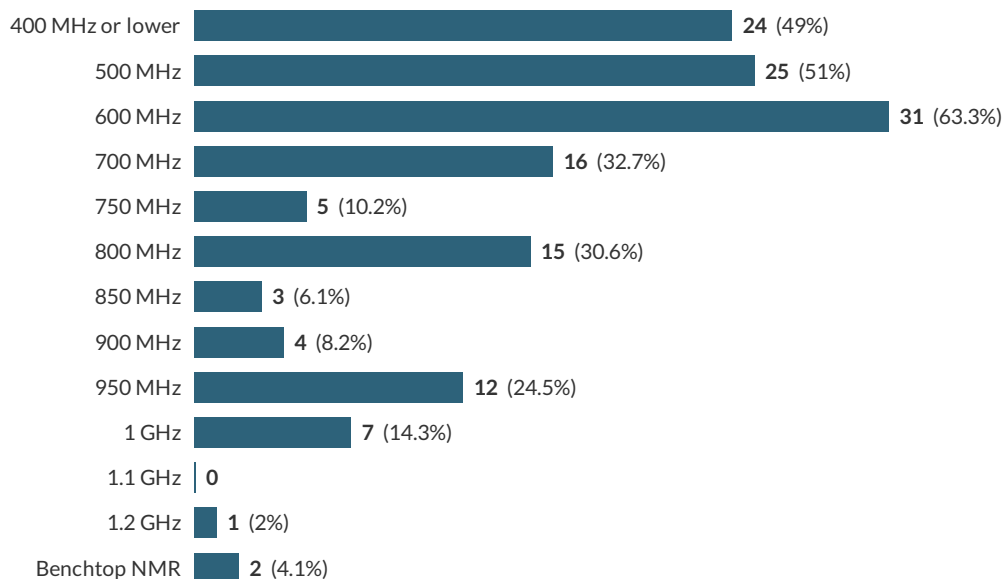


Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

5.a.i If you selected Other, please specify:

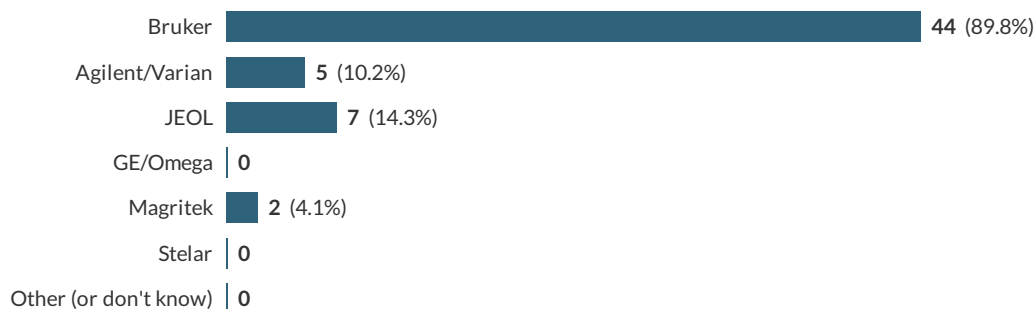
No responses

6 At what ¹H frequencies do you collect NMR data? (select all that apply)



Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

7 What type of spectrometers do you use for data collection? (select all that apply)

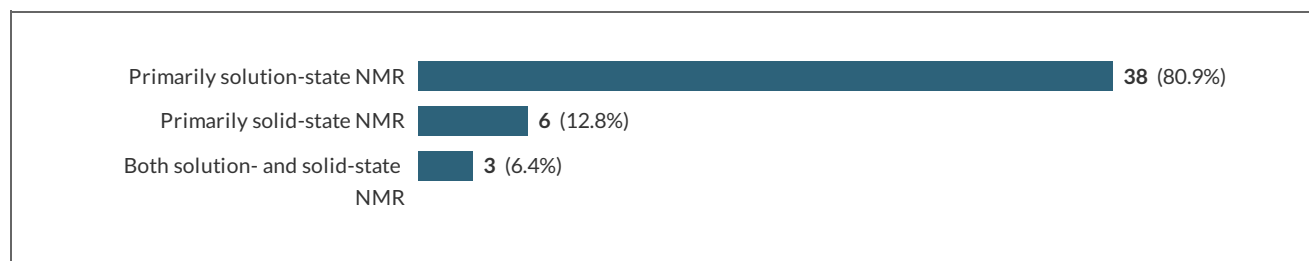


Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

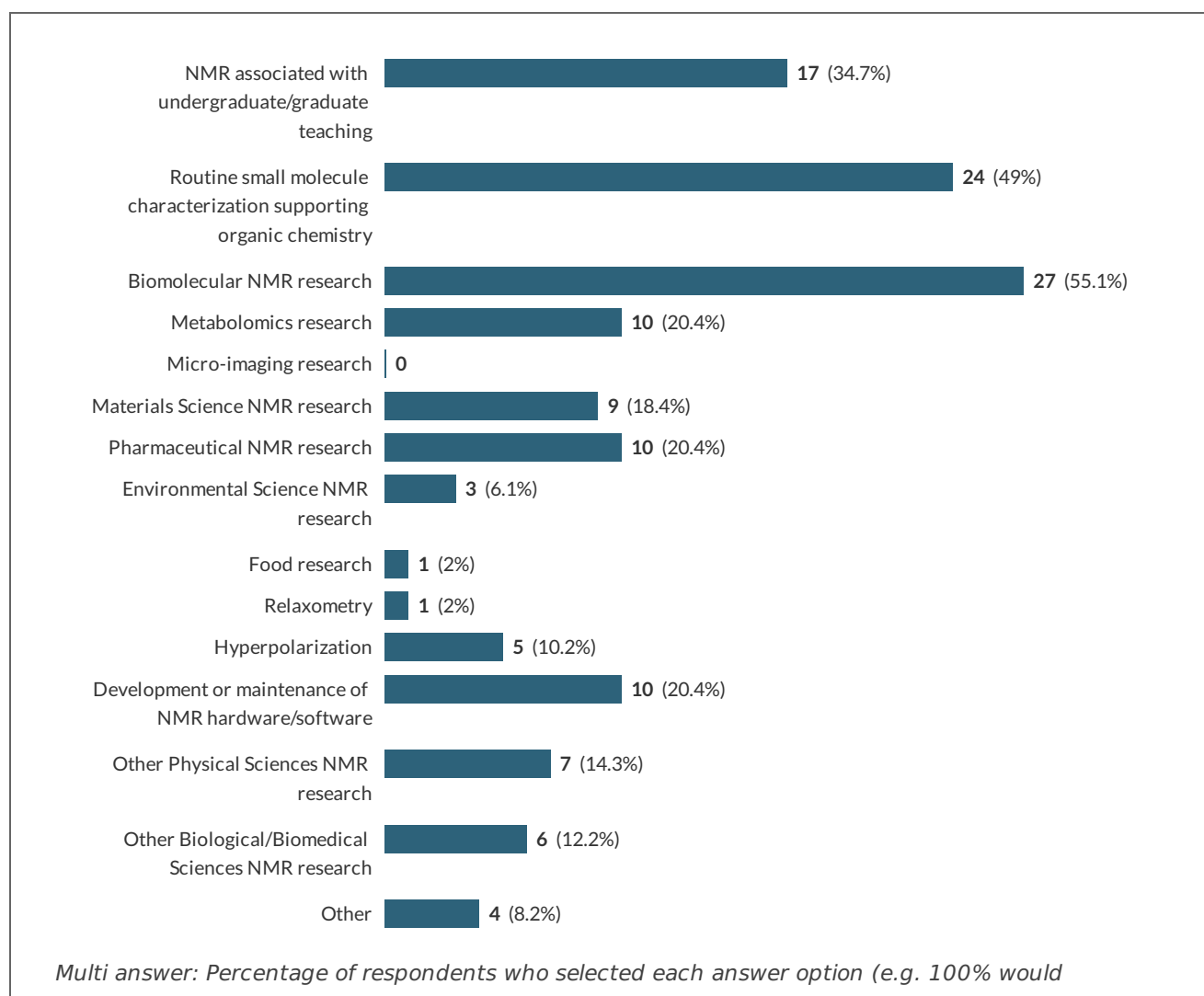
7.a If you selected Other, please specify:

No responses

8 What type of NMR data do you typically collect? (select one)



9 What types of NMR experiments do you carry out? (select all that apply)

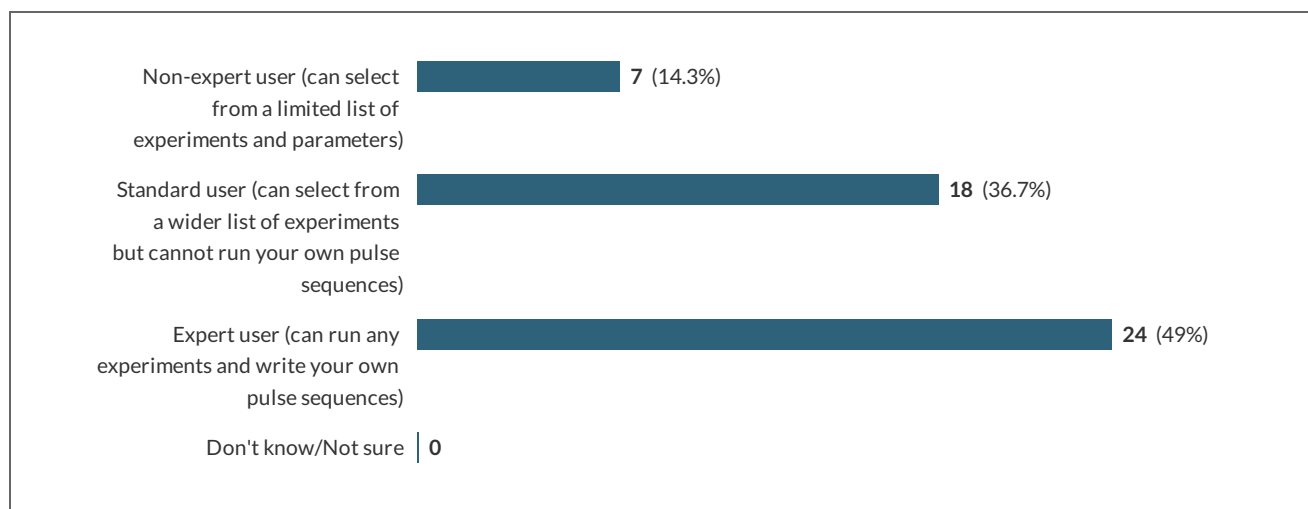


represent that all this question's respondents chose that option)

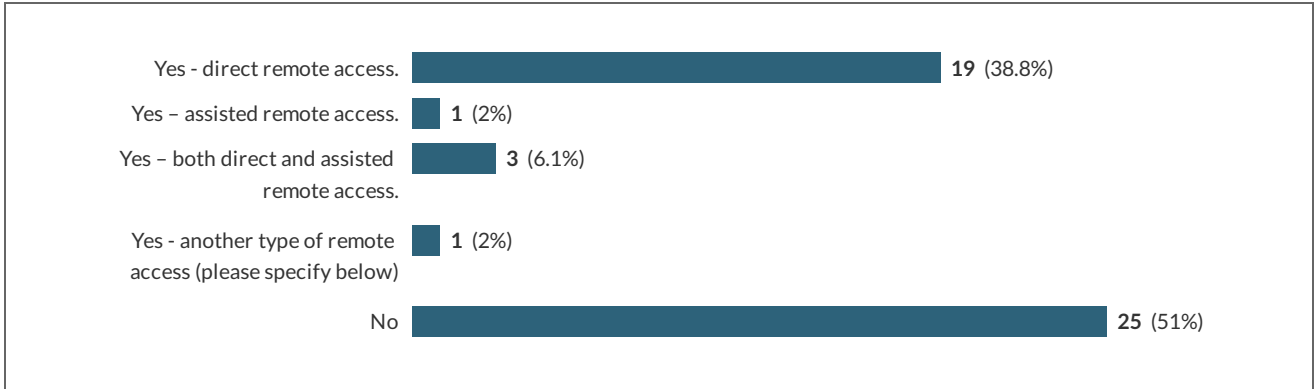
9.a If you selected Other, please specify:

Showing all 4 responses	
Structure Elucidation of Natural Products	987038-987020-104004509
Organometallics research	987038-987020-104039591
Reaction monitoring	987038-987020-104677232
Routine small molecule characterization supporting inorganic/organometallic chemistry Kinetic Studies and reaction monitoring	987038-987020-104678345

10 How would you categorize your level of expertise in operating NMR spectrometers? (select one)



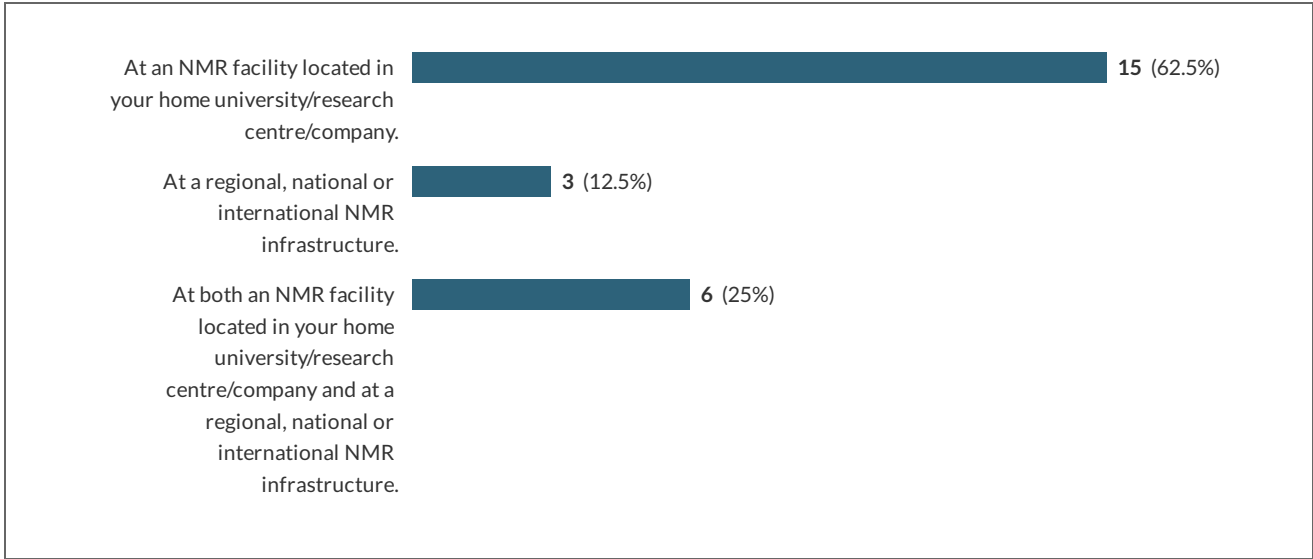
11 Prior to, during and since the Covid19 pandemic, have you collected NMR data via remote access? By remote access, we mean that either 1) you directly operated the NMR spectrometer by remote login to the NMR spectrometer computer (direct remote access), or 2) you communicated via a computer linkup (Zoom/Teams etc) or telephone with a local operator who controlled the NMR spectrometer based on the information you provided (assisted remote access), or 3) some other type of remote access.



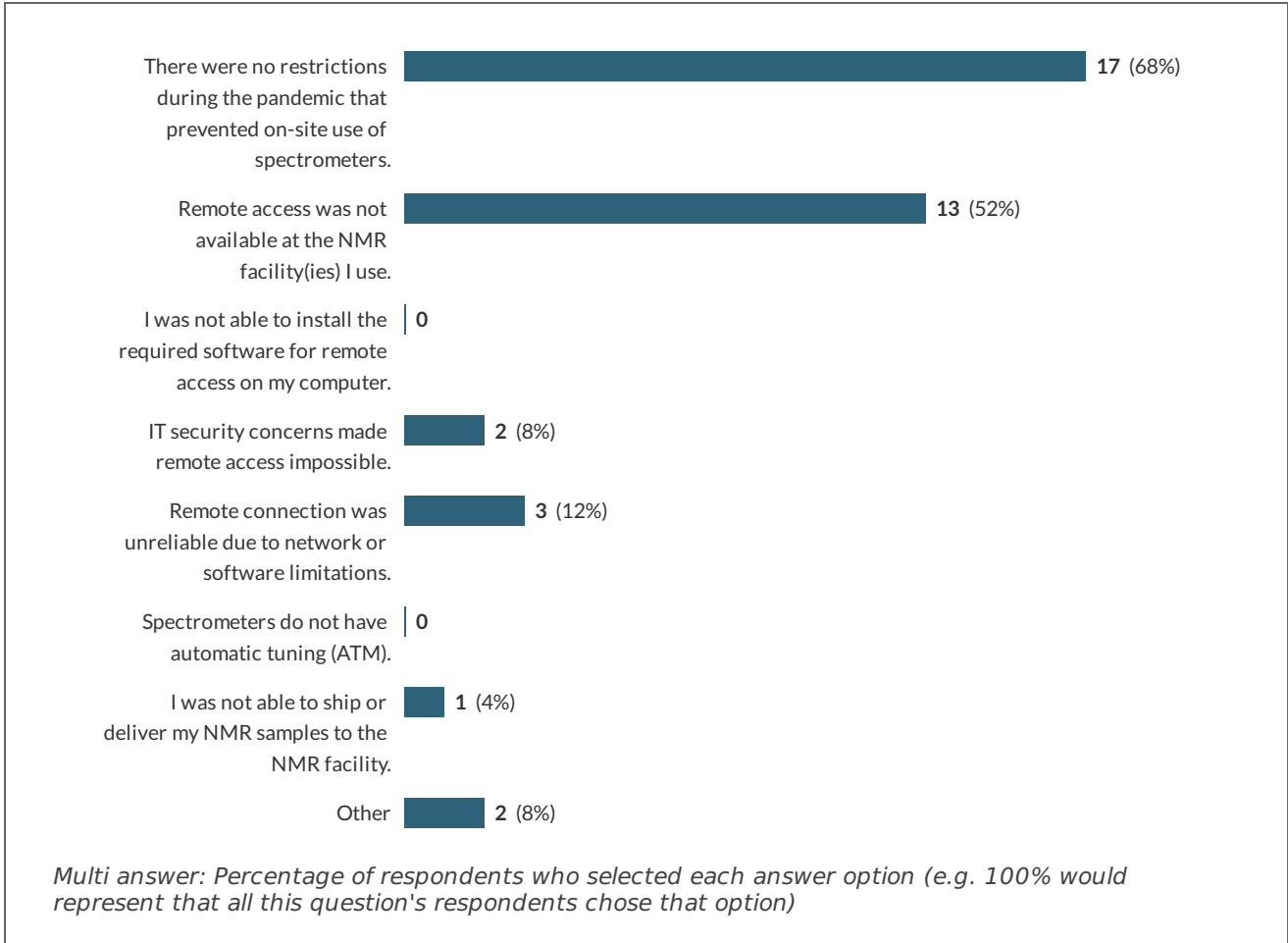
11.a If you would like to provide more detailed information about your mode of remote spectrometer access then please fill in the text box.

Showing all 16 responses	
Our company shipped samples to a nearby university with listed experiments.	987038-987020-103842897
Via locally established VPN link	987038-987020-104005042
Remote access to spectrometer via ssh and VNC viewer, enables full access of spectrometers equipped with sample changers and automatic tuning and matching.	987038-987020-104036834
Remote access only after covid-19 pandemic Access is granted by and monitored by facility manager who decides if allowed for an individual to use independently	987038-987020-104235459
VNC over ssh tunnels, NoMachine	987038-987020-104652020
I used to have a core MRC grant but then I switched to working on systems of high MW intractable to NMR but recently wish to do NMR on nucleic acid components of the DNA-protein complexes Rusing NME	987038-987020-104651420
My previous remote access was via the 900 MHz NMR instrument at HWB-NMR in Birmingham. After attending for a day, setting up experiments etc I would then remote log on to monitor and set up further experiments based on the results of the initial ones. This to me was the real power of remotes access - a long block of time and interacting as if it was your own spectrometer.	987038-987020-104674153
Via Teams Login as though I was sat with the spectrometer	987038-987020-104676884
remote access to IconNMR	987038-987020-104678345
Spectrometers accessed using Chrome Remote Desktop. This has worked almost flawlessly. Issues: Samples being removed from sample changer carousel by other users If spectrometer does not have, or if sample is unstable or time critical, clearly cannot use remote access, user must be physically present at spectrometer	987038-987020-104679564
direct remote access using vpn server	987038-987020-104731960
Use VNCViewer to access the computer controlling the spectrometer remotely	987038-987020-104737700
Interaction with remote staff.	987038-987020-104995202
Access was usually via a VNC session on the computer controlling the spectrometer. Access was also performed on occasion using TeamViewer.	987038-987020-105046974
TeamViewer	987038-987020-105225587
Used Teamviewer.	987038-987020-105235641

11.b Where has remote access been provided? (select one)



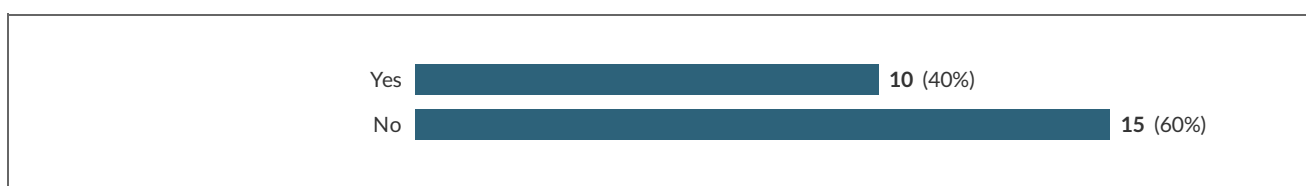
11.c Why have you not used remote access to NMR spectrometers? (select any that apply)



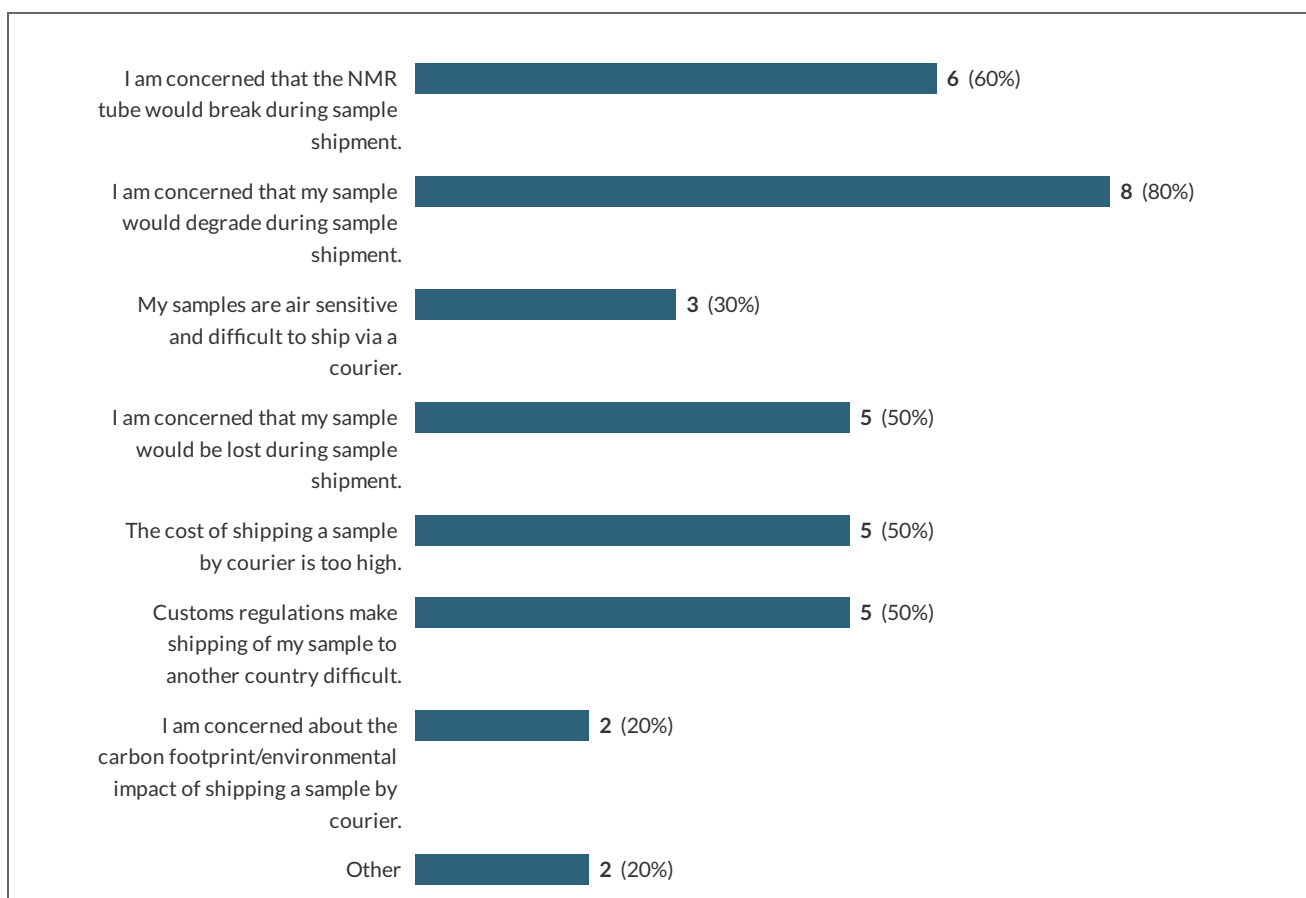
11.c.i If you selected Other, please specify:

Showing all 2 responses	
Have not started my PhD until September 2020 and my masters project was stopped in March 2020	987038-987020-104004894
I have not been an NMR user for very long and so have not encountered any restrictions during my time - however my research facility was under restrictions for much of the early pandemic preventing on-site work.	987038-987020-104024542

11.d Do you consider sample shipment/delivery to an NMR facility to be a barrier to remote spectrometer access?



11.d.i If yes, what are your main concerns about sample shipment? (select all that apply)



Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

11.d.i.a If you selected Other, please specify:

Showing all 2 responses	
I like to have my results as quickly as possible	987038-987020-104042865
Many of my samples are for kinetic studies and so need to be prepared immediately before analysis.	987038-987020-104677759

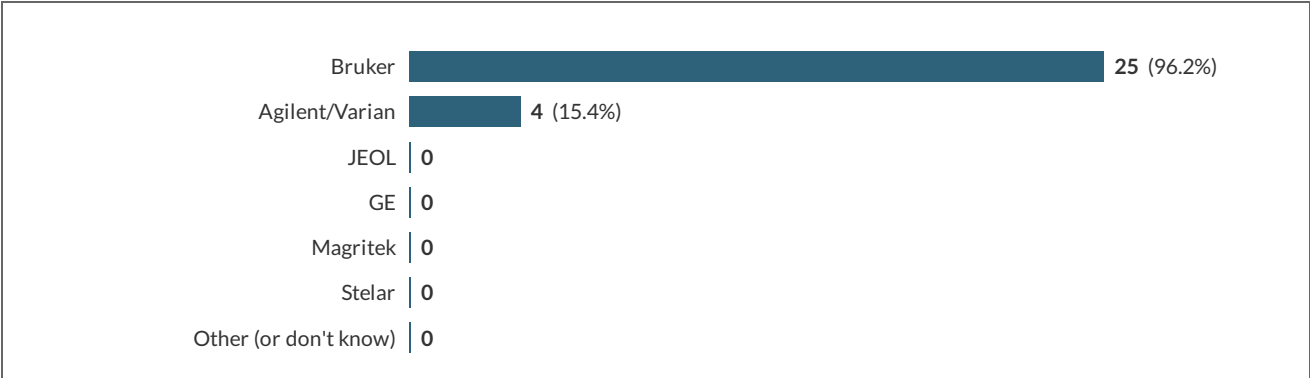
11.e The aim of the Remote-NMR project is to develop a common framework for remote spectrometer access taking into account best practice across the EU/UK. Standardized training for remote access will also be put in place. Once this has been completed, would you be interested in remote access to the spectrometers you use?



12 If you have used any type of remote access (direct, assisted or another type) then select 'Yes' to proceed to further questions about your experiences with remote access. If you have not used any type of remote access then select 'No' to proceed to the end of the survey.



13 What type of spectrometers were available for remote access? (select all that apply)

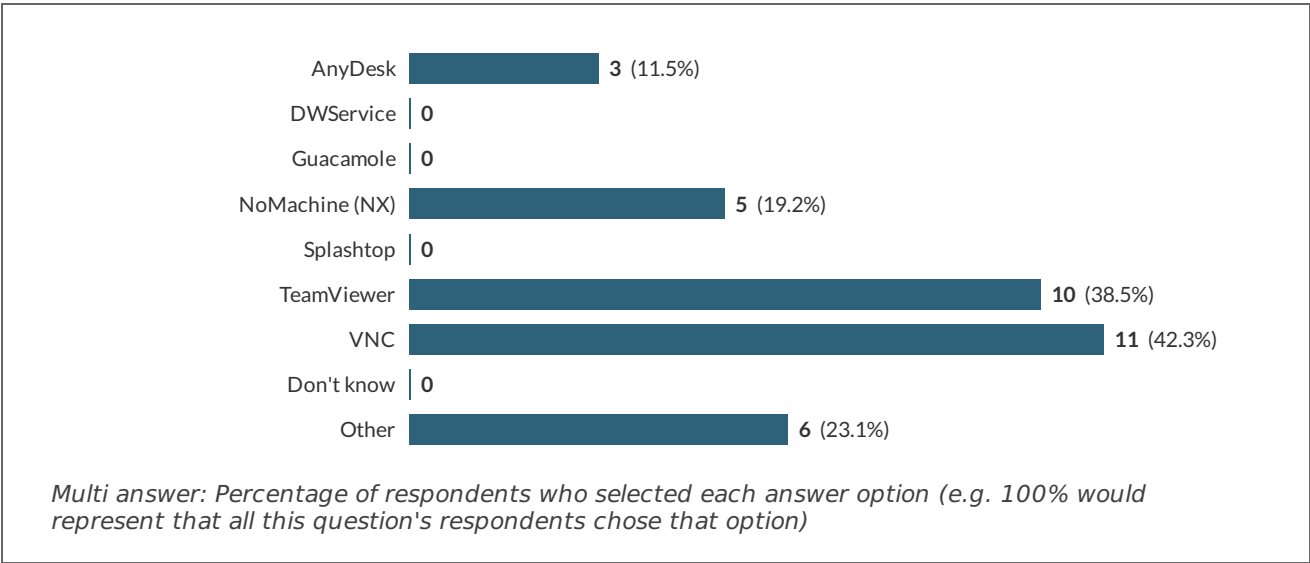


Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

13.a If you selected Other, please specify:

No responses

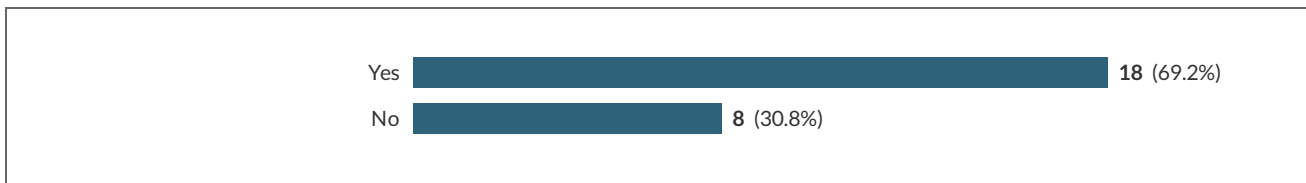
14 What software was used for remote access? (select all that apply)



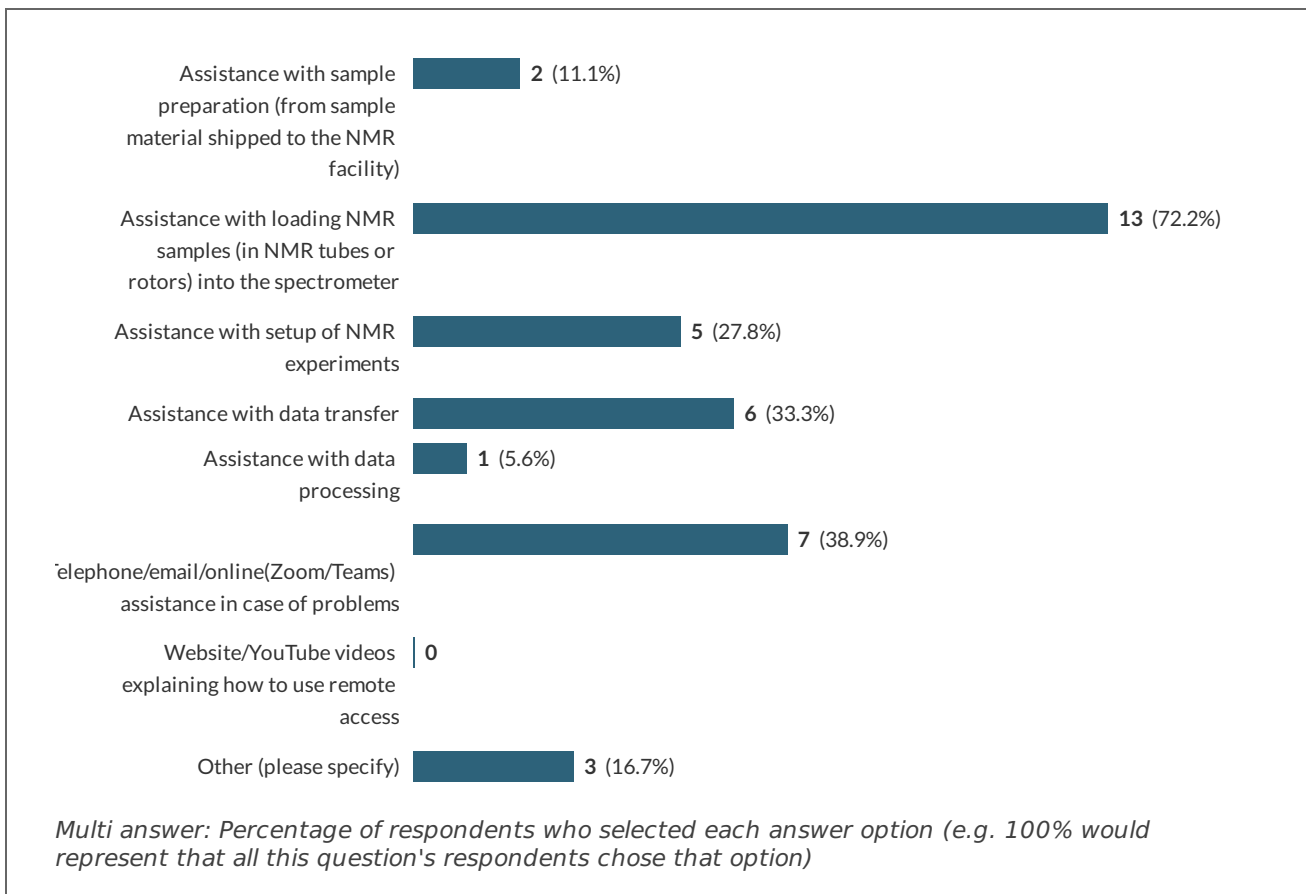
14.a If you selected Other, please specify:

Showing first 5 of 6 responses	
See previous answer for assisted remote access	987038-987020-103842897
sent samples a while back to the Utrecht facility	987038-987020-104651420
iconnmr	987038-987020-104678345
Spectrometers accessed using Chrome Remote Desktop. This has worked almost flawlessly.	987038-987020-104679564
windows remote desktop	987038-987020-104700377

15 As a remote user, were you provided with support by the NMR facility staff?



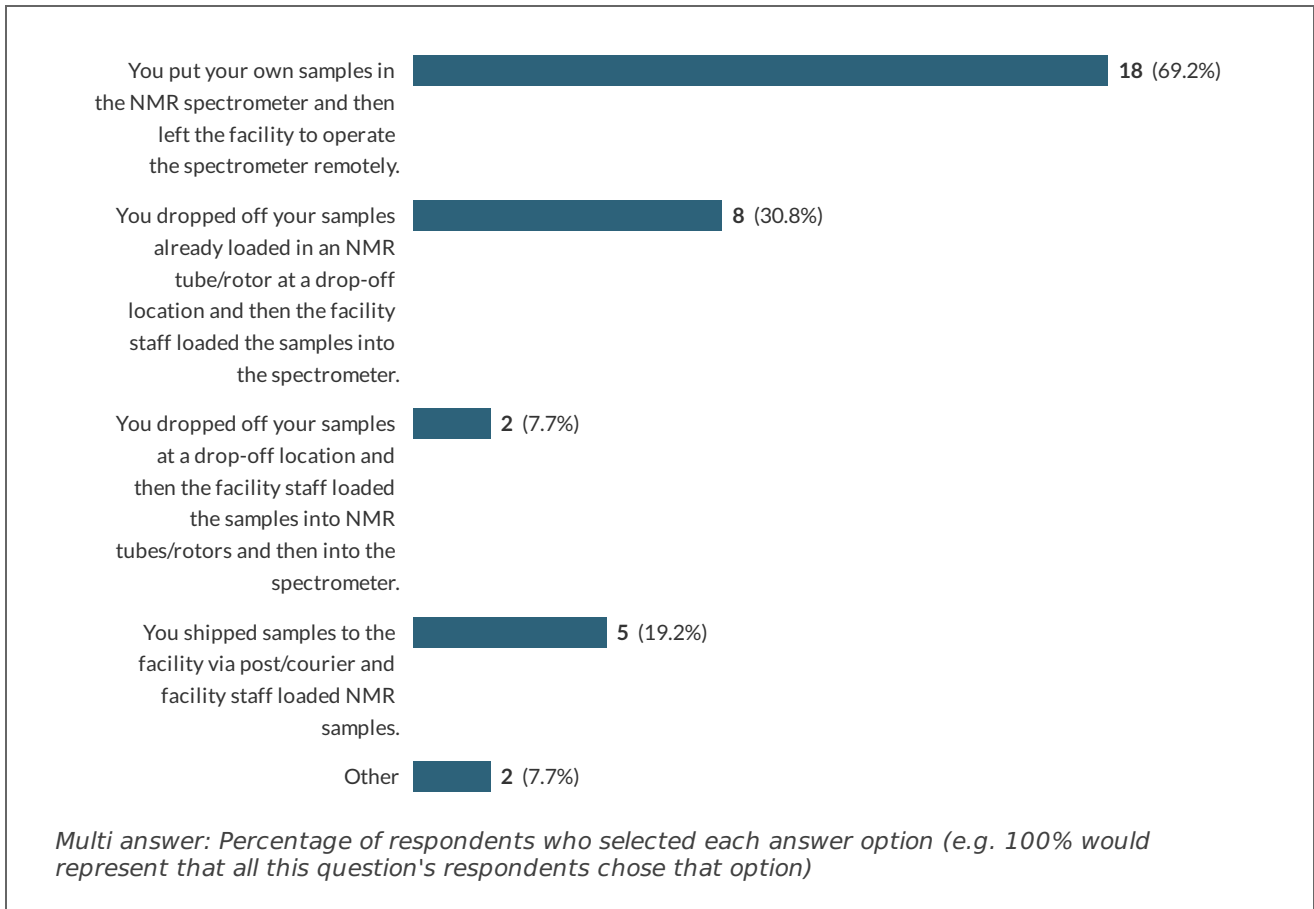
15.a If yes, what type of support was provided? (select all that apply)



15.a.i If you selected Other, please specify:

Showing all 3 responses	
Training in how to connect to the spectrometers from a remote location	987038-987020-104004509
Made up the samples and sent them through to the EU facility in Utrecht and in the past made up the samples and went to B'ham where they were shimmed and recorded by Sara Whittaker	987038-987020-104651420
Description of how to setup remote access on my computer	987038-987020-104737700

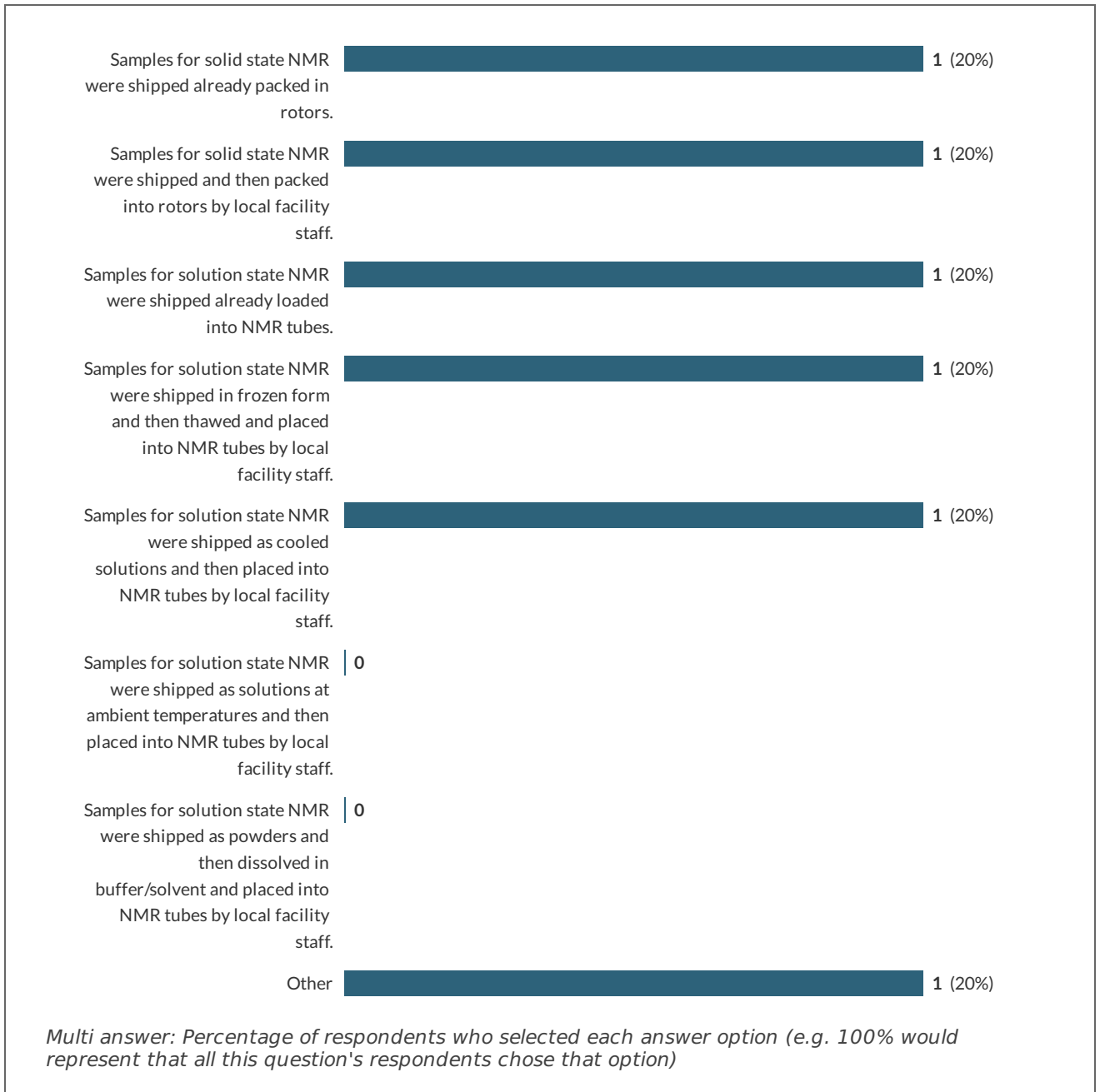
16 How were your NMR samples delivered to the NMR facility and loaded into the NMR spectrometers? (select all that apply)



16.a If you selected Other, please specify:

Showing all 2 responses	
I work on other peoples samples. Either they or other facility staff load the sample into a sample changer and provide me with information on its location	987038-987020-104004509
I work in the same location as NMR facility, so was happy to run all experiments myself.	987038-987020-105235641

16.b If you shipped samples to the NMR facility via post/courier, could you provide more information about how this was done? (select all that apply)



16.b.i If you selected Other, please specify:

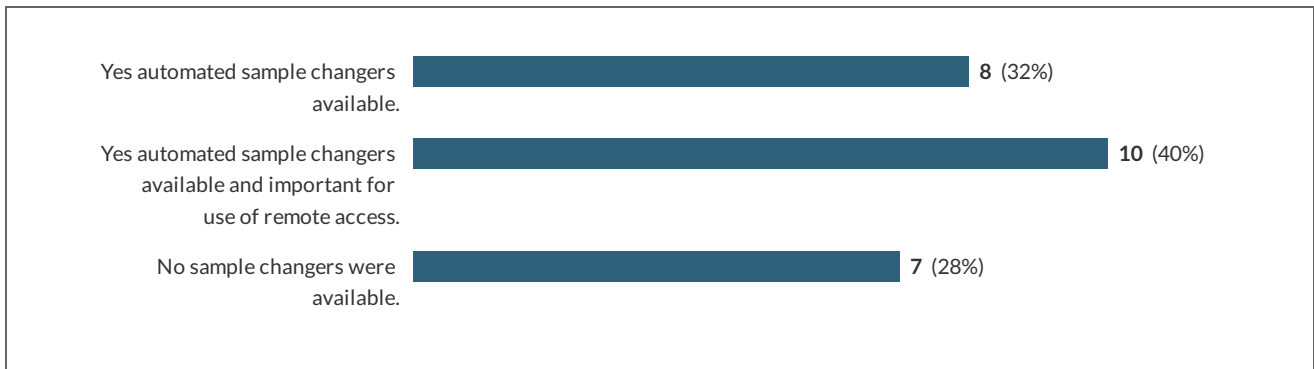
Showing 1 response	
Metabolism of cells	987038-987020-104995202

16.c In the text box below, please enter any additional information about sample shipping? (such as courier company used, special packing materials used to prevent damage to samples, any other

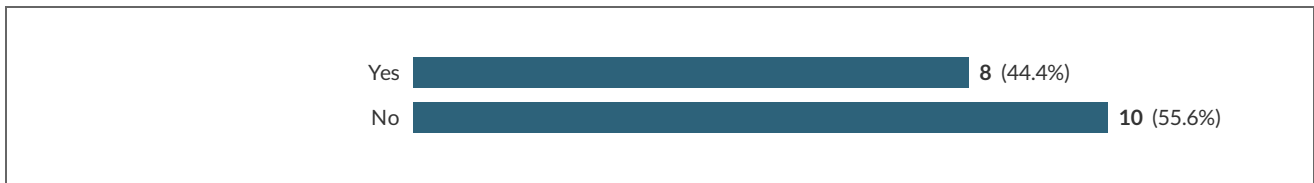
precautions taken, procedures for transnational sample shipping etc).

Showing 1 response	
Companies used were FedEx, Roadrunners (Nottingham), BioCair	987038-987020-105046974

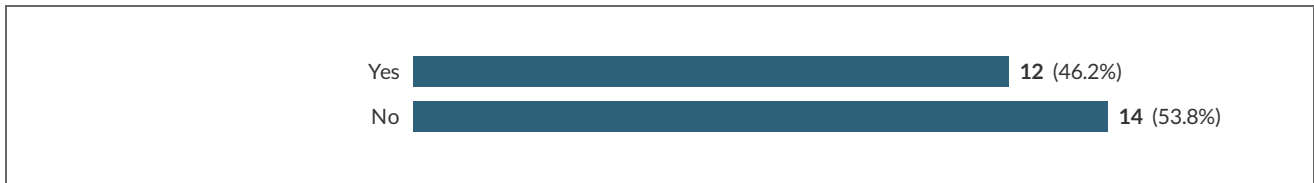
17 Are spectrometers you used for remote access equipped with automatic sample changers and were these important for your use of remote access?



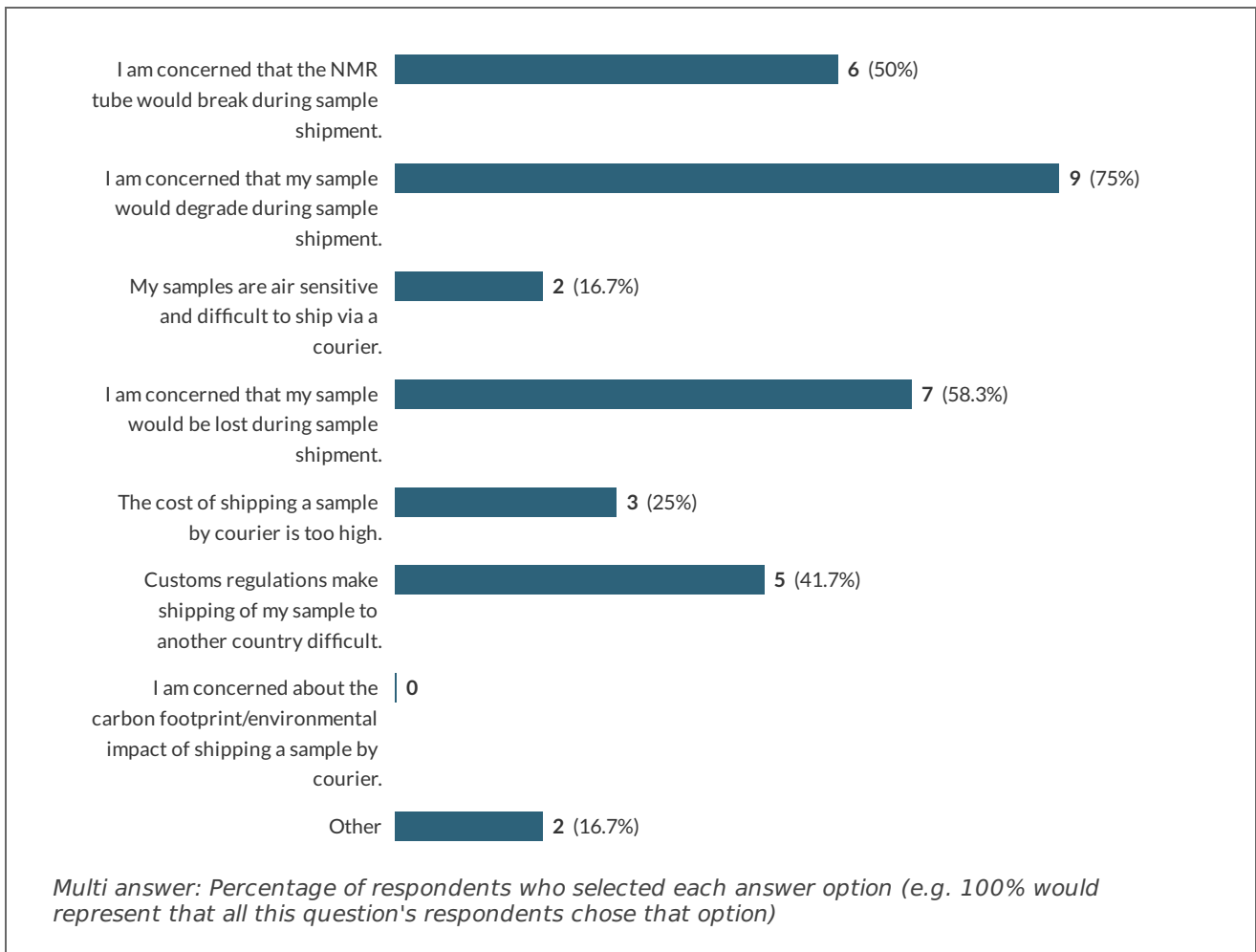
17.a If yes, was the sample changer temperature controlled (i.e. are samples stored at a specified temperature before insertion in the spectrometer)?



18 Do you consider sample shipment/delivery to an NMR facility to be a barrier to remote spectrometer access?



18.a If yes, what are your main concerns about sample shipment? (select all that apply)



18.a.i If you selected Other, please specify:

Showing all 2 responses	
An effective 24 h turnaround on NMR samples was very disruptive to working.	987038-987020-103842897
Safety. Many samples will be in chloroform or other controlled solvent	987038-987020-104679564

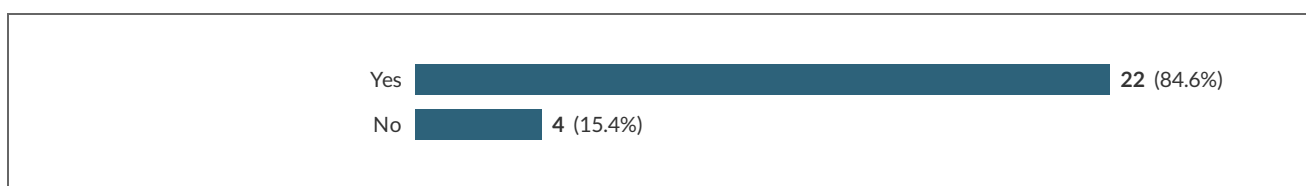
19 What bottlenecks or other problems did you identify in using NMR spectrometers by remote access? Do you have any suggestions about how remote access could be improved?

Showing all 18 responses	
I think sample shipping is the biggest problem. I run experiments for external users and many/most of these would rather travel to our facility with their sample than shipping the sample.	987038-987020-103832699
None, generally it was excellent and I would be happy to do all my research remotely.	987038-987020-103832964

research remotely	
The main problem, by far, was convincing our IT department to open the ports necessary to access the spectrometers. It took us years to convince them that this was safe.	987038-987020-103947685
Remote access was mostly for monitoring experiments set up in person (i.e. not remote).	987038-987020-104005042
Interactive operations such as Phasing can be tricky due to the slower response. A fast internet connection is a pre-requisite.	987038-987020-104004509
Speed of Internet connections and restriction of access for multiple users. This is because I have archaic systems.	987038-987020-104030135
Unable to perform hyperpolarization experiments remotely. Operation of hyperpolarization infrastructure is manual.	987038-987020-104036834
Navigating vnc port setups, ssh connections, tunnels, firewalls etc is not for the beginner! Equally, I'd be concerned to let inexperienced users loose remotely without supervision. The potential to get something wrong due to network lag, or a small screen size, is higher than physical presence next to the spectrometer.	987038-987020-104652020
I have been doing NMR for the past 42 years, at the start on 100 MHz and then during a 3 year postdoc in the Netherlands on the Groningen 360 MHz in Rob Kaptein's lab and then on the 500 MHz on the Netherlands facility in Kees Hilbers lab in Nijmegen Shimming and collecting myself. Then I used a 500MHz at Yale which was a home built spectrometer and moved to doing more crystallography due to the size and correlation time of the complex. Worked with students on the MRC NMR spectrometers to solve several protein complexes in the HIV area where we made the samples and let the expert spectroscopists shim and record spectra as well as use the Utrecht NMR EU facility with local experts recording and the same in B'ham at 900 MHz them.	987038-987020-104651420
Perhaps engage with a specialist shipping company that would serve universities, be well versed in what these samples entailed - are simple to use as there is some form of agreement governing their use so arranging the shipment is seamless. I would like it to be as simple as ordering a takeaway but you know the sample will be delivered same day to an NMR centre.	987038-987020-104674153
for routine air/moisture/temperature stable samples i do not see any bottlenecks. However my samples are air/moisture sensitive and frequently only stable at lower temperatures and therefore i like to run samples myself, and in as shorter time as possible to get the best data. I dont think it is possible to get any quicker than the computer directly at the machine. For those that are more on the stable side, it is handy to be able to add additional experiments remotely	987038-987020-104678345
Samples being removed from sample changer carousel by other users and/or technical staff	987038-987020-104679564

If spectrometer does not have, or if sample is unstable or time critical, clearly user must be physically present at spectrometer	
I believe remote access removes bottlenecks rather than creates them and would not want to go back to pre-covid days when we did not have remote access to our spectrometers.	987038-987020-104700377
Overall, it's OK and possible to do for an experience user. it's very useful to have a facility manager on the site in case any network/hardware problems. tuning could be quite painful and slow sometime. it's relatively easy to do a standard setup but it's difficult to do anything more complicated (e.g., a new pulse-sequence setup, etc). big screen on home computer is definitely a benefit.	987038-987020-104731960
Occasional drop outs which require being in the facility to reset the remote access software.	987038-987020-104737700
Complicated in terms of secure access. Vnc gives best performance but must be run via a vpn.	987038-987020-104995202
At the moment the system used required a physical login to the spectrometer computer. This require a site visit or passing on login details to a staff member which compromises security. A method of securely logging in from a remote location would greatly aid the utility of the remote access whilst retaining security.	987038-987020-105046974
I am happy to run all my own experiments, however I would prefer if all our NMR spectrometers had Teamviewer.	987038-987020-105235641

20 Are you continuing to use remote access to NMR spectrometers now that some/many/all 'pandemic' restrictions have been lifted?



21 If you have further information that you would like to provide, please enter this in the text box below.

Showing all 8 responses	
For me Remote working is now the norm.	987038-987020-104004509
pointless survey	987038-987020-104008044
High time remote access for NMR users is sorted. So well done for doing this survey and thinking about remote access NMR. Good luck with your initiative.	987038-987020-104030135
/	987038-987020-104042865
I think remote access is a good idea and I would be keen to see this installed in my working institute.	987038-987020-104069999
There are two problems that I would like to use the highest fields at 1 GHz to solve as I need the dispersion for these DNA systems. They are part of a DNA-protein complex for which we wish to study the DNA component in solution as so far we have not been able to crystallise them - and anyway we would like to see them independent of the crystal lattice	987038-987020-104651420
The remote option of NMR device would be better for my studies, even if I did not used in-person. I am encouracing to build an infrastructure about R-NMR. Cheers.	987038-987020-104682518
Remote access in our facilty in Leeds, UK was initiated during the pandemic, but has since proven extremely useful. In particular, the ability to set up and run experiments/change samples at anti-social hours from home has been very helpful.	987038-987020-104737700