ORR12 FR Gathering - Live

Start of Block: Welcome

Q1.1   
   
 Thank you for participating in this survey, which is being carried out by the Research Lifecycle Programme as part of ORR12 - Digital Notebooks and Sample Inventories.  
   
 The project aims to implement at least one digital notebook (with sample inventory, where appropriate) to be centrally-supported by the University. Your answers will be used to inform on the required functionalities of these solutions.  
   
 The survey is designed to be short (< 10 minutes) and you can skip any question bar those on the first page. You will be asked to express your opinion on just a few features of digital notebooks.  
   
 For further information, questions or input, please contact Dr James Bird.

End of Block: Welcome

Start of Block: ID

Q2.1 Which of these role descriptors do you most strongly identify with?

* Established academic (1)
* Early-career researcher (2)
* Postgraduate researcher (PGR) (4)
* Research supporting (Technical) (5)
* Research supporting (Other) (7)
* None of the above (8)

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Q2.2 Which Faculty are you most affiliated with?

* Biology, Medicine and Health (2)
* Humanities (1)
* Professional Services (4)
* Science and Engineering (3)

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Q2.3 Are you member of a Research Institute, Centre or Cultural Institution?

* Interdisciplinary / Research Institute or Centre (5)
* Cultural Institution (6)
* ⊗No (7)

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Display This Question:

If FacultyID = Biology, Medicine and Health

Q2.4 Because you selected Faculty of Biology, Medicine and Health:

Display This Question:

If FacultyID = Biology, Medicine and Health

Q2.5 Which School are you in?

* Biological Sciences (1)
* Medical Sciences (2)
* Health Sciences (3)
* None - Faculty Office (4)

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| Page Break |  |

Display This Question:

If FBMH\_School = Biological Sciences

Q2.6 Which Division are you in?

* Cell Matrix Biology and Regenerative Medicine (1)
* Evolution and Genomic Sciences (2)
* Infection, Immunity and Respiratory Medicine (3)
* Molecular and Cellular Function (4)
* Musculoskeletal and Dermatological Sciences (5)
* Neuroscience and Experimental Psychology (6)

Display This Question:

If FBMH\_School = Medical Sciences

Q2.7 Which Division are you in?

* Cancer Sciences (1)
* Cardiovascular Sciences (2)
* Dentistry (3)
* Development Biology and Medicine (4)
* Diabetes, Endocrinology and Gastroenterology (5)
* Medical Education (6)

Display This Question:

If FBMH\_School = Health Sciences

Q2.8 Which Division are you in?

* Human Communication, Development and Hearing (1)
* Informatics, Imaging and Data Sciences (2)
* Nursing, Midwifery and Social Work (3)
* Pharmacy and Optometry (4)
* Population Health, Health Services Research and Primary Care (5)
* Psychology and Mental Health (6)

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Display This Question:

If FBMH\_School = None - Faculty Office

Q2.9 Which function are you part of?

* Communications, Engagement, Marketing and Student Recruitment (1)
* Estates (2)
* Finance (3)
* IT Services (4)
* People and Organisational Development (5)
* Planning, Compliance and Governance (6)
* Research & Business Engagement (7)
* Student Experience (8)
* Technical Services (9)

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Display This Question:

If FacultyID = Humanities

Q2.10 Because you selected Faculty of Humanities:

Display This Question:

If FacultyID = Humanities

Q2.11 Which School are you in?

* Alliance Manchester Business School (1)
* Arts, Languages and Cultures (2)
* Environment, Education and Development (3)
* Law (6)
* Social Sciences (4)
* None - Faculty Office (5)

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Display This Question:

If HUMS\_School = None - Faculty Office

Q2.12 Which function are you part of?

* Communications, Engagement, Marketing and Student Recruitment (1)
* Estates (2)
* Finance (3)
* IT Services (4)
* People and Organisational Development (5)
* Planning, Compliance and Governance (6)
* Research & Business Engagement (7)
* Student Experience (8)
* Technical Services (9)

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Display This Question:

If FacultyID = Professional Services

Q2.13 Because you selected Professional Services:

Display This Question:

If FacultyID = Professional Services

Q2.14 Which Directorate are you in?

* Compliance and Risk (1)
* Estates and Facilities (2)
* Other (3)

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Display This Question:

If PS\_ID = Compliance and Risk

Q2.15 Which Office are you in?

* Information Governance (1)
* Insurance (2)
* Regulatory Compliance (3)
* Safety Services (4)

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Display This Question:

If FacultyID = Science and Engineering

Q2.16 Because you selected Faculty of Science and Engineering:

Display This Question:

If FacultyID = Science and Engineering

Q2.17 Which School are you in?

* Engineering (1)
* Natural Sciences (2)
* None - Faculty Office (5)

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Display This Question:

If FSE\_SchoolID = Engineering

Q2.18 Which Department are you in?

* Chemical Engineering (1)
* Computer Science (2)
* Electrical and Electronic Engineering (3)
* Mechanical, Aerospace and Civil Engineering (4)

Display This Question:

If FSE\_SchoolID = Natural Sciences

Q2.19 Which Department are you in?

* Chemistry (1)
* Earth and Environmental Sciences (2)
* Materials (3)
* Mathematics (4)
* Physics and Astronomy (5)

Display This Question:

If FSE\_SchoolID = None - Faculty Office

Q2.20 Which PS function are you part of?

* Communications, Engagement, Marketing and Student Recruitment (1)
* Estates (2)
* Finance (3)
* IT Services (4)
* People and Organisational Development (5)
* Planning, Compliance and Governance (6)
* Research & Business Engagement (7)
* Student Experience (8)
* Technical Services (9)

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Display This Question:

If InstituteAffiliation = Interdisciplinary / Research Institute or Centre

Q2.21 Because you selected Interdisciplinary / Research Institute or Centre:

Display This Question:

If InstituteAffiliation = Interdisciplinary / Research Institute or Centre

Q2.22 Which Institute, Centre or Network are you associated with?

* bp-International Centre for Advanced Materials (bp-ICAM) (1)
* Dalton Nuclear Institute (DNI) (2)
* Manchester Environmental Research Institute (MERI) (3)
* Manchester Institute of Biotechnology (MIB) (4)
* National Graphene Institute (NGI) (5)
* Graphene Engineering and Innovation Centre (GEIC) (6)
* The University of Manchester at Harwell (UoMaH) (7)
* Henry Royce Institute for Advanced Materials (HRI) (8)
* Photon Science Institute (PSI) (9)
* Thomas Ashton Institute (TAI) (10)
* Christabel Pankhurst Institute (11)
* Centre for Crisis Studies and Mitigation (12)
* Centre for Quantum Science and Engineering (13)
* Institute for Data Science and AI (14)
* Interdisciplinary Centre for Ancient Life (15)
* Manchester Modelling Network (16)
* Tyndall Manchester (17)
* Humanitarian and Conflict Response Institute (18)

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Display This Question:

If InstituteAffiliation = Cultural Institution

Q2.23 Because you selected Cultural Institution:

Display This Question:

If InstituteAffiliation = Cultural Institution

Q2.24 Which Cultural Institution are you associated with:

* Jodrell Bank Discovery Centre (1)
* Manchester Museum (2)
* Manchester University Press (3)
* The Whitworth (4)

End of Block: ID

Start of Block: General

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Q3.1 Do you believe that the digital notebook solution should carry a preferred, specific licence type?

* Essential (17)
* Nice to have (21)
* Not required (16)

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Display This Question:

If G-01 = Essential

Q3.2 Would you want the deployed software to carry an open licence?

* Yes (1)
* No (2)
* Indifferent (3)
* Don't know/Unsure (4)

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Display This Question:

If G-01\_Open = Yes

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Q3.3 Would you prefer any specific open licence type?

* AGPL 3.0 (Copyleft, protective/reciprocal) (1)
* Apache 2.0 (Permissive, copyright preservation) (2)
* MIT (Permissive, copyright preservation) (3)
* Mozilla Public Licence 2.0 (Copyleft, protective/reciprocal) (4)
* ⊗Unsure/Don't know/Don't mind (6)

End of Block: General

Start of Block: Usability

Q4.1 There are three questions in this section, related to **usability** features of digital notebooks.  
   
 If you select a feature as essential, you will be presented with the option to provide further detail.

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Q4.2 Please rank the importance of each usability feature of digital notebooks, to you.

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| Customisable user interface (1) | * Essential (1) | * Nice to Have (2) | * Not Required (3) |
| Additional interface language(s) (18) | * Essential (1) | * Nice to Have (2) | * Not Required (3) |
| Varied training and support mechanisms (19) | * Essential (1) | * Nice to Have (2) | * Not Required (3) |

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Display This Question:

If AttributeRanking\_Usability = Additional interface language(s) [ Answer 1 ]

Q4.3 Which language, other than English, would you like the software to be available in?  
   
 Please specify if the required language does not form part of the autocomplete options.

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Display This Question:

If AttributeRanking\_Usability = Varied training and support mechanisms [ Answer 1 ]

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Q4.4 Which kinds of support would you find most beneficial?

* Vendor consultation (1)
* Online vendor documentation (2)
* Vendor-supplied training (3)
* In-house consultation (4)
* In-house documentation (5)
* In-house training (6)

End of Block: Usability

Start of Block: Core functions

Q5.1 There are six questions in this section, related to **core functions** of digital notebooks.  
   
 If you select a feature as essential, you will be presented with the option to provide further detail.

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Q5.2 Please rank the importance of core function of digital notebooks, to you.

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| Varied input mechanisms (2) | * Essential (1) | * Nice to Have (2) | * Not Required (3) |
| Data preview (3) | * Essential (1) | * Nice to Have (2) | * Not Required (3) |
| Varied export options (4) | * Essential (1) | * Nice to Have (2) | * Not Required (3) |
| Templates (5) | * Essential (1) | * Nice to Have (2) | * Not Required (3) |
| Searchability (6) | * Essential (1) | * Nice to Have (2) | * Not Required (3) |
| Collaboration features (7) | * Essential (1) | * Nice to Have (2) | * Not Required (3) |

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Display This Question:

If AttributeRanking\_CoreFunctions = Varied input mechanisms [ Answer 1 ]

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Q5.3 Please rank the importance of a notebook or inventory possessing the various data input mechanisms

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|  | Not Required | Essential |

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| Annotation () |  |
| Barcode scanner () |  |
| Browser forms () |  |
| Chemical editor () |  |
| Dictation function () |  |
| Sketching () |  |
| HELM editor () |  |
| Equation editor () |  |
| Plain text editor () |  |
| Rich text editor () |  |
| Scientific calculator () |  |
| Symbolic link () |  |
| Table editor () |  |
| Internal hyperlinks () |  |
| External hyperlinks () |  |
| XHTML-Editor () |  |

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Display This Question:

If AttributeRanking\_CoreFunctions = Data preview [ Answer 1 ]

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Q5.4 Please rank the importance of being able to preview each filetype family in a digital notebook

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|  | Not Required | Essential |

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| Audio formats (.mp3, .wav etc.) () |  |
| Database formats (.rdx, .sql etc.) () |  |
| Document formats (.odt, .pdf etc.) () |  |
| Image formats (.jpg, .svg etc.) () |  |
| MS Office formats (.docx, .pptx etc.) () |  |
| Packed formats (.zip, .eln etc.) () |  |
| Scientific formats (.mol, .smi etc.) () |  |
| Structured formats (.json, .html etc.) () |  |
| Table formats (.csv, .tsv etc.) () |  |
| Video formats (.avi, .mov etc.) () |  |

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Display This Question:

If AttributeRanking\_CoreFunctions = Varied export options [ Answer 1 ]

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Q5.5 Select the data export options you would wish to be present in a digital notebook

* All content in a document format (5)
* A subset of content in a document format (8)
* All content in a structured, machine-readable format (6)
* A subset of content in a structured, machine-readable format (9)
* Direct publication option (7)

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Display This Question:

If AttributeRanking\_CoreFunctions = Templates [ Answer 1 ]

Q5.6 Which kind of template/protocol options would you expect to be present in a digital notebook?

* Definition/import of own templates (3)
* Import from internet sources (i.e. protocols.io) (4)
* Microtitre plate templates (6)
* Other subject-specific templates (please specify) (7) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Display This Question:

If AttributeRanking\_CoreFunctions = Searchability [ Answer 1 ]

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Q5.7 Which searchability aides would you want to be present in a digital notebook?

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|  | Not Required | Essential |

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| Advanced/conditional search () |  |
| BLAST Search () |  |
| Database queries () |  |
| Layered data hierarchy () |  |
| Filtering () |  |
| Full text search () |  |
| Search by command line () |  |
| Search for reactions by chemical structure () |  |
| Tagging () |  |

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Display This Question:

If AttributeRanking\_CoreFunctions = Collaboration features [ Answer 1 ]

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Q5.8 Which collaboration aides/features would you wish to be present in a digital notebook?

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|  | Not Required | Essential |

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| Commenting () |  |
| Notifications () |  |
| Rights management (individual or grouped object access control) () |  |
| Role management (group privileges) () |  |
| Shared calendar(s)/scheduling () |  |
| External guest access () |  |
| Real-time collaboration () |  |
| Task assignment () |  |

End of Block: Core functions

Start of Block: Compliance

Q6.1 There are two questions in this section, related to **compliance** features of digital notebooks.  
   
 If you select a feature as essential, you will be presented with the option to provide further detail.

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Q6.2 Please rank the importance of each compliance attribute of digital notebooks.

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| Preservation of evidence (8) | * Essential (1) | * Nice to Have (2) | * Not Required (3) |
| Compliance certification (20) | * Essential (1) | * Nice to Have (2) | * Not Required (3) |

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Display This Question:

If AttributeRanking\_Compliance = Preservation of evidence [ Answer 1 ]

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Q6.3 Please select any features you would require to demonstrate preservation of evidence

* Audit trail (8)
* Electronic signature (9)
* Locking (10)
* Time-stamping (11)
* Versioning (12)
* ⊗None (13)

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Display This Question:

If AttributeRanking\_Compliance = Compliance certification [ Answer 1 ]

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Q6.4 Select any compliance standards which your research area is bound to:

* ADA (4)
* ASTM (5)
* CROMERRR (6)
* FDA CFR 21 Part 11 (7)
* FERPA (8)
* FISMA (9)
* General Data Protection Regulation (GDPR) (10)
* Good Clinical Practice (GCP) (11)
* Good Laboratory Practice (GLP) (12)
* Good Manufacturing Practice (GMP) (13)
* GxP (14)
* Health Level 7 (HL7) (15)
* HIPAA (16)
* ISO 27001 (17)
* SAFE-BioPharma Digital Identity and Signature Standard (18)
* SOC2 (19)
* TickITplus (20)
* ⊗None (21)

End of Block: Compliance

Start of Block: Extended functions

Q7.1 There are five questions in this section, related to **extended functions** of digital notebooks.  
   
 If you select a feature as essential, you will be presented with the option to provide further detail.

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Q7.2 Please rank the importance of each extended function of digital notebooks.

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| Laboratory management tools (9) | * Essential (1) | * Nice to Have (2) | * Not Required (3) |
| Integrations and extensions (10) | * Essential (1) | * Nice to Have (2) | * Not Required (3) |
| Automation features (11) | * Essential (1) | * Nice to Have (2) | * Not Required (3) |
| Project management tools (12) | * Essential (1) | * Nice to Have (2) | * Not Required (3) |
| Workflow capture (13) | * Essential (1) | * Nice to Have (2) | * Not Required (3) |

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Display This Question:

If AttributeRanking\_ExtendedFunctions = Laboratory management tools [ Answer 1 ]

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Q7.3 Which integrated laboratory management functions would you wish to be present?

* Asset management (i.e. safety-critical items) (1)
* Freezer management (2)
* Instrument management (i.e. training and maintenance logs) (3)
* Device/instrument inventory (4)
* Sample inventory/tracking (5)
* Materials/chemical database (6)
* Ordering function (not purchasing, but signaling for purchase) (7)
* ⊗None (10)

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Display This Question:

If AttributeRanking\_ExtendedFunctions = Integrations and extensions [ Answer 1 ]

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Q7.4 Please rank the importance of each type of integration and extension available to digital notebooks.

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|  | Not Required | Essential |

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| Publication (data, manuscripts, protocols) () |  |
| Cloud storage () |  |
| Lab management () |  |
| Data analysis () |  |
| Data visualisation () |  |
| Data import (acquired, generated or modified) () |  |
| Data management planning () |  |
| Coding () |  |
| Reference management () |  |
| Document formatting () |  |
| Collaboration (sharing, communication or real-time) () |  |
| Instrument control () |  |
| Project management () |  |

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Display This Question:

If AttributeRanking\_ExtendedFunctions = Integrations and extensions [ Answer 1 ]

Q7.5 Please pick out your top choice integration/extension for each category you deemed essential in the previous question.  
   
 If you deemed none as essential, please skip ahead. Note that only those integrations currently available in digital notebooks are listed. Some entries will appear in more than one category given their overlapping features.

Display This Question:

If EF-02 [ Publication (data, manuscripts, protocols) ] > 50

Q7.6 Because you highlighted '${Q7.4/ChoiceDescription/29}' as important:

▼ BioMed Central (Springer Nature) (9) ... Protocols.io (20)

Display This Question:

If EF-02 [ Cloud storage ] > 50

Q7.7 Because you highlighted '${Q7.4/ChoiceDescription/30}' as important:

▼ Dropbox (21) ... One Drive (26)

Display This Question:

If EF-02 [ Lab management ] > 50

Q7.8 Because you highlighted '${Q7.4/ChoiceDescription/31}' as important:

▼ Atlas CDS (Thermo Fisher Scientific) (27) ... VisioNize sense (Eppendorf ) (35)

Display This Question:

If EF-02 [ Data analysis ] > 50

Q7.9 Because you highlighted '${Q7.4/ChoiceDescription/32}' as important:

▼ Atlas CDS (Thermo Fisher Scientific) (63) ... SnapGene (Dotmatics) (89)

Display This Question:

If EF-02 [ Data visualisation ] > 50

Q7.10 Because you highlighted '${Q7.4/ChoiceDescription/33}' as important:

▼ Atlas CDS (Thermo Fisher Scientific) (85) ... SnapGene (Dotmatics) (106)

Display This Question:

If EF-02 [ Data import (acquired, generated or modified) ] > 50

Q7.11 Because you highlighted '${Q7.4/ChoiceDescription/34}' as important:

▼ Atlas CDS (Thermo Fisher Scientific) (85) ... Winchat (111)

Display This Question:

If EF-02 [ Coding ] > 50

Q7.12 Because you highlighted '${Q7.4/ChoiceDescription/36}' as important:

▼ Github (117) ... rdkit (121)

Display This Question:

If EF-02 [ Reference management ] > 50

Q7.13 Because you highlighted '${Q7.4/ChoiceDescription/37}' as important:

▼ Mendeley (Elsevier) (117) ... Zotero (118)

Display This Question:

If EF-02 [ Document formatting ] > 50

Q7.14 Because you highlighted '${Q7.4/ChoiceDescription/38}' as important:

▼ GoogleDocs (119) ... Microsoft Office Plug-in (122)

Display This Question:

If EF-02 [ Collaboration (sharing, communication or real-time) ] > 50

Q7.15 Because you highlighted '${Q7.4/ChoiceDescription/39}' as important:

▼ Box (123) ... Teams (135)

Display This Question:

If EF-02 [ Instrument control ] > 50

Q7.16 Because you highlighted '${Q7.4/ChoiceDescription/40}' as important:

▼ Atlas CDS (Thermo Fisher Scientific) (136) ... VisioNize sense (Eppendorf ) (141)

Display This Question:

If EF-02 [ Project management ] > 50

Q7.17 Because you highlighted '${Q7.4/ChoiceDescription/41}' as important:

▼ CAS SciFinder (ACS) (142) ... SAP BTP (146)

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Display This Question:

If AttributeRanking\_ExtendedFunctions = Automation features [ Answer 1 ]

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Q7.18 Which automation or automation facilitation features would you wish to see present?

* Data autoupload/folder watch (1)
* Data analysis automation (workflows) (2)
* Automated external device control (3)
* Application programming interface (API) (4)
* Software development kit (SDK) (5)
* ⊗None (7)

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Display This Question:

If EF-03 = Application programming interface (API)

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Q7.19 As you selected ${Q7.18/ChoiceDescription/4} as a preferred automation-facilitating feature, is there a specific type you'd like to see present?

* Java (5)
* Open Database Connectivity (ODBC) (6)
* Python (7)
* RESTful (8)
* Visual Basic (9)
* ⊗None (10)

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Display This Question:

If AttributeRanking\_ExtendedFunctions = Project management tools [ Answer 1 ]

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Q7.20 Which individual project management tools would you wish to be present?  
   
 Collaborative project management tools are treated separately.

* Calendar (4)
* Task-board (5)
* Planner (6)
* ⊗None (7)

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Display This Question:

If AttributeRanking\_ExtendedFunctions = Workflow capture [ Answer 1 ]

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Q7.21 Which types of workflow capture would you wish to see present?

* Graphical representation (1)
* Reporting (2)
* Executable workflow (3)
* Exportable (4)
* Importable (6)
* ⊗None (7)

End of Block: Extended functions

Start of Block: Integration in RDM and IT Environment

Q8.1 There are three questions in this section, related to digital notebook **integration with research data management (RDM) and the IT Environment**.  
   
 If you select a feature as essential, you may be presented with the option to provide further detail.

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Q8.2 Please rank the importance of each RDM and IT environment consideration for digital notebooks.

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| Controlled vocabulary (15) | * Essential (1) | * Nice to Have (2) | * Not Required (3) |
| Varied access methods (16) | * Essential (1) | * Nice to Have (2) | * Not Required (3) |
| Specific data storage location (21) | * Essential (1) | * Nice to Have (2) | * Not Required (3) |

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| Page Break |  |

Display This Question:

If AttributeRanking\_IT = Varied access methods [ Answer 1 ]

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Q8.3 Which methods of accessing the system would you prefer?

* Web browser on desktop (1)
* Local desktop client (2)
* Mobile App (3)
* Web browser on mobile/tablet (4)
* Command line interface (CLI) (5)

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| Page Break |  |

Display This Question:

If AttributeRanking\_IT = Specific data storage location [ Answer 1 ]

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Q8.4 Where would you prefer that the research data and metadata be stored?

* Cloud of own choice (4)
* Locally (on UoM servers - RDS) (5)
* Provider's Cloud (6)
* ⊗None of the above (please explain) (7) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

End of Block: Integration in RDM and IT Environment

Start of Block: Contact

Q9.1 If you would like to engage with the project in other capacities, please enter your details below. If not, simply skip the question block.

Q9.2 Name

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Q9.3 UoM email address

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End of Block: Contact