Create Resource Credibility Assessment

▼ RESOURCE CREDIBILITY ASSESSMENT

- See 10 Simple Rules and RUBRIC for assessing Conformance Levels
- See EXAMPLE Credibility Assessment
- Please fill out all entries and SAVE form. If you cannot complete everything immediately, enter "to be filled" in the boxes and save. You may edit your completed form through the Content pages.

Project Title

Investigators

Contact info (email)

Rule 1

Define Context(s): check all that apply to your project, or fill in (other) if none listed here apply. In 1-2 sentences define the overarching goal of your model. State the biological domain of the model. State the structures of interest in the model. State the spatial scales and time scales included in the model. Optional: Describe any other uses of the model and other comments about the model's context.

1. Define context(s)

- ☐ aid in FDA decision making
- ☐ aid in clinical decision making
- ☐ aid in clinical trial design
- ☐ identify/explore new therapies
- ☐ reveal new biological insights
- ☐ other

Conformance Level

Instructions for Conformance determination, https://www.imagwiki.nibib.nih.gov/content/10-simple-rules-conformance-rubric

Primary goal of the model/tool/database

Last saved: Not saved yet

Author: gpeng

Revision log message

Briefly describe the changes you have made.

▶ MENU SETTINGS

▶ URL ALIAS

▶ AUTHORING INFORMATION

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Biological domain of the model

Structure(s) of interest in the model

Spatial scales included in the model

Time scales included in the model

Other uses for the model (optional)

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Additional comments about the model's context (optional)

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Rule 2

Data: for each data set that is used in building (top) and validating (bottom) the model, indicated whether that data has been published or if it is private. Also indicate how credibility is/was checked. Any fields that are irrelevant to the model should be left blank.

Show row weights

2. DATA FOR BUILDING AND VALIDATING THE MODEL	

2. DATA FOR BUILDING AND VALIDATING THE MODEL

Data for building the model	Published?	Private?	How is credibility checked?	Conformance Level
in vitro (primary cells cell, lines, etc.)				
ex vivo (excised tissues)				
in vivo pre-clinical (lower-level organism or small animal)				
in vivo pre-clinical (large animal)				
Human subjects/clinical				
Other: _____				

Add Row

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2. DATA FOR BUILDING AND VALIDATING THE MODEL

Data for validating the model	Published?	Private?	How is credibility checked?	Conformance Level
in vitro (primary cells cell, lines, etc.)				
ex vivo (excised tissues)				
in vivo pre-clinical (lower-level organism or small animal)				
in vivo pre-clinical (large animal)				
Human subjects/clinical				
Other: _____				

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Rule 3

Validate within context: For each type of validation that is performed, indicate: who, when, and how that validation is performed. Any fields that are irrelevant to the model should be left blank. Keep in mind:
Verification is the process of to determining that the computational M&S accurately represents the underlying mathematical model and its solution
Validation of the M&S is the process of determining the degree to which the model is an accurate representation of the real world from the perspective of its Context of use. Uncertainty quantification of the M&S is needed to characterize the pertinent variability in the model and to quantify their effect on the simulation
Sensitivity analysis establishes how the uncertainty in the model

output(s) can be attributed to different sources of uncertainty in the model inputs.
Additional Comments should include clarifying statements and references to model comparisons.

3. Validate within context(s)

	Who does it?	When does it happen?	How is it done?	Conformance Level
Verification				
Validation				
Uncertainty quantification				
Sensitivity analysis				
Other:_____				
Additional Comments				

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Rule 4

Limitations: State the summarizing “disclaimer” statement for your multi-scale model. Indicate who should be informed about this disclaimer and how this disclaimer will be shared with that audience. There can be more than one summarizing limitation statement. Also note any assumptions that a user might need to know in assessing the usefulness or breadth of the model application. Please provide one limitation and assumption per model.

4. Limitations

Disclaimer statement (explain key limitations)	Who needs to know about this disclaimer?	How is this disclaimer shared with that audience?	Conformance Level

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Rule 5

Version control: For the individual modeler, lab group, and collaborating groups, indicate whether a naming convention has been established and is adhered to, whether a repository is utilized, and how code review is performed.

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5. VERSION CONTROL

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Conformance Level

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	Naming Conventions?	Repository?	Code Review?
individual modeler			
within the lab			
collaborators			

Add Row

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Rule 6

Documentation: Indicate how the model is documented in terms of code, scope and intended use, user's guide, and developer's guide. Please add link to documentation in Rule 7.

6. Documentation

	Conformance Level
Code commented?	
Scope and intended use described?	
User's guide?	
Developer's guide?	

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Rule 7

Dissemination: Indicate how the simulations, models, software, results, and implication of the results is shared with the different audiences in each column.
Provide DOI link, or link to IMAG wiki publication or resource page in boxes below.

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7. DISSEMINATION

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Conformance Level

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7. DISSEMINATION

Target Audience(s):	"Inner circle"	Scientific community	Public
Simulations			
Models			
Software			
Results			
Implications of results			

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Rule 8

Independent reviews: list the name(s) of reviewers & affiliation, when the review was performed, and summarize how it was performed and what the result of the review was.

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8. INDEPENDENT REVIEWS

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Conformance Level

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Reviewer(s) name & affiliation:	
When was review performed?	
How was review performed and outcomes of the review?	

Add Row

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Rule 9

Test competing implementations: State whether competing implementations were tested and what the outcome(s) of that exercise was.

Show row weights

9. TEST COMPETING IMPLEMENTATIONS

Conformance Level

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9. TEST COMPETING IMPLEMENTATIONS

	Yes or No (briefly summarize)
Were competing implementations tested?	
Did this lead to model refinement or improvement?	

Add Row

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Rule 10

Conform to standards: State whether there are operating procedures, guidelines, or standards for the type(s) of multiscale modeling in this project and how your efforts conform to these standards.

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10. CONFORM TO STANDARDS

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Conformance Level

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	Yes or No (briefly summarize)
Are there operating procedures, guidelines, or standards for this type of multiscale modeling?	
How do your modeling efforts conform?	

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Thank You! You have completed the 10 Simple Rules - Please link your Resource Credibility Assessment to your Resource Page

If you would like to add more information to support any of the previous rules, please do so here.

11. (optional) Additional information to support items 1-10

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