Create Resource Credibility Assessment

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▼ RESOURCE CREDIBILITY ASSESSMENT

- See 10 Simple Rules and <u>RUBRIC</u> for assessing Conformance Levels
- See <u>EXAMPLE</u> 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

Last saved: Not saved yet

Author: gpeng

Revision log message

Briefly describe the changes you have made.

- ► MENU SETTINGS
- ► URL ALIAS
- ► AUTHORING INFORMATION

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-simplerules-conformance-rubric

Primary goal of the model/tool/database

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elds that are irrelevant to the mo	del should be left blank.

Data for building the model	Published?	Private?	How is credibility checked?	Conformand 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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2. DAT	A FOR BUILDING AND VALIDATII	NG 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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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

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

Create Resource Credibility Assessment | Interagency Modeling and Analysis Group

Disclaimer statement (explain key limitations)	Who needs to know about this disclaimer?	disclaimer shared	Conformance Level
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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?	
Add Row	
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Rule 7	
issemination: Indicate how the simu esults, and implication of the results udiences in each column. rovide DOI link, or link to IMAG wiki oxes below.	is shared with the different

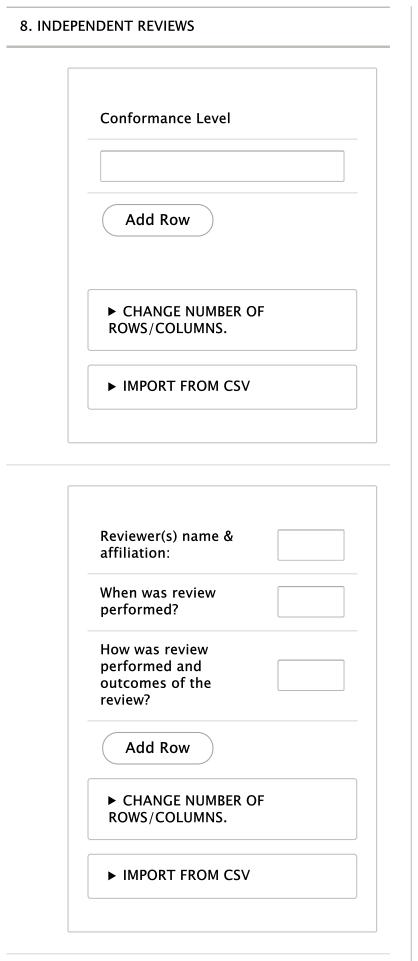
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Target Audience(s):	"Inner circle"		Public
Simulations			
Models			
Software			
Results			
Implications of results			
Add Row			
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Independent reviews: list the name(s) of reviewers & affiliation, when the review was performed, and summarize how it was performed and what the result of the review was.

Show row weights

8. INDEPENDENT REVIEWS



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

Add Row

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

Show row weights

10. CONFORM TO STANDARDS

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	procedures, guidelines, or standards for this type of multiscale modeling? How do your modeling efforts conform?	(briefly summarize)

Thank You! You have completed the 10 Simple Rules – Please link your Resource Credibility Assessment to you Resource Page f you would like to add more information to support any of the previous rules, please do so here. 1. (optional) Additional information to support items								
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