

Scientific Exchange on Modeling and Simulation for Radiation Sterilization NIST, Gaithersburg, Maryland						
TUESDAY, September 16, 2025						
8:30 - 8:50	1-1 Learning from the Past	Welcome & Introductions			Portrait Room	Thompson/Wilson
8:50 - 9:10		Defining the Unmet Need: The Case for Model-Based Approaches				Logar
9:10 - 9:30		Radiation Sterilization: Modeling Through the Years				Meissner
9:30 - 9:50		Modeling Software in Practice: Uses and Applications				Mickum
9:50 - 10:00		Setting the Stage: Goals and Expected Outcomes				Logar
BREAK, drinks and snacks in hallway						
10:30 - 10:40	1-2 Lessons from Radiation Oncology	Model-Based Clinical Radiation Treatment Planning: An Overview			Portrait Room	Jia
10:40 - 11:00		Treatment Planning Systems in Clinical Practice				McNutt
11:00 - 11:20		Quality Assurance in Dosimetry: From Expert Practice to Routine Use				Mihailidis
11:20 - 11:40		Traceability Chain: National Standards to End Users				Minniti
11:40 - 12:00		Keeping the End in Mind: Linking Radiation Processing and Radiation Oncology				Prieels/Forthomme
LUNCH, lunch in the Heritage Room						
13:30 - 13:40	1-3 Identifying the Gaps	Radiation Sterilization Modeling: Brainstorming & Gap Assessments				Logar
		Dining Room A&B	Exec. Conference Room	Heritage Room		
13:45 - 15:00		Modeling the Physical World	Traceable Systems, Validated Outcomes	Modeling for Confidence & Compliance		A: McNutt/Jia B: Wilson/Pazos C: Mickum/Dewji
BREAK, drinks and snacks in hallway						
15:30 - 16:00	1-4 Creating the Framework	Aligning Models with Physical Systems	From Process to Proof: Making Modeling Defensible	Building Confidence: Modeling for Regulatory Impact		A: McNutt/Jia B: Wilson/Pazos C: Mickum/Dewji
16:05 - 16:20		Report out A				McNutt/Jia
16:20 - 16:35		Report out B				Wilson/Pazos
16:35 - 16:50		Report out C				Mickum/Dewji
16:50 - 17:00	Day 1 Close Out					
18:00	No-host dinner at the Silver Diner in Rio					
WEDNESDAY, September 17, 2025						
8:30 - 8:35	2-1 Experiences and Insights	Welcome to Case Studies			Portrait Room	Wilson
8:35 - 8:50		Industry Perspective				Afshari
8:50 - 9:05		Innovation in Medical Devices				Mickum
9:05 - 9:20		Research Perspective				Mille
9:20 - 9:35		Academic Perspective				Dewji
9:35 - 10:00		Making the Case: Mock FDA Submission for Radiation Sterilization Modeling				Mickum/Murray
BREAK, drinks and snacks in hallway						
10:30 - 10:40	2-2 Advancing Modeling Practice	Action Oriented Road Mapping: Planning the Future				Logar
		Dining Room A&B	Exec. Conference Room	Heritage Room		
10:45 - 12:00		Integrating Models into Regulatory Strategy	Building Smarter Models with Real-World Inputs (Florent Kuntz intro)	Closing the Loop Between Systems and Standards		A: Dewji/Logar B: Jia/Wilson C: Pazos/Mickum
LUNCH, lunch in the Heritage Room						
13:30 - 14:30	2-3 Translating Models into Action	Regulating Modeling: A Clear Path Forward	Embedding Reality into Models: A Roadmap for Integration	Unifying Systems and Standards: A Roadmap to Consistency		A: Dewji/Logar B: Jia/Wilson C: Pazos/Mickum
14:30 - 15:00		Identify Gaps and Opportunities and Build Road Maps				Session Leads
BREAK, drinks and snacks in hallway						
15:30 - 15:45	2-4 Next Steps	Report out A			Portrait Room	Dewji/Logar
15:45 - 16:00		Report out B				Jia/Wilson
16:00 - 16:15		Report out C				Pazos/Mickum
16:15 - 16:35		Collaboration Opportunity Brainstorming				Exchange Coordinators

16:35 - 16:55		Action Items, Timelines and Exchange Part II	2	Exchange Coordinators
16:55 - 17:00	Meeting Close: Publication & Follow Up			