



EMA 3RsWP

3Rs Working Party Annual Stakeholders Meeting – Public session

Presented by Sonja Beken on 2 April 2024 3Rs Working Party (EMA)



Outline

3RsWP achievements

• 3RsWP New Workplan

• Time for your thoughts - SLIDO





Outline

• 3RsWP achievements

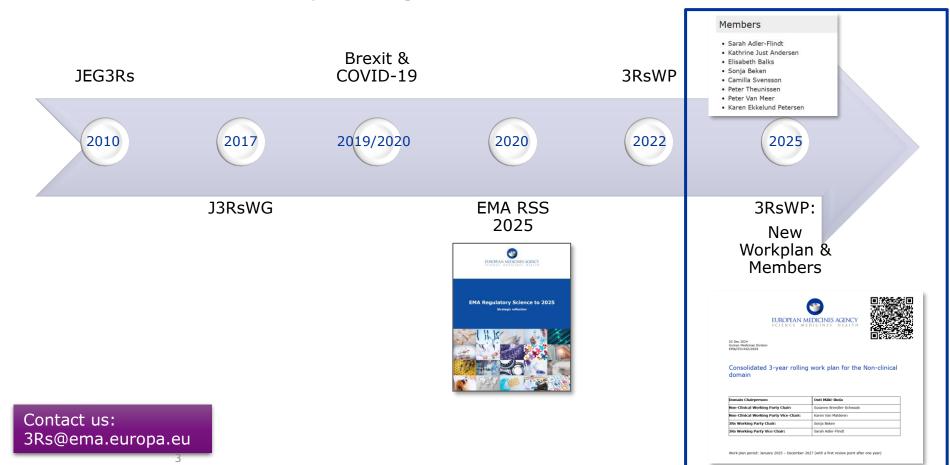
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EMA and the 3Rs – Expanding Our Timeline



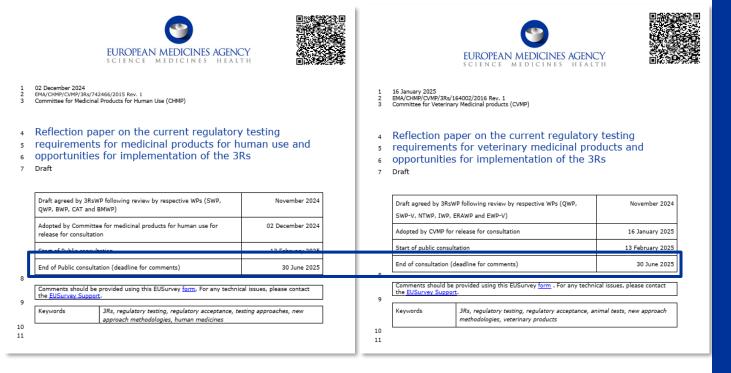


3RsWP - Meetings 2024-2025



20-21/3/2024	2nd annual stakeholder meeting & hybrid 3RsWP w/observers
14-15/5/2024	virtual meeting 3RsWP
24-25/9/2024	hybrid meeting 3RsWP w/observers
20-21/11/2024	virtual meeting 3RsWP
4-5/2/2025	hybrid meeting 3RsWP
2-3/4/2025	3rd annual stakeholder meeting & hybrid 3RsWP w/observers
20-21/5/2025	virtual meeting 3RsWP
18-19/9/2025	virtual meeting 3RsWP
19-20/11/2025	hybrid meeting 3RsWP w/observers

Promote regulatory integration of 3Rs-compliant methods





The Flexibility in our Guidelines, a 3RsWP inventory



3.2. CHMP Non-clinical Working Party

Overview of animal testing requirements for non-clinical studies for human pharmaceuticals (Non-clinical Working Party - CHMP)

Торіс	Regulatory provision	Animal testing requirements	Implemented 3Rs opportunities	Newly identifi for 3Rs imple	ied opportunities mentation		
Repeated dose toxicity (RTD)	clinical safet conduct of h Overview of anir	nal testing requirements for actical preparations (Quality Work Regulatory provision s)* European Pharmacopeia (Ph. Eur.) chapter 2.6.8 Pyrogens	Overview of animal Topic General Guidelir Similar biological medicinal products	testing requirements for biosimilar Medicinal Product testing requirements for biosimila Regulatory provision The second for Biosimilar Medicines Guideline on similar biological medicinal products (CHMP/437/04-Rev.1) Guideline on similar biological medicinal products containing biotechnology-derived proteins as active substance: non-clinical and clinical issues (EMEA/CHMP/BMWP/42832/2005-Rev.1)	ts Working Party	Implemented 3Rs opportunities In vivo evaluation generally not needed. If an In vivo evaluation is deemed necessary, the focus of the study/studies (PK and/or PD and/or safety) depends on the need for additional information. Animal studies should be designed to maximise the information obtained. Depending on the endpoints used, it may not be necessary to sacrifice the animals at the end of the study. The duration of the study (including observation period) should be justified, taking into consideration the PK behaviour of the reference medicinal product and its clinical use.	Newly identified opportunities for 3Rs implementation The value of in vivo data in the assessment of biosimilarity is generally considered limited and the need for in vivo studies should be thoroughly scrutinised. EMA is drafting an overarching reflection paper on a tailored clinical approach in biosimilar development (11) that will replace most product-specific guidelines. The reflection paper is expected to reflect the regulatory experience that non-clinical in vivo studies have limited value in the comparability exercise for biosimilars. An EMA reflection paper regarding alternatives to NHPs in safety testing is under development to minimise use of this species (1).
			Specific Biosimil	ar Medicine Guidance			
6			Biosimilar FSH	Guideline on non-clinical and clinical development of similar	The Steelman-Pohley assay needs to be performed to		



- Promote regulatory integration of 3Rs-compliant methods
- Promote & support NAM qualification
 - Revision of guidance for NAM regulatory acceptance
 - •Scope:
 - 3Rs-related terminology in the body of the guideline
 - annexes with regulatory acceptance criteria for MPS/OoC models for specific contexts of use to be applied in the pharmaceutical area
 - •> 180 comments received from 20 different interested parties:
 - Broad support for the revision
 - Proposals for updates of body text of the GL
 - A lot of suggestions for terminology section
 - Application of annexes to all complex in vitro models
 - Ongoing Revision:
 - Complex revision necessitates a stepwise approach
 - Steering group oversees GL revision
 - Drafting subgroups: Terminology & Annex-specific





- 12 October 2023
- MA/CHMP/CVMP/452614/2023
- Committee for Medicinal Products for Human Use (CHMP)
 Committee for Veterinary Medicinal Products (CVMP)
 - Concept paper on the revision of the Guideline on the
- 6 principles of regulatory acceptance of 3Rs (replacement,
- reduction, refinement) testing approaches
- 8 (EMA/CHMP/CVMP/JEG-3Rs/450091/2012)





- Promote regulatory integration of 3Rs-compliant methods
- Promote & support NAM qualification
- Foster stakeholder interactions



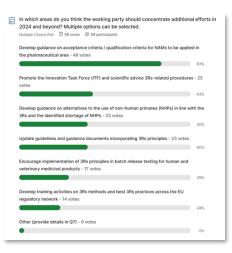


EUROPEAN MEDICINES AGENCY	What do you think regulatory testing Wordcloud Poll 2 Se
6 August 2024 EMA/459663/2024	valdida
European Medicines Agency	Standard
3RsWP meeting report 20 March 2024, European Medicines Agency, Amsterdam	Replace
	anima





IT	In your opinion, which of these 3RsWP goals is most important? Please rank the topics in order of importance. Ranking Poll ② 92 votes ⑧ 92 participants					
	1.	Develop and promote regulatory acceptance criteria / qualification criteria for NAMs be applied in the pharmaceutical area	to 3.9			
	2.	Develop training activities on 3Rs methods and best 3Rs practices across the EU regulatory network	2.6			
	3.	Encourage alternatives to the use of non-human primates (NHPs) in line with the 3Rs and the identified shortage of NHPs				
	3.	Provide support through the Innovation Task Force (ITF) and scientific advice 3Rs- related procedures	2.3			
	5.	Foster 3Rs principles in batch release testing for human and veterinary medicinal products	2.2			
	_					







- Promote regulatory integration of 3Rs-compliant methods
- Promote & support NAM qualification
- Foster stakeholder interactions
- Foster International regulatory collaboration:
 - International Medicines Regulators Working Group on 3Rs
 - Kick-off January 2024
 - Terms of Reference with agreements on specific actions



Terms of Reference (ToR) for the International Medicines Regulators' Working Group on 3Rs¹

The European Medicines Agency (EMA), the Swiss Agency for Therapeutic Products (Swissmedic), the Japanese Pharmaceuticals and Medical Devices Agency (PMDA), the Australian Therapeutic Goods Administration (TGA), Health Canada, and the United States Food and Drug Administration (FDA), agree 9 on the following:

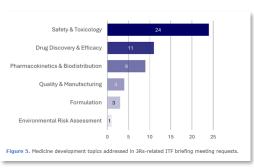
The primary goal of the International Medicines Regulators' Working Group on 3Rs (IMRWG3R) is:

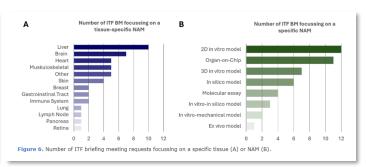
To foster a consistent global approach across regulatory jurisdictions to achieve internationally harmonised 3Rs (Replacement, Reduction, Refinement) recommendations and assist in the implementation of new alternative approaches for testing of **human** and **veterinary** medicinal products, wherever possible. The term "alternative approaches" is understood (for the purposes of this document) to include, *in chemico*, *in vitro*, *in silico*, reduced/refined *in vivo*, weight-of-evidence approaches, *etc.* (this is a non-exhaustive list).



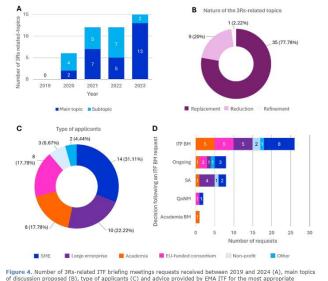


- Promote regulatory integration of 3Rs-compliant methods
- Promote & support NAM qualification
- Foster stakeholder interactions
- Foster International regulatory collaboration
- Contribute to early dialogue via 3Rs EMA Innovation Task
 Force Briefing Meetings
 - •2019-2023: 45/339 ITF Briefing Meeting Requests on 3Rs









regulatory interaction in response to the request (D).





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- Contribute to early dialogue via 3Rs EMA Innovation Task Force Briefing Meetings
- •Follow-up of application of **3Rs in quality control & batch** release testing:
 - Batch Release Testing Operational Expert Group (BRT OEG 2023)
 - EU Network/EMA 3RsWP experts on quality control, batch release testing & 3Rs
 - 3Rs review of quality control and batch release testing for centrally authorised HMPs and VMPs
 - Recommendations on 3Rs to CVMP/CHMP
 - •Letters to MAHs





- Promote regulatory integration of 3Rs-compliant methods
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- Foster stakeholder interactions
- Foster International regulatory collaboration
- •Contribute to **early dialogue** via 3Rs EMA Innovation Task Force Briefing Meetings
- Follow-up of application of 3Rs in quality control & batch release testing
- •Focus on alternatives to the use of non-human primates:
 - Drafting Group is finalizing first draft
 - Public consultation expected for 4Q2025
 - Focus on leveraging existing flexibility in guidelines & new opportunities for 3Rs implementation





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- Foster International regulatory collaboration
- Contribute to early dialogue via 3Rs EMA Innovation Task
 Force Briefing Meetings
- Follow-up of application of 3Rs in quality control & batch release testing
- Focus on alternatives to the use of non-human primates
- Organise Training
 - NC & NAM ESEC for information-sharing & interactions between non-clinical & NAM experts
 - Members from regulatory network & academia

Welcome to the Non-clinical and New Approach Methodologies European Specialised Expert Community!

















Link with EU Network Training Centre

Specific Veterinary topics



- Contribution to SWP revision of GL on user safety for pharmaceutical veterinary medicinal products (EMA/CVMP/543/03-Rev.1) & GL on user safety of topically administered veterinary medicinal products (EMA/CVMP/SWP/721059/2014)
 - Inclusion of OECD in vitro methods for local tolerance testing
 - Reference to VMP reflection paper on opportunities for 3Rs and 3Rs GL
 - Additional guidance on "significant user exposure"
 - A tiered approach for the derivation of Toxicity Reference Values to potentially avoid in vivo testing for dermal toxicity
- Contribution to a CVMP/CMDv working group exploring possibilities to make adherence to 3Rs principles during authorisation processes more transparent





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Strategic Goals - Highlights



- Ensure **that the breadth and depth of expertise** of members **is future-proof** in relation to new emerging safety issues and therapeutic modalities, as well as emerging technologies with regards to 3Rs.
- Development of **guidance** including the identification of **ICH topics** to address new demands in non-clinical assessment and 3Rs.
- Actively track developments and use of available data in **artificial intelligence (AI)** related to non-clinical assessment and 3Rs and support the integration of such methods in guidance and in practice when appropriate.
- Ensure the identification and follow-up of actions related to alternatives to the use of non-human primates
- Further develop **the strategic role of the 3RsWP** in the field of the 3Rs and strengthen cooperation between European stakeholders and international partners in the field.
- Promote regulatory integration of 3Rs-compliant methods.
- Promote and support the qualification of non-animal methods by e.g. establishing acceptance criteria for specific contexts of use and actively participate in qualification procedures through SAWP.

 Joint NcWP-3RsWP / 3RsWP



New!

Tactical Goals - Highlights



Guidelines and Reflection Papers:

- Reflection paper on the alternatives to the use of non-human primates (NHPs) (public consultation in 2025)
- First revision of the 'Guideline on the principles of regulatory acceptance of 3Rs testing approaches' EMA/CHMP/CVMP/JEG-3Rs/450091/2012 (2025), Second revision in 2027!
- Revision of 'Reflection papers providing an overview of the current regulatory testing requirements for medicinal products for human and veterinary use and opportunities for implementation of the 3Rs' (public consultation ongoing)

Trainings

Develop, update and maintain the non-clinical training curriculum (Non-clinical, ERA, 3Rs)



Tactical Goals - Highlights



Communication and stakeholders

- Support to PAM and organisation of annual stakeholder meetings (Non-clinical, ERA, nitrosamines and 3Rs)
- Cooperation with EC and other EU agencies
- Cooperation at international level (International Medicines Regulators Working Group on 3Rs)

Multidisciplinary collaboration:

- Veterinary for 3Rs and ERA
- Methodology for SEND project and modelling and simulation (incl. 3Rs applications)





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Question 1: POLL

Which of the following best describes your interest/professional activity in the area of the 3Rs (choose one):

- Industry/contract research
- Academia
- Regulatory
- Animal welfare organisation
- Public/Private Partnership
- EC or EU agency
- Member of the public
- Other

Question 2: Free Text

If "other", please specify.









Question 3: Wordcloud

What do you think is the most important aspect when thinking about the 3Rs in regulatory testing and drug development?



Question 4: Achievements





Listed below are some of the goals of the EMA 3Rs Working Party. In which areas do you think the working party have made significant progress to date? **Please rank.**

- Develop and promote of **regulatory acceptance criteria / qualification criteria** for **NAMs** to be applied in the pharmaceutical area (e.g. Revision of the 3Rs Guideline)
- Update guidelines and guidance documents incorporating 3Rs principles (e.g. Revised reflection papers)
- Encourage **alternatives** to the use of **non-human primates (NHPs)** in line with the 3Rs and the identified shortage of NHPs (e.g. NHP reflection paper)
- Develop **training activities** on 3Rs methods and best 3Rs practices across the EU regulatory network
- Foster 3Rs principles in batch release testing for human and veterinary medicinal products (e.g. work of the BRT-OEG)
- Provide support to the **Innovation Task Force (ITF)** and in **scientific advice** 3Rs-related procedures

Question 5: Priorities

In which areas identified in our new workplan for 2025-2027 should the working party concentrate additional efforts in 2025 and beyond? **Multiple options can be selected.**



- Promote and support the qualification of NAMs e.g. by establishing acceptance criteria for specific contexts
 of use
- Actively promote the application of the 3Rs in quality control and batch release testing of human veterinary medicinal products
- Draft guidance on best practices for selecting models to demonstrate primary pharmacology, including
 3Rs principles
- Develop training activities on 3Rs methods and best 3Rs practices and facilitate information exchange
- Organise a 3RsWP-led conference to showcase achievements in the 3Rs field and identify future workstreams
- **Collaborate with international medicines regulators** to facilitate knowledge sharing and harmonise views regarding regulatory acceptance of 3Rs testing approaches
- Knowledge sharing and cooperation with EC and EU agencies from food and chemical sectors on non-clinical and 3Rs-related aspects of assessment

Question 6: IMRWG3Rs

EMA has recently led on the establishment of an International Medicines Regulators' Working Group on 3Rs. Which of the following do you think are the most important topics to bring to this forum. Please rank





- Agreement on acceptance criteria for "New Approach Methodologies" (NAMs) within specific contexts of use
- Review of quality control and batch release requirements to encourage broader acceptance of the use of 3Rs-compliant methods where possible
- Support for the phasing out of obsolete tests
- Development of a **regulatory position paper on 3Rs** which could be shared with other medicines regulatory authorities (e.g., through The International Coalition of Medicines Regulatory Authorities (ICMRA))
- **Training and competence building** through exchange of information on 3Rs-compliant methods (e.g. case studies, qualification approaches, acceptance criteria)
- Sharing of information on 3Rs activities and developments in the participating regions

Ouestion 7: **Mechanisms of Interaction**

EMA provides a number of supports for developers of 3Rscompliant methods and mechanisms for regulatory interaction. Which of the following opportunities are you aware of? Multiple options can be selected.





- Innovation task force (ITF)
- Qualification Procedure
- Scientific Advice (human medicines development)
- Scientific Advice (veterinary medicines development)
- Voluntary submission of data ("safe harbour")



Question 8-11: Mechanisms of Interaction continued

- 8. Have you or your organisation used any of these in the past?
- Yes
- No
- 9. If yes, please specify
- Open text
- 10. Do you or your organization plan to use any of these in the future?
- Yes
- No
- 11. If yes, which one? Open text





Thank you

Any Questions / Suggestion?

3Rs@ema.europa.eu Follow us







