



EUROPEAN MEDICINES AGENCY
SCIENCE MEDICINES HEALTH

Developing a framework of collaboration between EMA and Academia

Partnership with academia: today and tomorrow

Healthcare Professionals Organisations' Working Party 15 June 2016

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An agency of the European Union





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The European Medicines Agency is at the core of the European Union's (EU's) medicine and health system, and aims to protect human and animal health. To ensure that the system works effectively, the Agency works closely with its partners and stakeholders, and is a proactive member of important networks in Europe and beyond.

For more information on these partners and networks, see:

- [EU and the Agency](#)
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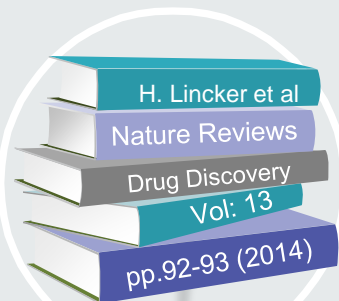
- Support for patient focused innovation and contribute to a vibrant life science sector in Europe
 - Facilitate innovation to ensure patient access to new medicines
 - Greater collaboration across network to support innovation
- Consider further incentives to support beneficial innovation, including a European early stage innovative medicines designation, with subsequent optimisation of development
- Ensure timely access to new beneficial and safe medicines for patients
 - Better understanding of existing tools (conditional MA, accelerated assessment...) and prospective planning of their use

Origins of new medicines [EU 2010-2012]

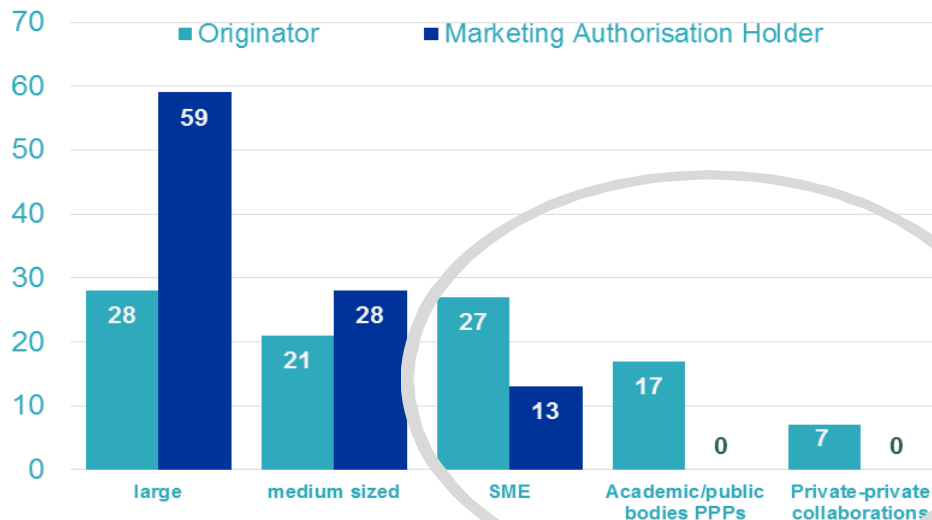


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Of 94 novel *authorised* medicinal products:

- Large majority marketed by large or intermediate sized companies.
- SMEs and academia at the origin of innovation.

EMA and Academia collaboration today

(non-exhaustive snapshot)



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Education and
communication

Research

Medicines
development and
evaluation

- HCP and **Joint HCP and PO working party**
- Participation to **education programs** from both sides e.g. Academic Master courses, EMA webinars
- **PPP educational programs** (e.g. IMI Pharmatrain, Safescimet, Emtrain)
- Participation to **scientific events**, workshops and conferences (e.g. Joint workshops on specific themes, conferences addressed to HCP, Academia, patients and society)
- **Joint publications** in peer reviewed journals

- **Networks Platforms** for advancing good practices in research and share experience (ENPREMA, ENCEPP) including regulatory science
 - **Regulatory outcomes research** (e.g. Experts detached at the Agency)
 - **Commissioned studies** (e.g. in Pharmacovigilance)
- **Cooperation in EU research projects** (e.g. IMI PROTECT, WEB-RADAR, Adapt Smart)

- **Product Specific support**
 - Provide R&D advice and MA input in decision-making: membership in Scientific Advice, SAGs, Committees
 - Evidence generation (e.g. Registries, Pharmacoepidemiology studies, PG studies)
- **Regulatory science standards setting**
 - Novel methods and biomarkers Scientific Advice and qualification: generating knowledge that supports biological rationale and methods for drug development
 - Participation in specialised expert groups and working parties (e.g. SAWP, AMR, PG, M&S, Stats methods etc)
 - Consultation and dissemination of guidelines

Which **tools** have face validity and are validated to correlate with a clinical outcome? (e.g. in a neuromuscular disease)

Valid biomarkers and scales (widely used does not mean validated..)

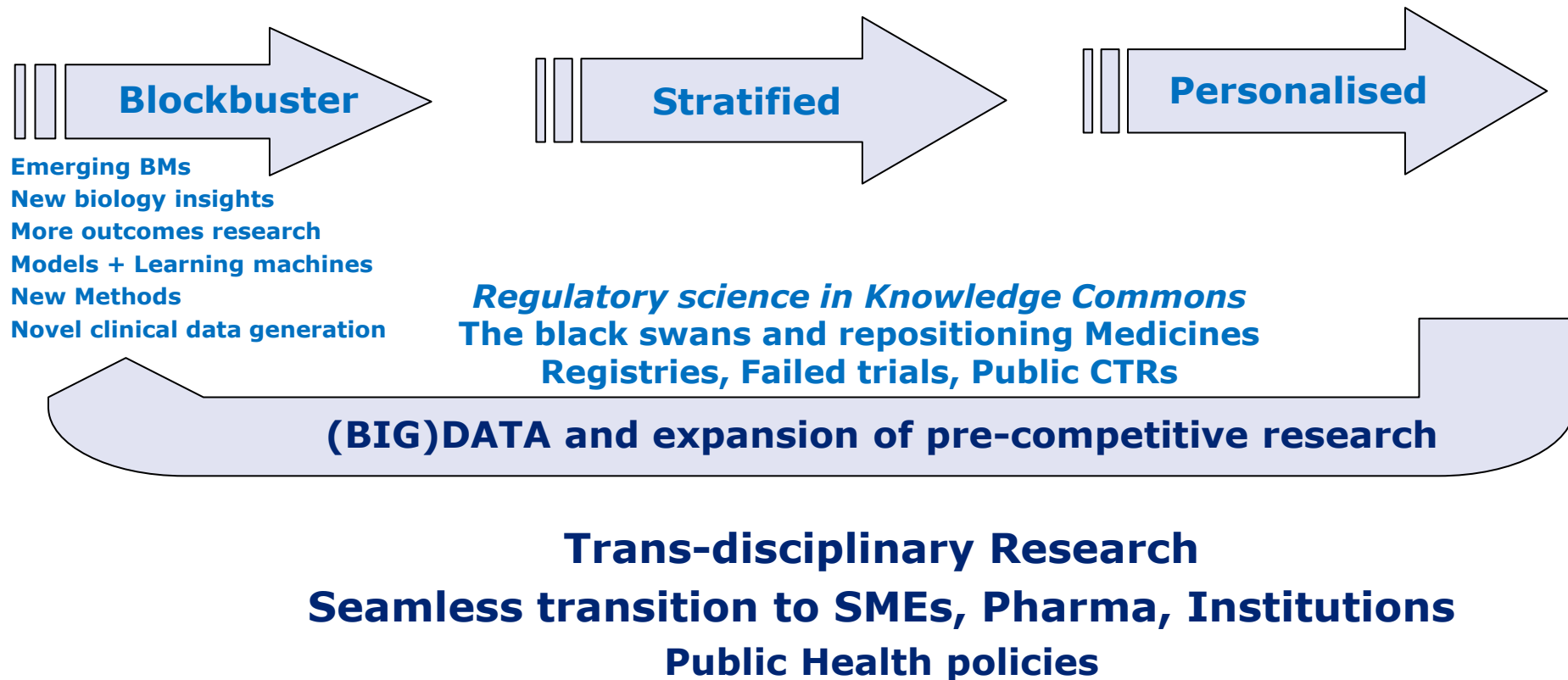
- Prognostic biomarkers (asymptomatic or early stage)
 - Biomarker trajectory, disease activity and severity
 - Biomarkers for prediction of response
 - Confounding effects must be explored
-
- Muscle mass (DXA, MRI, CT...)
 - Muscle strength (Quantitative MS)
 - Performance based measures (6MWT, SPPB...)
 - PRO tools (PF-10, AM-PAC, IBM-FRS...): do we have validated scales?
 - Intervention are an adjunct to life style measure? Exercise? diet?
 - Reversal of lab data relates to improved clinical outcome?

- **How do I measure a clinically meaningful effect?**
 - Does strength increase lead to functional improvement?
 - Does an score improvement improve clinical outcomes?
 - minimum clinically important benefit?

What endpoints matter?

- **Performance measures+ PRO as co-primary endpoint?**

How do I gather the data and the information?



Building a bridge to future



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Thanks for your attention

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