



## The Landscape of Translational Medicine Detailed Elearning Course Design

Lea	Learning Unit 0 - Introduction to the course				
Icon	Activity	Title	Materials	Duration	
0	Watch	0.1. Welcome to the course	Whiteboard animation	5 min	
	Read	0.2. About the course	Text	5 min	
	Read	0.3. The definition of Translational Medicine	Definition	5 min	
•	Todo	0.4 Have a look around	Text	10 min	
•	Todo	0.5.Discover the landscape of translational medicine	Interactive roadmap	10 min	

Lear	Learning Unit 1 - Introduction to Translational Medicine					
Icon	Activity	Title	Materials	Duration		
0	Watch	1.1. Introduction to translational medicine	Lecture (Alain van Gool)	10 min		
•	Todo	1.2. Understanding the drug discovery process and the pipeline	Emodule	30 min		
0	Watch	1.3. Challenges risks and costs	Lecture (Anton Ussi)	10 min		
\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Test	1.4. What do you know about the R&D pipeline?	Quiz	5 min		
•	Todo	1.5. Evaluation	Evaluation form	5 min		

Lea	Learning Unit 2 - Target validation				
Icon	Activity	Title	Materials	Duration	
0	Watch	2.1 Introduction to target validation	You tube video	10 min	
0	Watch	2.2. Target based vs phenotypic screens	Lecture (Bob Harris)	10 min	
	Read	2.3. Know your target	Article	15 min	
0	Watch	2.4. Case studies in target validation	Lecture (Bob Harris)	10 min	
	Test	2.5. Test your knowledge	Quiz	15 min	
•	Todo	2.6. Evaluation	Evaluation form	5 min	

















Lea	Learning Unit 3 - Preclinical testing & Predictive models				
Icon	Activity	Title	Materials	Duration	
0	Watch	3.1.Introduction to preclinical testing and Predictive models	Lecture (David Morrow)	10 min	
0	Watch	3.2. Role of ADME in discovery/ development	Lecture (Bob Harris/ CDRD)	10 min	
0	Watch	3.3. Regulatory toxicology testing	Lecture (Ruth Roberts)	15 min	
0	Watch	3.4. Concordance	Lecture (Ruth Roberts)	10 min	
92	Discuss	3.5. Good and bad predictive models	Discuss	15 min	
0	Watch	3.6 New developments: organs on a chip	Youtube video	3 min	
0	Watch	3.7. New models for predicting drug toxicity	Lecture (David Morrow)	10 min	
	Test	3.8. What do you know about predictive models?	Quiz	5 min	
<b>&amp;</b>	Todo	3.7. Evaluation	Evaluation form	5 min	

Lea	Learning Unit 4 - Biomarkers				
Icon	Activity	Title	Materials	Duration	
0	Watch	4.1. Introduction to biomarkers	Lecture (Alain van Gool)	10 min	
•	Todo	4.2. Biomarker mindmap	Mind map activity	10 min	
0	Watch	4.3. Personalized medicine	Lecture (Alain van Gool)	10 min	
0	Watch	4.4. Technological developments	Lecture (Alain van Gool)	10 min	
•	Todo	4.5. Final biomarker mindmap	Mind map activity	15 min	
0	Watch	4.6 New data	Lecture (Alain van Gool)	10 min	
0	Watch	4.7. Biomarker innovation gap	Lecture (Alain van Gool)	10 min	
0	Watch	4.8. Good biomarker practice	Lecture (Alain van Gool)	10 min	
<u>*=</u>	Test	4.9 What do you know about biomarkers?	Quiz	5 min	
•	Todo	4.10 Evaluation	Evaluation form	5 min	

Lea	Learning Unit 5 - Clinical trial design and implementation				
Icon	Activity	Title	Materials	Duration	
0	Watch	5.1. What is a clinical trial	Youtube	5 min	
0	Watch	5.2. Clinical trial objectives, methodology and design	Lecture (Jacques Demotes)	10 min	
0	Watch	5.3. Regulatory environment of clinical trials	Lecture (Christine Toneatti)	10 min	
0	Watch	5.4. Ethics and safety	Lecture (Christine Toneatti)	10 min	
	Read	5.5. Hot topics in clinical trial design	Recommended articles	10 min	
•	Todo	5.6. What do you know about clinical trials?	Quiz	10 min	

















Lea	Learning Unit 6 - Intellectual Property & Regulatory Environment				
Icon	Activity	Title	Materials	Duration	
0	Watch	6.1. Introduction to Intellectual Property	Lecture Hilde Stevens	10 min	
•	Todo	6.2. Different types of IPR	Quiz	10 min	
0	Watch	6.3. Open Innovation models	Video & recommended readings	20 min	
	Test	6.4. How much do you know about EU regulatory environment?	Test	10 min	
0	Watch	6.5. The History of the EU regulatory system	Emodule	20 min	
	Read	6.6 Life of a pill	Read	10 min	
	Test	6.7 Questions about Life of a pill	Quiz	10 min	
•	Todo	6.8 Evaluation	Evaluation form	5 min	

Learning Unit 7 - Course closure				
Icon	Activity	Title	Materials	Duration
•	Todo	7.1 Final evaluation	Evaluation form	5 min
	Read	7.2 Farewell	Final comments	5 min
•	Todo	7.3 Certificate	Download of certificate	1 min

This project receives funding from the European Union's Erasmus Plus programme under grant agreement 2015-1-NL01-KA203008986. This publication reflects the views of the author only; the European Commission cannot be held responsible for any use which may be made of the information contained herein.











