

# **2015 PDA Europe Conference**

# Advanced Therapy Medicinal Products

1 June

**Manufacturing and Testing Challenges of ATMPs** 

Pre-Conference Workshop in cooperation with the AGORA Project, the European Open Access Research Alliance

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# Welcome to the 2015 Conference on Advanced Therapy Medicinal Products!

After prior successful events in Madrid and Florence, this time Amsterdam will host the 2015 PDA Europe Advanced Therapy Medicinal Products Conference on 2-3 June 2015 in Amsterdam, The Netherlands.

Where other general conferences leave discussions open, this will be your unique opportunity to learn about the latest information on Pre-Clinical & Clinical ATMPs, Contract Manufacturing, First-In-Human Trials, Process & Product Development, and to discuss on-site with national, European and FDA regulators.

This conference has established itself as a unique interactive discussion platform that offers plenty of opportunities for knowledge exchange between representatives of industry, academia and regulatory authorities, both from Europe and the USA. Selected podium presentations and a series of case studies encompassing a broad range of product types and approaches will illustrate how ATMPs are currently being developed and tested. Examples will come from both the academic world and industry and will cover cell therapy, gene therapy, and tissue engineering products.

This year, we are especially proud to present renowned expert speakers from Academia, Industry and these European regulatory agencies, to provide you with the latest information on the very hot topic of ATMPs:

- Finnish Medicines Agency, FIMEA / Committee for Advanced Therapies, CAT
- National Authority of Medicines and Health Products, MHRA, UK
- European Directorate for the Quality of Medicines, EDQM
- Dutch Health Care Inspectorate, IGZ , The Netherlands
- Dutch Medicines Evaluation Board, CBG MEB, The Netherlands
- Paul Ehrlich Institute, Germany
- National Authority of Medicines and Health Products, Infarmed, Portugal
- Spanish Agency of Medicines and Medicinal Devices, AEMPS

Prior to this two-day conference, PDA Europe offers a pre-conference workshop specifically dedicated to the **Manufacturing & Testing Challenges of ATMPs.**This pre-conference workshop will be held in cooperation with the AGORA Project, the European Open Access Research Alliance. Go visit them here agora-gmp.org and join our open forum on 1 June!

Panel Discussions, luncheons, dinners and a networking event in Amsterdam will complete this impressive three day program.

Why travel far when you can focus on ATMPs in Amsterdam!

Sincerely,



Dirk Groenewegen, Chair,

Margarida Menezes-Ferreira,

Istituto Superiore di Sanità (ISS)

Cells4Therapy

Tigenix

Infarmed

GSK

Fabio D'Agostino,

Newcastle University

Wilfried Dalemans,

Giovanni Migliaccio,

Valerie Pimpaneau,

Michele Myers,

Voisin Consulting

**Georg Roessling,** *PDA Europe* 

Sol Ruiz,

**AEMPS** 

Dirk Groenewegen, Cells4Therapy, 2015 Conference Chair

# Manufacturing and Testing Challenges of ATMPs

One of the challenges in the development of ATMPs is the transfer from the pre-clinical to the clinical stage. This workshop will address some of these challenges. Technical and regulatory (GMP-) Requirements that have to be fulfilled when preparing clinical trial material will also be considered, for example raw material selection and characterization, aseptic fill-finish operations, and testing of product and environmental conditions are just some aspects that will be presented and discussed. Part of the workshop will be dedicated to the question whether GMP activities should be outsourced. What are the pros and cons of working with a contract manufacturing partner, and what are selection criteria for or against this option. Case studies will be used as examples, and a panel discussion with experts will conclude the workshop.

#### **Workshop Moderator**

Annie Rietveld, Dutch Health Care Inspectorate (IGZ)

19 May 2015

Monday, 1 June 2015 13:00-18:00		
13:00	Welcome & Introduction	Georg Roessling, PDA Europe
13:15	The EU Agora Project, Activities & Updates	Mark Lowdell, Centre for Cell, Gene & Tissue Therapy
13:45	Pharmacopoeial Guidance	EDQM invited
14:15	Raw Materials in the Manufacture of Advanced Therapies Medicinal Products: Quality Attributes and Quality Assurance	Bernd Leistler, <i>CellGenix</i>
14:45	Fill & Finish for ATMPs	Julien Maréchal, Aseptic Technologies
15:15	Q & A, Discussion	
15:45	Coffee Break & Discussion	
16:00	Automation Strategies for Cell Therapy Production	Andrea Traube, Fraunhofer Institute for Manufacturing Engineering and Automation (IPA)
16:30	A Closed and Automated Strategy for MSCs Production: Rationale and Successful Applications	Stefano Baila, TerumoBCT
17:00	Outsourcing / Contract Manufacturing for ATMPs	Raquel Fortunato, <i>Genibet</i>
17:30	Q & A, Discussion	
18:00	Summary and Conclusion of Pre-Conference Workshop	Georg Roessling, PDA Europe



PDA is pleased to invite you to a great evening at the Royal Amsterdam Rowing & Sailing Club!

Meet with conference attendees in this unique atmosphere and network while you relax.

LOCATION K.A.R.&Z.V. De Hoop Weesperzijde 1046A

1091 EH Amsterdam

2 June 2015

WEETING POINT
VU University
Main Entrance
at 19:10 h

BUS SHUTTLE From VU University leaving at 19:15

19 May 2015

#### Tuesday, 2 June 2015

**9:00 Welcome & Introduction** Georg Roessling, *PDA Europe* 

Session 1: Regulatory Update

Moderator: Wilfried Dalemans,

Tigenix

Since Regulation of advanced therapies in the European Union came into force, a number of gene and cell therapy medicinal products have applied for marketing authorization application through the centralized procedure. Few medicinal products have been approved so far and several are under evaluation. Advanced therapy medicinal products pose specific regulatory challenges as compared to other medicines throughout development. These aspects will be reviewed and discussed.

9:15	Latest News from the CAT – Progresses and Challenges	Paula Salmikangas, FIMEA /Chair of the Committee for Advanced Therapies (CAT)
9:45	ATMP Development: An Industry Perspective	Wilfried Dalemans, Tigenix
10:15	Coffee Break & Exhibition	
10:30	European Regulation of ATMPs: Quality Assessments	Marcel Hoefnagel,  Dutch Medicines Evaluation-Board,  CBG MEB
11:00	Quality of Raw Materials for the Production of ATMPs: Ph Eur Recommendations	Jaana Vesterinen, Fimea / EDQM
11:30	Panel Discussion with Regulators	
12:00	Lunch Break & Exhibition	

Session 2: Pre-Clinical & Clinical ATMP Progress

Moderator: Margarida Menezes-Ferreira,
Infarmed

Slowly but progressively more ATMPs are reaching the market and a significant number are getting closer to a marketing authorisation submission. Approval of these complex multifactorial products, mostly under a conditional path, is often based on a sufficiently established intended action, cross referencing results gathered through the process and product characterization studies, the relation with proof of concept and non-clinical safety studies and more importantly on the results obtained for appropriately defined clinical end points. Advantages of a well-targeted product definition supporting an adequate development for well defined patient population(s) will be considered in this panel.

13:00	The Long and Winding Way to ATMP Approval	Graziella Pellegrini, University of Modena
13:30	Exploring Proteomics Toolbox: Human Cardiac Stem Cells Characterization and	Patricia Gomes-Alves,
	Rational Therapy Design	iBET & ITQB-UNL
14:00	Cell-based Therapies for Cardiac Repair:	Martina Schuessler-Lenz,
	A European Regulatory View	Paul Ehrlich Institute (PEI)
14:30	Q & A, Discussion	
15:00	Coffee Break & Exhibition	

#### PARALLEL SESSIONS

#### **Auditorium**

#### Session 3: Non-Commercial GMP

Moderator: **Dirk Groenewegen,** Cells4Therapy

The customary trial and registration route for ATMP-products is extremely laborious, time and money consuming, hence a major bottleneck for academic institutions and other non-commercial entities. At the same time there is an increasing innovation output from such parties. Consequently, clinicians and scientists around the globe are attempting to find alternative routes for getting earlier access to promising experimental therapies. For cost and legislative reasons, most of the ATMP-products intended for experimental therapies will be produced in the own GMP-facilities of such parties. In this session, we will hear from and discuss with top GMP-experts the specific issues concerning non-commercial GMP-production.

15:30	Mark Lowdell, Centre for Cell, Gene & Tissue Therapy Academic Development of ATMP's - Ethics of GMP Compliance	
16:00	Ineke Slaper Cortenbach, Utrecht University Medical Center  Development of ATMP's in the University Medical Center Utrecht, and the Regulatory Environment in Europe	
16:30	Lutz Uharek, Charité Berlin Industrial and Non-Commercial GMP, Living Apart Together	

#### **Room Aurora**

#### Session 4: GMP & Contract Manufacturing

Moderator: **Giovanni Migliaccio,** ISS

From a strategic point of view, a manufacturer may decide to manufacture in-house or subcontract a CMO. In the latter case, compatibilities of the quality systems of the developer and the CMO need to established. Companies need to make a choice regarding the role of the CMO, as sole product manufacturer or as an integrated partner of process development and validation. Technology transfer to the CMO, and product segregation at the CMO's site are other factors that need to be taken into consideration. The translation to GMP manufacturing itself contains a number of possible pitfalls that differ for Cell and Gene Therapies as well as Tissue Engineering. Selected case studies will illustrate how these different situations can be or have been handled

15:30	Jean Stanton,  J&J  Contract Manufacturing:  Challenges for a Changing Landscape
16:00	Raquel Fortunato,  Genlbet  Case Study: Use of Isolator Technology on Aseptic Filling of Final Products for Clinical Trials
16:30	Matthias Hebben,  Genethon  AAV Vector Manufacturing and Control: Points to Consider during the Development Phase
17:00	Jean-Sebastien Parisse, Aseptic Technologies Scaling up for Commercial Manufacturing of an Allogeneic Product

#### 17:30 Panel Discussion with European Regulators

**Paula Salmikangas,** Finnish Medicines Agency, FIMEA / Chair of CAT

**Ian Rees,** National Authority of Medicines and Health Products, MHRA, UK

**Jaana Vesterinen,** Finnish Medicines Agency, FIMEA / EDQM

Moderator: **Margarida Menezes-Ferreira,** National Authority of Medicines and Health Products, Infarmed, Portugal

Annie Rietveld, Dutch Health Care Inspectorate, IGZ

Marcel Hoefnagel, Dutch Medicines Evaluation Board, CBG MEB

Sol Ruiz, Spanish Agency of Medicines and Medicinal Devices, AEMPS

Martina Schuessler-Lenz, Paul Ehrlich Institute, Germany

#### 18:30 End of Day 1

19:30 Networking Event in Amsterdam

#### Wednesday, 3 June 2015

Session 5:	GMP Manufacturing & Regulatory Compliance	Moderator:	Georg Roessling, PDA Europe
8:00	Challenges of Manufacturing of ATMPs for Clinical Trials		Gerno Schmiedeknecht, Fraunhofer Institute for Cell Therapy and Immunology (IZI)
8:30	Lesson Learned from Audits of ATMPs Manufacturers and Associated Critical Raw Materials Suppliers		Paul Fiorio, Novartis
9:00	MHRA's Regulatory Inspection Observations of Cell & Gene Therapy Facilities		lan Rees, MHRA
9:30	Panel Discussion on Inspections featuring: Dutch Health Care Inspectorate, IGZ Medicines & Healthcare Regulatory Agency, MHRA Paul Ehrlich Institute, PEI National Authority of Medicines and Health Products, Infarmed	Moderator:	Georg Roessling, PDA Europe
10:00	Coffee Break & Exhibition		
Session 6:	Downstream Processing & Final Formulation	Moderator:	Fabio D'Agostino,

The specific nature of cell therapy medicinal products, being complex, of large size, and living entities, makes the downstream processing of these products a real challenge. Standard purification and sterilization methods cannot (readily) be applied. Nevertheless, the presence of particulates and pathogens must be prevented. Moreover, the choice of excipients for the final product formulation along with packaging and transportation conditions need to be tailored in order to guarantee the viability and potency of the shipped cell therapy medicinal product. Currently, at an early stage, an increasing number of downstream processing options are becoming available for cell therapy. The selected presentations will address these final process steps and illustrate how efficient solutions can be/have been found.

Newcastle University

10:30	Application of Filtration Methodologies for the Concentration and Washing of Human Mesenchymal Stem Cells	Barbara Cunha, iBET & ITQB-UNL
11:00	Manufacturing Challenges of ATMPs	Francis Meacle, Janssen Cilag
11:30	The Impact of Cryopreservation on Mesenchymal Stromal Cells (MSCs): To freeze or not to freeze?	Johanna Nystedt, Finnish Red Cross Blood Service
12:00	Lunch Break & Exhibition	

Session 7:	Process Development & Characterization	Moderators:	Sol Ruiz, AEMPS
			Manuel Carrondo, iBET

The need for process development for medicinal products is a given. Nevertheless, translating classical concepts of PD to Cell and Gene Therapy products necessitates a good understanding of the specifics of these products, both from the process side as well as from the product side. Process validation needs e.g. to take into account the autologous or allogeneic nature of the product as well as inherent biological variability of a living drug substance. Given the complex and adaptive nature of biological activity, it will ultimately be key to broadly characterize the product from different angles so to be able to control the consistency of the product batches.

13:00	Autologous Product Development using Patients' Starting Materials: What is possible, what is feasible, and what are the challenges?	Karin Hoogendoorn, <i>Novartis</i>
13:30	Justification of Specifications (JOS)	Christopher Bravery,  Advanced Biologicals

14:00	Preparing for Comparability:	David Williams,
	Quantification of Process Input Variation	Loughborough University

14:30 Coffee Break & Exhibition

Session 8: Challenges in Demonstrating Comparability for Moderators: Michele Myers, GSK

Cell and Gene Therapy Products Valerie Pimpaneau, Voisin Consulting

Changes in the production process, analytical procedures, manufacturing equipment and/or facilities are inevitable during clinical development. The challenge is to demonstrate that the specific CMC changes have not drastically impacted identity, strength, quality, purity or potency of the product without additional clinical or pre-clinical studies. During the course of clinical development, our understanding of product quality is bound to evolve. The focus of the comparability exercise is to determine the relationship between product quality and safety as we move along the different clinical development phases. For cell and gene therapies, this challenge is further amplified by inherent product and process variability and our relatively limited ability to fully characterize the product. Speakers during this session will share their experience and provide examples to illustrate how, despite the challenges, they have successfully designed comparability studies and associated analytical tools to confirm the consistent safety and effectiveness of the product throughout development.

15:00	Autologous Gene Therapy Manufacturing Comparability:	Michael Paglia,
	Meeting the Challenge through Process Understanding and	Bluebird Bio
	Product Characterization	
15:30	Case Study: Demonstrating Comparability of Clinical and Commercial	Smaragda Angelidou,
	Processes for an ADA-SCID Autologous HSPC Gene Therapy	GSK
16:00	Case Study: Comparability of MSC's during Scaling Up -	Ohad Karnieli,
	From Design to Approval	Pluristem Therapeutics
16:30	Q & A, Discussion	
17:00	Closing Remarks & Farewell	



#### **Contacts**

For additional conference information please contact

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#### **Venue of Conference**

#### **VU University Amsterdam**

Room: Auditorium De Boelelaan 1105 1081 HV Amsterdam

For hotel accommodation at a special rate, please visit our website europe.pda.org/ATMPs2015.

#### **Pre-Conference Workshop**

in cooperation with the Agora Project www.agora-gmp.org

#### How to find the venue:



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Your Contact Person is Antje Petzholdt at PDA Europe petzholdt@pda.org

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#### **10** For assistance contact: Antje Petzholdt, PDA Europe

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THANK YOU FOR YOUR COOPERATION!

## **PDA Europe Upcoming Activities and Events**

2015			
2-3 June	Advanced Therapy Medicinal Products	Conference, Exhibition	Amsterdam The Netherlands
9-11 June	Virus / TSE Safety Forum	Conference, Exhibition	Lisbon (Cascais) Portugal
23-24 June	Quality & Regulations	Conference, Exhibition	Brussels Belgium
30 June - 1 July	Managing Risk in Aseptic Processing	Conference	Tel Aviv Israel
10-11 September	Particles in Injectables	Conference, Exhibition	Berlin Germany
15-16 September	Pharmaceutical Freeze Drying Technology	Conference, Exhibition	Munich Germany
22-23 September	8 <sup>th</sup> Workshop on Monoclonal Antibodies	Workshop, Exhibition	Berlin Germany
6-7 October	Pharmaceutical Cold & Supply Chain Logistics	Conference, Exhibition	Amsterdam The Netherlands
3-4 November	The Universe of Pre-filled Syringes & Injection Devices	Conference, Exhibition	Vienna Austria
17-18 November	Outsourcing / Contract Manufacturing	Conference, Exhibition	Copenhagen Denmark
1-2 December	Vaccines	Conference, Exhibition	Berlin Germany
For latest info: https://europe.pda.org		Subject to change	Shortlist 19 May 2015

Additional training courses will accompany most conferences. For details, please use the QR-Code or go to www.europe.pda.org

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