

## Module 22: Regulatory Requirements for Cell Tissue and Gene Therapies

LOCATION: TOPRA OFFICE, LONDON, UK

Module Leader(s): Shaun Stapleton, ReNeuron Limited

Date: 6<sup>th</sup> - 8<sup>th</sup> September 2021



### Monday 6<sup>th</sup> September

| Time          | Activity   | Speaker                                |
|---------------|--|--|
| 11.00 - 11.30 | <b>Registration and coffee</b>   |  |
| 11.30 - 12.30 | <ul style="list-style-type: none"><li>Lecture 1 : ATMP legislation – an overview<ul style="list-style-type: none"><li>What is an ATMP?: EU/EEA/UK, US, Japan</li><li>Legislative framework and key guidance</li><li>How does the legislative control vary between regions?</li><li>Overlap with blood and tissues legislation</li><li>Agency organisational and review specifics relating to ATMPs – e.g. CAT, OTAT.</li></ul></li><li>Commission vs EMA vs MSs responsibilities</li></ul> | Alison Wilson<br>Cell Data Services    |
| 12.30 - 13.30 | <b>Lunch</b>   |  |
| 13.30 - 14.15 | <ul style="list-style-type: none"><li>Lecture 2 : ATMP classification and certification procedures<ul style="list-style-type: none"><li>borderlines between different types of ATMP – the importance of early, correct classification to guide development plans</li><li>procedures to confirm classification in EU and US</li><li>certification procedure in EU</li></ul></li></ul>   | Daniel Rabbie<br>Achilles Therapeutics |
| 14:15 - 15:00 | <ul style="list-style-type: none"><li>Lecture 3 : Drug-device combinations<ul style="list-style-type: none"><li>how ATMP drug device combination products are handled in EU and US</li><li>combined ATMPs, interactions with Notified Bodies</li><li>regulation of products made from non-viable tissues</li><li>interface between tissues and devices</li></ul></li></ul>   | Shaun Stapleton<br>ReNeuron            |
| 15:00-15:30   | <ul style="list-style-type: none"><li><b>Refreshment Break</b></li></ul>   |  |
| 15:30 - 16:30 | <ul style="list-style-type: none"><li>Lecture 4 : Legislation and procedures relating to GMOs</li></ul>  | Sabine Ruehle, Boyd Consultants        |



| <b>Time</b>   | <b>Activity</b>   | <b>Speaker</b>                  |
|---------------|---|---------------------------------|
| 09:00 – 10:30 | <ul style="list-style-type: none"> <li>• Lecture 5 : Quality/ CMC considerations                             <ul style="list-style-type: none"> <li>• Definitions: starting materials, raw materials, DS, DP, and excipients</li> <li>• Control of materials</li> <li>• Cell banking system and testing/specifications</li> <li>• Development of the manufacturing process</li> <li>• Process control (critical quality attributes, critical process parameters and in-process testing).</li> <li>• Overall control of adventitious agents (risk mitigation and testing)</li> <li>• Importance of process and product characterisation</li> <li>• Analytical methods (focus on potency), reference materials and setting specifications.</li> <li>• Stability studies</li> <li>• Comparability considerations during development and post-approval</li> </ul> </li> </ul> | Christopher Bravery<br>Advbiols |
| 10.30 – 11:00 | <b>Refreshment break</b>  |                                 |
| 11:00 – 12.00 | Lecture 5 continued   | Christopher Bravery<br>Advbiols |
| 12.00 – 13.00 | <b>Lunch</b>  |                                 |
| 13.00 – 15.30 | Case study – comparability for ATMPs  | Christopher Bravery<br>Advbiols |
| 15.30 - 16.00 | <b>Refreshment Break</b>  |                                 |
| 16.00 – 17.00 | <ul style="list-style-type: none"> <li>• Lecture 6 : GMP for ATMPs                             <ul style="list-style-type: none"> <li>○ GMP issues specific to ATMPs</li> </ul> </li> </ul>   | Emma Ewins<br>NSF               |



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|--------------------------|---|--|
| 09.00 – 10.45            | <ul style="list-style-type: none"> <li>• Lecture 7 : Non-Clinical considerations               <ul style="list-style-type: none"> <li>• Overview of key nonclinical studies required by ATMP classification</li> <li>• Key differences relevant to ATMPs compared to biologics and small molecules (e.g. distribution/PK, migration)</li> <li>• EU risk based approach to ATMP development</li> <li>• Challenges with animal and disease models</li> <li>• Toxicology study design and assessment</li> <li>• Non-GLP / GLP requirements</li> <li>• Biodistribution</li> <li>• Tumorigenicity</li> <li>• Immunogenicity</li> <li>• Immunotoxicity</li> <li>• DART</li> <li>• Clinical Translation</li> <li>• There is more than one approach to meet regulatory requirements – comparison of marketed ATMPs.</li> <li>• Supporting information for GMO risk assessments</li> </ul> </li> </ul> | Lee Coney<br>Cell and Gene Therapy<br>Catapult |
| <b>Refreshment Break</b> |   |  |
| 10.45 – 11.15            |   |  |
| 11.15 – 12:15            | <ul style="list-style-type: none"> <li>• Lecture 8 : Clinical considerations               <ul style="list-style-type: none"> <li>• Challenges of clinical protocol design and consistent clinical procedures, including masking and blinding complications.</li> <li>• Long-term follow-up.</li> <li>• Interface with CMC and nonclinical (e.g. comparability, potency assays)</li> </ul> </li> </ul>  | Gopalan Narayanan                              |
| <b>Lunch</b>             |   |  |
| 12:15 - 13.15            |   |  |
| 13.15 - 13.45            | <ul style="list-style-type: none"> <li>• Lecture 9: GCP for ATMPs</li> </ul>  | Celia Gibson<br>Celia Gibson QA Limited        |
| 13:45 – 14:30            | <ul style="list-style-type: none"> <li>• Lecture 10 : Expedited programmes and orphan drug issues               <ul style="list-style-type: none"> <li>• US</li> <li>• EU/EEA</li> <li>• Japan</li> <li>• UK</li> <li>• Special considerations for orphan drugs, including challenges of defining same or similar products for ATMPs</li> </ul> </li> </ul>   | Shaun Stapleton<br>ReNeuron                    |



14:30-15:00

**Refreshment Break**

15:00 – 16:30

- Case study – fictional development programme for ATMPs

Shaun Stapleton  
ReNeuron

16:30

**Close of Module**