

EU Support to ATMP Developers

CAT workshop on Cell-based Cancer Immunotherapy Products

Presented by Patrick Celis CAT Secretariat





Overview

Support to ATMP development by European Commission (DG RTD)

 Support by European Medicines Agency and National Competent Authorities (NCAs) for Medicines

Funding instruments within Horizon 2020

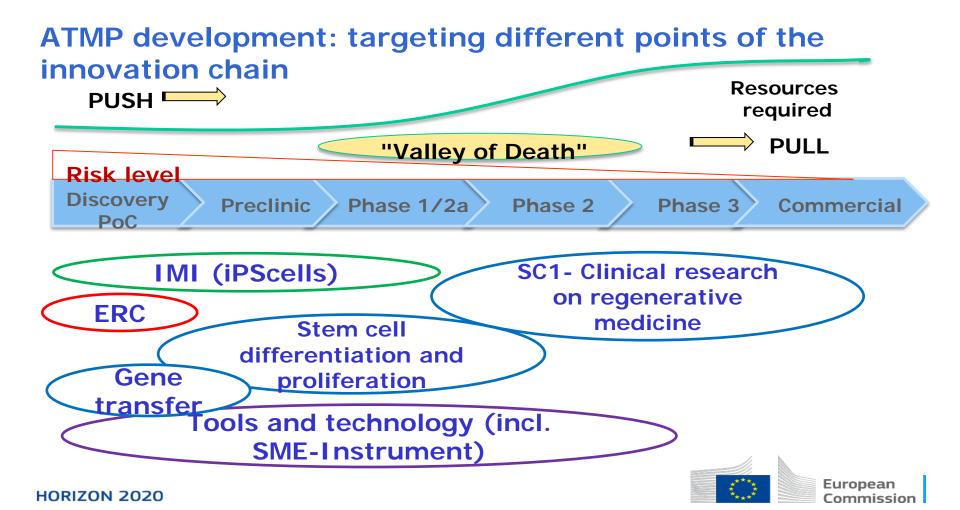


H2020 pillars Excellent

European

Commission

HORIZON 2020



How much? - Regenerative Medicine research

✓ 2007-2013 (FP7)

Gene therapy/Gene transfer

> € 240 million (collaborative projects, ERC, MSC grants)

Cell Therapy

> € 460 million (collaborative projects)

✓ 2014-2020 (Horizon 2020, to date):

Gene therapy/Gene transfer

€ 30.5 million for 5 collaborative projects

Cell Therapy

€ 114 million for 20 collaborative projects

More info at RTD: C. Kessler, D. Gancberg, J. Sautter

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When?- Opportunities in 2017

Two topics open in forthcoming calls for proposals...

1. Clinical research on regenerative medicine

- SC1-PM11-2016-2017
- Clinical research –any stage; proof of regulatory engagement
- Collaborative research min 3 EU/assoc countries
- Indicative budget: €30 million (2017)
- ~ €4-6 million per project depending on work
- Deadline: 11 April 2017

2. Cell technologies in medical applications

- SMEInst-05-2016-2017 "Supporting innovative SMEs in the healthcare biotechnology sector"
- SME Instrument 1 SME only (can subcontract) Phase 1 Feasibility study (€50,000 lump sum)
- Phase 2 Research/Innovation (~€1-5 million depending on work)
- Indicative budget:
 - 2016: €35 million 2017: €80 million
- Multiple deadlines



IMI interest in Advanced Therapies

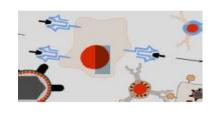
 Consultative workshop on advanced therapies IMI Stakeholder Forum, Brussels, 29 September 2016

http://www.imi.europa.eu/events/2016/06/24/imi-stakeholder-forum-2016

2. ADAPT SMART Accelerated Development of Appropriate Patient Therapies - a Sustainable, Multi-stakeholder Approach from Research to Treatment-outcomes

http://adaptsmart.eu/

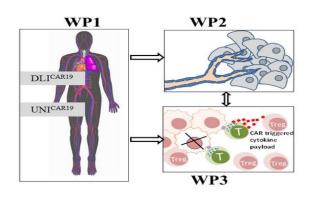




ATECT: Advanced T-cell Engineering for Cancer Therapy



- CAR T cells: TALEN-mediated gene editing strategies alongside genetic modification with integrating vectors for treatment of CD19+ refractory lymphoma.
- Strategy for creation of universal engineered T-cells.
- Engineer CAR T-cells to be resistant to the hostile microenvironment.
- Utilise endothelial cues of neo-angiogenesis to direct CAR T-cell migration and activity.
- Performance of a phase I clinical trial.





https://atect-fp7.org/

Coordinator: Dr. Martin Pule (UCL)





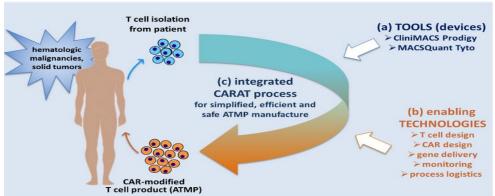
CARAT: Chimeric Antigen Receptors (CARs) for Advanced Therapies



Goal: Development of a platform that will enable the automated, safe, and cost efficient manufacture of more effective CAR-modified T-cells for personalized treatment of cancer patients.

Start: 01 January 2016

EC contribution: € 6 million



OSPEDALE SAN RAFFAELE Miltenyi Biotec Paul-Ehrlich-Institut UNIVERSITATS **TrakCel** Inserm

http://carat-horizon2020.eu

Coordinator: Dr. Andrew Kaiser (Miltenyi)

HORIZON 2020



Support by EMA and NCA

- Early interactions with Regulators
 - EMA's Innovation Task Force and Innovation Offices in NCA
 - SME office
- 2. Advanced Therapy Medicinal Product (ATMP)-specific support by CAT:
 - Classification and Certification
- Scientific Advice (by EMA and NCA)
- 4. Support for early access:
 - PRIME (Priority Medicines)



Support to ATMP developers - Interactions with EMA/CAT

- Briefing meeting with EMA Innovation Task Force
 - Platform for early dialogue on scientific, regulatory and legal requirements
 - Informal, not binding
 - EMA staff + members for Committees & working parties
 - Since 2009: 82 meetings with ATMP developers; 57 with participation of CAT or WP members.
- Innovation offices in NCAs direct interactions with national regulators to discuss early development questions



Picture: www.upwardsleader.com



Support to ATMP developers - Interactions with EMA/CAT

SME office

- Administrative / regulatory and financial support to SME companies
- SME office will
 - facilitate communications with dedicated EMA staff to respond on practical / procedural issues
 - Organise workshops and training
- SME user guide
- sme@ema.europa.eu



ATMP-specific procedures

ATMP classification

- Incentive: early / regulatory certainty
- Open to all applicants free-of-charge
- Scientific recommendation from CAT on the regulatory classification of their ATMP

ATMP certification

- Incentive: (early)-late / scientific certainty
- Only for SMEs
- Scientific evaluation by CAT of quality / manufacturing (CMC) data (Module 3) and non-clinical data (Module 4)
 - → 'pre-assessment' of data already generated



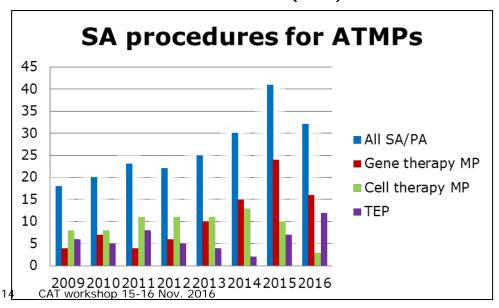
Scientific Advice

- Incentive: Early-late, scientific certainty
- Open to all applicants
 - Reduced fee for ATMPs
- Advice on future development steps (Q/NC/C)
 - Prospective, no assessment of data
- Advice on post-authorisation safety studies
- Possibility for
 - Joint advice from Regulators /Health Technology Assessment (HTA) bodies
 - Parallel scientific advice with FDA
- Scientific advice for ATMPs is given by the scientific advice working party of the CHMP in collaboration with the CAT

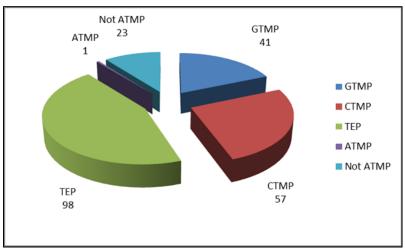


CAT Experience (Jan 2009 – August 2016)

- ATMP classifications (220)
- ATMP certification (7)
- ATMP scientific advice (205)



Finalised ATMP classifications



PRIME (Priority Medicines)



- To foster development of medicines with a high public health potential
 - Reinforced scientific and regulatory advice
 - Optimise development for robust data generation
 - Enable accelerated assessment

- Eligibility to PRIME:
 - Potential to address an unmet medical need
 - Scientific justification based on data / evidence from non-clinical and clinical development

Features of the PRIME scheme

Early access tool, supporting patient access to innovative medicines.

- Written confirmation of PRIME eligibility and potential for accelerated assessment;
- Early CHMP/CAT Rapporteur appointment during development;
- Kick off meeting with multidisciplinary expertise from EU network;
- Enhanced scientific advice at key development milestones/decision points;
- EMA dedicated contact point;
- Fee incentives for SMEs and academics on Scientific Advice requests.

Prime Eligibilities for ATMPs

21 applications received, 7 eligiblities agreed





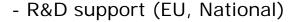




- Interactions with Rapporteurs
- Scientific Advice (Q, NC, C)
- PRIME
- ATMP certification
- Scientific advice (Q, NC)



- ATMP Classification





Thank you for your attention

Further information on the EMA procedures: www.ema.europa.eu > Human Regulatory

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