

MUNI
MED

CZEch Clinical Research Infrastructure Network



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CZEch Clinical Research Infrastructure Network

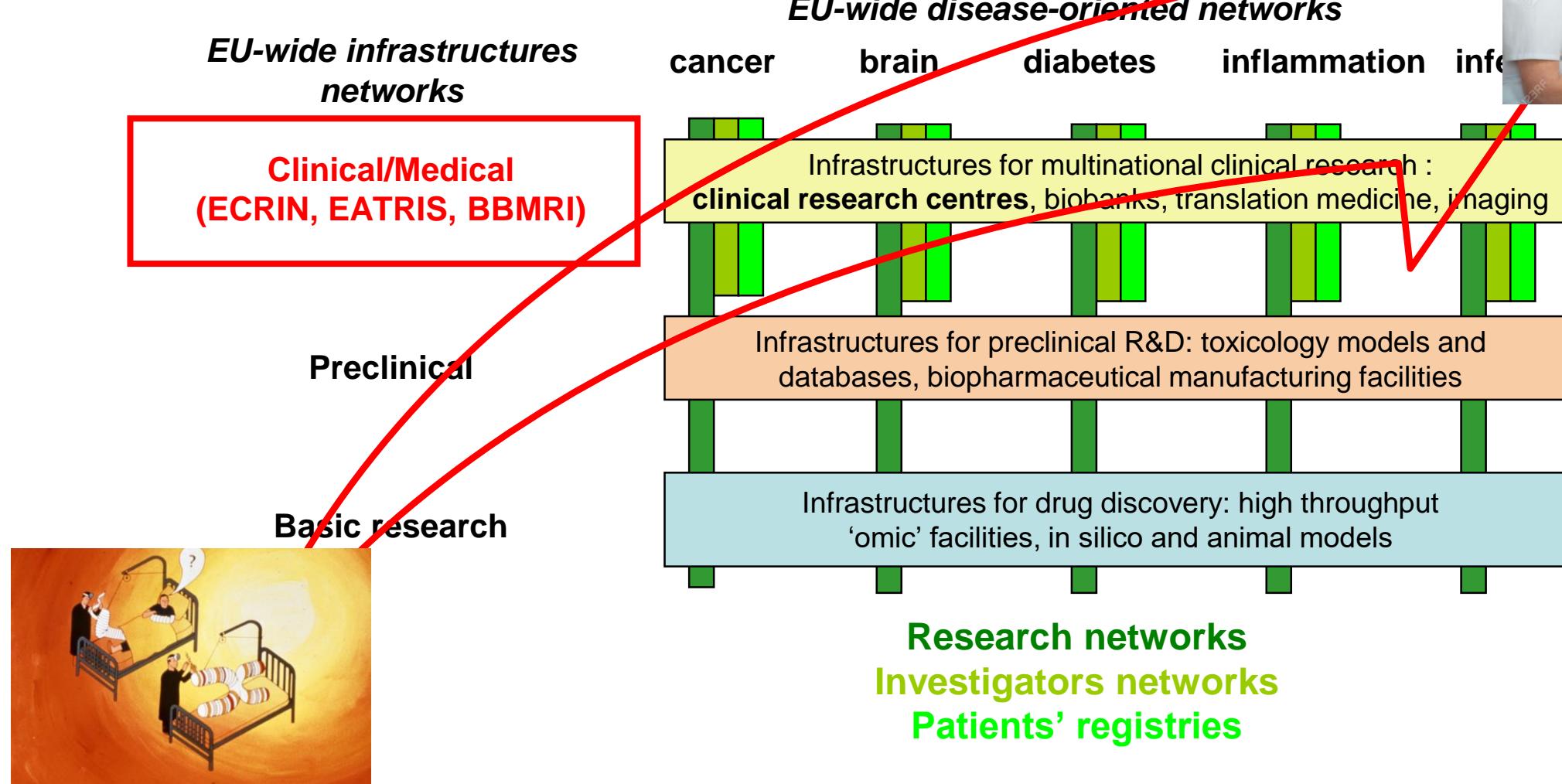
MISSION:

to create a sustainable research infrastructure network for multicenter academic clinical trials in the Czech Republic. Development of CZECRIN as the Czech national node within the ECRIN-ERIC will allow better linking of the Czech clinically-oriented researchers with application sphere at EU level.

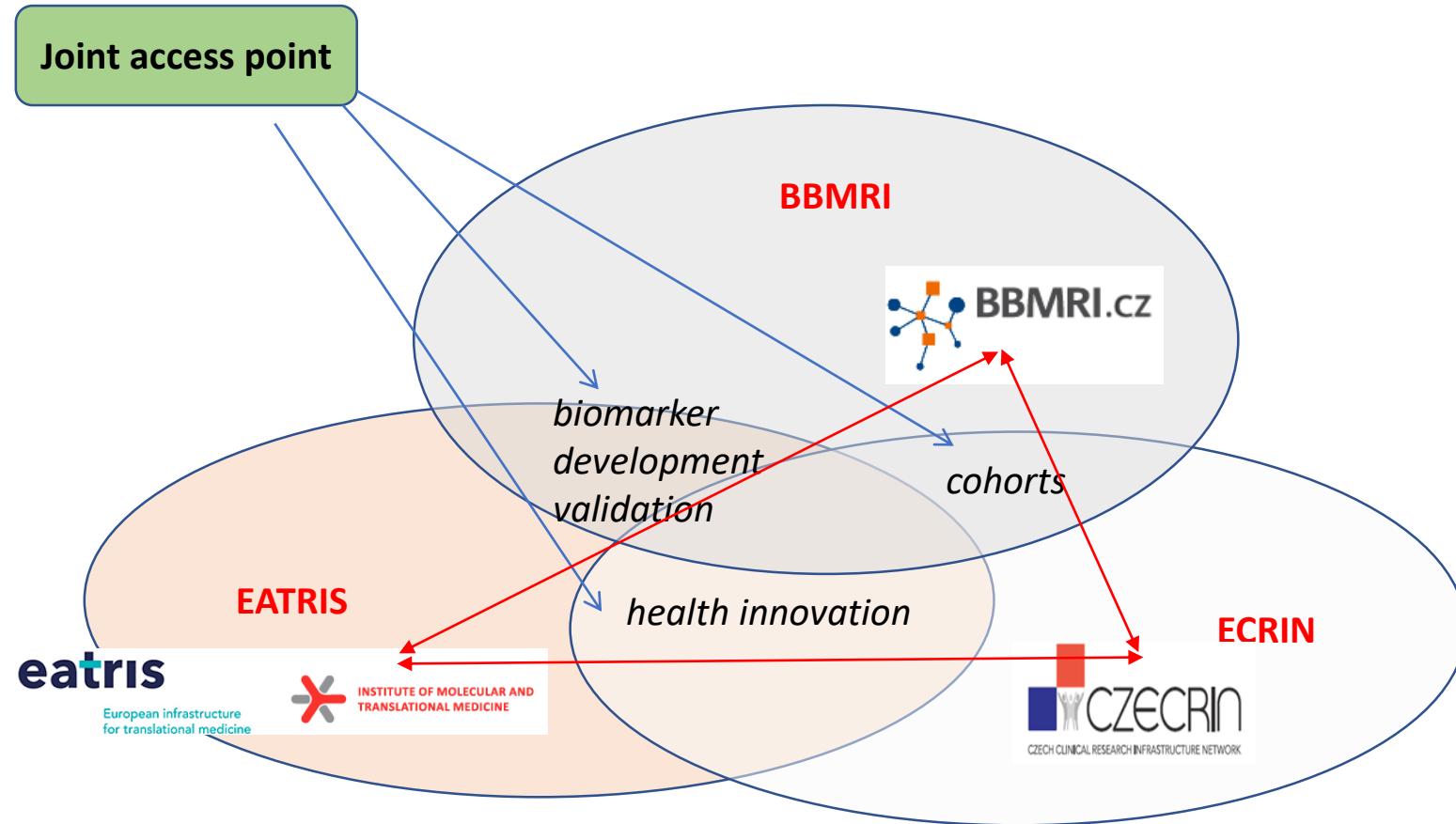
VISION:

“when science help patients”

European Biomedical Research Infrastructures

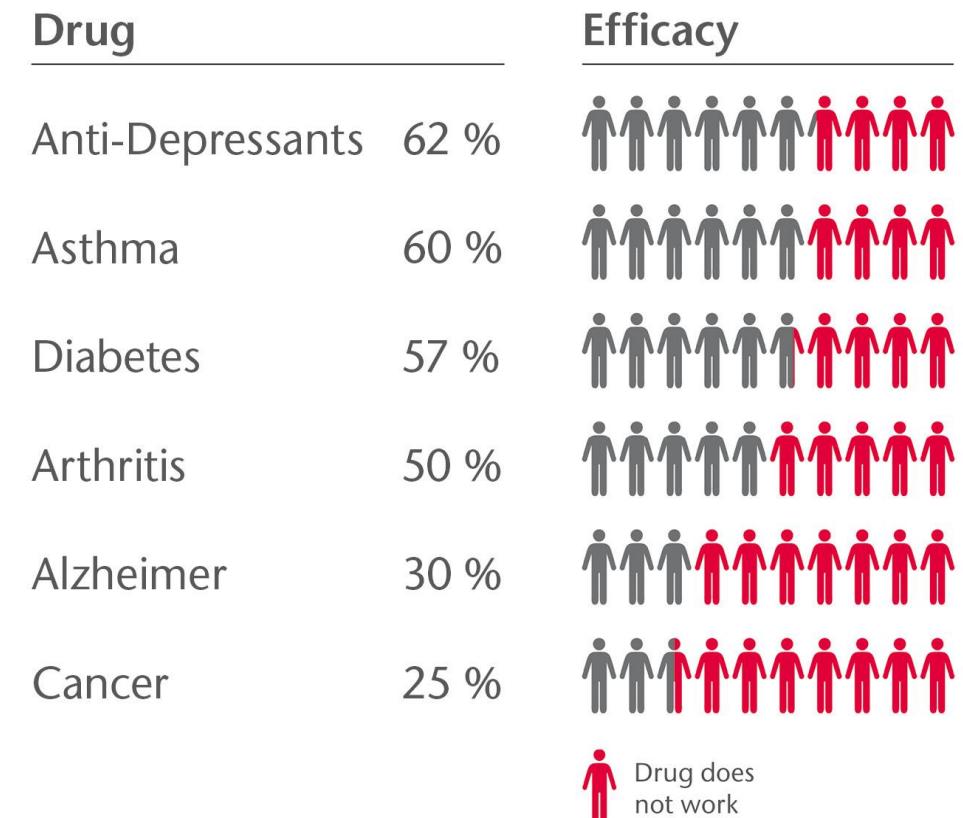


Cooperation of medical research infrastructures



CZEch Clinical Research Infrastructure Network

- podporovat inovační činnosti v oblasti ochrany zdraví, se zvláštním důrazem na rozvoj **nekomerčních klinických studií** (mimo oblast fungujících komerčních studií iniciovaných průmyslem)
- jejich cestou **iniciovat a realizovat vlastní vědecký výzkum a vývoj**
- tímto přinášet vlastní výsledky, které jsou základem pro **řízení lékařské a zdravotní péče na základě důkazů vědeckých**
- **financování pro nekomerční studie na národní úrovni** (mimo systém komerčních sponzorů)



Key Objectives ECRIN-ERIC and CZECCRIN 2019

Medical research is now facing outcome-based personalised trials

- Phase III / Cohort trials
- Real-World/Effectiveness
- Outcome-Based Research (Patient-oriented)

✓ **Full Members**
DE, ES, FR, IT, PT,
NO, IRL, HU, CZ
(January 1st, 2018)

✓ **Observers**
CH, SK

Medical research is now facing a data challenge

- data sharing and multimodal data management
- Re-using the electronic health records for research purposes (cohorts and trials) - avoiding duplication in data collection (EOSC),



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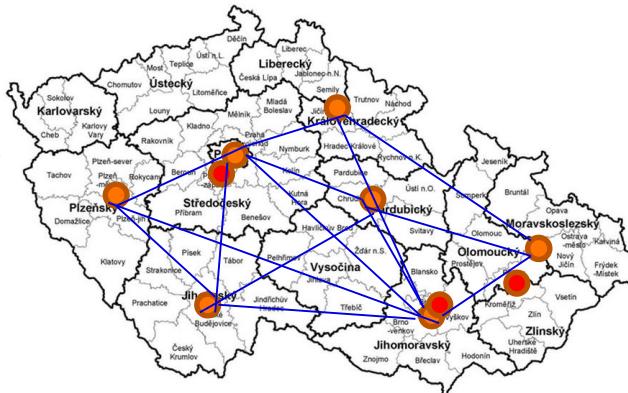
- In operation phase since March 2014
- Included in Roadmap for Large Research, Development and Innovation Infrastructures in the Czech Republic
- Under responsibility of with Ministry of Education, Youth and Sport
- Budgeted till 12/ 2019 (approved for 2020-2022)



CZEch Clinical Research Infrastructure Network

University Module

- Masaryk University, Brno – founding member
- Charles University, Prague
- Palacky University, Olomouc
- University of Veterinary and Pharmaceutical Sciences Brno



Clinical Module (members of clinical CTU network)

- University Hospital St. Anne's Brno – founding member
- University Hospital Brno - 2014
- University Hospital Motol - 2015
- University Hospital Ostrava - 2015
- Masaryk Memorial Cancer Institute - 2015
- University Hospital Hradec Králové - 2016
- General University Hospital in Prague – 2016
- University Hospital Pilsen – 2019
- University Hospital Královské Vinohrady – Signature of agreement in process
- Thomayer's Hospital in Prague – Agreement negotiation
- National Institute of Mental Health - in discussion



... WHEN SCIENCE
HELPS PATIENTS

Comprehensive
design of academic
clinical research

The University
Hospital Brno
St. Anne's University
Hospital Brno
Masaryk Memorial
Cancer Institute
University Hospital
Ostrava
University Hospital
Hradec Králové
University Hospital
in Motol
General University
Hospital in Prague

Masaryk University
Charles University
in Prague
University of
Veterinary and
Pharmaceutical
Sciences Brno
Palacký University
Olomouc

Clinical module

University module

Excellence in clinical trials:

- Early phases I/IIa
- Rare diseases
- Regulatory and ethical science
- Advanced therapy medicinal products
- Clinical trials management

www.czeccrin.cz

CZEch Clinical Research Infrastructure Network - WPs

WP CZECRIN_{ATMP} - Clinical Trials with Advanced Therapy Medicinal Products

WP CZECRIN_{PED MED} - Pediatric Clinical Trials

WP CZECRIN_{RARE} - Clinical Trials in Rare Diseases – Regulatory Challenges

WP CZECRIN_{PER MED} - Personalised Clinical Trials – Stratified Precision Medicine

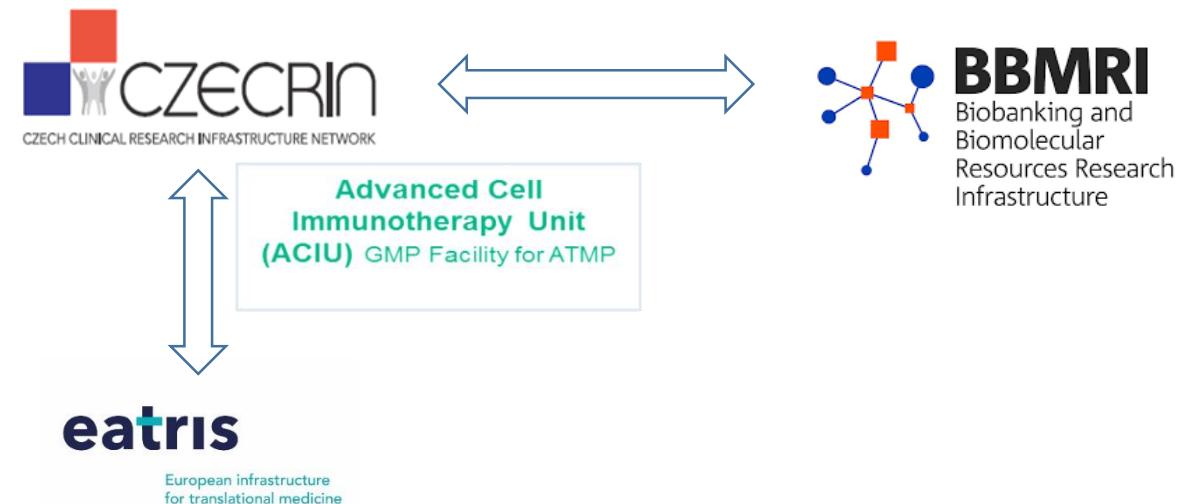
WP CZECRIN_{NEURO} – NEURO STROKE programme (new WP starting from 2020)

WP CZECRIN_{ATMP} - Clinical Trials with Advanced Therapy Medicinal Products

Autologní „dendritic-cell derived“ somatobuněčná terapeutická vakcína u dětských onkologických pacientů

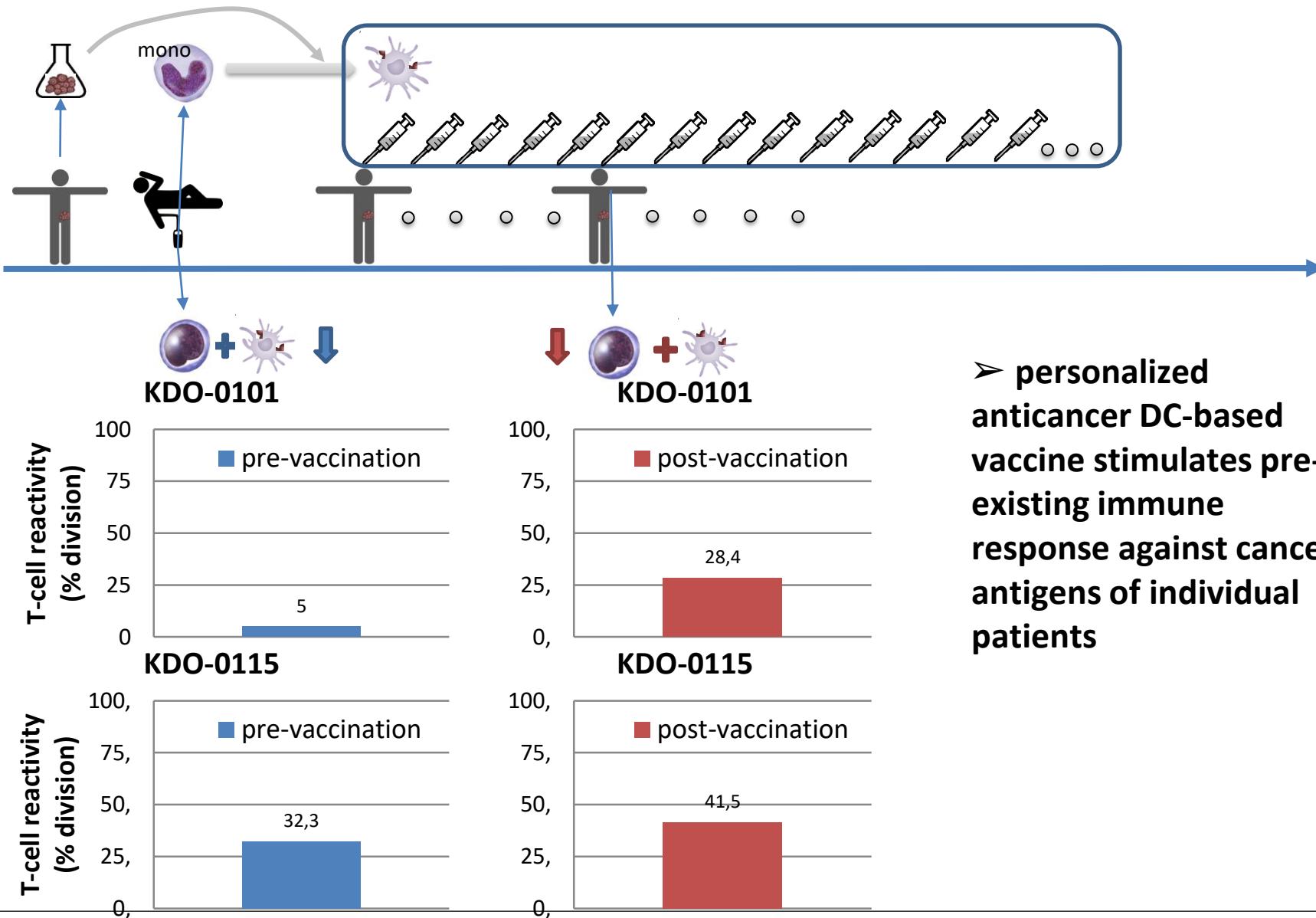
Farmakologický ústav LF MU, Advanced Cell Immunotherapy Unit

Akademické klinické hodnocení fáze I
KDO_DC1311, EudraCT:2014-003388-39



„Proof of concept“: personalizovaná protinádorová vakcína na bázi dendritických buněk stimuluje pre-existující imunitní odpověď konkrétního pacienta proti jeho nádorovým antigenům

...and some newer data: Ex vivo evaluation of post-vaccination T-cell reactivity to DC-presented antigens

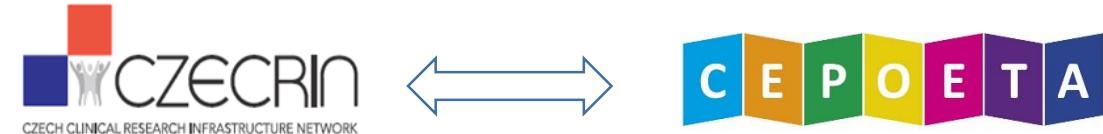


WP CZECRIN_{PED MED} - Pediatric Clinical Trials

Partnership with pediatric investigation networks

Development of tools for pediatric population

Central European Pediatric Oncology Early Trial Alliance



Example of CZECRIN close collaboration



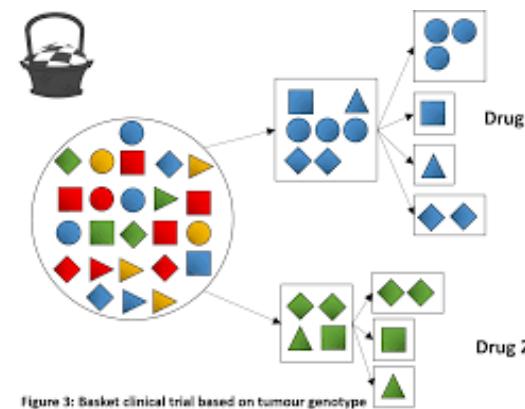
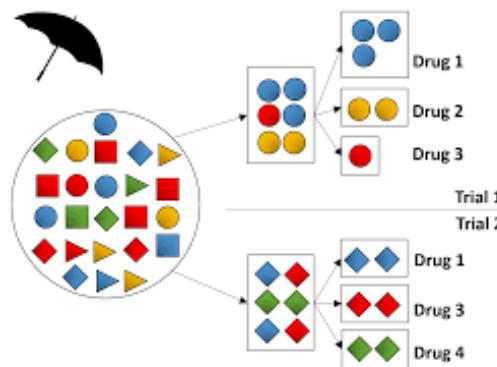
European network of paediatric research at the European Medicines Agency



WP CZECRIN_{PER MED} - Personalised Clinical Trials – Stratified Precision Medicine/ Regulatory Challenges

Pokračující relevantní základní výzkum/ adresující relevantní klinickou potřebu !

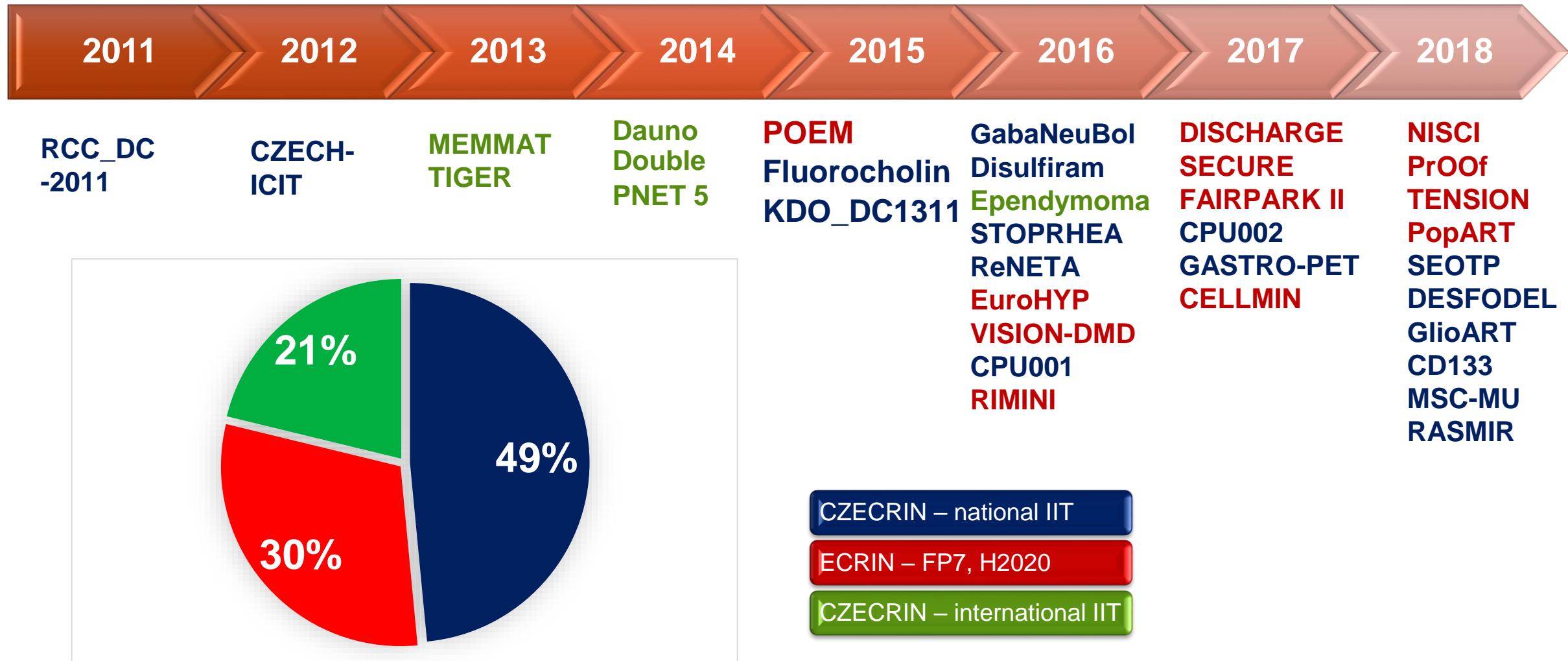
Validace výzkumu a vývoje biomarkerů na všech jeho stupních
Inovativní design klinických studií !!



Pragmatic Trials...Real-World Effectiveness

N- of-1 clinical trials...
Learn from every patients – not just clinical trial patients !

CZECRIN Clinical Trials



**Děkujeme za spolupráci
všem partnerům
a těšíme se na další...!**

