

MUNI
MED

CZEch Clinical Research Infrastructure Network



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CZEch Clinical Research Infrastructure Network

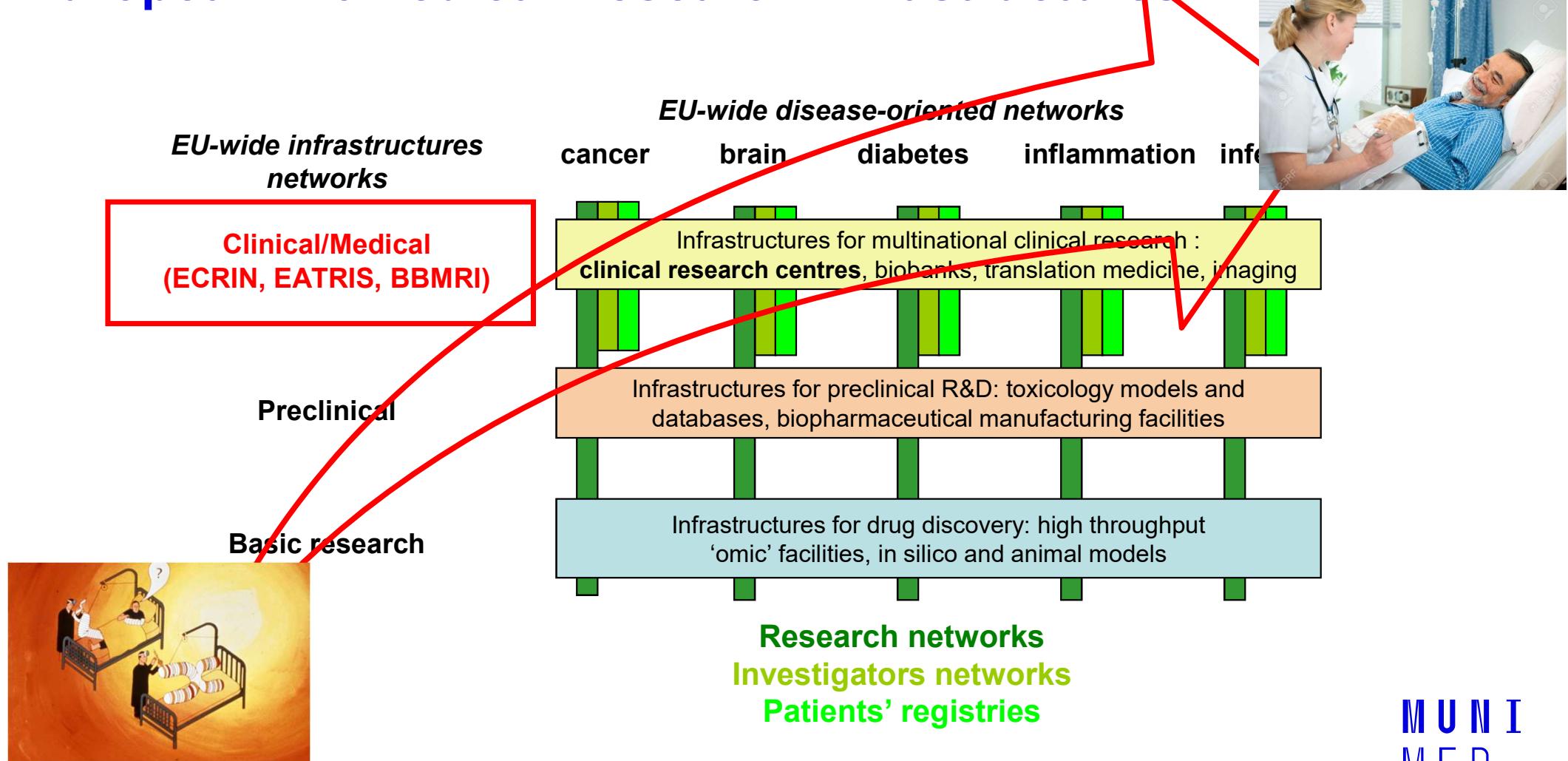
MISSION:

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.

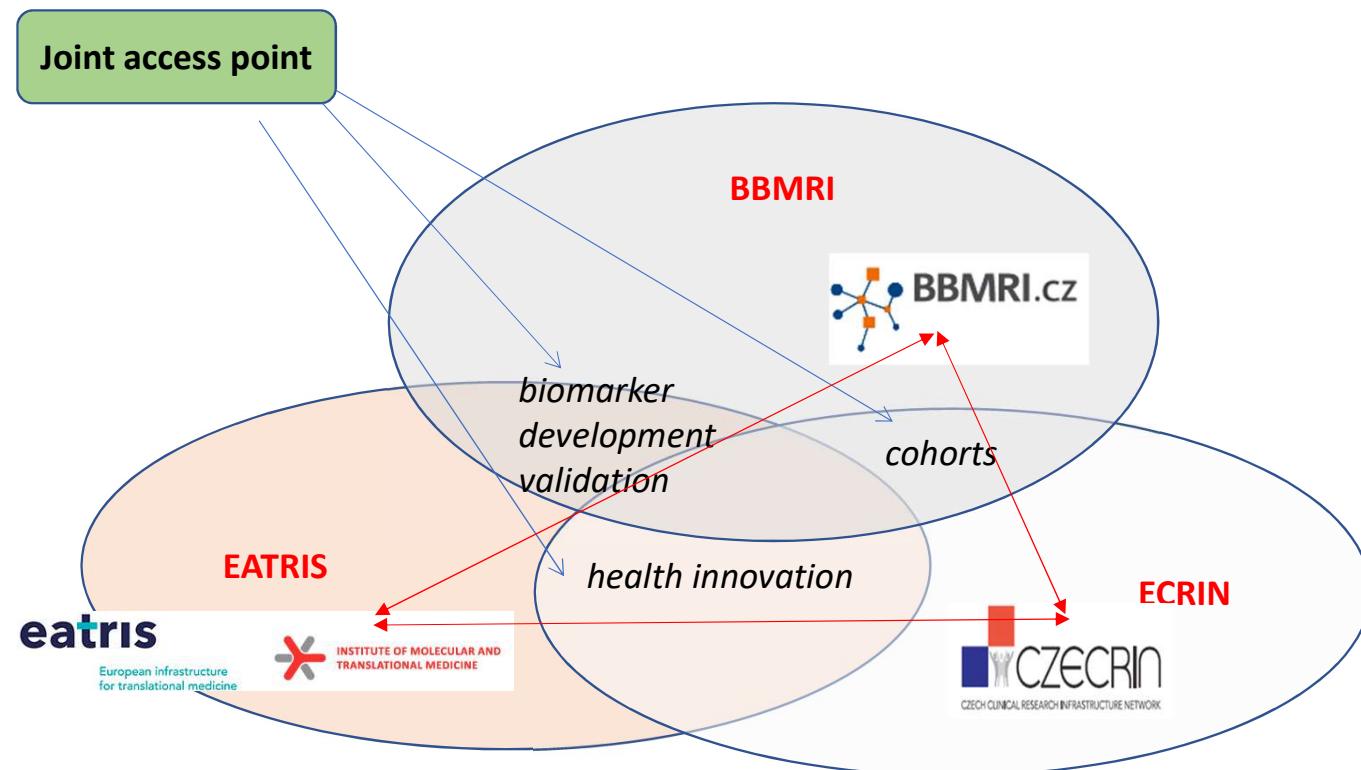
VISION:

“when science help patients”

European Biomedical Research Infrastructures

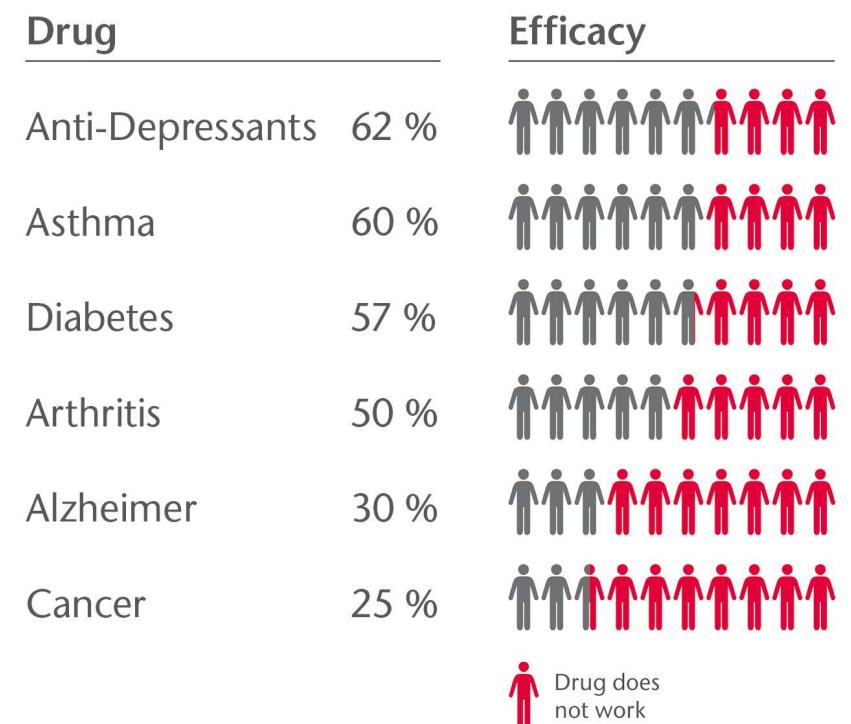


Cooperation of medical research infrastructures



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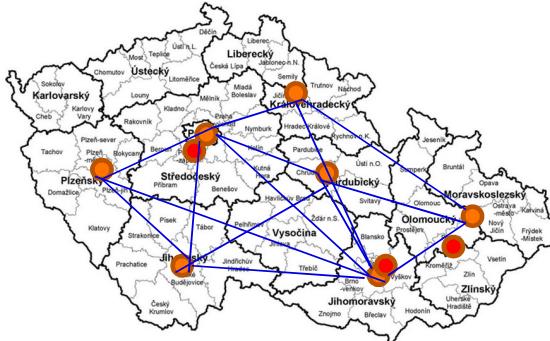
- In operation phase since March 2014
- Included in Roadmap for Large Research, Development and Innovation Infrastructures in the Czech Republic
- Under responsibility of with Ministry of Education, Youth and Sport
- Budgeted till 12/ 2019 (approved for 2020-2022)



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

The brochure cover for CZECCRIN features the following elements:

- CZECCRIN** logo (blue square with white stylized 'C' and 'R') and text "CZECH CLINICAL RESEARCH INFRASTRUCTURE NETWORK".
- WHEN SCIENCE HELPS PATIENTS** tagline.
- Comprehensive design of academic clinical research** mission statement.
- Clinical module** and **University module** sections listing member institutions.
- Excellence in clinical trials:** sub-section with bullet points: Early phases I/IIa, Rare diseases, Regulatory and ethical science, Advanced therapy medicinal products, Clinical trials management.
- www.czecrin.cz** website address.
- Sponsor logos at the bottom: Český statistický úřad (CSÚ), Ministry of Health of the Czech Republic, Ministry of Education, Youth and Sports of the Czech Republic, Česká akademie věd (ČAV), Česká národní banka (CNB), and AFNUSA ECRC.

CZEch Clinical Research Infrastructure Network - WPs

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

WP CZECCRIN_{PED MED} - Pediatric Clinical Trials

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

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

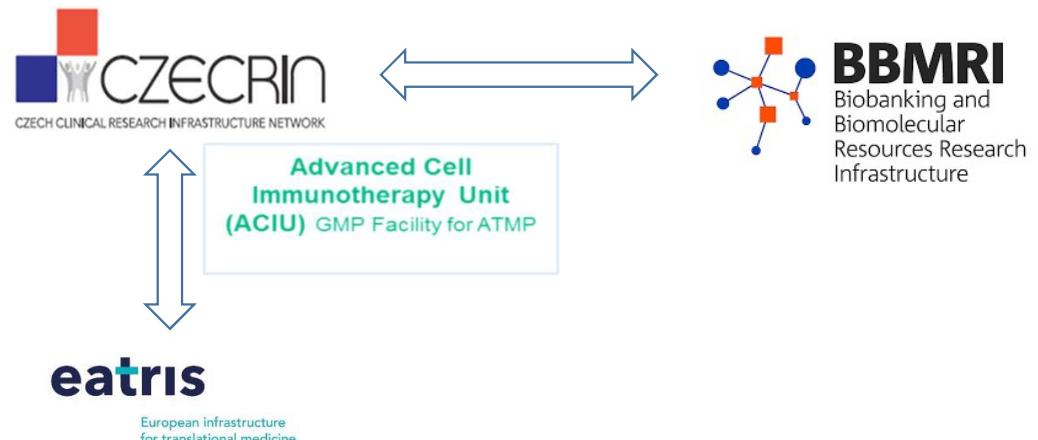
WP CZECCRIN_{NEURO} – NEURO STROKE programme (new WP starting from 2020)

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

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

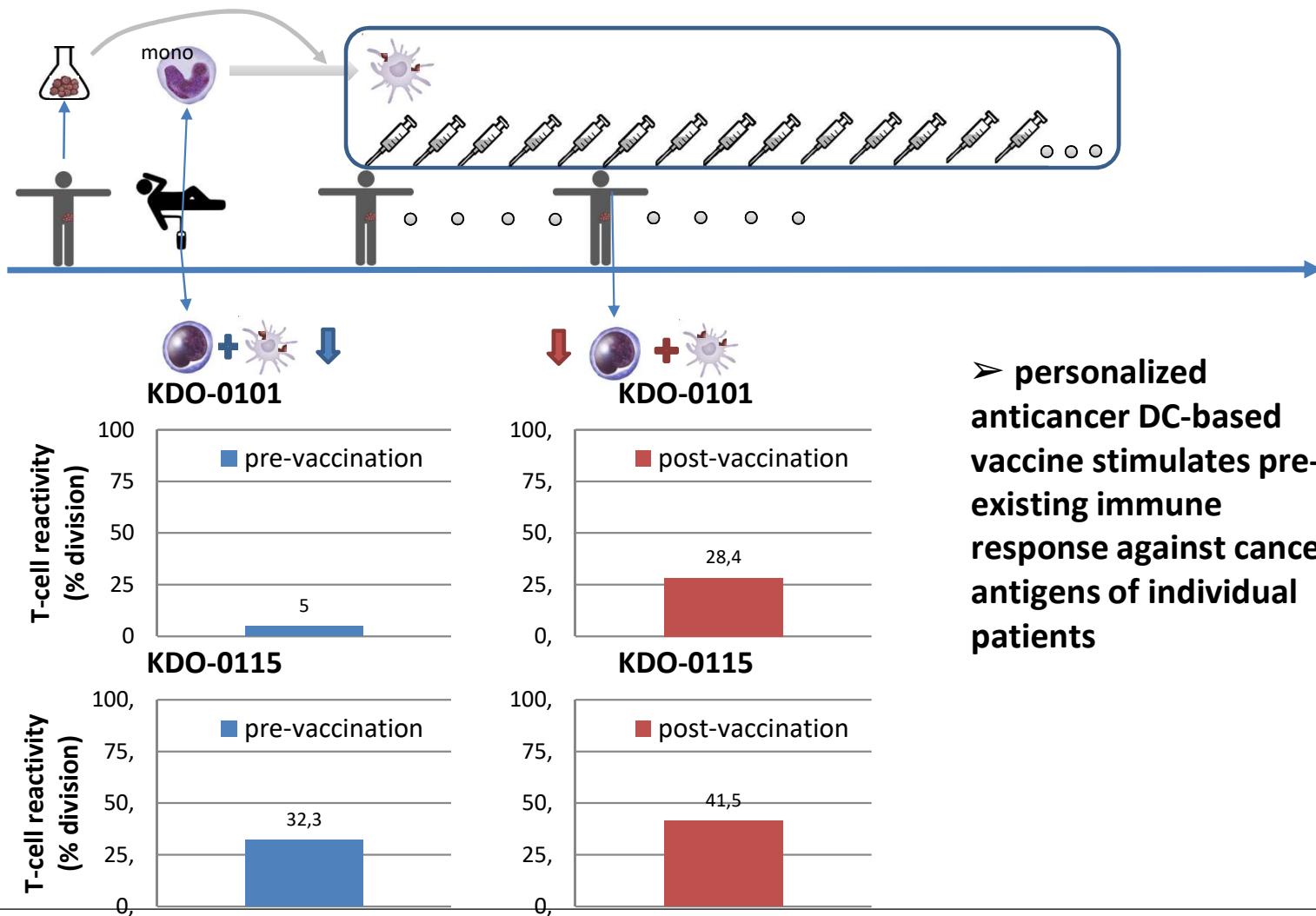
Farmakologický ústav LF MU, Advanced Cell Immunotherapy Unit

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

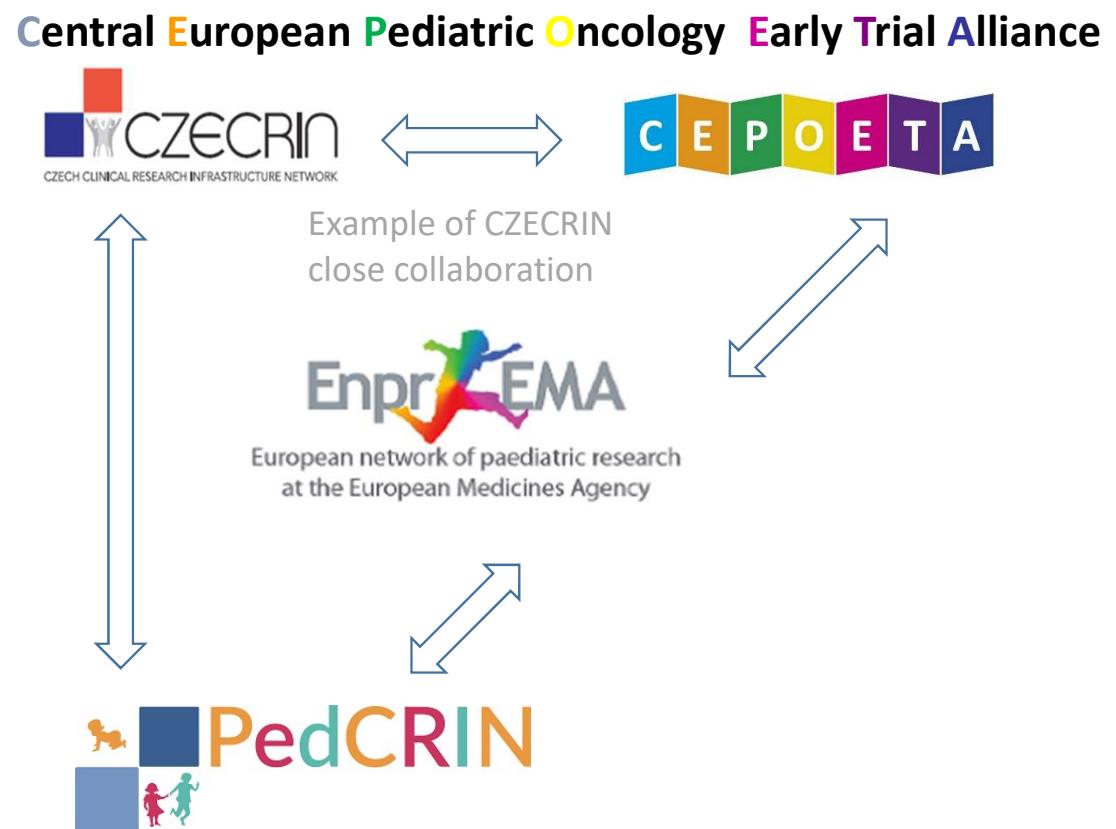
...and some newer data: Ex vivo evaluation of post-vaccination T-cell reactivity to DC-presented antigens



WP CZECCRIN_{PED MED} - Pediatric Clinical Trials

Partnership with pediatric investigation networks

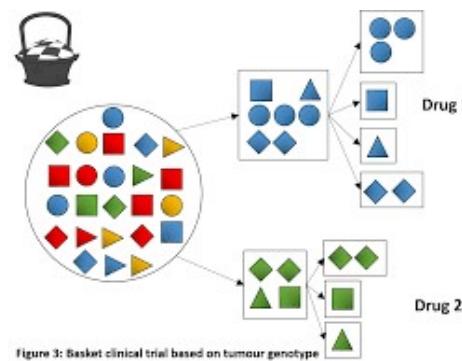
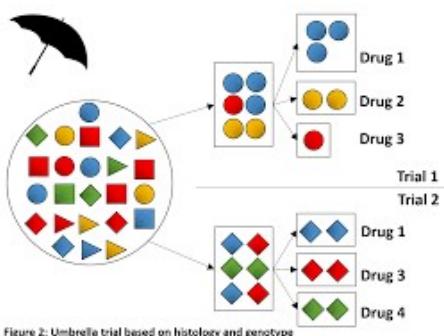
Development of tools for pediatric population



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

Pokračující relevantní základní výzkum/ adresující relevantní klinickou potřebu !

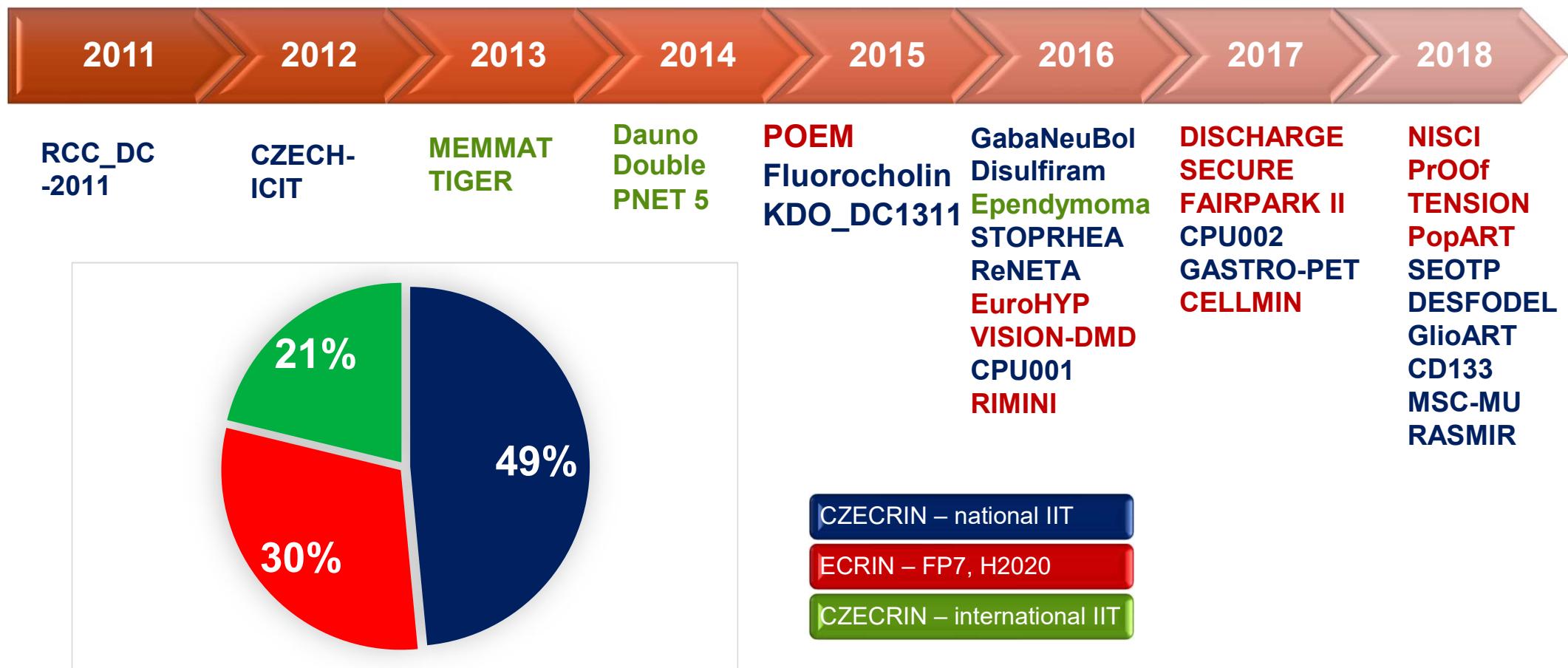
Validace výzkumu a vývoje biomarkerů na všech jeho stupních
Inovativní design klinických studií !!



Pragmatic Trials...Real-World Effectiveness

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

CZECRIN Clinical Trials



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

