

Osobno iskustvo i pogled na translacijska istraživanja

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Zagreb, 15. 06. 2012.

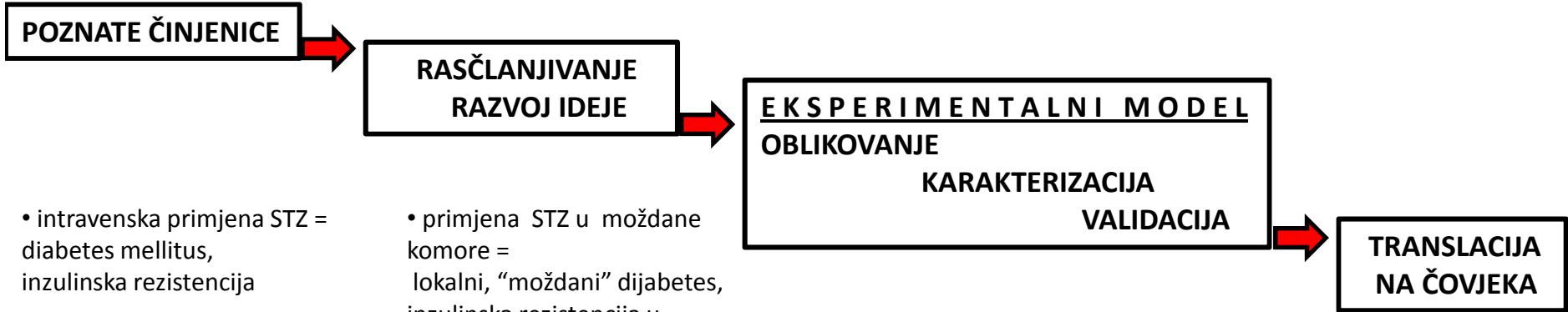
OSOBNOST I POGLED NA TRANSLACIJSKA ISTRAŽIVANJA

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- intravenska primjena STZ = diabetes mellitus, inzulinska rezistencija
- stanice koje sintetiziraju/ Izlučuju/reagiraju na inulin postoje u mozgu

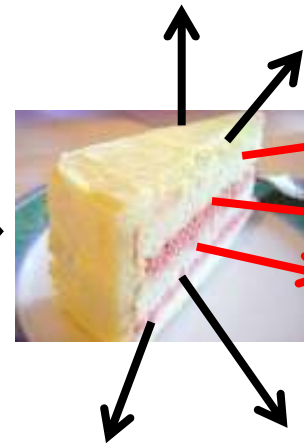
- primjena STZ u moždane komore = lokalni, "moždani" dijabetes, inzulinska rezistencija u mozgu
- inzulinska rezistencija u mozgu = neurokemijske, strukturne i kognitivne promjene

EKSPERIMENTALNI MODEL
OBLIKOVANJE
KARAKTERIZACIJA
VALIDACIJA

TRANSLACIJA
NA ČOVJEKA

novе spoznaje iz literature
 dodatna izobrazba
 kongresi
 projekti
 kolaboracije

- testiranje novih lijekova



mentor



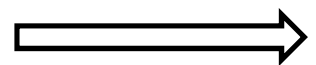
znanstveni novak



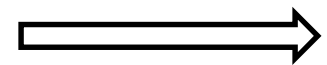
izrada disertacije



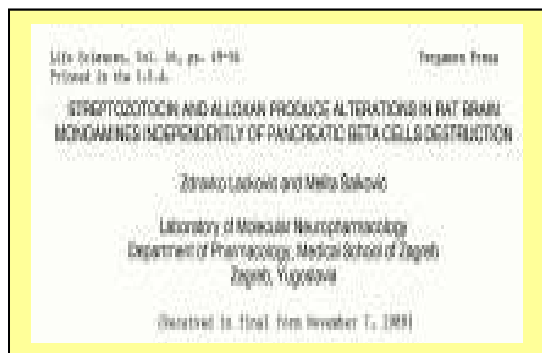
osamostaljivanje = mentor



znanstveni novak



OD IDEJE I EKSPERIMENTALNOG MODELA DO POTENCIJALNO NOVIH LIJEKOVA



Lannert & Hoyer
Behav Neurosci,
STZ-icv štakor = sAD model

Hoyer, *JNT*
sAD = diabetes mozga



**OBLIKOVANJE
EKSPERIMENTALNOG
MODELA „MOŽDANOG
DIJABETESA”**

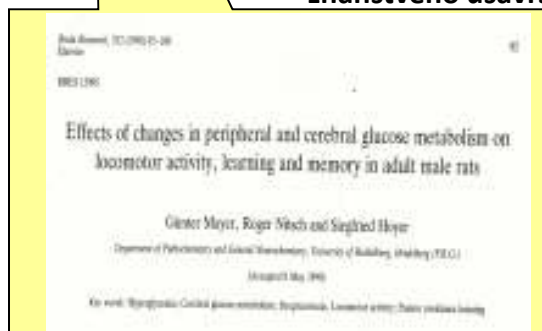
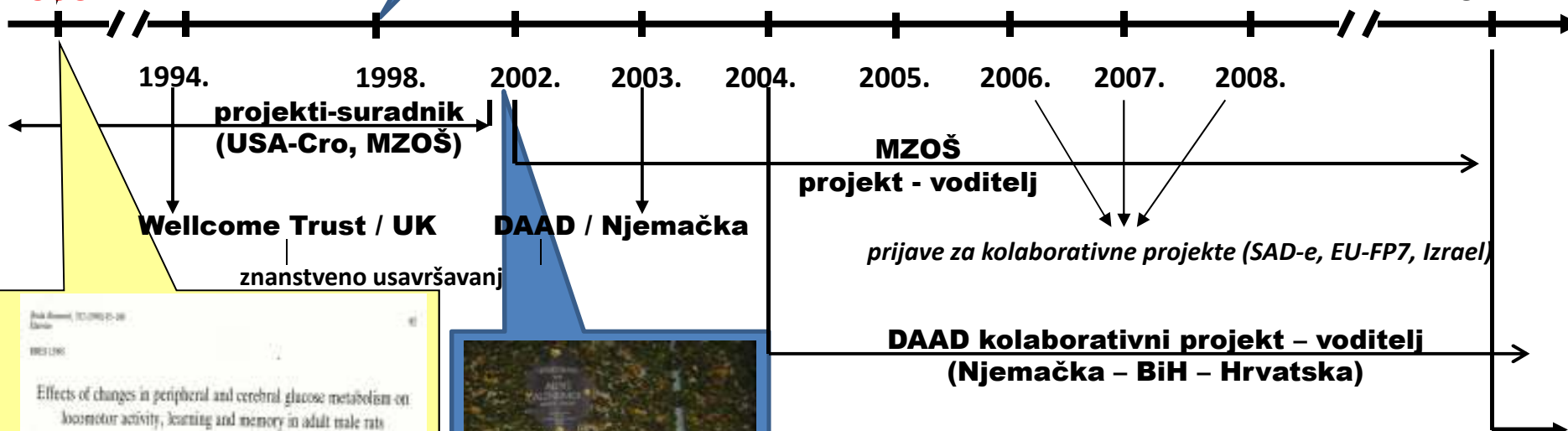
**OBLIKOVANJE, KARAKTERIZACIJA I VALIDACIJA EKSPERIMENTALNOG
MODELA SPORADIČNE ALZHEIMEROVE BOLESTI**

IDEJA

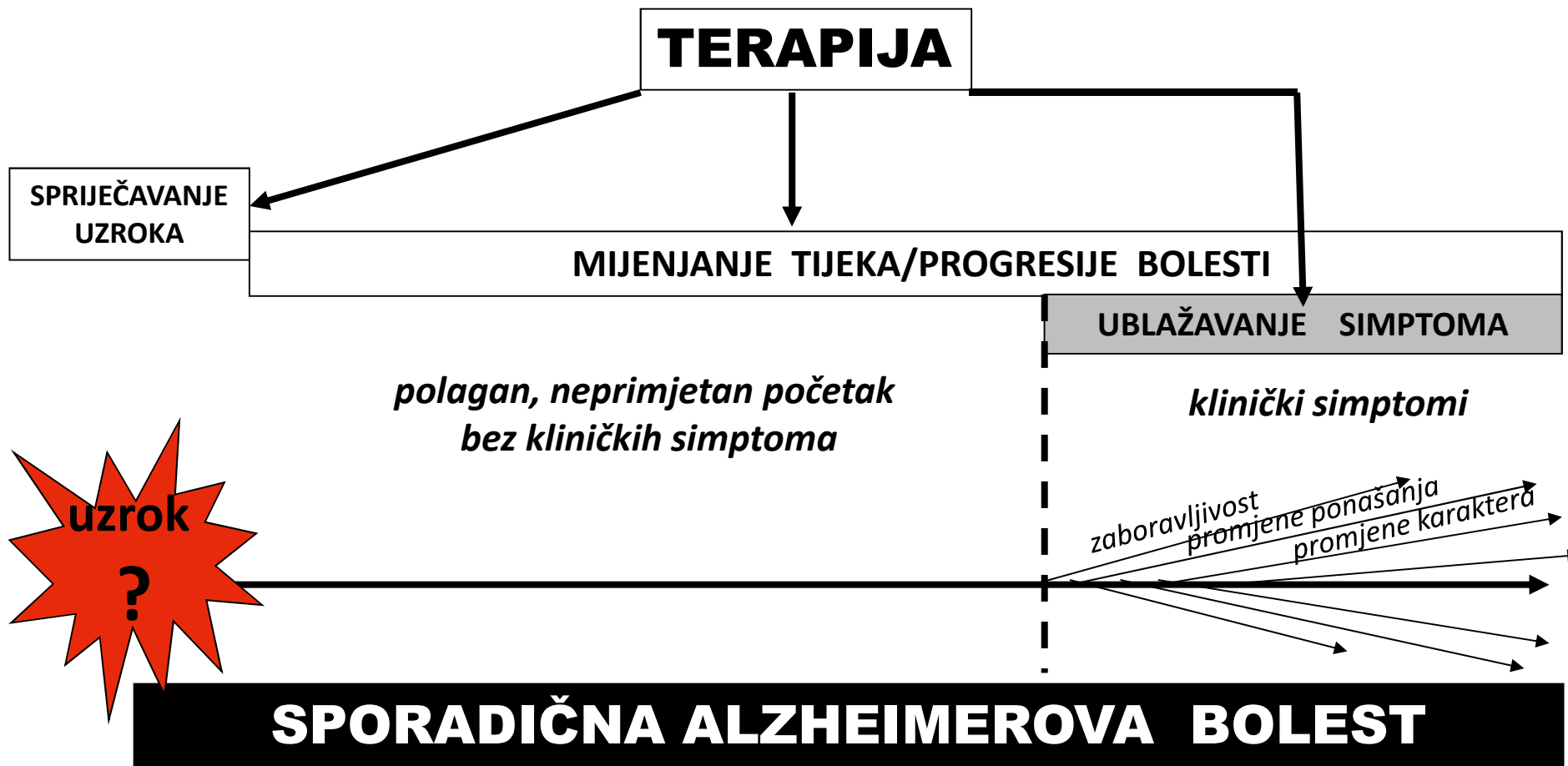
TESTIRANJE NOVIH LIJEKOVA

1990.

2012.



**UNITY THROUGH
KNOWLEDGE FUND
projekt - voditelj**

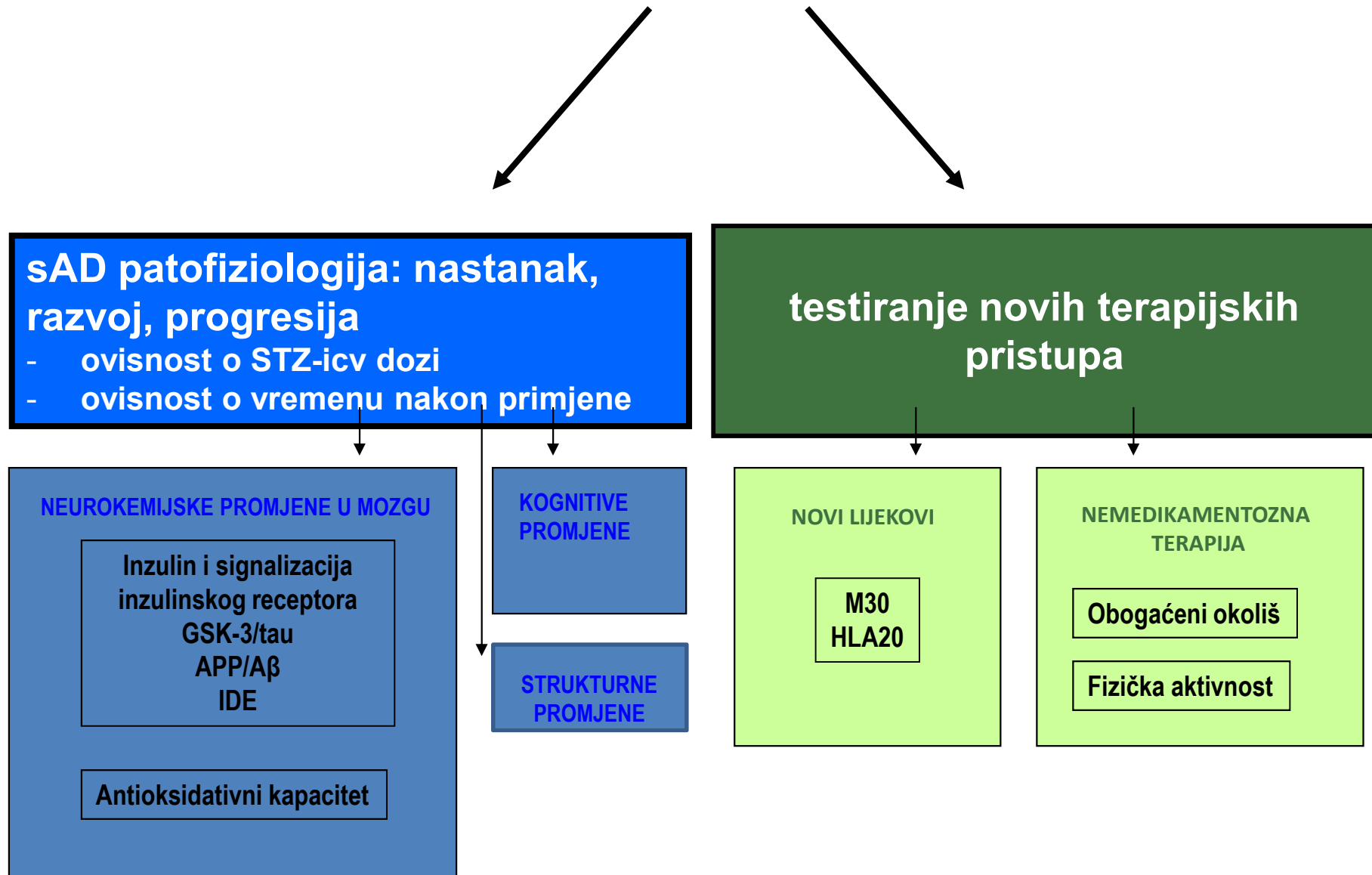


STZ–icv MODEL sAD

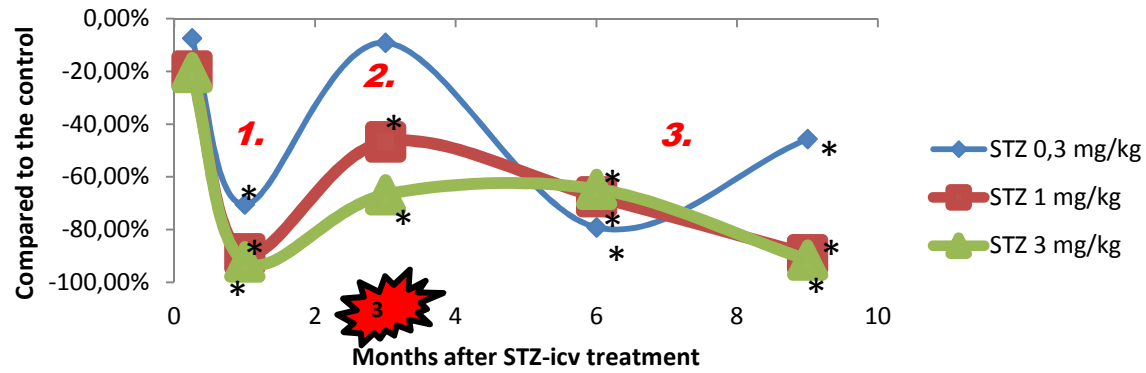
- **kognitivni deficiti učenja i pamćenja** (*Mayer et al., 1990, ...*)
- **promjene monoaminergične neurotransmisije u mozgu** (*Lackovic & Salkovic, 1990, ...*)
- **↓ metabolizam glukoze u mozgu** (*Nitsch & Hoyer, 1991, ...*)
- **↓ kolinergična neurotransmisija u mozgu** (*Hellweg et al., 1992, ...*)
- **astroglioza** (*Prickaerts et al., 1999, ...*)
- **oksidativni stres** (*Sharma & Gupta, 2001, ...*)
- **aksonalna degeneracija** (*Weinstock et al., 2001, ...*)
- . . .

Inzulinski sustav mozga ????

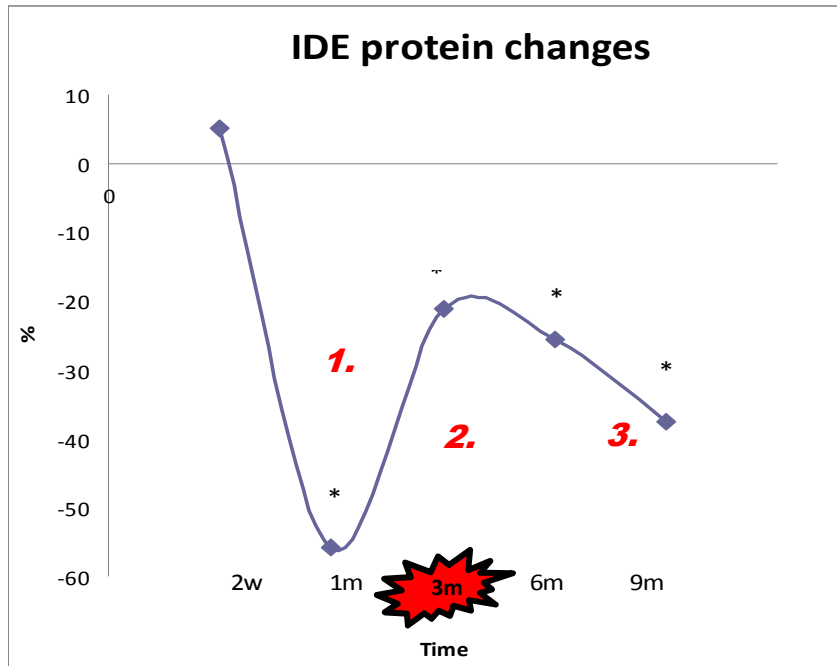
STZ-icv MODELIRANJE SPORADIČNE ALZHEIMEROVE BOLESTI U NAŠIM ISTRAŽIVANJIMA



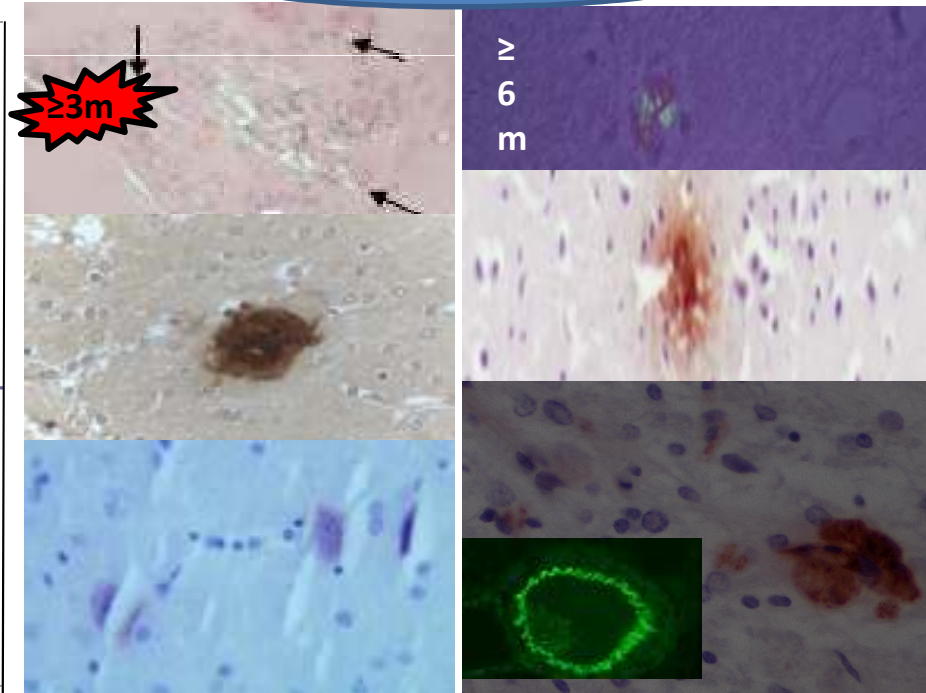
COGNITIVE DEFICITS



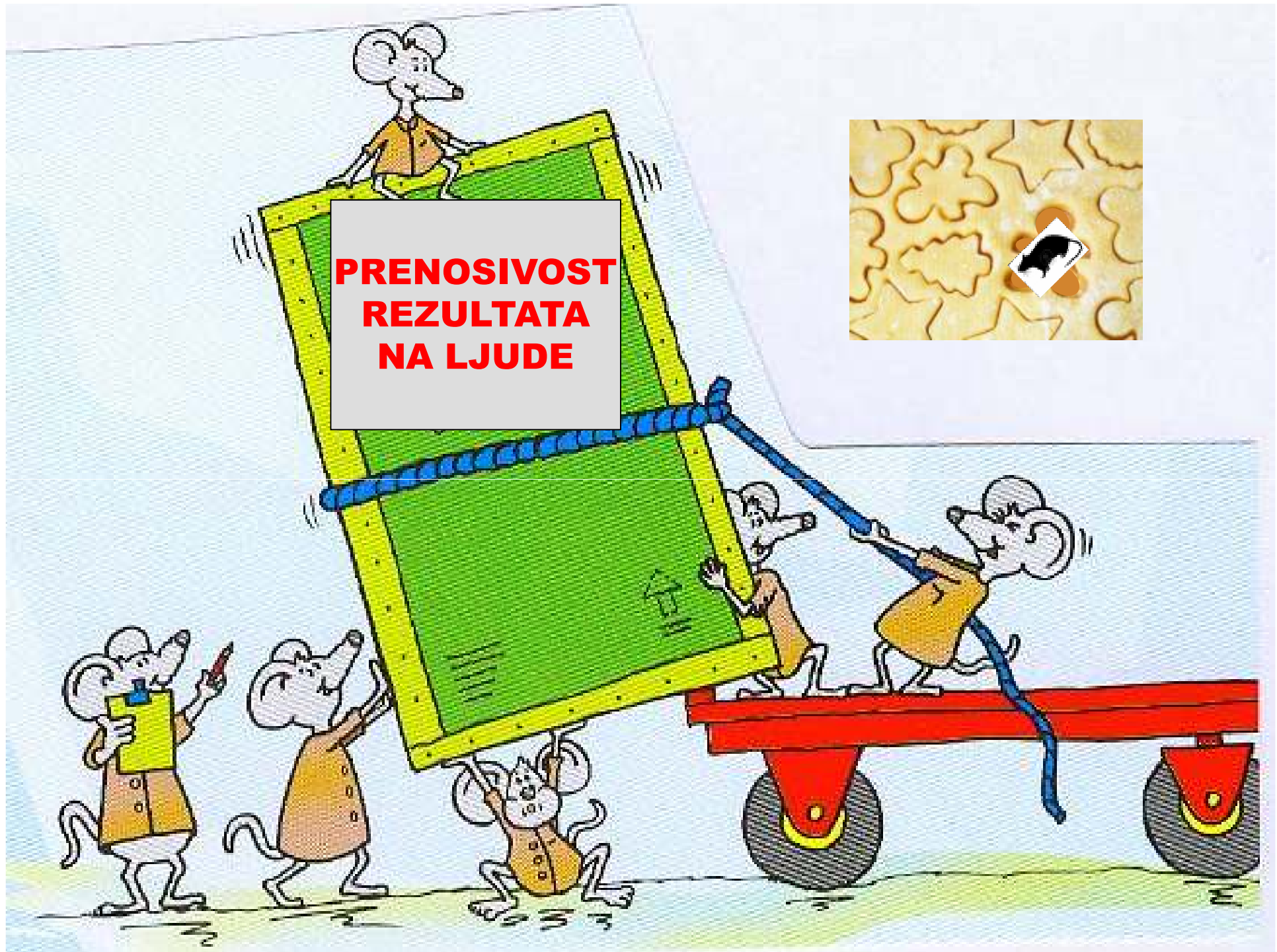
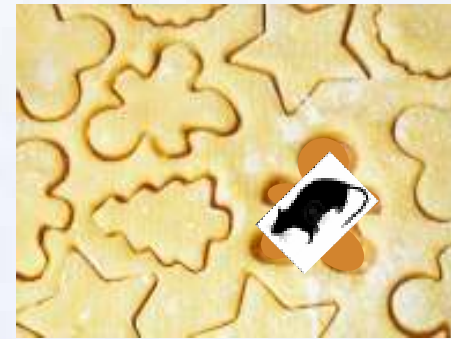
▼ Aβ degradation HPC



▲ Aβ accumulation

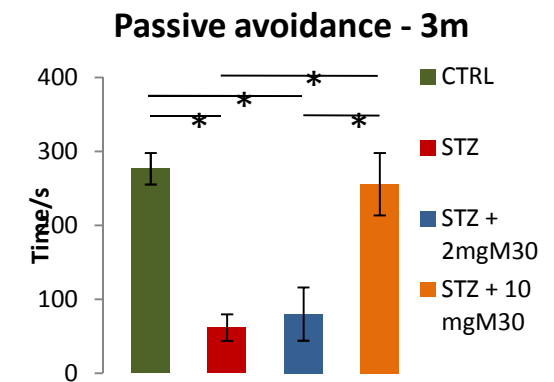
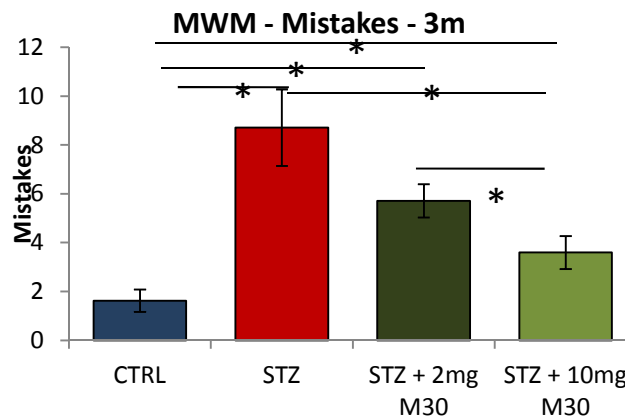
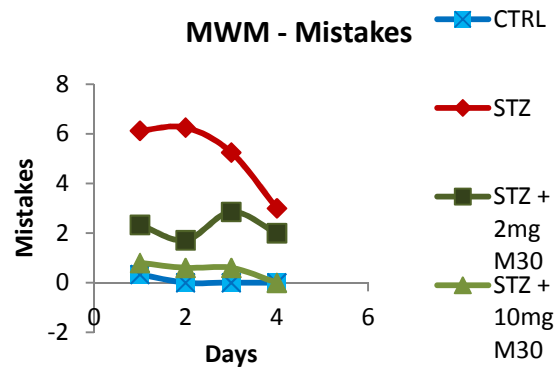


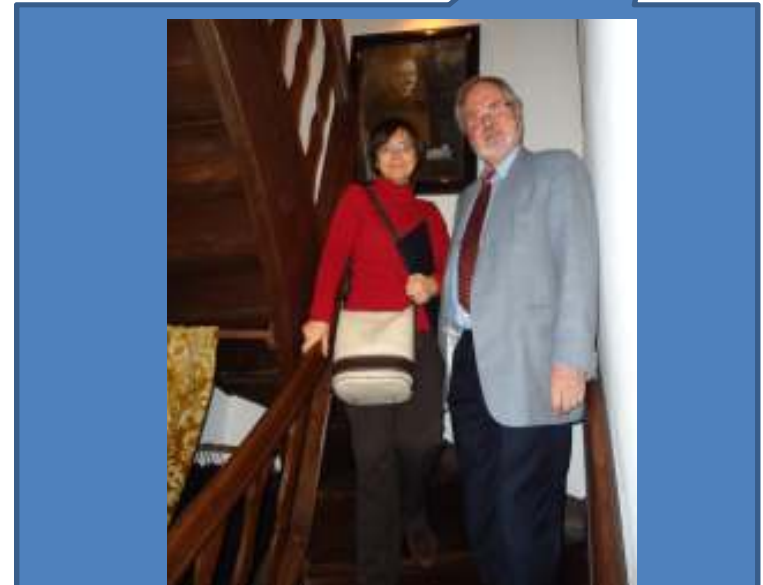
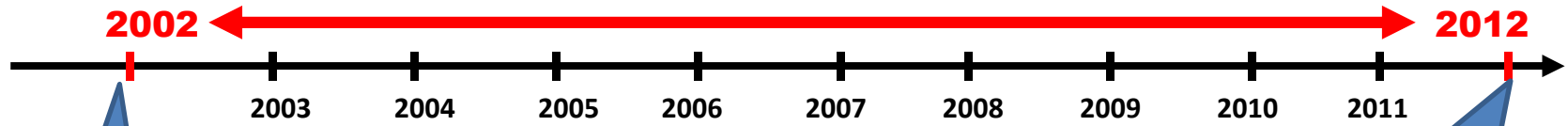
**PRENOSIVOST
REZULTATA
NA LJUDE**



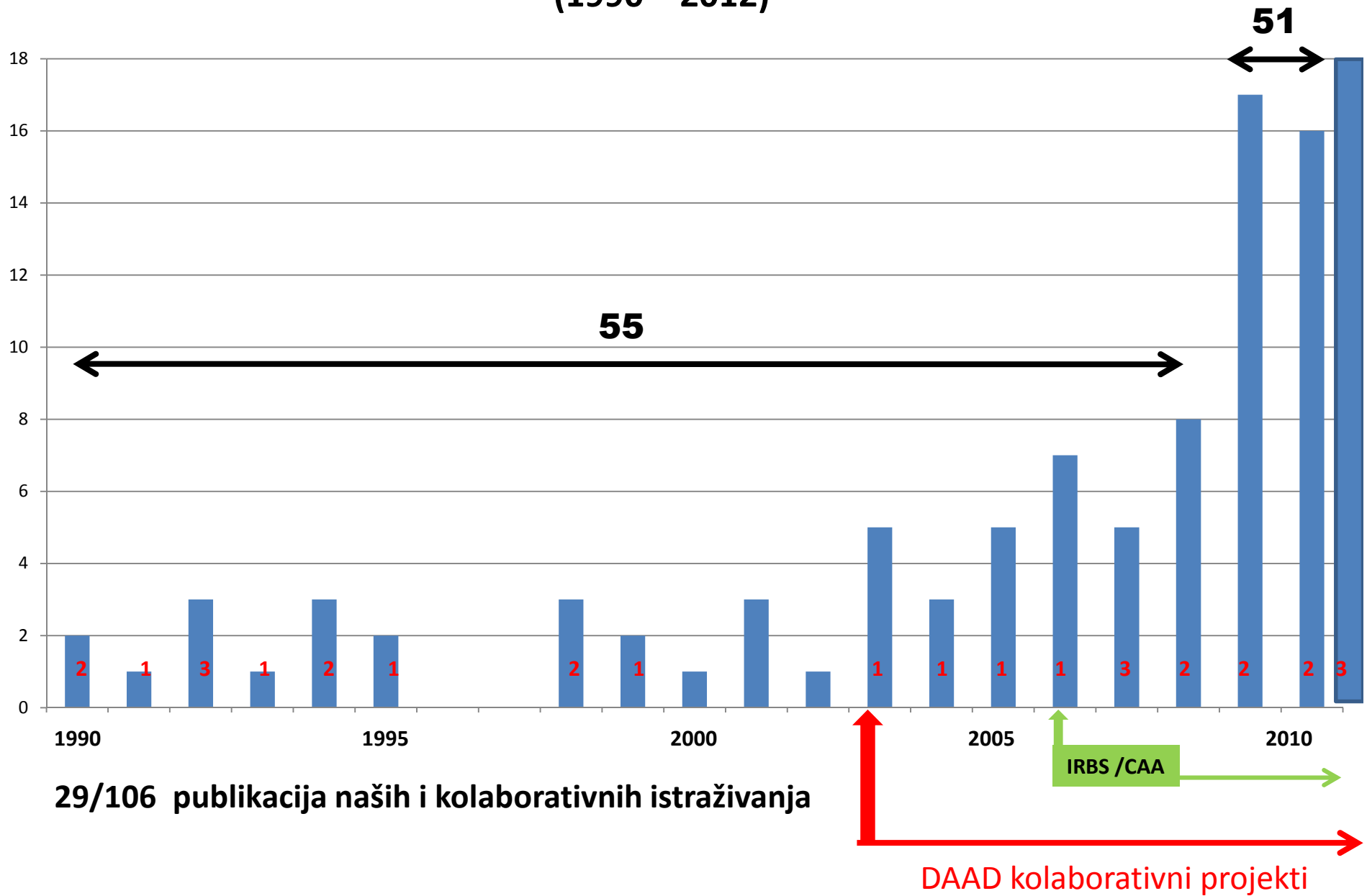
TESTIRANJE NOVIH MULTIFUNKCIONALNIH LIJEKOVA ZA LIJEČENJE AD M30 = ANTIOKSIDANT + KELATOR ŽELJEZA

POBOLJŠANJE KOGNITIVNIH DEFICITA





PUBLICIRANOST ISTRAŽIVANJA NA STZ-icv MODELU (PUBMED) (1990 – 2012)



TRANSLACIJSKA ISTRAŽIVANJA

IDEJA

mentor inicijator
vlastita kreativnost i znanstvena znatiželja

USTRAJANOST

kontinuitet istraživanja
znanstveni projekti

ZNANSTVENO USAVRŠAVANJE

doktorski studij
studijski boravci u inozemstvu
literatura

OBLIKOVANJE, KARAKTERIZACIJA I VALIDACIJA MODELA

timski rad sa znanstvenicima različitih profila
međunarodna suradnja
publiciranje u respektabilnim časopisima
međunarodna prepoznatljivost

PRIMJENA MODELA U HUMANOJ MEDICINI

pretklinička ispitivanja potencijalno novih lijekova
klinička ispitivanja potencijalno novih lijekova





DAAD 2004-2010

Edna Grünblatt / Zürich (Würzburg)
 Angelika Schmitt / Würzburg
 Jasmin Bartl / Zürich (Würzburg)

Emin Sofic / Sarajevo
 Aida Sapcanin / Sarajevo
 Ismet Tahirovic / Sarajevo

Peter Riederer / Würzburg
 Sigfried Hoyer / Heidelberg



DAAD 2007 -

Moussa Youdim / Haifa
 Silvia Mandel / Haifa



DAAD 2012 -

Jürgen Deckert
 Michael Sendtner



MZOŠ

Zdravko Lacković



UKF 2012

Goran Šmić
 Srećko Gajović



2003

2004

2005

2006

2007

2008

2009

2010

2011

2012

ZNANSTVENI NOVACI

Jelena Osmanovic-Barilar (2006 -)
 Ana Knezovic (2009 -)
 Marina Knapić (2011 -)

