

# Osobno iskustvo i pogled na translacijska istraživanja

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Zagreb, 15. 06. 2012.

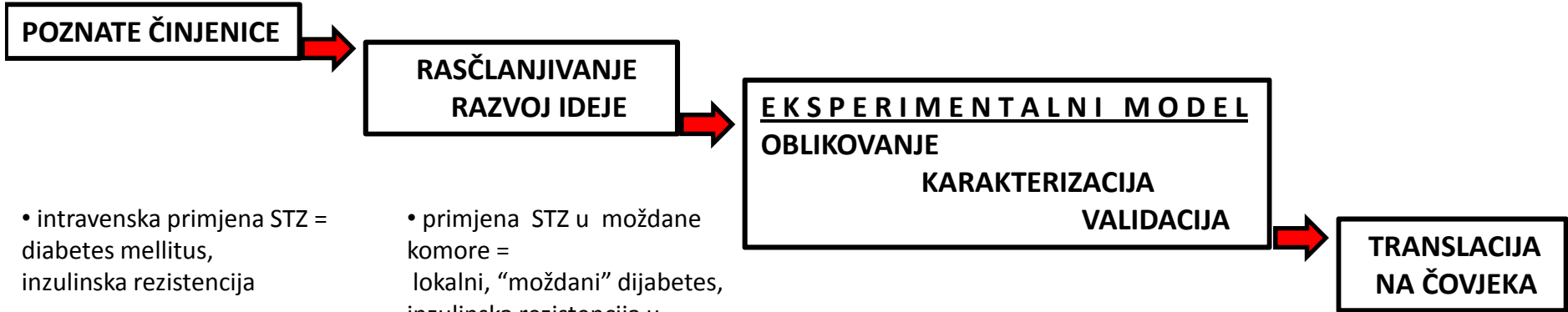
# **OSOBNOST I POGLED NA TRANSLACIJSKA ISTRAŽIVANJA**

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

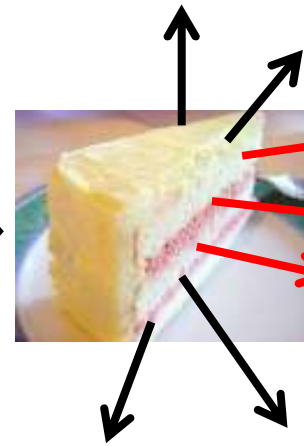
- primjena STZ u moždane komore = lokalni, "moždani" dijabetes, inzulinska rezistencija u mozgu
- inzulinska rezistencija u mozgu = neurokemijske, strukturne i kognitivne promjene

EKSPERIMENTALNI MODEL  
OBLIKOVANJE  
KARAKTERIZACIJA  
VALIDACIJA

TRANSLACIJA  
NA ČOVJEKA

novе spoznaje iz literature  
 dodatna izobrazba  
 kongresi  
 projekti  
 kolaboracije

- testiranje novih lijekova



mentor



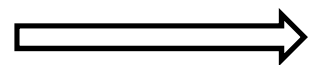
znanstveni novak



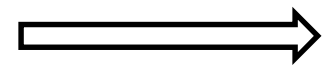
izrada disertacije



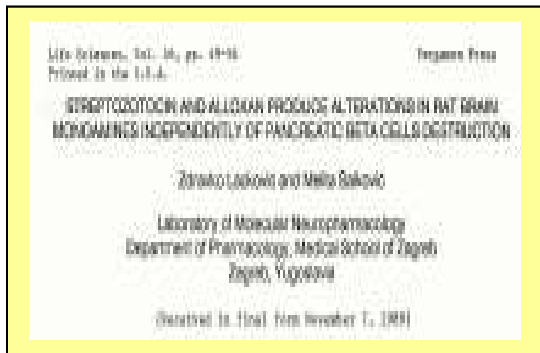
osamostaljivanje = mentor



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

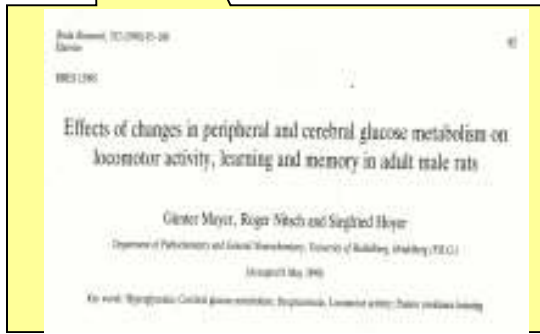
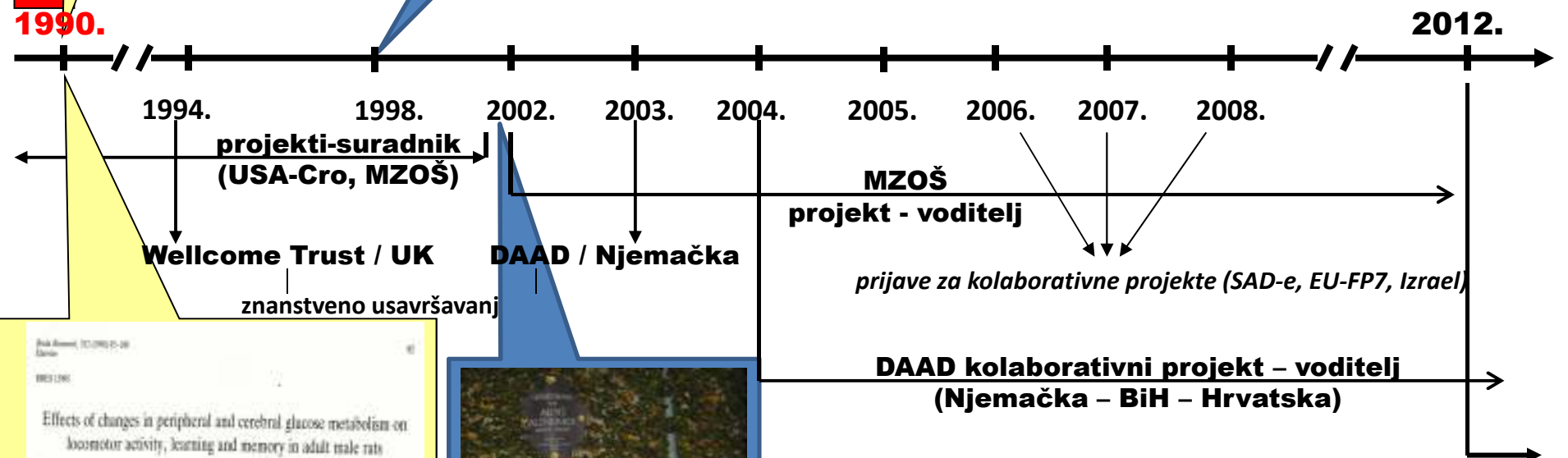


IDEJA

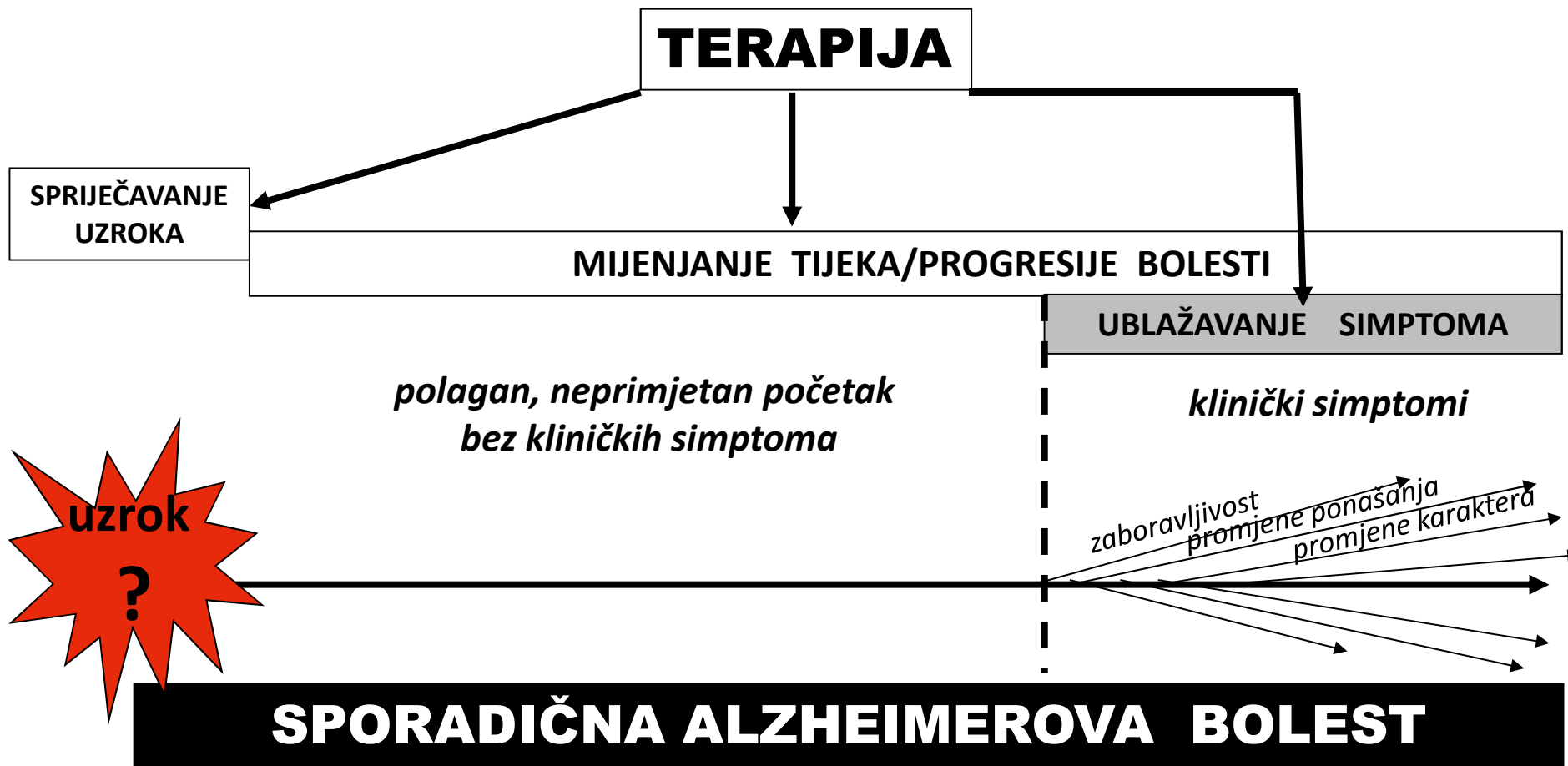
**OBLIKOVANJE  
EKSPERIMENTALNOG  
MODELA „MOŽDANOG  
DIJABETESA”**

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

**TESTIRANJE NOVIH LIJEKOVA**



UNITY THROUGH  
KNOWLEDGE FUND  
projekt - voditelj

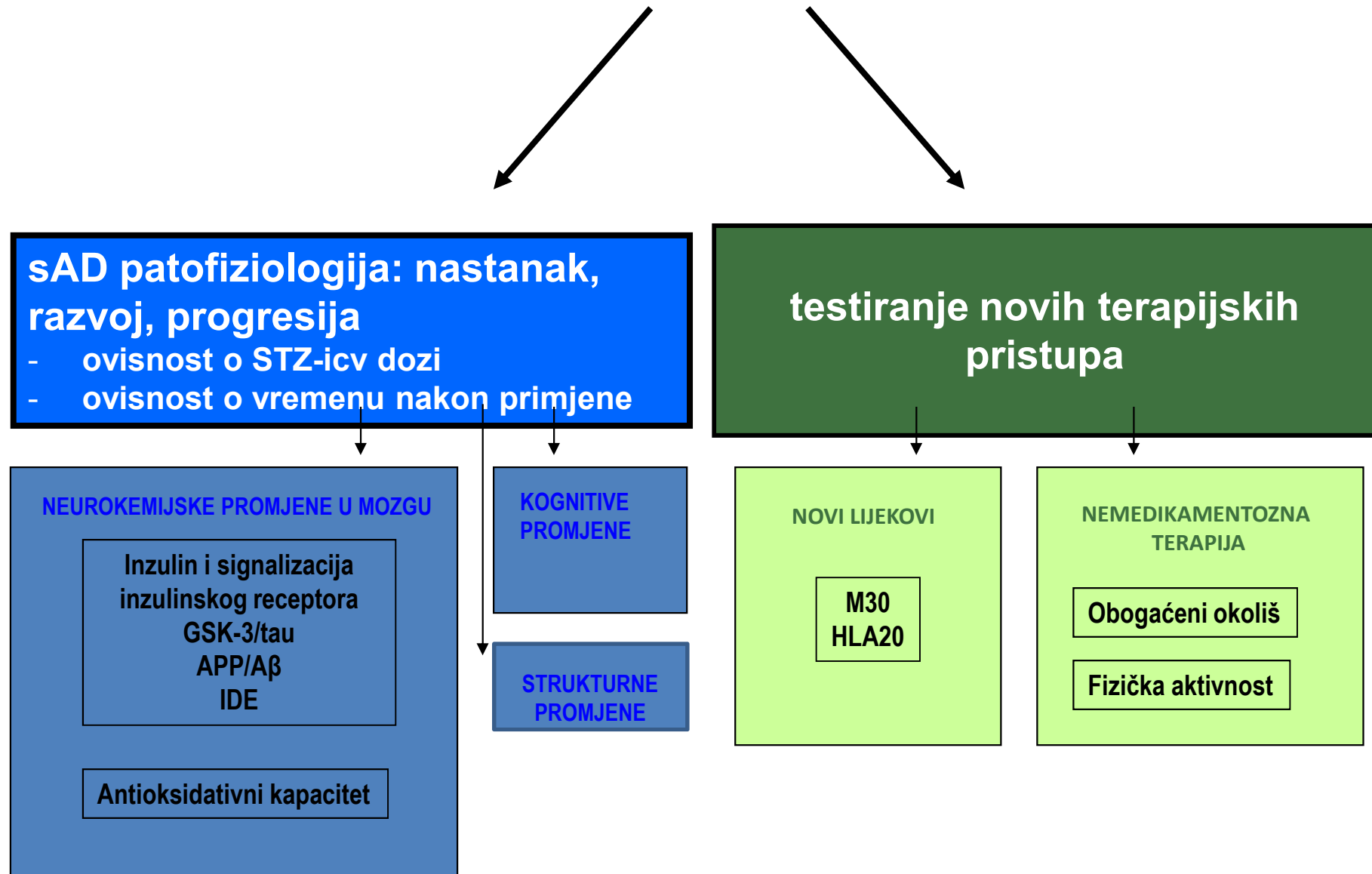


# STZ–icv MODEL sAD

- **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, ...*)
- . . .

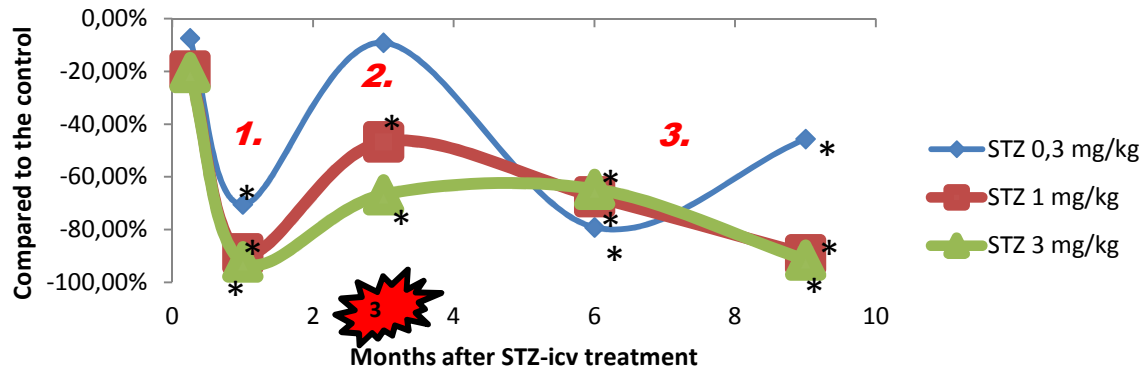
Inzulinski sustav mozga ????

# STZ-icv MODELIRANJE SPORADIČNE ALZHEIMEROVE BOLESTI U NAŠIM ISTRAŽIVANJIMA

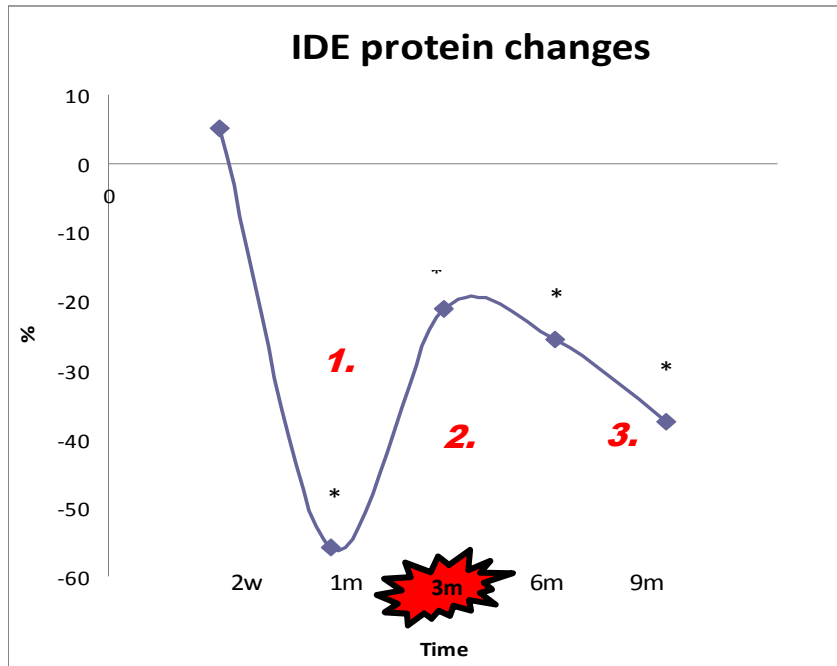




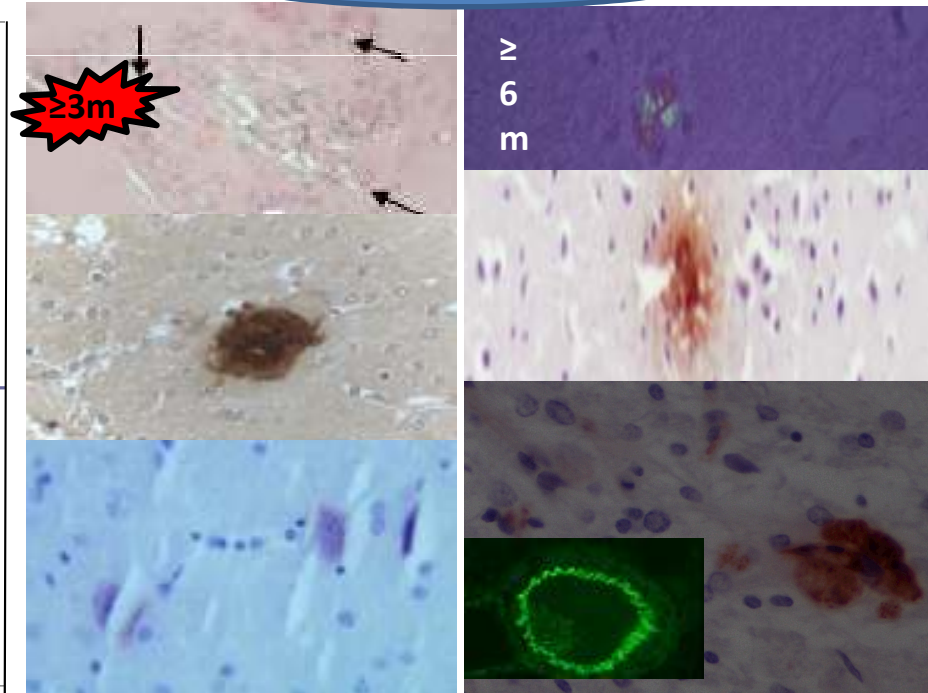
## COGNITIVE DEFICITS



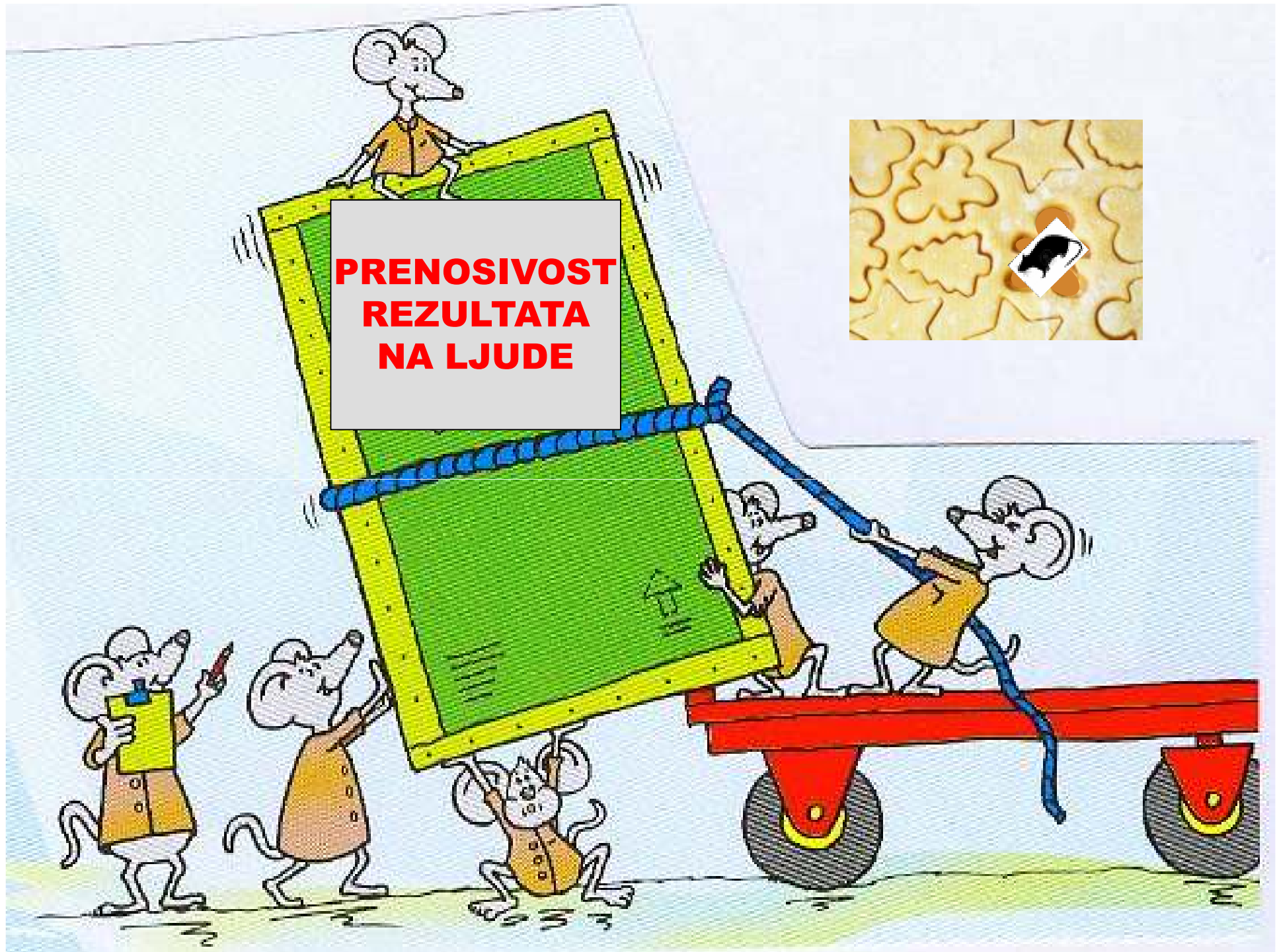
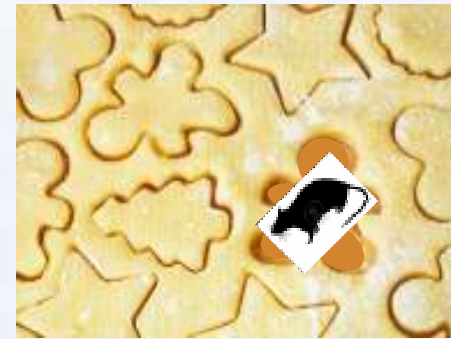
### ▼ A $\beta$ degradation HPC



### ▲ A $\beta$ accumulation

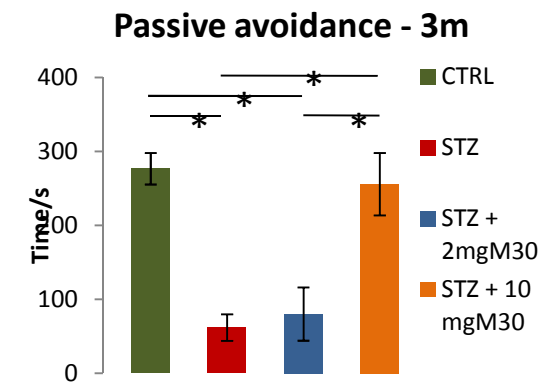
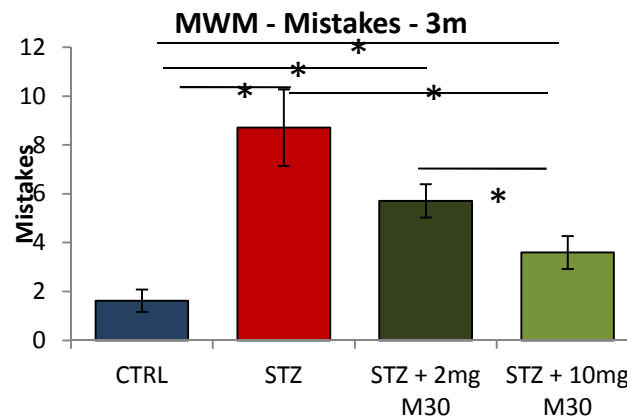
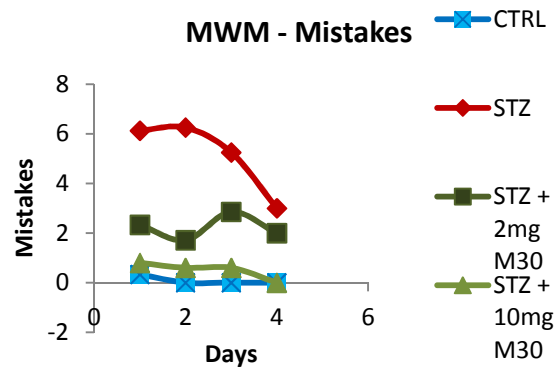


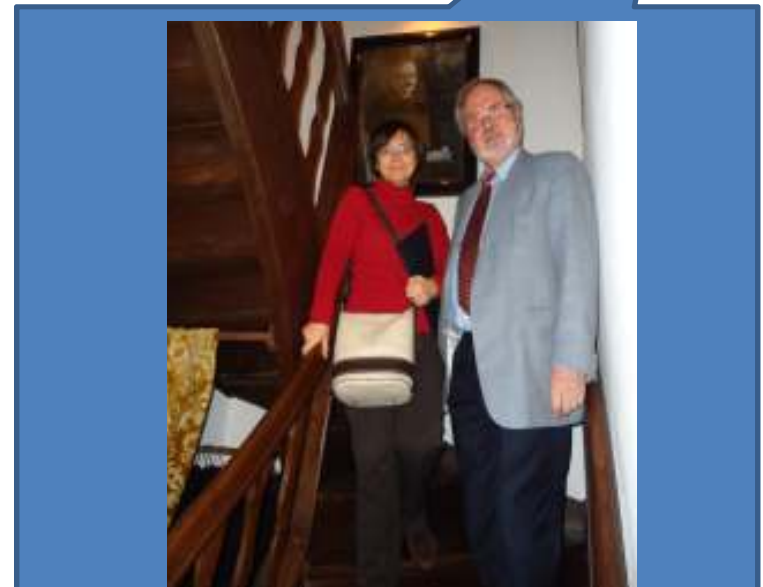
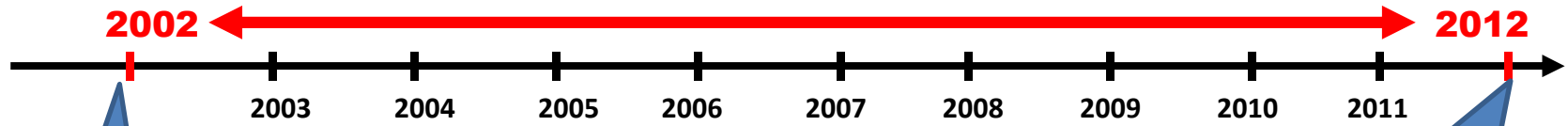
**PRENOSIVOST  
REZULTATA  
NA LJUDE**



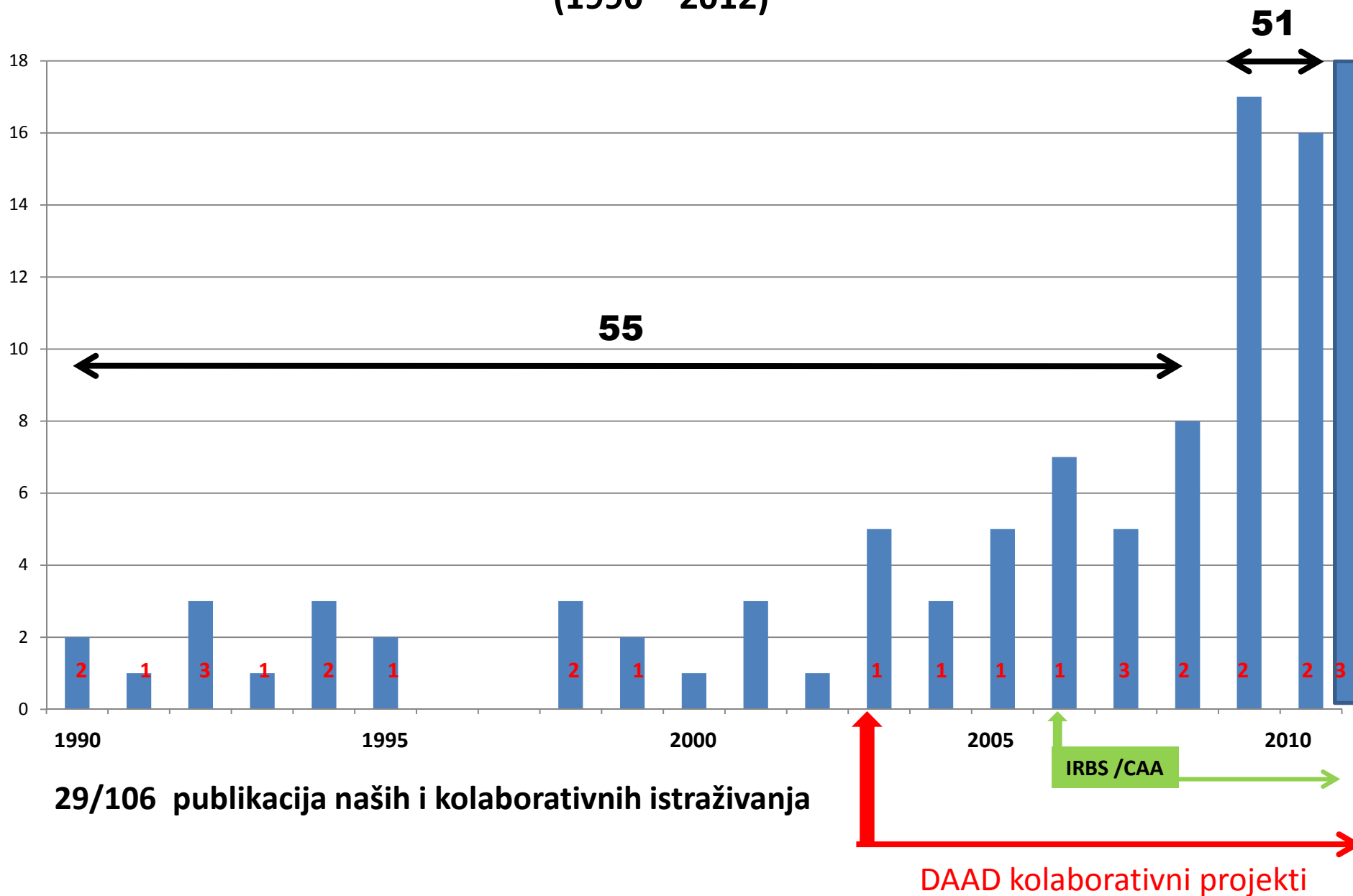
# TESTIRANJE NOVIH MULTIFUNKCIONALNIH LIJEKOVA ZA LIJEČENJE AD M30 = ANTIOKSIDANT + KELATOR ŽELJEZA

## 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



**UKF 2012**

Goran Šmić  
 Srećko Gajović



**MZOŠ**

Zdravko Lacković

2003

2004

2005

2006

2007

2008

2009

2010

2011

2012

**ZNANSTVENI NOVACI**

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

