

NUCLEAR MEDICINE DAYS

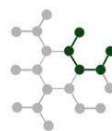
1-4 November 2018 / Iași, Romania



SRMNIM



UNIVERSITATEA DE MEDICINĂ ȘI FARMACIE
GRIGORE T. POPA IAȘI



iMAGO-MOL

Clusterul Regional Inovativ
de Imagistica Moleculară și
Structurală Nord-Est

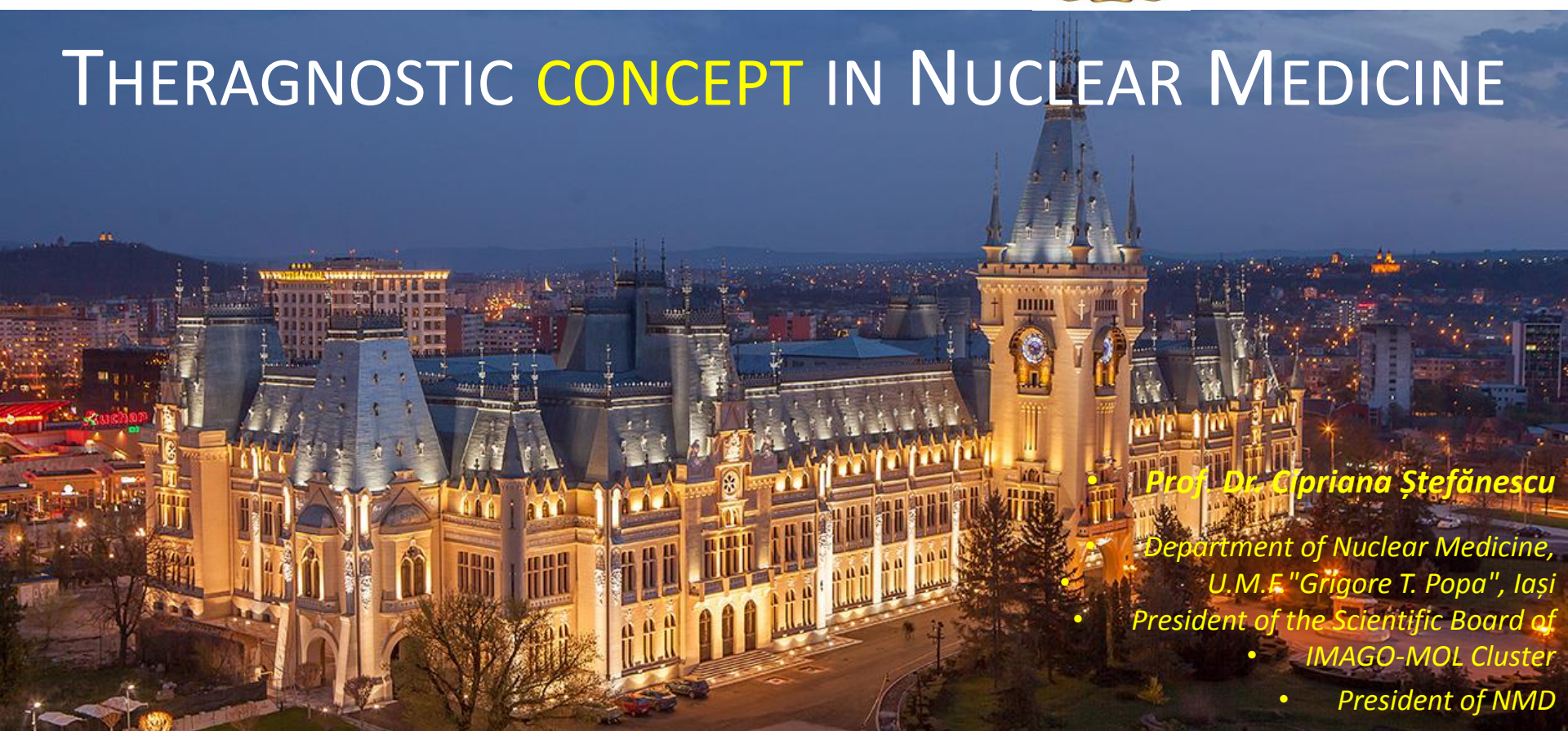


Institutul
Regional de
Oncologie Iași

IRO



THERAGNOSTIC **CONCEPT** IN NUCLEAR MEDICINE



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• President of the Scientific Board of
• IMAGO-MOL Cluster
• President of NMD



THERAGNOSTIC Concept: personalized medicine

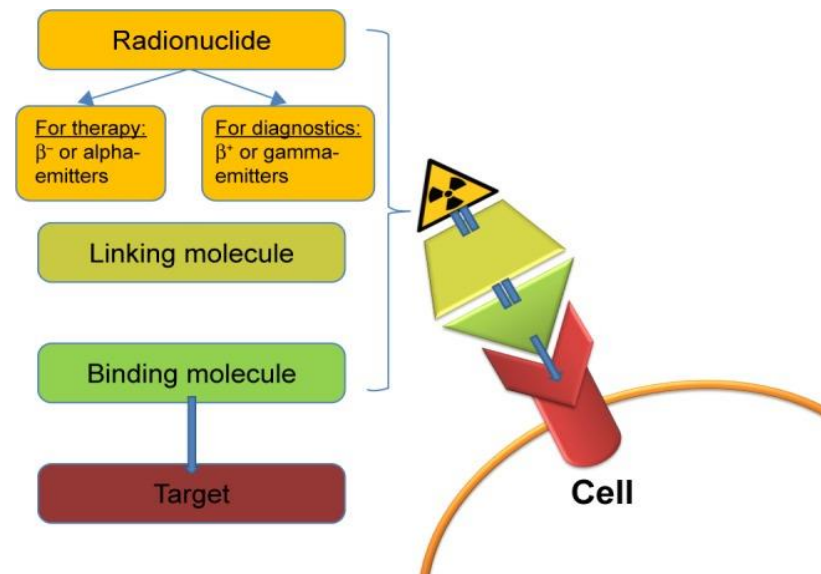
Theranostic (3790)/ Theranostics (4770)

Thera**g**nostic (208) /Thera**g**nostics (87)

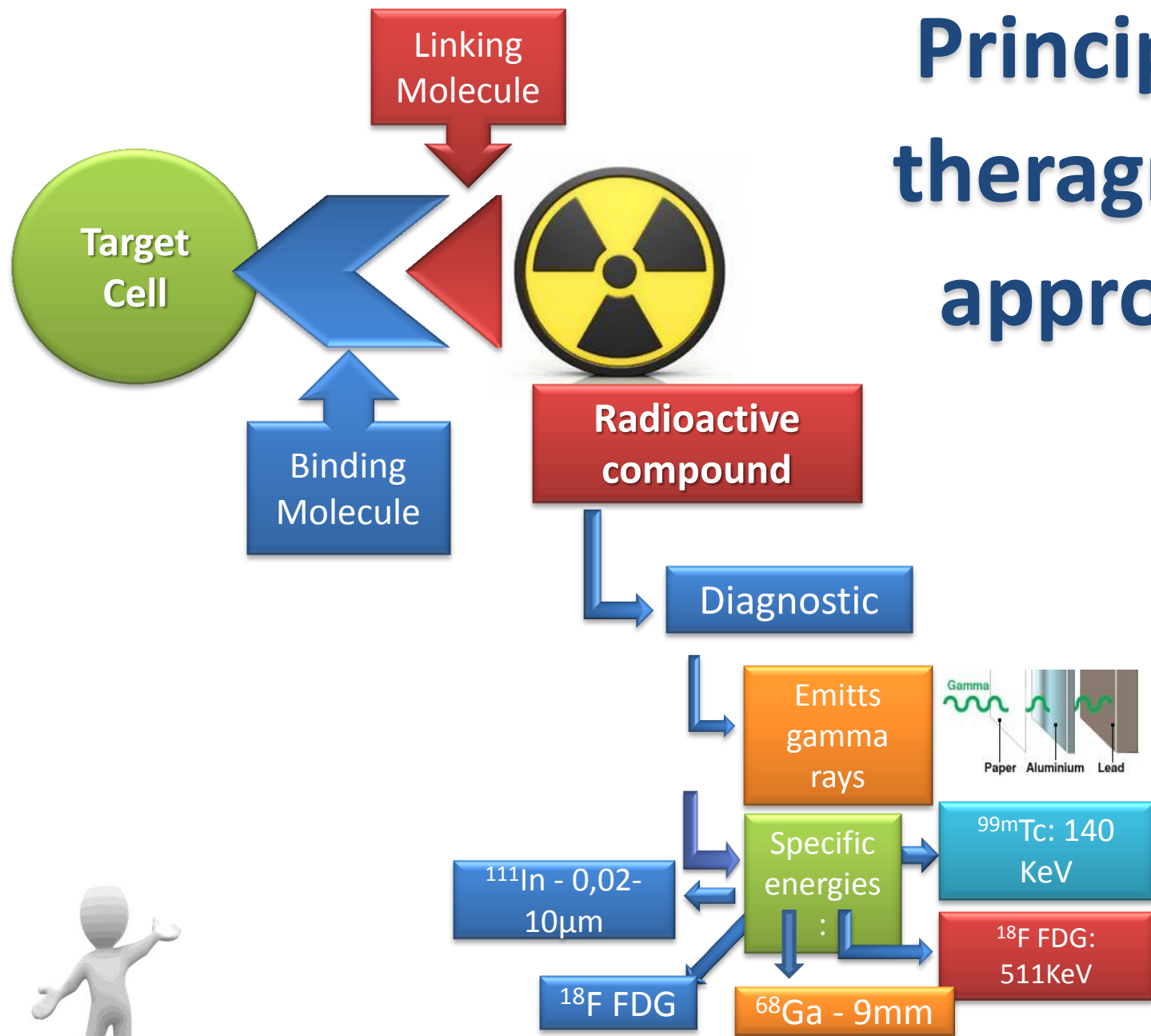
= **THERA**py + Dia**G**NOSTICS

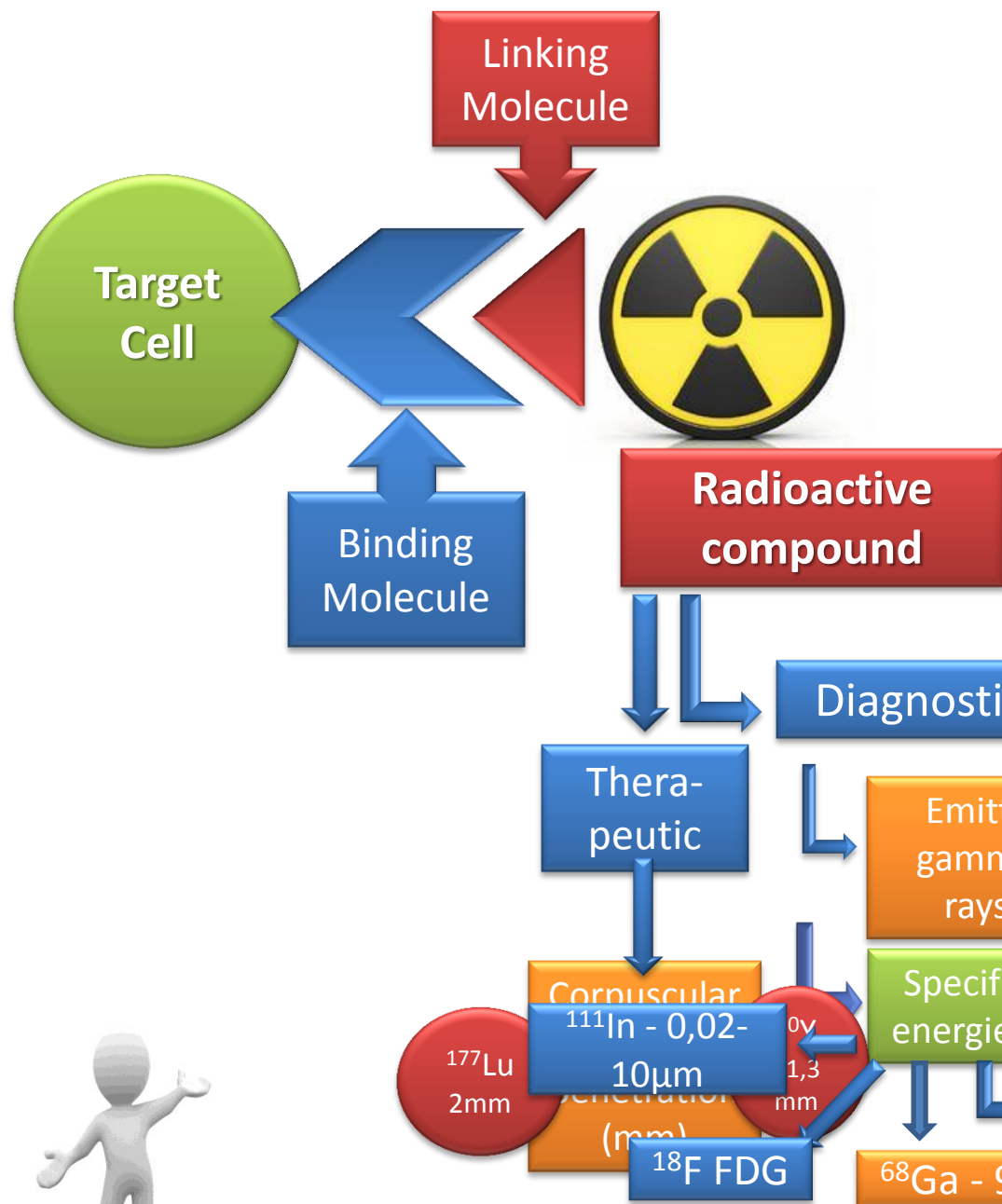
THERA py + Dia**G**NOSTICS

- The term was introduced by *John Funkhouser* in 1998, President of PharmaNetics, a US pharmaceutical company, in an article to describe the company's policy
- (MBA economics studies in University of Virginia and in Arts - Bachelor of Arts, Princeton University)

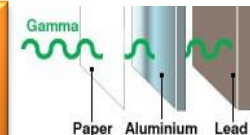


Principle of theragnostic approach:

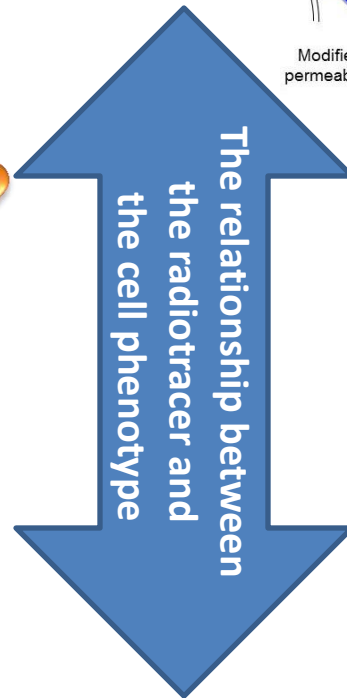
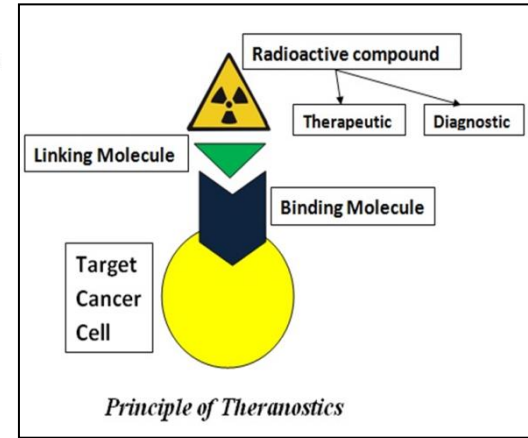
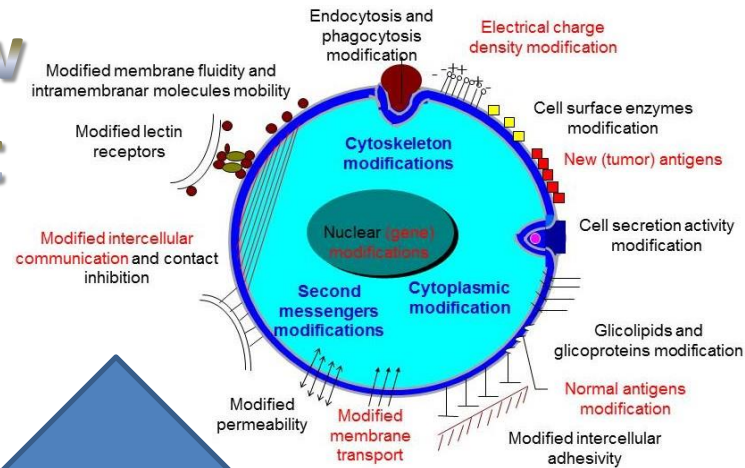




- Same vector molecule +/- binding molecule with
- Different radioisotopes (diagnosis / treatment)
- or
- The same radioisotope in different doses



The point of view of the nuclearist



The point of view of the clinician



Symptomatology polymorphism / late debut of symptoms: diagnosis difficulty

The difficulty of localizing and characterizing tumors for future therapy

The difficult surgical approach (multiple lesions, comorbidities, age, ci)

Markers related to the cell phenotype

When

How

Mechanism

Molecular functional imaging in the tumoral approach

- Classic: *diagnostic*
- Today: *theragnostic*





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SPITALUL CLINIC JUDEȚEAN DE URGENȚE
SF. SPIRIDON
IAȘI

SERVICII DE CALITATE PENTRU PACIENȚII NOȘTRI



**Thank you
and
enjoy the enthusiastic scientific discussions!**