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KOTA V RAMANA, PHD

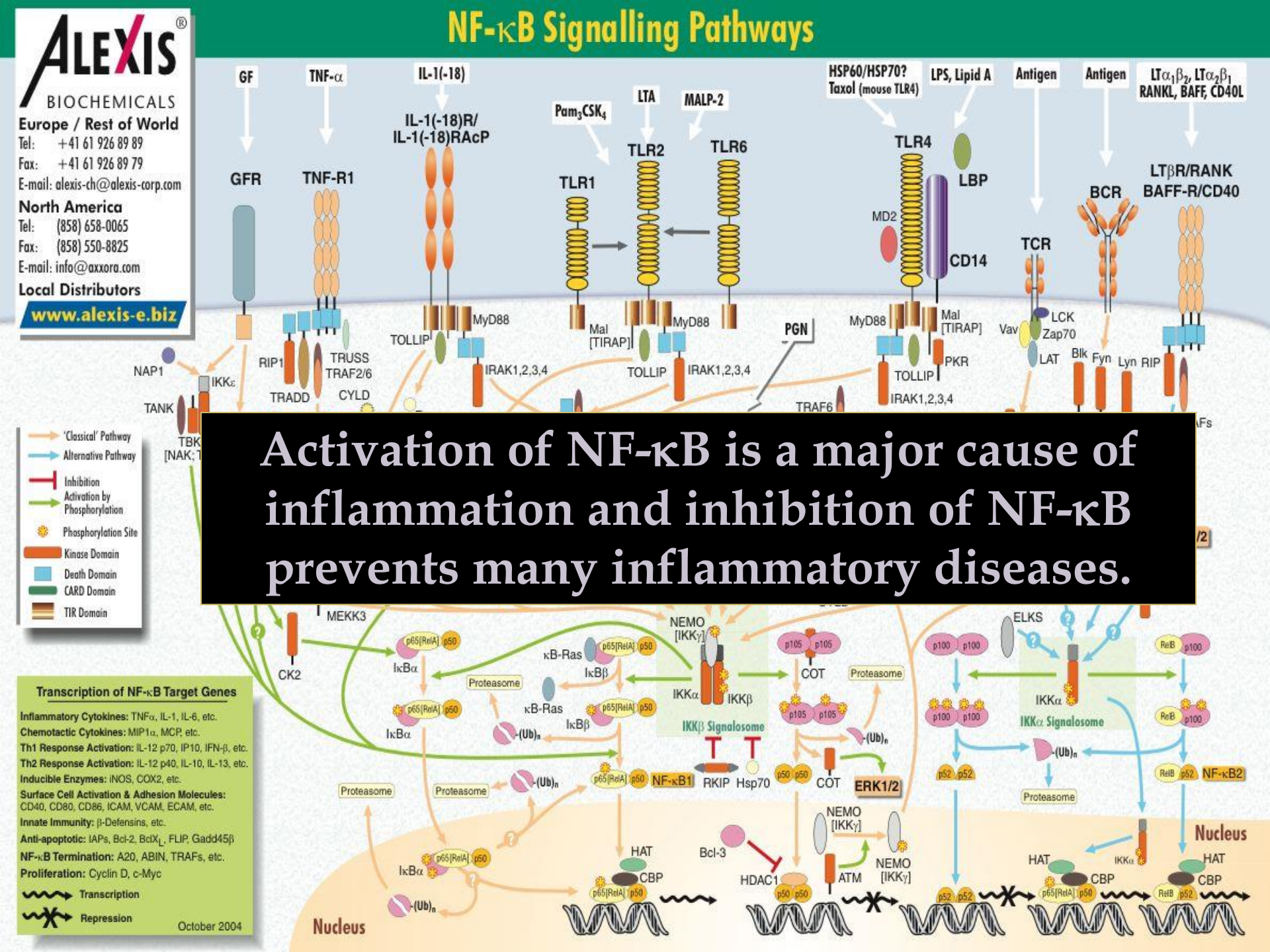
http://bmb.utmb.edu/faculty/ramana.asp

BIOGRAPHY

Dr. Ramana is a Professor at Department of Biochemistry and Molecular Biology, University of Texas Medical Branch, Galveston, TX-USA. The chief objectives of his investigations are to examine the involvement of cellular metabolism and oxidative stress signals in inflammation and to delineate the role of aldo-keto reductases in the inflammatory pathways. He uses various genetic, biochemical and cell biological approaches to analyze inflammatory responses regulated by cellular metabolites in various inflammatory pathologies such as sepsis, uveitis, asthma and cancer. He has published more than 105 peer reviewed articles. He is also serving as an editorial board member of 25 other journals and reviewer of several journals.

RESEARCH INTERESTS

Oxidative stress signaling in Inflammation, role of polyol pathway in diabetic cardiovascular complications, Biochemical and molecular interactions of lipid aldehydes with proteins and DNA and cytokine and chemokine signals in various inflammatory diseases such as diabetes, asthma, sepsis, cancer and uveitis.


NF-κB Signalling Pathways
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Activation of NF-κB is a major cause of inflammation and inhibition of NF-κB prevents many inflammatory diseases.
'Classical' Pathway
Alternative Pathway
Inhibition
Activation by Phosphorylation
Phosphorylation Site
Kinase Domain
Death Domain
CARD Domain
TIR Domain
Transcription of NF-κB Target Genes
Inflammatory Cytokines: TNFα, IL-1, IL-6, etc.
Chemotactic Cytokines: MIP1α, MCP, etc.
Th1 Response Activation: IL-12 p70, IP10, IFN-β, etc.
Th2 Response Activation: IL-12 p40, IL-10, IL-13, etc.
Inducible Enzymes: iNOS, COX2, etc.
Surface Cell Activation & Adhesion Molecules: CD40, CD80, CD86, ICAM, VCAM, ECAM, etc.
Innate Immunity: β-Defensins, etc.
Anti-apoptotic: IAPs, Bcl-2, BclXL, FLIP, Gadd45β
NF-κB Termination: A20, ABIN, TRAFs, etc.
Proliferation: Cyclin D, c-Myc
Transcription
Repression
October 2004
GF
TNF-α
IL-1(-18)
GFR
TNF-R1
IL-1(-18)R/
IL-1(-18)RAcP
Pam3CSK4
LTA
MALP-2
TLR1
TLR2
TLR6
HSP60/HSP70?
Taxol (mouse TLR4)
LPS, Lipid A
Antigen
Antigen
LTα1β2, LTα2β1
RANKL, BAFF, CD40L
TLR4
LBP
MD2
CD14
BCR
LTβR/RANK
BAFF-R/CD40
TCR
NAP1
IKKε
TANK
TBK
[NAK; T
RIP1
TRUSS
TRAF2/6
TRADD
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MyD88
IRAK1,2,3,4
Mal
[TIRAP]
PGN
TRAF6
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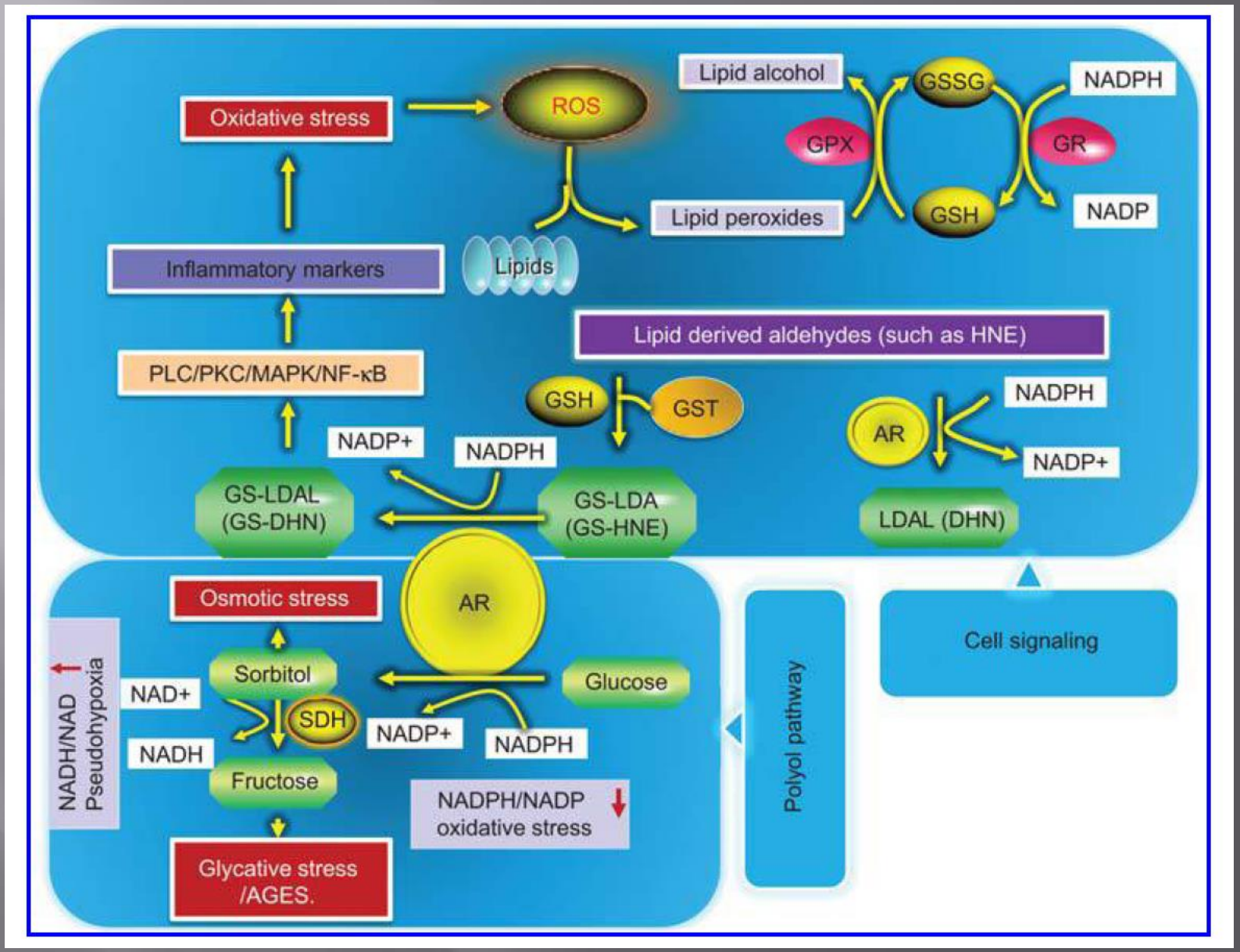
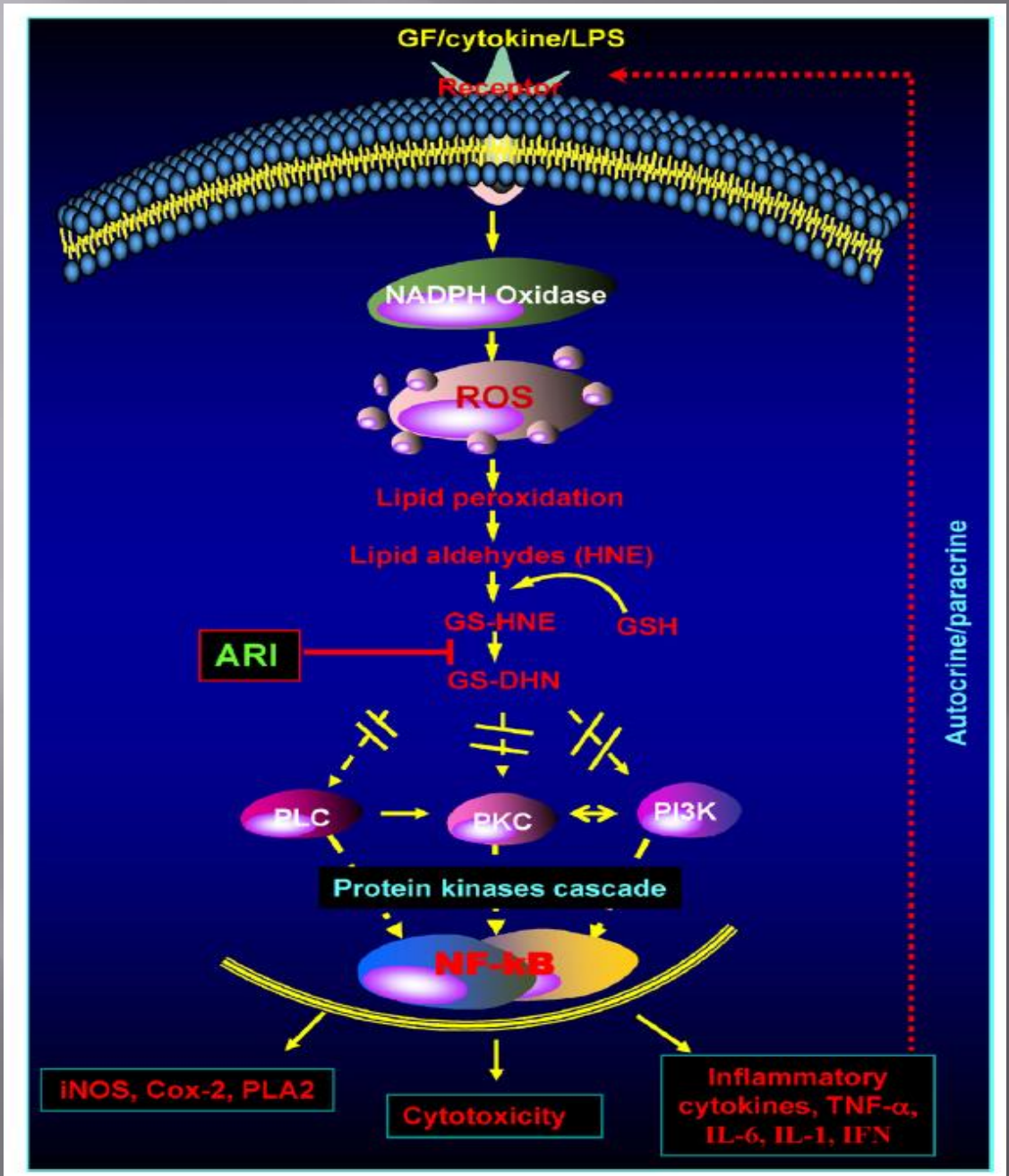
Vav
LCK
Zap70
LAT
Blk
Fyn
Lyn
RIP
MEKK3
CK2
IκBα
p65(RelA)
p50
κB-Ras
IκBβ
Proteasome
NEMO
[IKKγ]
IKKα
IKKβ
IKKβ Signalosome
IKKα Signalosome
COT
p105
ELKS
p100
RelB
-(Ub)n
NF-κB1
RKIP
Hsp70
ERK1/2
NF-κB2
p52
HAT
CBP
Bcl-3
HDAC1
ATM
Nucleus

Aldose reductase regulates polyol pathway of glucose metabolism and lipid aldehyde mediated cell signaling.



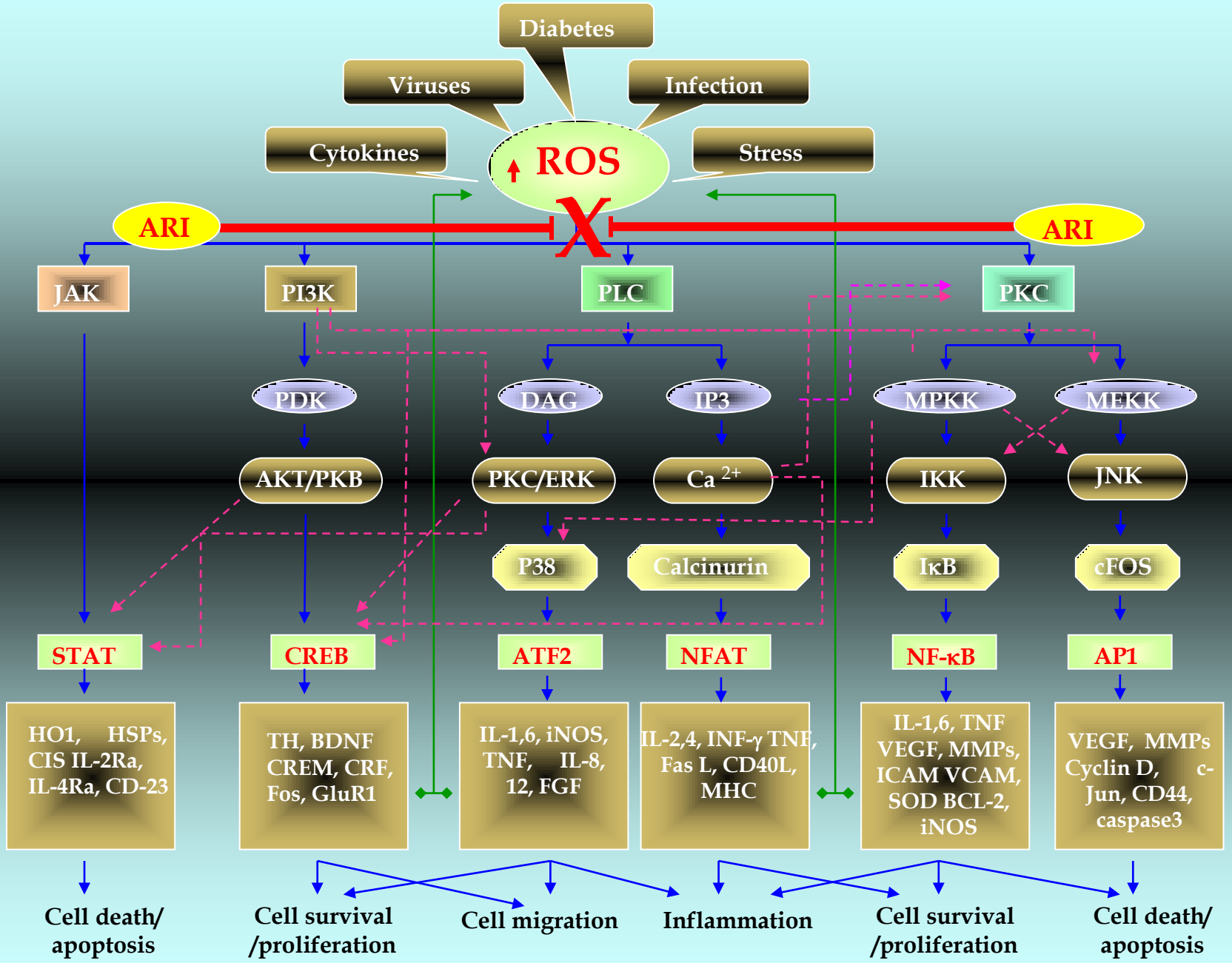
Ref: Biomol Concepts. 2011 Apr 1;2(1-2):103-114.



Aldose reductase (AR) mediates NF-kB signals

Ref: Int J Biochem Cell Biol. 2010, 42:17-20

Aldose reductase inhibition prevents oxidative stress signals



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SIGNATURE

Kota V Ramana

JOURNALS

1.Molecular Pharmaceutics & Organic Process Research

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