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CURRICULUM VITAE

Suresh Kumar PhD

Associate Professor Department of Pathology Division of Administration

OFFICE ADDRESS:

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EDUCATION:

- 1990 Present B.Sc Loyola college, Madras, India
- 1992 Present M.Sc Madurai Kamaraj University, Madurai, India
- 1998 Present Ph.D Osmania University, Hyderabad, India

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

- 1998 2000 PDF, Linkoing University, Linkoping, Sweden
- 2000 2005 PDF, Medical college of Wisconsin, Milwaukee, WI
- 2005 2008 Research Scientist, Medical College of WIsconsin, Milwaukee, WI

FACULTY APPOINTMENTS:

2008 - Present Assistant Professor, Pathology, Medical College of Wisconsin, Milwaukee, WI

ADMINISTRATIVE APPOINTMENTS:

- 2008 2015 Imaging Specialist, Children's Research Institute Imaging Core, Medical College of Wisconsin, Milwaukee, WI
- 2015 Present Scientific Director, Imaging Facility, Neuro Science Research Center, Milwaukee,, WI
- 2015 Present Director, Children's Research Institute Imaging Core, Medical College of Wisconsin, Milwaukee,, WI

RESEARCH ADMINISTRATIVE APPOINTMENTS:

- 2015 Present Director, Children's Research Institute Imaging Core, Medical College of
- 2015 Present Scientific Director, Imaging Facility, Neuro Science Research Center, Milwaukee WI Wisconsin, Milwaukee WI

AWARDS AND HONORS:

- 1990 1992 Scholarship award (Masters), Department of Biotechnology (India)
- 1993 1995 Junior Fellowship (Ph.D), Council of Scientific and Industrial Research (India)
- 1995 1998 Senior Research Fellow, Council of Scientific and Industrial Research (India)
- 2012 Travel Grant, American Society of Cell Biology (USA)

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

- 2002 2005 American Society of cell Biology (Member)
- 2018 Present American Heart Association (Member)

EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:

Journal Review

2015 - Present IJBMB

2015 - Present PLOSone

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:

Active

Peer Review

Title: miRNA mediated cross talk in CRS4:

The role of the miR21p/PPAR-alpha

pathway

Source: NIH
Role: Cosultant
PI: Dr. Kriegel A

Dates: 07/01/2016 - 04/30/2021 Direct Funds: \$1,285,000 (total for all years)

Title: Role of Mitochondrial Trifunctional

Protein Mutations in

Source: CRI

Role: Principal Investigator
Dates: 04/01/2017 - 05/30/19
Direct Funds: \$150,000 (total for all years)

Pending

Peer Review

Title: Ovarian Cancer Chemoresistance

Through CLPTM1L/GRP78

Source: NIH

Role: Co-Investigator

Dates: 07/01/2019 - 06/30/2023 Direct Funds: \$1,285,000 (total for all years)

Prior

Peer Review

Title: Role of MTP alpha variant in infant's

growth and survival

Source: NIH Advancing Translational Sciences

Role: Principal Investigator

Dates: 10/31/2016 - 05/01/2017

Direct Funds: \$12,000 (total for all years)

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

Local

Suresh Kumar, Another biomarker for, Department of Medicine Grand Rounds, Medical College of Wisconsin, 10/05/2005

COMMITTEE SERVICE:

Medical College of Wisconsin

2014 - 2018 Research Affairs Grant

2014 - 2017 Member (Adhoc) American Heart Association Grant Review Panel

2014 - 2017 Clinical & Translational Sciences Institute, Pilot grant

2014 - 2018 Cancer Center Basic Science Seed Grant

PROGRAMMATIC DEVELOPMENTS:

Research Programs

2007 - Present Director CRI imaging core

2016 - Present Scientific Director NRC imaging core

DISCOVERIES:

Identified a new isoform of Human Trifunctional protein alpha Jung-Ja P Kim, Paula E North and Suresh N Kumar (2009) NCBI: Nucleotide

BIBLIOGRAPHY

Refereed Journal Publications/Original Papers

- 1. Suresh N Kumar and Guntupalli Venkateswerlu. (1997) Involvement of an endogenous metalloprotease in the activation of protoxin in Bacillus thuringiensis subsp. Kurstaki. Biochem. Mol. Biol. Internat. 42(5): 901-908.
- Suresh N Kumar and Guntupalli Venkateswerlu. (1998) Endogenous protease activated 66 kDa toxin from Bacillus thuringiensis subsp. kurstaki active against Spodoptera littoralis. FEMS Microbiol. Lett. 159(1): 113-120.
- 3. Suresh N Kumar, Sreelatha T Reddy and Guntupalli Venkateswerlu. (1998) Effect of SDS on Con Asepharose during affinity chromatography of high-affinity binding toxin protein of Bacillus thuringiensis subsp. Kurstaki. Anal. Lett. 31 (10): 1677-1687.
- 4. Suresh N Kumar and Guntupalli Venkateswerlu. (1998) Intracellular proteases in sporulated Bacillus thuringiensis subsp. kurstaki and their role in protoxin activation. FEMS Microbiol. Lett. 166 (2): 377-382.
- Suresh N Kumar, Eugene A Konorev, Deepika Aggarwal and Balaraman Kalyanaraman. (2011) Analysis of proteome changes in doxorubicin treated adult rat cardiomyocyte. Journal of Proteomics 74(5): 683-697 PMID: 21338723
- 6. Noah P Zimmerman, Suresh N Kumar, Jerrold R Turner, Michael B Dwinell(2011) Cyclic AMP dysregulates intestinal epithelial cell restitution through PKA and the small GTPase RhoA. Inflamatory Bowel Diseases (Special accept without external review) [Epub ahead of publication] PMID: 21993975
- 7. Marija Renic, Suresh N Kumar, Mathew A Florence, Nashaat Z Gerges, Debebe Gebremedhin, J Russell Falck, David R Harder and Richard J Roman (2012) Protective effect of 20-HETE inhibition in a model of oxygen-glucose deprivation in hippocampal slice cultures. Am. J. Physiol. Heart & Circ. Physiol. 302(6): H1285-1293 PMID: 22245774
- 8. Soonyean Hwang, Noah P Zimmerman, Kimberle A Agle, Suresh N Kumar, Michele A Battle, Jerrold R Turner and Michael B Dwinell. (2012) E-cadherin is a critical effector of basal and inducible intestinal epithelial restitution. J. Biol. Chem. 287 (26): 22227-22240 PMID: 22549778.
- 9. Kathryn E Marshall, Amber J Tomasini, Khadijah Makky, Suresh N Kumar and Alan N Mayer (2010)
 Dynamic Lkb1-TORC1 signaling as a possible mechanism for regulating the endoderm intestine transition. Developmental Dynamics 239: 3000-3012 PMID: 21204094 Erratum published (2011)
 Developmental Dynamics 240(2): 459
- 10. Hong W, Khampang P, Erbe C, **Kumar S**, Taylor SR, Kerschner JE. Nontypeable Haemophilus influenzae inhibits autolysis and fratricide of Streptococcus pneumoniae in vitro. Microbes Infect. (2014) 16(3):203-13. PMID: 24269704
- 11. Tabatabai NM, North PE, Regner KR, Kumar SN, Duris CB and Blodgett AB. De novo expression of sodium-glucose cotransporter SGLT2 in Bowman's capsule coincides with replacement of parietal epithelial cell layer with proximal tubule-like epithelium. J Membr Biol. (2014) 247(8):675-83 PubMed PMID: 24906870
- 12. Cossette SM, Bhute VJ, Bao X, Harmann LM, Horswill MA, Sinha I, Gastonguay A, Pooya S, Bordas M,

- **Kumar SN**, Mirza SP, Palecek SP, Strande JL, and Ramchandran R. Sucrose Nonfermenting-Related Kinase Enzyme-Mediated Rho-Associated Kinase Signaling is Responsible for Cardiac Function. Circ Cardiovasc Genet. (2016):474-486. PMID: 27780848
- 13. Jin Y, Hu W, Liu T, Rana U, Aguilera-Barrantes I, Kong A, **Kumar SN**, Wang B, Gao P, Wang X, Duan Y, Shi A, Song D, Yang M, Li S, Han B, Zhao G, Fan Z and Miao QR (2018) Nogo-B receptor increases the resistance of estrogen receptor positive breast cancer to paclitaxel. Cancer Lett. 419: 233-244
- 14. Cheng G, Zielonka M, Dranka B, Kumar SN, Myers CR, Bennett B, Garces AM, Dias Duarte Machado LG, Thiebaut D, Ouari O, Hardy M, Zielonka J, Kalyanaraman B. Detection of mitochondria-generated reactive oxygen species in cells using multiple probes and methods: Potentials, pitfalls, and the future. J Biol Chem. (2018) 293(26):10363-10380. PMID: 29739855
- 15. Jeschke JC, Mayne CG, Ziegelbauer J, DeCiantis CL, Singh S, **Kumar SN**, Suchi M, Iwakura Y, Drobyski WR, Salzman NH, Williams CB. A model of TH17-associated ileal hyperplasia that requires both IL-17A and IFN? to generate self-tolerance and prevent colitis. Mucosal Immunol. (2018) 11(4):1127-1137. PMID: 29728642
- 16. Chowdhury TA, Koceja C, Eisa-Beygi S, Kleinstiver BP, Kumar SN, Lin CW, Li K, Prabhudesai S, Joung JK, Ramchandran R. Temporal and Spatial Post-Transcriptional Regulation of Zebrafish tie1 mRNA by Long Noncoding RNA During Brain Vascular Assembly. Arterioscler Thromb Vasc Biol. (2018) 38(7):1562-1575 PMID: 29724820
- 17. Zemanovic S, Ivanov MV, Ivanova LV, Bhatnagar A, Michalkiewicz T, Teng RJ, **Kumar S**, Rathore R, Pritchard KA Jr, Konduri GG, Afolayan AJ. Dynamic Phosphorylation of the C Terminus of Hsp70 Regulates the Mitochondrial Import of SOD2 and Redox Balance. Cell Rep. (201825(9):2605-2616.e7. PMID: 30485823