

CURRICULUM VITAE



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AFFLIATION:

Associate Professor (Research Associate)
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CITIZENSHIP USA

EDUCATION:

- 1972-1978: Ph.D. Molecular Biology, Tata Institute of Fundamental Research,
University of Bombay, India
Thesis: Biochemical and Developmental Genetics of *Caenorhabditis elegans*.
Mentors: Prof. O. Siddiqui, Dr. P. Babu, and Dr. Sydney Brenner
- 1969-1971: M.Sc. Biochemistry (First Division, *cum laude*), A. M. University, Aligarh, India
- 1966-1969: B.Sc. Physics (Distinction, *cum laude*), J. M.I. University, New Delhi, India
- 1978-1981: Post-Doctoral Training, Max Planck Institute for Experimental Medicine, Gottingen,
Germany

PROFESSIONAL EXPERIENCE:

April 2007 - Research Associate [Associate Professor], Department of Medicine, Section of Pulmonary and Critical Care,
Division of the Biological Sciences & the Pritzker School of Medicine, Chicago, IL 60037

- 1999-2007 Associate Professor, Dept of Pharmacology, College of Medicine, University of Illinois at Chicago, Chicago, IL 60612
- 1986-1999 Associate Professor, Head, Laboratory of Molecular Biology, Dept of Ecological Engineering, Toyohashi University of Technology, Japan
- 1997-1998: Visiting Faculty, Dept of Biochemistry, Molecular Biology & Cell Biology, Northwestern University, Evanston, IL 60208, USA
- 1981-1986 Senior Research Associate, Instructor, Dept of Biochemistry, Molecular Biology, Cell Biology, Northwestern University, Evanston, IL
- 1978-1981 Max-Planck-Society Postdoctoral Fellow, Max-Planck-Institute for Experimental Medicine, Gottingen, Germany
- 1978-1981 Lecturer: Faculty of Mathematics and Philosophy
- 1972-1978 Visiting Member: School of Physics and Mathematics, Molecular Biology Unit, Tata Institute of Fundamental Research, Bombay, India
- 1972-1972 Senior Technical Associate: Central Sheep & Wool Research Institute, Avikanagar, Rajasthan, India

HONORS and External Recognition:

- 2011:** American Thoracic Society, 2011 International Conference Denver Colorado, Facilitator Thematic Poster Session & Discussion Leader, “Endothelial Barrier Function”
- 2010:** Chairman, Session on Science Policy on Environment and Resources; UNESCO and ZSF South Asia Science Policy Scientists Conclave, New Delhi
- 2010:** American Thoracic Society 2010 International Conference, New Orleans, Facilitator, Thematic Poster Session: In search of Biological & Genetic Markers in Lung Injury
- 2009:** Gordon Research Conference, Vascular Cell Biology, Ventura, USA
- 2008:** Chairperson, International Conference on Developmental Biology, November 2008, Okinawa Institute of Science & Technology, Okinawa, Japan.
- 2008:** Chairman: MicroRNA Club, University of Chicago, Chicago
- 2008:** Gordon Research Conference: Post-Transcriptional Regulation of Gene Expression, Colby College, Waterville ME, USA

2007: UNESCO : Capacity Building in Science & Technology in South Asia Region, Session Chair and Invited Talk at Indian National Science Academy, New Delhi, November 2007.

2004-2006: Member Scientific Advisory Board, Neopharm Inc. Deerfield, IL. The liposome drug delivery corporation uses cardiolipin based cationic liposome (Neophectin) for the delivery using NeoLipid(R) Liposomal Drug Delivery platform for the delivery of CINTREDEKIN BESUDOTOX (IL13-PE38QQR), SN-38 a topoisomerase inhibitor.

2002: Member NIH, IRG Team for Infectious Diseases & Microbiology. The steering committee sets the research priorities for a given area helping the National Institutes of Health in allotting funds for competitive research grant proposals.

Associate Editor: Nanobiology (1994-2000). I am among the founding board member and associate editor of the journal in 1994 originally conceived by Prof. Stuart Hameroff of University of Arizona Medical School Tucson, AZ, following an International Workshop sponsored by NATO, and DRAPA for the studies related on emerging properties of coherent systems in biological information processing. The journal was initially published by Carfax publishers, UK.

Peer Reviewer: Science, Developmental Biology; American J, of Physiology (Lung- Cell & Molecular Mechanisms), J. Biological Chemistry, Nanobiology, Genome Research, J. Cell Biology, journal of Microvascular Research, PLoS ONE Open access journal.

Teaching Graduate Courses: Taught Graduate Courses in Genetics, Biochemistry, Molecular Biology; Tata Institute of Fundamental Research, University of Bombay; 1976-1978. Undergraduate and Graduate Courses in Faculty of Philosophy & Mathematics; Georg August University, Göttingen, Germany, 1978-1981; Graduate Seminar in Biological Sciences, Northwestern University, Evanston, IL 1981-1985; Graduate and Undergraduate Courses in Biology, Molecular Biology, Ecological Engineering, Pharmacology, Genetics, Drug Delivery, Physiology and Cell Biology at Toyohashi University of Technology, Toyohashi, Japan, 1986-1999; Graduate Seminar in Pharmacology, Genetics, and Molecular Biology, University of Illinois, Chicago, IL, 1999-2007. Advanced topics in Molecular Biology; MicroRNA Club, University of Chicago, Chicago, IL 2008-2009. Supervisor, PSOMER, summer student's research program for underrepresented minority communities: Pritzker School of Medicine, University of Chicago, Dept of Medicine, 2007-2011.

National and International Patents:

Aligned peptide array and a rational and rapid method for the detection of a binding or interaction site of a protein by using the same; NEC Corporation: USA, European Union, Japan, 1997

Patent: siRNA-based suppression of TGF beta-receptor II in wound healing of the eye, University of Illinois at Chicago, USA, 2004

Patent: Beta Chain Associated Regulators of Apoptosis, University of Illinois at Chicago, USA. 2005,

Patent: RNAi based regulation of Long Form-MLCK in endothelial cells, University of Illinois at Chicago, USA 2006

Membership in Professional Societies:

Genetics Society of America (**Emeritus Member**)
American Thoracic Society, USA
Japanese Society for Molecular Biology
American Society for Cell Biology

Grants and Awards:

Current Grant Support:

1: Project Number (Principal Investigator), 2 P01 HL058064-13, Dr. Joe G.N. Garcia; Source: NIH/NHLBI, Co-PI: Shahid Siddiqui

Title of Project (*or Subproject*), 02/01/08-01/31/13

Hepatocyte Growth Factor/c-Met Involvement in lung EC Barrier Regulation, The major goals of this project are to examine the roles of c-Met and c-Met single nucleotide polymorphism (SNP) regulation of HGF-mediated attenuation of lung pathophysiology

2: Program Project, NHLBI, Principal Investigator, Dr. Joe G. N. Garcia, co-PI, Shahid S. Siddiqui

Cytoskeletal Regulation of Lung Endothelial Pathobiology

This project examines the role of cytoskeleton in lung injury and endothelial permeability.

Pending

Shahid S. Siddiqui –PI

R21 Application, Assay Development for High Throughput Molecular Screening, NIH, October 2010
“High throughput screen for modulators of smooth muscle function in *C. elegans*”

Shahid S. Siddiqui-PI

RO3 Grant Application, National Cancer Institute, NIH
“MicroRNA Profile as a Biomarker for Head & Neck Cancer” March 2011.

COMPLETED

RO1 grant application [NHLBI-NIH] with Dr. Joe G. Garcia (PI) on the Role of MLCK in endothelial barrier function. Co-PI: Shahid Siddiqui

RO1 Grant application [NHLBI-NIH] with Dr. Joe Garcia (PI), PBEF in the regulation of acute lung injury and endothelial permeability. Co-PI, Shahid Siddiqui

Co-PI: R01 (PI, Dr. Salgia R) NIH/NCI.

c-Met in mesothelioma: Novel approaches to mesothelioma therapy, use of *C. elegans* in drug screens.

RO1 Grant

Granting Agency: NIH (NIGMS)

Project Period: 2001-2005; 2005-2009 (Renewal)

Principal Investigator: Kozasa T,

Co-Principal Investigator: Siddiqui, Shahid S.

Total Direct Cost: \$1,250,000 (09-01-05 to 08-31-09) Renewal

Percentage Effort: 15%

Title: Molecular and Physiological Analysis of G-alpha 12 and 13 in mammalian cells and in the nematode *C. elegans*.

The goal of this grant is to elucidate molecular and physiological roles of G-alpha12 and G-alpha-13 in mammalian cells and in the nematode *C. elegans*.

Role: This project was conducted at University of Illinois, Chicago, Co-PI *no longer on project due to move to The University of Chicago since April 2007.

Bridges Grant NIH

Granting Agency: NIH (NIGMS)

Project Period: 2001-2005; 2005-2009 (Renewal)

Principal Investigator: Erdogobu, U.

Co-Principal Investigator: Siddiqui, Shahid S.

Total Direct Cost: \$599,234; (09-01-02 to 08-31-05) Renewal (09-01-06 to 08-31-09)

Percentage Effort: 15%

Title: The initiative for Minority Students: Bridge to the Baccalaureate.

The major goal of this project is to motivate minority students in Junior Colleges for Science Education in Science Education.

Role: This project was conducted at University of Illinois, Chicago, Co-PI *no longer on project due to move to The University of Chicago since April 2007.

1997-1999: Monbusho, Ministry of Education, Japan, Award for Basic Research at Toyohashi University of Technology, Japan. Title: Genetic Characterization of Kinesin superfamily in *C. elegans*. 4,500,000 Yen (Direct Cost for Research Expenses) Total Salary Support: 16,450,000 Yen

1998-1999: Okawa Foundation, Tokyo. Fundamental Research Award for research in nervous system development. (Direct Research Expenses, 1,000,000 Yen)

1995-1996: Kyowa Foundation, Tokyo, Japan. Basic Research Award in Neurobiological Research; Toyohashi University of Technology. (Direct Research Support, 1,500,000 Yen)

1991-1995: NEC Corporation, Japan. Fundamental Research Award for Genetic studies of neural development in *C. elegans* at Toyohashi University of Technology. (Direct Support 4,350,000 Yen)

1991-1994: Monbusho, Ministry of Education, Japan, Grant in Aid for Basic Research, Genetic studies of cytoskeleton in *C. elegans*. (Direct Support, 5,350,000 Yen)

1986-1990: Fundamental Research Grant, NEC Corporation, Japan, Fundamental Research Award for research on Genetics of neural development in *C. elegans*. (Direct Support, (4,000,000 Yen)

1986-1989: Monbusho, Ministry of Education, Toyohashi University, Award for Basic Research in Tubulin Gene family of *C. elegans*. Toyohashi University of Technology, (Direct Support, (6,350,000 Yen)

1981-1985: NIH Post-doctoral Fellowship Award, Supervisor: Dr. J.G. Culotti, Northwestern University, Evanston IL

1978-1981: Deutsche Forschungsgemeinschaft Postdoctoral Fellowship Award, Supervisor Dr. Gunter von Ehrenstein, Max-Planck Institute for Experimental Medicine, Goettingen, Germany

1972-1978: Tata Institute of Fundamental Research, Visiting Fellow Award, Government of India, Bombay

1969-1971: Ministry of Health, Government of India, Ministry of Health Fellowship Award in Biochemistry, A.M. University, Aligarh,

1968-1969: Jawaharlal Nehru Merit Award, JMI University, New Delhi. Best Academic and Scholarly Achievement award in the JMI University.
The Merit Award was awarded by the President of India.

Selected Peer Reviewed Publications:

Loganathan S, Kanteti R, **Siddiqui SS**, El-Hashani E, Tretiakova M, Vigneswaran H, Cervantes G, Natarajan V, Husain AN, Vokes EE, Kindler HL, Salgia R. Role of protein kinase C β and vascular endothelial growth factor receptor in malignant pleural mesothelioma: Therapeutic implications and the usefulness of *Caenorhabditis elegans* model organism. **Journal of Carcinogenesis**. 2011 Mar 3; 10: 4. PMID: 21383961

Zhang J, Huang C, Hussain M, Pan X, Parhar R, **Siddiqui SS**, and Hashmi S. Kruppel like transcription factor KLF-3: Key regulator of the peroxisomal and mitochondrial beta oxidation in *Caenorhabditis elegans*. [**J. Mol. Biol., Volume 410, June 7, 2011**]

Sarwar Hashmi, Jun Zhang, **Shahid S. Siddiqui**, Ranjit S Parhar, Razan Bakheet, and Futwan Al-Mohanna. Partner in fat metabolism: Role of KLFs in fat burning and reproductive behaviour. [In Press, **July 2011, 3 Biotechnology, Elsevier**].

Siddiqui SS, Loganathan, S. Krishnaswamy S, Faoro L, Jagadeeswaran R, Salgia R. *C. elegans* as a model organism for *in vivo* screening in cancer: effects of human c-Met in lung cancer affect *C. elegans* vulva phenotypes. *Cancer Biol. & Therapy*. 7: 1-8, 2008

Siddiqui SS, Siddiqui ZK, Uddin S, Minshall R., and Malik AB. p38 MAPK Activation Coupled to Endocytosis is a Determinant of Endothelial Monolayer Integrity. *Am J Physiol Lung Cell Mol Physiol.*: 292: L114-L124. 2007

- Frey R, Javed K, Rahman A., **Siddiqui SS**, Malik AB. Phosphatidylinositol 3-kinase {gamma} signaling via PKC {zeta} mediates NADPH oxidase-induced oxidant generation and NF- {kappa} B activation in endothelial cells. *J Biol Chem.* 281:16128-16138, 2006
- Siddiqui SS**, Siddiqui ZK, Malik AB. Albumin endocytosis in endothelial cells induces TGF-beta receptor II signaling. *Am J Physiol Lung Cell Mol Physiol.*; 286: 1016-26. 2004
- Nakamura H, **Siddiqui SS**, Shen X, Malik AB, Pulido JS, Kumar NM, Yue BY. RNA interference targeting transforming growth factor-beta type II receptor suppresses ocular inflammation and fibrosis. *Mol Vis.*; 10: 703-711. 2004
- Yau DM, Yokoyama N, Goshima Y, Siddiqui ZK, **Siddiqui SS**, Kozasa T. Identification and molecular characterization of the G alpha12-Rho guanine nucleotide exchange factor pathway in *Caenorhabditis elegans*. *Proc Natl Acad Sci U S A.*; 100(25):14748-53. 2003
- Siddiqui SS**. Metazoan motor models: kinesin superfamily in *C. elegans*. *Traffic*;3 :20-28. 2002
- Baleanu-Gogonea C, **Siddiqui SS**. Molecular cloning and three-dimensional structure prediction of a novel alpha-tubulin in *Caenorhabditis elegans*. *J Cell Mol Med.* 3:183-195. 2000
- Khan ML, Ali MY, Siddiqui ZK, Shakir MA, Ohnishi H, Nishikawa K, **Siddiqui SS**. *C. elegans* KLP-11/OSM-3/KAP-1: orthologs of the sea urchin kinesin-II, and mouse KIF3A/KIFB/KAP3 kinesin complexes. *DNA Res*;7:121-125. 2000
- Ali MY, Siddiqui ZK, Malik AB, **Siddiqui SS**. A novel C-terminal kinesin subfamily may be involved in chromosomal movement in *Caenorhabditis elegans*. *FEBS Lett.* 17; 470:70-6. 2000
- Ali MY, **Siddiqui SS**. cDNA cloning and expression of a C-terminus motor kinesin-like protein KLP-17, involved in chromosomal movement in *Caenorhabditis elegans*. *Biochem Biophys Res Commun.* 267:643-650. 2000
- Gogonea CB, Gogonea V, Ali YM, Merz KM Jr, **Siddiqui SS**. Computational prediction of the three-dimensional structures for the *Caenorhabditis elegans* tubulin family. *J Mol Graph Model.* ; 17: 90-100 and 126-130. 1999
- Fukushige T, Siddiqui ZK, Chou M, Culotti JG, Gogonea CB, **Siddiqui SS**, Hamelin M. MEC-12, an alpha-tubulin required for touch sensitivity in *C. elegans*. *J Cell Sci*; 112 : 395-403.1999
- Gogonea, CB, Ali, MY, Matsushige, S., Gogonea, V., **Siddiqui SS**. 3'D protein structure analysis of normal and mutant alpha tubulin isotypes in *Caenorhabditis elegans*. *R. Biotech Lett.* 4, 1-13, 1999
- Khan ML, Gogonea CB, Siddiqui ZK, Ali MY, Kikuno R, Nishikawa K, **Siddiqui SS**. Molecular cloning and expression of the *Caenorhabditis elegans* klp-3, an ortholog of C terminus motor kinesins Kar3 and ncd. *J Mol Biol*;270:627-39.1997

Fukushige T, **Siddiqui SS**. Effect of the *dpy-20* and *rol-6* cotransformation markers on alpha-tubulin gene expression in *C. elegans* transformants. *Transgenic Res*; 4: 332-40.1995

Fukushige T, Yasuda H, **Siddiqui SS**. Selective expression of the *tba-1* alpha tubulin gene in a set of mechanosensory and motor neurons during the development of *Caenorhabditis elegans*. *Biochim Biophys Acta.*;1261: 401-16. 1995

Tabish M, Siddiqui ZK, Nishikawa K, **Siddiqui SS**. Exclusive expression of *C. elegans osm-3* kinesin gene in chemosensory neurons open to the external environment. *J Mol Biol.*; 247:377-89. 1995

Fukushige T, Yasuda H, **Siddiqui SS**. Molecular cloning and developmental expression of the *alpha-2* tubulin gene of *Caenorhabditis elegans*. *J Mol Biol.*; 234:1290-300. 1993

Shakir MA, Miwa J, **Siddiqui SS**. A role of ADF chemosensory neurones in dauer formation behaviour in *C. elegans*. *Neuroreport.*;4: 1151-1154. 1993

Shakir MA, Fukushige T, Yasuda H, Miwa J, **Siddiqui SS**. *C. elegans osm-3* gene mediating osmotic avoidance behaviour encodes a kinesin-like protein. *Neuroreport.*; 4:891-894. 1993

Siddiqui SS, Culotti JG. Examination of neurons in wild type and mutants of *Caenorhabditis elegans* using antibodies to horseradish peroxidase. *J. Neurogenet.*; 7:193-211. 1991

Siddiqui SS. Mutations affecting axonal growth and guidance of motor neurons and mechanosensory neurons in the nematode *Caenorhabditis elegans*. *Neurosci Res Suppl.*; 13:S171-90. 1990

Siddiqui SS, Aamodt E, Rastinejad F, Culotti J. Anti-tubulin monoclonal antibodies that bind to specific neurons in *Caenorhabditis elegans*. *J Neurosci.*;9:2963-2972. 1989

Siddiqui SS & Culotti, JG. A neural antigen conserved in different invertebrates. *Annals. N. Y. Acad. Sci.* 435:341-343. 1984

Siddiqui SS, Babu P. Genetic mosaics of *Caenorhabditis elegans*: a tissue-specific fluorescent mutant. *Science.* 210:330-332.1980

Siddiqui SS, Babu P. Kynurenine hydroxylase mutants of the nematode *Caenorhabditis elegans*. *Mol Gen Genet.* 179:21-4. 1980

Siddiqui SS. Biochemical and Developmental Genetics of *Caenorhabditis elegans*. PhD Thesis, Tata Institute of Fundamental Research, University of Bombay, pp1-125. 1978

Rama & **Siddiqui SS**: A potent method of mutagenesis in *Caenorhabditis elegans*. *Curr. Sci.* 45, 291, 1976

Publications in Prep:

Siddiqui, SS, Cohen E., Vokes, E. Circulating miRNAs as novel biomarkers for recurring and non-recurring head and neck cancer.

Siddiqui SS, Hashmi, S. and Gozal, D. Perspectives in Sleep Research: Role of kruppel like factors in metabolic disorders and sleep.

Siddiqui, SS., Brown M., Sammani S., Moreno L, Moitra J, Elangovan V, Singleton P, Garcia, JGN. Role of IFITM3 and nmMLCK in Extracellular PBEF-Mediated NF kappa B Activation in Human Lung Microvascular Endothelium.

Siddiqui SS, Elangovan VR, and Garcia JGN. Alternate polyadenylation in human MYLK transcripts in normal and cancerous tissues.

Siddiqui SS, and Singleton P. MicroRNA 24-1 dysregulation in LPS induced endothelial barrier disruption.

Siddiqui SS, Moreno L, Sammani S, Hong Y, Lussier Y, and Garcia JGN. Correlation of mRNA and miRNA profiles in LPS induced lung injury.

Siddiqui SS, MicroRNAs in Asthma.

National and International Invited Lectures and Seminar Talks:

Facilitator and Coordinator: American Thoracic Society International Conference, Denver, Co; May 2011

UNESCO sponsored International Conference on “Capacity Building in Science and Technology, South Asia Region, Indian National Science Academy, New Delhi,

Session Chairman and Invited Talk: Micro Solutions of Complex Human Diseases: Role of microRNAs in Health & Pathogenesis; November, 2010.

Delhi University, Department of Zoology, Delhi, India. **Invited Talk:** MicroRNAs and Environment, genetic and epigenetic mechanisms; Host: Dr. Rita Singh., December 2010

Invited talk: New York Blood Center, New York: Invited Talk, “Visfatin, NAMPT, PBEF: Multifunctional cytokine in Obesity, Acute Lung Injury and Cancer” Host Dr. S. Hashmi, October 2010

Gordon Research Conference: Role of microRNAs in LPS Induced Acute Lung Injury. Ventura CA, February, 2010.

Chicago State University, Chicago, Department of Biological Sciences, December 1, 2009. Host: Dr. Kevin Swiver,

Invited Lecture, “Molecular Mechanisms of Human Disease in *C. elegans* as a Model System”.

Pulmonary and Critical Care Research in Progress, University of Chicago, January 2009, Host Dr. N. Dulin, Seminar: Role of microRNAs in LPS induced Acute Lung Injury.

Post-Graduate Institute of Medical Research and Education, Pulmonary Medicine Department, Chandigarh, India, December 2008, Host Dr. S. K. Jindal, Invited lecture, "Role of microRNAs in cardiovascular health and disease". December 2007.

UNESCO sponsored International Conference on "Capacity Building in Science and Technology , South Asia Region, Indian National Science Academy, New Delhi, Session Chair on Biotechnology in Agriculture & Medicine, Invited Talk: Macro implications of microRNA approach in medicine and biotechnology, November 2007.

15th International Conference on *C. elegans*, University of California, Los Angeles, CA. June 2007, Workshop on Photosensitive fluorescent dyes in measuring neural activity in *C. elegans*.

Tata Institute of Fundamental Research, Mumbai, India, March 2007. Host Prof. Dr. S. Banerji, TIFR Colloquium Talk: "Conserved TGF-beta signaling mediating endocytosis in *C. elegans* and human pulmonary endothelium".

Post-Graduate Institute of Medical Research and Education, Department of Cardiology, Chandigarh, India, March 2007, Host Dr. Amod Gupta, Invited lecture, "Reducing scar formation in the eye using siRNA based inhibition of the TGF-beta Receptor II".

Punjab University, Chandigarh, India, March 2007, Host Dr. K. Sobti, Vice Chancellor Punjab University, National Science Day Lecture: "Emerging tools in the diagnosis and therapy of vascular disease :The world of micro RNA and siRNA.

Post-Graduate Institute of Medical Research and Education, Department of Cardiology, Chandigarh, India, March 2007, Host Prof. K. K. Talwar, Invited Talk, Therapeutic targets in cardiovascular disease"

Hamdard University, New Delhi, March 2007, Host: The Vice Chancellor J. Hamdard University, Dr. S. Ahmed. Invited Talk, "Nano-biotechnology, kinesin motors as cellular machines"

Delhi Institute of Pharmacological Sciences, New Delhi, February 2007, Host: Dr. S. Agrawal. Invited Talk: "The siRNA and Micro-RNA based TGF-beta signaling targets for pharmacological interventions"

VB Patel Chest Institute, University of Delhi, Delhi, February 2007, PHYSIOCON 2007, International Conference on cardio-pulmonary disease. Host Prof. M. Fahim, Invited Conference Talk: "Micro-RNA and siRNA based regulation of endocytosis in pulmonary endothelium".

University of Chicago, Chicago IL, May 2006. Host, Prof. Dr. Joe GN Garcia, Seminar Talk, "High throughput screening using *C. elegans* for kinesin motor inhibitors"

University of Chicago, Chicago IL April 2006. Host Prof. Dr. Joe GN Garcia, Seminar Talk: "Role of p38 MAPK in pulmonary endothelial monolayer integrity".

University of Chicago, Chicago IL, March 2006. Host Prof. Dr. Ravi Salgia, Invited lecture, "Use of *C. elegans* transgenic animals for cancer research"

Vascular Biology and Medicine Meeting, Chicago, June 2005. Presentation: "Heteromeric Kinesin-2 mediate trans-endothelial transport in pulmonary microvessel endothelial cells:

Dr. Reddy's Laboratories, Hyderabad, March 2005. Host, Dr J. Hasan. "TGF-beta receptor down regulation using siRNA for therapeutic application in the eye"

Indian Institute of Chemical Technology, Hyderabad, India, March 2005. Host Prof. Dr. J.S. Yadav, Invited Lecture, and "TGF-beta signaling in endocytosis and wound healing"

Center for DNA Sequencing and Finger Printing. Hyderabad, India, March 2005. Host Dr. S. E. Hasnain, Invited Talk: Conserved TGF-beta signaling across metazoans".

UNESCO-CRID conference on Technology in the Developing World, Chandigarh, India. March 2005. Host: Conference Organizers. Invited Talk, "Biotechnology in the Developing World, Opportunities and Challenges for Indian Pharmaceutical Industry".

New York Blood Center, New York, NY. March 2004. Host Dr. Sarah Lustigman., Invited Lecture: Regulation of Endocytosis in *C. elegans* and in Pulmonary Endothelium."

Neopharm Inc, Deerfield, IL November 10, 2004. Host. Mr. Jim Hussey, CEO and President Neopharm. Invited Talk, "Delivery, Delivery, Delivery, the Next Challenge in siRNA Research"

University of California, Santa Barbara, CA April 2004. Host Dr. Joel Rothman. Invited Talk at the *C. elegans* West coast Conference, "Kinesin superfamily in *C. elegans*, cellular expression".

University of Texas Southwest Medical Branch, Galveston, TX, March 2003. Host, Prof. Dr. G.A. Ansari, Invited Lecture, "Kinesin motors in intracellular transport".

University of California, Los Angeles, CA, June 2003. Host Meeting Organizers, 14th International *C. elegans* Conference, Talk: TGF-beta signaling and endocytosis.

University of Illinois at Chicago, IL March 2002, Host: Dr. Peter Okkema. Invited Lecture: "DAF-7 TGF-beta signaling in endocytosis in intestinal epithelium of *C. elegans*".

University of California, Los Angeles, CA. June 2001, Host: Organizers, 13th International *C. elegans* Conference. Talk, "Daf-7 pathway in albumin endocytosis"

University of Illinois, Normal, IL, April 2001. Host Prof. A. Otsuka, Invited Talk, "Kinesin superfamily of *C. elegans*".

University of Illinois at Chicago, IL, April 2000, Host: Prof. Ronald Hoffman. Invited Seminar, "p38 MAPK and TGF-beta signaling in endothelium".

Northwestern University, Evanston, IL April 1999. Host: Prof. Richard Morimoto, Invited Seminar: "The *osm-3* kinesin in the chemosensory neurons in *C. elegans*"

University of Wisconsin, Madison. June 1999. Invited Talk: 12th International *C. elegans* Conference. *C. elegans*. "Kinesin Superfamily: Subfamilies and Surprises"

University of Illinois at Chicago, IL January 1999, Host: Dr. Asrar B. Malik. Invited Seminar, "Kinesin motor protein super family in *C. elegans*."

National Institute of Genetics, Mishima, Japan: March 1998, Host Dr. Yoshiki Hotta. Invited Seminar, "Kinesin motors in neural development of *C. elegans*".

Harvard University, Cambridge, MA, June 1998, Host Prof. Gary Ruvkun, Invited Seminar, "The tubulin gene family in *C. elegans*, neuron specific expression of tubulin isoforms".

MRC Lab of Molecular Biology, Cambridge, UK July 1998, Host Dr. Jonathan Hodgkin, Invited Talk, "Alpha tubulin genes in *C. elegans*, Tissue specific Expression"

Northwestern University Medical School, Chicago, IL November, 1997. Host: Prof. Teepu Siddique, Invited Talk: Genes affecting motor neuron development in *C. elegans*.

NEC Corporation, Basic Research Labs. Tsukuba, Japan, April 1997, Host: Dr. Johji Miwa. Invited Talk, "Does the *emb-8* gene affecting embryonic asymmetry encode CEJ-1 cell junction molecule?"

University of Wisconsin at Madison, WI, June 1997, International *C. elegans* Conference: Contributed Talk: ARMADILLO BY A DOZEN: 12 ARMADILLO REPEATS IN CeKAP-1, A KINESIN ASSOCIATED PROTEIN

Washington University, Seattle, WA August 1996, Host, Prof. James Thomas, Invited Seminar Talk, "Mutations affecting kinesin motors in sensory neurons in *C. elegans*"

Washington University, Seattle, WA. West Coast Worm Meeting, July 1996. Invited Talk : MATERNAL EFFECT MUTANT *him-14* RESCUED

Kyushu University, Fukuoka, Japan, August 1996, Host Prof. Y. Ohshima, Invited Talk: Gene Affecting Chemosensory Neuron Function in *C. elegans*"

University of Chicago, Chicago IL, 1996, The Midwest *C. elegans* Meeting: Invited Talk: UNC-104 and OSM-3 nerve specific kinesin motors"

University of Wisconsin at Madison, WI. June 1995. 10th International *C. elegans* Conference Talk, "The *osm-3* kinesin is exclusively expressed in chemosensory neurons that are exposed to environment".

Waseda University, Tokyo, April 1995. Host. Prof. Y. Mikoshiba, Invited Talk: The *osm-3* kinesin in *C. elegans*"

National Institute of Genetics, Mishima, Japan: April 1994, Host Dr. Nishikawa. Invited Seminar, "Structural analysis of OSM-3 kinesin in *C. elegans*"

University of Arizona, Tucson, AZ Dept of Anesthesiology. 1994. First NATO workshop on Emerging Coherent Properties of Brain. Host Prof. Stuart Hameroff. Invited Talk: "Diversity of the Tubulin isotypes in the nervous system of *C. elegans*: A structure and function analysis"

Hamamatsu Photonics, Hamamatsu, Japan, 1994. International Conference on Mind and Brain, Invited Talk: "Specificity of tubulin expression in neuronal circuitry of *C. elegans*".

University of Arizona, Tucson AZ, Dept of Life Sciences, April 1994, Host: Prof. Samuel Ward, Invited Talk: Atomic Force Microscopy of tubulin isotypes of *C. elegans*".

University of Wisconsin at Madison, WI, June 1993, Host: Organizers of the 9th International *C. elegans* Conference. Contributed Talk; "The role of lumbar neuron PVR in the formation of tail touch circuitry in *C. elegans*".

NEC Corporation, Basic Research Labs. Tsukuba, Japan, January 1993, Host: Dr. Johji Miwa. Invited Seminar, "The OSM-3 kinesin motor affecting chemosensory neurons".

Mitsubishi Electric Company, Osaka Japan. April 1992. Host: Dr. Shibata: Invited Talk: "Measurement of neural activity using microchip arrays in *C. elegans*".

University of Wisconsin at Madison, WI, June 1991, 8th International *C. elegans* Conference, Contributed Talk: STRUCTURE AND EXPRESSION OF ALPHA TUBULIN GENES IN *C. ELEGANS*

NEC Corporation, Basic Research Labs. Tsukuba, Japan, February 1991, Host: Dr. Johji Miwa. Invited Seminar, "Genetic screening for axonal guidance defect mutants in *C. elegans*".

University of Kyoto, Japan. September 1990. Host Dr. S. Ono, Invited Talk: Genetics of axonal guidance and neural path-finding in *C. elegans*"

National Institute for Physiological Sciences, Okazaki, Japan. 15th Seriken Conference on the Molecular and Cellular Mechanisms of Neural Development and Reorganization. February 7-10, 1990. Host: Drs. S. Ebashi and K Obata, Invited talk: Mutations affecting axonal growth and guidance of motor neurons and mechanosensory neurons in the nematode *C. elegans*".

NEC Corporation, Basic Research Labs. Tsukuba, Japan, March 1989, Host: Dr. Johji Miwa. Invited Seminar, "The touch circuitry of *C. elegans*: PVR a unique lumbar neuron in mechanosensation".

Cold Spring Harbor Labs, New York, May 1989, 7th International *C. elegans* Conference, Contributed Talk: "Mutations affecting axonal outgrowth and process placement of the mechanosensory neurons in *C. elegans*."

Electronic Technical Laboratory, Tsukuba, Japan. February 1988. Host: Dr. Gen Matsumoto, Invited Talk, "The Neural Circuitry of Touch neurons in *C. elegans*"

University of Paris, Paris, September 1988, Host: Dr. Patricia Simpson, Invited Talk: "Axonal guidance mutants in *C. elegans*"

Tata Institute of Fundamental Research, Bombay, India, September 1988, Host: Dr. Veronica Rodriguez, Invited Talk: Developmental expression of tubulin genes in *C. elegans*".

International Conference on Developmental Neurobiology, Fort Aguda, Goa, India. September 1988, Host: Dr. R. N. Singh: Invited Talk, "Mutations affecting mechanosensory and motor neuron axons in *C. elegans*".

First International Conference on Neural Networks, 1988, Tokyo. Japan. Host: Organizers. Invited Talk: "Molecular correlates of neural network mediating touch sensitivity in *C. elegans*."

Tokyo Metropolitan Institute of Medical Sciences, Tokyo, Japan. October 1987. Host Dr. T. Kaminuma, Invited Talk: "Novel monoclonal antibody markers for sensory neurons in *C. elegans*".

Meiji Research Institute for Life Sciences, Odawara, Japan March 1987. Host: Director, MRILS. Invited Talk." Genetics of axon growth in *C. elegans*"

Nagoya University, Naogya, Japan, April 1987, Host: Prof. Tuneko Okazaki, Invited Seminar,"Genome wide analysis of *C. elegans* axonal guidance mutants".

Cold Spring Harbor Labs, New York , May 1987, 6th International *C. elegans* Conference Contributed Talk:" Differential expression of tubulin isotypes in *C. elegans* nervous system."

Tokyo University, Japan, March 1987. Host: Prof. Yoshiki Hotta. Invited Talk:" Axonal guidance genes in *C. elegans*"

Sofia University, Tokyo, Japan, September 1986, International Conference on Developmental Neurobiology, Host Prof. Yoshiki Hotta, Invited Talk: Tubulin isotypes expression in motor neurons in *C. elegans*.

Toyohashi University of Technology, Toyohashi Japan. January 11, 1986 Host: Dr. Namio Honda, Invited Talk: Neural circuitry in a simple genetic model system, *C. elegans*".

Tokyo Metropolitan Institute of Medical Sciences, Tokyo, Japan. December, 1985. Host Dr. T. Kaminuma, Invited Talk: "Axonal guidance mutations studied with nerve specific antibodies in *C. elegans*".

NEC Corporation, Tokyo, Japan, December 1985. Host Dr. D. Shinoda, Invited Talk: "Neural network in a simple nematode *C. elegans*: Genetic analysis"

Cold Spring Harbor Labs, New York , May 1985, 5th International *C. elegans* Conference Contributed Talk: “Nerve-specific monoclonal antibodies raised against *C. elegans*”

Minnesota University, St. Paul, MN. Dept of Genetics. October 1985. Host Dr. R. K. Herman: Seminar Talk:, “Axonal guidance mutations in *C. elegans*”.

Tata Institute of Fundamental Research, Bombay, India, Molecular Biology Unit, January 1984. Host Dr. O. Siddiqi. Invited Talk: Analysis of axonal growth in *C. elegans* using neural specific antibodies”.

Cold Spring Harbor Labs, New York , May 1983, 4th International *C. elegans* Conference Contributed Presentation: Characterization of a 34 K dalton antigen present on the surface of neurons and their support cells in *C. elegans* using antibodies against horseradish peroxidase (HRP).

Indian Institute of Science, Bangalore, India, December 1983, Host: Dr. V. Nanjudiah. Invited Talk: “Genetics of neural development in *C. elegans*”

Center for Cellular and Molecular Biology, Hyderabad, India, December 1983. Host Dr. M. R. Das. Invited Talk:,” Mutations affecting chemosensory neurons in *C. elegans*”

15th International Congress of Genetics, New Delhi, India. December 1983. Invited Talk: “Genetic analysis of neural growth in *C. elegans*”.

University of Texas, Richardson TX, October 1982. Host: Dept of Biological Sciences. Invited Talk,” Genetic mosaics to study the tissue focus of acetyl-cholinesterase genes in *C. elegans*”.

Cold Spring Harbor Labs, New York, May 1981, 3rd International *C. elegans* Conference Contributed Talk: ,” Acetylcholinesterase mosaics in the nematode *Caenorhabditis elegans*. International *C. elegans*”.

University of Utrecht, Utrecht, Netherlands. EMBO Conference on Neurobiology, October 1980, Invited Talk: “Expression of Acetyl Cholinesterase genes in *C. elegans*”

University of Paris, France, September 1980. UNESCO International Course on DNA sequencing and Genome Analysis. Host: Prof. George Bernardi. Contributed Talk: Tubulin gene family in *C. elegans* genome”.

Cold Spring Harbor Labs, New York , May 1979, 2nd International *C. elegans* Conference Contributed Talk: “Genetic mosaics in *Caenorhabditis elegans* using fluorescent mutants”

Cold Spring Harbor Labs, New York , May 1979, 2nd International *C. elegans* Conference. “Fluorescent mutants as tissue specific markers for the intestinal cells in *C. elegans*”

Georg Augustus University, Goettingen, Germany, Faculty of Philosophy and Mathematics, September 1978, Host Prof. Gustav Roth: Invited Seminar “Modern Indian Languages”

Moscow University, Moscow, USSR, August 1978. International Genetics Congress. Contributed Talk: "Genetic Mosaic Analysis of Intestinal Development in *C. elegans*"

Max-Planck Institute for Experimental Medicine, Goettingen, Germany May 1978. Host Prof. Dr. Gunter von Ehrenstein. Invited Seminar: "Cell lineage analysis of intestinal development using genetic mosaics in *C. elegans*."

Columbia University, New York, Dept of Biological Science May 1977. Host Dr. James A Lewis, "Genetic Mosaics in *C. elegans*"

Harvard University, Cambridge, MA, April 1977, Host Dr. Samuel Ward., Seminar Talk, "Genetic Mosaics using fluorescent mutants in the intestinal tissue of *C. elegans*."

Swopes Conference Center, MBL, Woods Hole MA., April 1977, Host: Organizers Dr. William Wood and Dr. Robert Edgar, First International Conference on *C. elegans*. Invited Talk, "Genetic Mosaics using flu mutants in the studies of intestinal development in *C. elegans*."

MRC Laboratory of Molecular Biology, Cambridge, England December, 1977. Host: Dr. R. N. Singh, Invited Talk: "Genetic mosaics using nematode *C. elegans* fluorescent mutants"

University of Paris, Paris, CNRS. France, October 1976. Host Dr. P. Simpson. Invited Talk: "Genetic mosaic in the intestinal cells of *C. elegans*".

Max-Planck Institute for Physics, Frankfurt, W. Germany, October 1976, Host: Prof. Herman Passow, Invited Talk: "Autofluorescence mutants in *C. elegans*, use in studying genetic mosaics"

Salzburg University, Salzburg, Austria, October 1976. Host: Prof. P. Jarrosh, Invited Talk: "Simple model *C. elegans* for the study of biochemical genetics of kynurenine."

CNRS, Marine Biologie Station, Villefranche-sur-mer, France, Septembre 1976. Host Dr. Christian Sardet. Seminar Talk: "*C. elegans* autofluorescence mutants".

Teaching Experience:

1973-1978: Graduate Course in Molecular Biology, Genetics, Biochemistry, University of Bombay, India

1976-1977: Mahableshwar Summer Conference on Developmental Biology, India

1978-1981: Faculty of Philosophy and Mathematics, Georg Augustus University, Goettingen, Germany

1983-1985: Graduate Seminar, Biochemistry Dept, Northwestern University, Evanston, IL

1986-1999: Graduate and Undergraduate Courses in Molecular Biology, Genetics, and Neurobiology, Toyohashi University of Technology, Toyohashi, Japan

1999-2007: Graduate Advisory Committee, Department of Biological Science, University of Illinois, Chicago.

2007- 2011: Supervisor: PSOMER Summer student program at Biological Science Department, University of Chicago.

2007-2010: Graduate Seminar, Department of Medicine, University of Chicago.

Mentor Ph.D. Students: Shakir, MA 1993; Fukushige, T. 1994 Tabish, M. 1995; Khan MLA 1997; Ali MY 1999; Gogonea C. 2002; Douglas M. Yau; 2000-2006.

Supervisor Post-doctoral Fellows: Lopez, N (2008-2009), Yasuda H., 1987-1993; Siddiqui ZK, 1994-1997, 1999-2002; Matsuo T, 1998-1999

Ph.D. Advisory Committee: Franks DM, Ray S, Joshi M, Roy Choudhry S, Fernandez AP, Vilmas T, Department of Biological Sciences, University of Illinois, Chicago, IL: 1999-2007; D.M. Yau: Pharmacology Department University of Illinois, Chicago, IL, USA.

Contributed Papers at International and National Conferences & Professional Newsletters:

Siddiqui SS, P.A. Singleton², S. Hashmi, J. Solway Functional Genomics of Kruppel-Like Factors in *C. elegans* And Humans. American Thoracic Society Intl. Conf., Denver, Co. ATS 2011

Siddiqui SS, T. Mirzapozazova, N. Mambetsariev, B. Mambetsariev, F.E. Lennon, P.A. Singleton; 18.02 - Endothelium: Barrier Function, ALL, Microcirculation, Response to Inflammation/Sepsis (PC), Abstract 21655; American Thoracic Society Intl. Conf., Denver, Co. ATS 2011

V. Ramamoorthi Elangovan, D.M. Adyshev, **S.S. Siddiqui**, N. Moldobaeva, S.M. Dudek, J.G.N. Garcia; [microRNA RCMB, Abstract 20681], HSA-Mir-374a And HSA-Mir-568 Attenuate LPS- And Cyclic Stretch-Induced PBEF Gene Expression In Human Lung Endothelium. American Thoracic Society Intl. Conf., Denver, Co. ATS 2011

Siddiqui SS, Hashmi, S, and Gozal D., Fat Burning in Sleeping Worms: Regulation of Multiple Signaling Pathways by Kruppel Like Factors. The 18th International *C. elegans* Meeting UCLA 2011

Hashmi S, and **Siddiqui SS**. Partners in Fatty Acid Beta Oxidation: Role of KLF-3 in Fat Burning and Reproductive Behavior of *C. elegans*. The 18th International *C. elegans* Meeting UCLA 2011

Siddiqui SS, Brown. M., Singleton PA, Elangovan VR, Moitra J., Sammani S, Moreno-Vinasco L, and Garcia, JGN.

IFITM3 and nmMLCK are required in Extracellular PBEF-Mediated Activation of NFkappa-B Pathway in Human Lung Microvascular Endothelium.

Thematic Poster Session, K44, American Thoracic Society International Conference, New Orleans May 14-19, 2010.

Zhang J. Bakheet R, Hussain MM, **Siddiqui SS**, and Hashmi S. Regulation of lipid transport and catabolism by transcription factor KLF-3;
FASEB Summer research conference, Biology and Pathology of Krüppel like factors Steamboat Springs, Colorado, August 8-13, 2010

Siddiqui SS and Garcia J. G. 2008. Role of microRNAs in Ventilator Induced Lung Injury. Gordon Research Conference. California, USA

Siddiqui SS. 2008. Invited Talk on Gradients and Signaling, Okinawa Institute of Science and Technology, Okinawa, Japan.

Siddiqui SS and Y. Ali. 2007. The VAB-8 and UNC-116 kinesins in *C. elegans*., The 16th International *C. elegans* Meeting UCLA.

Siddiqui SS, Husain, Y., Siddiqui ZK, Malik AB, and Minshall RM. 2006. Regulation of Caveolar traffic in microvessel endothelial cells by kinesin-2.
American Society of Cell Biology. San Diego, Annual Meeting.

Siddiqui SS, Yau, DA, Predescu, S., Frey R., and Malik, AB., 2005.
Heteromeric Kinesin-2 mediates trans-endothelial transport in pulmonary microvessel endothelial cells. NAVBO, Society for Vascular Molecular Biology Annual Meeting, From Molecules to Man. Chicago,

Siddiqui SS et al.: 2005. KLP-4 a Kinesin-3 family member is required for embryogenesis and neural development in *C. elegans* The 15th International Worm Meeting, UCLA: 652C.

Siddiqui SS et al.: 2004. Expression of kinesin motor proteins during embryogenesis and neural function in *C. elegans* West Coast Worm Meeting: 53.

Douglas M Yau. **Siddiqui SS** et al.: 2003. Identification and Characterization of G12-RhoGEF Pathway in *Caenorhabditis elegans* The 14th International *C. elegans* Meeting, UCLA: 867.

Siddiqui SS et al.: 2003., Regulation of endocytosis in intestinal epithelium by components of TGF-beta Signaling. The 14th International *C. elegans* Meeting UCLA: 279.

Siddiqui SS: 2003. Expression of the angiomin like gene in *C. elegans*. The 14th International *C. elegans* Meeting, UCLA: 774.

Ayesha N Shajahan and **Shahid S Siddiqui**: 2001. Regulation of endocytosis of albumin in the intestinal epithelial cells of *C. elegans* by TGF beta-like signaling
The 13th International *C. elegans* Meeting, University of Wisconsin: 872.

M Yusuf Ali. **Siddiqui SS** et al.: 2001. Microtubule based conventional kinesin activity is coupled to the actin-myosin system via an atypical kinesin.

The 13th International *C. elegans* Meeting, University of Wisconsin: 440.

Siddiqui S S and Zeba K Siddiqui: 2001. A novel role of the TGF-beta signaling cascade in endocytosis in *C. elegans*.

The 13th International *C. elegans* Meeting, University of Wisconsin: 940.

Ali MY. **Siddiqui SS** et al.: 2000. The *C. elegans klp-14* encodes a novel BimC kinesin like protein that mediates chromosomal segregation during embryogenesis Worm Breeder's Gazette 16: 35.

Siddiqui SS: 2000. Kinesin motors moving chromosomal cargo. The East Coast Worm Meeting, Boston.

Siddiqui SS and Ali MY: 2000. A large number of *C. elegans* kinesins may be involved in chromosomal movement in *Caenorhabditis elegans* Worm Breeder's Gazette 16: 42.

AM Mohamed, **Siddiqui SS** et al.: 1999. Conservation of the *C. elegans* Dpy-20 transcription regulator in *Drosophila*. The 12th International *C. elegans* Meeting, University of Wisconsin: 594.

Ali MY. **Siddiqui SS** et al.: 1999. The Extended (Woroom) Superfamily of Kinesin Motors in *Caenorhabditis elegans* Worm Breeder's Gazette 15: 36.

MY Ali **Siddiqui SS** et al.: 1999. Structure/ function of C-terminus motor KLPs in *C. elegans*. The 12th International *C. elegans* Meeting, University of Wisconsin: 145.

MY Ali. **Siddiqui SS** et al.: 1999. Multiple kinesins play critical role in chromosomal movement during embryonic cell divisions in *C.elegans*.

The 12th International *C. elegans* Meeting, University of Wisconsin: 146.

MY Ali. **Siddiqui SS** et al.: 1999. In vivo function of kinesins in *C elegans* neuromuscular system.

The 12th International *C. elegans* Meeting: 147.

SS Siddiqui et al.: 1999. *C.elegans* Kinesin Superfamily: Subfamilies and Surprises.

The 12th International *C. elegans* Meeting, University of Wisconsin: 778.

ST Khan. **Siddiqui SS** et al.: 1999. OSM-3 Subfamily of the Kinesin Motors in *C.elegans*.

The 12th International *C. elegans* Meeting, University of Wisconsin: 470.

Ali MY. **Siddiqui SS** et al.: 1998. DPY-20 a LIN-39 like transcription factor, defines a novel class of motor neuron specific regulatory protein in *Caenorhabditis elegans* Midwest Worm Meeting.

Ali MY et al **Siddiqui SS**.: 1998. The *dpy-20* gene expresses in the hypodermal cells and ventral cord MOTOR NEURONS. Worm Breeder's Gazette 15: 51.

Ali MY. **Siddiqui SS** et al.: 1998. A second look at the *dpy-20* encoded protein, a novel transcription factor. Worm Breeder's Gazette 15: 52.

Ali MY, **Siddiqui SS** et al.: 1998. Expression of the *unc-116* encoded kinesin heavy chain in the, muscle, nervous system, and germ line of *C. elegans* Worm Breeder's Gazette 15: 32.

Ali MY. **Siddiqui SS** et al.: 1998. IDENTIFICATION OF A 341 NUCLEOTIDE PROMOTER SEQUENCE NECESSARY FOR UNC-116 KINESIN EXPRESSION IN THE MUSCLES AND NERVOUS SYSTEM West Coast Worm Meeting.

Ali MY. **Siddiqui SS** et al.: 1998. THE UNC-116 KHC GENE TRANSCRIPTION IS ON DURING THE ENTIRE EMBRYONIC DEVELOPMENT, EXCEPT THE ONE CELL STAGE West Coast Worm Meeting.

Hori F. **Siddiqui SS**. et al.: 1998. *dpy-20* gene affects the expression of *unc-119* gene in the motor neurons, but not in the sensory neurons in *C. elegans* .Worm Breeder's Gazette 15: 50.

Shibata Y. **Siddiqui SS** et al.: 1998. Genetic interaction between *dpy-20* and genes affecting development of motor neurons and hypodermal cells in the nematode *C.elegans* Worm Breeder's Gazette 15: 54.

Siddiqui SS et al.: 1998. Temporal and spatial expression of the members of the kinesin superfamily during embryonic development of *C. elegans* West Coast Worm Meeting.

Ali Khan L. **Siddiqui SS** et al.: 1997. C-DNA CLONING, SENSE AND ANTISENSE EXPRESSION OF THE C. ELEGANS KLP-3, AN ORTHOLOG OF THE NCD AND KAR3 KINESINS. The 11th International *C. elegans* Meeting.

Ali Khan L. **Siddiqui SS** et al.: 1997. MATERNAL GENE EMB-8 IS NECESSARY FOR ASYMMETRIC DISTRIBUTION OF DEVELOPMENTAL POTENTIALS IN EARLY C. ELEGANS EMBRYOS. The 11th International *C. elegans* Meeting, University of Wisconsin.

Ali Khan L. **Siddiqui SS** et al.: 1997. THE KINESIN SUPERFAMILY OF C. ELEGANS International *C. elegans* Meeting, University of Wisconsin.

Ali MY et al. **Siddiqui SS**: 1997. Cellular expression of the *unc-116* gene encoding kinesin heavy chain. Worm Breeder's Gazette 14: 70.

Ali MY. **Siddiqui SS** et al.: 1997. EXPRESSION STUDIES OF THE OSM-3 KINESIN USING ANTI-OSM-3 ANTIBODIES DURING DEVELOPMENT The 11th International *C. elegans* Meeting, University of Wisconsin.

Ali MY. **Siddiqui SS** et al.: 1997. GENETIC INTERACTIONS AMONG KINESIN GENE FAMILY MUTANTS & THE EXPRESSION OF UNC-116 KINESIN HEAVY CHAIN. The 11th International *C. elegans* Meeting, University of Wisconsin.

Ali MY. **Siddiqui SS** et al.: 1997. THE ROLE OF DPY-20 MUTATION ON KINESIN GENE FAMILY MUTANTS.

The 11th International *C. elegans* Meeting, University of Wisconsin.

Gogonea CB, **Siddiqui SS** et al.: 1997. EXPRESSION OF THE REPORTER GENE MEC-12::LACZ IN LOCOMOTORY AND CHEMOSENSORY MUTANTS OF *C. ELEGANS*.

The 11th International *C. elegans* Meeting, University of Wisconsin.

Siddiqui SS et al.: 1997. ARMADILLO BY A DOZEN: 12 ARMADILLO REPEATS IN CeKAP-1, A KINESIN ASSOCIATED PROTEIN.

The 11th International *C. elegans* Meeting, University of Wisconsin.

Siddiqui ZK., **Siddiqui SS** et al.: 1997. SUPPRESSION OF THE TEMPERATURE SENSITIVE MUTANTS EMB-8 AND HIM-14 BY DPY-10. The 11th

International *C. elegans* Meeting, University of Wisconsin.

Wong HT, **Siddiqui SS** et al.: 1997. ANALYSIS OF A NCAM-LIKE GENE IN CAENORHABDITIS ELEGANS.

The 11th International *C. elegans* Meeting.

Ali Khan L and **Siddiqui SS**: 1996. The *emb-8* mislocalizes GLP-1 and P-granules Worm Breeder's Gazette 14: 79.

Ali Khan L, **Siddiqui SS** et al.: 1996. Expression of *klp-3*, a Kinesin with a C-terminal motor, is in the pharynx and sphincter cells. Worm Breeder's Gazette 14: 24.

Ali MY, **Siddiqui SS** et al.: 1996. GENETIC INTERACTION AMONG MEMBERS OF THE KINESIN FAMILY AND THE EFFECT OF DPY-20 MUTATION

West Coast Worm Meeting.

Shakir MA, **Siddiqui SS** et al.: 1996. INTERACTION OF *osm-3* IN DAUER FORMATION PATHWAY IN *C. ELEGANS*

West Coast Worm Meeting.

Siddiqui ZK., **Siddiqui SS** et al.: 1996. MATERNAL EFFECT MUTANT *him-14* RESCUED

West Coast Worm Meeting.

Ali Khan L, **Siddiqui SS** et al.: 1995. A NEW MEMBER OF *C. ELEGANS* MECHANOCHEMICAL ENZYMES FAMILY ENCODES A KINESIN LIKE PROTEIN WITH C-TERMINAS MOTOR.

The 10th International *C. elegans* Meeting, University of Wisconsin.

Ali Khan L and **Siddiqui SS**: 1995. PARENTAL EFFECT MUTANT *emb-8* RESCUED, IS IT REALLY THE SAME AS *cej-1* ?

The 10th International *C. elegans* Meeting, University of Wisconsin.

Fukushige T and **Siddiqui SS**: 1995. The *dpy-20* Gene Suppresses Expression of *tba-1* (α -1) Tubulin Gene In a Set of Ventral Cord Excitatory Motor Neurons in *C. elegans*.

Worm Breeder's Gazette 13: 87.

Fukushige T and **Siddiqui SS**: 1995. DIFFERENTIAL EXPRESSION OF ALPHA TUBULINS IN C.ELEGANS NERVOUS SYSTEM.

The 10th International *C. elegans* Meeting.

Higashi KI et al **Siddiqui SS**.: 1995. PVR A SINGLE SENSORY LUMBAR NEURON PROVIDES A 'SCAFFOLD' IN FORMATION OF THE TOUCH CIRCUITRY IN C. ELEGANS.

The 10th International *C. elegans* Meeting, University of Wisconsin.

Tabish M, **Siddiqui SS** et al.: 1995. Expression of *osm-3* Kinesin Gene Is Exclusively Limited To a Set of 26 Chemosensory Neurons in *C. elegans* That Are Open To The External Environment. Worm Breeder's Gazette 13: 86.

Tabish M., **Siddiqui SS** et al.: 1995. EXPRESSION OF OSM-3::LACZ FUSION GENE IS LIMITED TO CHEMOSENSORY NEURONS OPEN TO THE OUTSIDE ENVIRONMENT.

The 10th International *C. elegans* Meeting, University of Wisconsin.

Tabish M., **Siddiqui SS** et al.: 1995. *emb-30* OPERON ENCODES A NOVEL GAMMA TUBULIN WHOSE ANTI- SENSE RNA EXPRESSION MIMICS THE SINGLE CELL ARREST PHE- NOTYPE OF EMB-30 (G53) MUTANT. The 10th International *C. elegans* Meeting, University of Wisconsin.

Ali Khan L **Siddiqui SS** et al.: 1994. *cej-1* Encodes a Novel Protein With Poly-Threonine Motif Worm Breeder's Gazette 13: 49.

Fukushige T and **Siddiqui SS**: 1994. *mec-12* Encodes the Acetylated alpha Tubulin TBA-3 That Mediates Touch Sensitivity and the Formation of 15 Protofilament (pf) Microtubules in the Six T Worm Breeder's Gazette 13: 48.

Itoh M. **Siddiqui SS** et al.: 1994. Cloning of the *cej-1* Gene Encoding a Novel Cell-Junction Protein in *Caenorhabditis elegans* M.L.A. Khan, M. Tabish, T. Fukushige, S. Tsukita, S. Tsukita, Worm Breeder's Gazette 13: 88.

Tabish M. **Siddiqui SS** et al.: 1994. On Rescuing the Maternal Effect *emb-30* Mutant. Worm Breeder's Gazette 13: 57.

Higashi KI. **Siddiqui SS** et al.: 1993. The role of lumbar neuron PVR in the formation of tail touch circuitry in *C. elegans*.

9th International *C. elegans* Meeting, University of Wisconsin.

Shakir MA and **Siddiqui SS**: 1993. The *osm-3* encodes a kinesin like protein in the nematode *C. elegans*.

9th International *C. elegans* Meeting, University of Wisconsin.

Siddiqui SS: 1993. Interaction of *osm-3* and *unc-104*, two genetic loci that encode different kinesin like proteins in *C.elegans*.

9th International *C. elegans* Meeting, University of Wisconsin.

Tabish M et al **Siddiqui SS**: 1993. Expression of gamma tubulin during embryonic and post development of *C. elegans*.

9th International *C. elegans* Meeting, University of Wisconsin.

Shakir MA and **Siddiqui SS**: 1992. Molecular Cloning of the *osm-3* Gene Worm Breeder's Gazette 12: 57.

Tabish M. **Siddiqui SS** et al.: 1992. Gamma Tubulin of *C. elegans* Worm Breeder's Gazette 12: 56.

Fukushige T. **Siddiqui SS** et al.: 1991. Tubulin alpha2 expression pattern in *C. elegans*. Worm Breeder's Gazette 12: 30.

Fukushige T. **Siddiqui SS** et al.: 1991. Structure and expression of alpha tubulin genes in *C. elegans*. The 8th International *C. elegans* Meeting, University of Wisconsin.

Shakir MA and **Siddiqui SS**: 1991. Cosmid DNA rescue of the *osm-3* mutant phenotype Worm Breeder's Gazette 12: 21.

Shakir MA and **Siddiqui SS**: 1991. Molecular and genetic studies on osmotic avoidance mutant *osm-3*. The 8th International *C. elegans* Meeting, University of Wisconsin

Siddiqui SS: 1991. Multiple requirements of genes affecting axonal guidance and growth of motor and sensory neurons. The 8th International *C. elegans* Meeting, University of Wisconsin

Siddiqui SS et al.: 1991. The role of lumbar neuron PVR in touch circuitry of *C. elegans*. The 8th International *C. elegans* Meeting, University of Wisconsin

Yasuda H and **Siddiqui SS**: 1991. An equalized gene copy cDNA library of *C. elegans*. The 8th International *C. elegans* Meeting, University of Wisconsin

Fukushige T and **Siddiqui SS**: 1990. Cloning and sequencing of the tubulin alpha-2 gene Worm Breeder's Gazette 11: 63.

Fukushige T. **Siddiqui SS** et al.: 1990. Alpha tubulins of *C. elegans*. Worm Breeder's Gazette 11: 52.

Harada Shin-Ichi and **Siddiqui SS**: 1990. To catch the *flu* again Worm Breeder's Gazette 11: 57.

Shakir MA and **Siddiqui SS**: 1990. Transposon tagging of genes affecting axon growth and process placement of sensory lumbar neurons in *C. elegans*. Worm Breeder's Gazette 11: 59.

Shakir MA and **Siddiqui SS**: 1990. A Chemosensory Mutant of *C. elegans*. Worm Breeder's Gazette 11: 69.

Shakir MA and **Siddiqui SS**: 1990. Molecular cloning of *osm-3* gene by transposon tagging Worm Breeder's Gazette 11: 16.

Siddiqui SS: 1990. PVR shares a neural antigen with other mechanosensory neurons Worm Breeder's Gazette 11: 95.

Siddiqui SS: 1990. Mutants Affecting DD and VD Motor Neurons Worm Breeder's Gazette 11: 70.

Siddiqui SS: 1990. Genes affecting axonal guidance of different classes of neurons. Worm Breeder's Gazette 11: 108.

Siddiqui SS et al.: 1990. Scanning Tunneling Microscopy (STM) of *C. elegans* Microtubules Worm Breeder's Gazette 11: 115.

Yasuda H and **Siddiqui SS**: 1990. A Uniformly distributed Gene-copy cDNA Library Worm Breeder's Gazette 11: 17.

Yasuda H and **Siddiqui SS**: 1990. Trans-splicing in Tubulin? Worm Breeder's Gazette 11: 73.

Siddiqui SS: 1989. Mutations affecting axonal outgrowth and process placement of the mechanosensory neurons in *C. elegans*.

The 7th International *C. elegans* Meeting, Cold Spring Harbor Laboratories, NY.

Yasuda H and **Siddiqui SS**: 1989. The 7th Molecular cloning of tubulin isotypes by direct screening of *C. elegans* expression libraries with nerve-specific monoclonal antibodies.

The 7th International *C. elegans*, Meeting, Cold Spring Harbor Laboratories, NY.

Yasuda H and Siddiqui SS: 1988. A tubulin tale from Toyohashi: two genes one polypeptide. Worm Breeder's Gazette 10: 133.

Siddiqui SS and Culotti JG: 1987. Antibodies against mouse neural cell adhesion molecule, N-CAM, stain male-specific neurons in *C. elegans*.

The 6th International *C. elegans* Meeting, Cold Spring Harbor Laboratories, NY.

Siddiqui SS et al.: 1987. Differential expression of tubulin isotypes in *C. elegans* nervous system.

The 6th International *C. elegans* Meeting, Cold Spring Harbor Laboratories, NY.

Yasuda H and **Siddiqui SS**: 1987. Screening *C. elegans* expression libraries with nerve specific anti-tubulin antibodies. Worm Breeder's Gazette 10: 59.

Siddiqui SS et al.: 1985. Antibodies to vertebrate neural cell adhesion molecule N-CAM, stain male specific cephalic neurons in *C. elegans*. Worm Breeder's Gazette 9: 84.

Siddiqui SS and Culotti JG: 1985. Axonal growth mutants of *C. elegans* studied immunocytochemically. 5th International *C. elegans* Meeting, Cold Spring Harbor Laboratories, NY.

- Siddiqui SS** et al.: 1985. Nerve-specific monoclonal antibodies raised against *C elegans*.
The 5th International *C. elegans* Meeting, Cold Spring Harbor Laboratories, NY.
- Siddiqui SS** and Culotti JG: 1985. *C elegans* shares neural antigenic determinants with other invertebrates and vertebrates.
The 5th International *C. elegans* Meeting, Cold Spring Harbor Laboratories, NY.
- Siddiqui SS** and Culotti JG: 1984. Axon growth mutants in *C elegans* studied with antibodies to horseradish peroxidase. *Worm Breeder's Gazette* 8: 25.
- Culotti JG. & **Siddiqui SS** et al.: 1983. Monoclonal antibodies to nerve-enriched tissue from *Ascaris* bind to *C elegans*.
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