

**Suganthini Krishnan, M.D.**

**OFFICE ADDRESS:**

John D. Dingell VA Medical Center  
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Detroit, MI 48201  
Tel: (313) 576-4814  
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**BOARD CERTIFICATIONS:**

Board Certified in Internal Medicine      2001    - 90<sup>th</sup> percentile

Board Certified in Infectious Diseases    2005    - 90<sup>th</sup> percentile

**EDUCATION AND TRAINING:**

1986-1992	BS Degree, Bachelor of Medicine and Surgery, Medical School, Madras Medical College, Madras University, Madras, India
1998- 2001	Residency in Internal Medicine, St. Joseph Mercy Hospital, Pontiac, MI
2001- 2005	Fellowship in Infectious Diseases, Wayne State University, Detroit, MI

**FACULTY APPOINTMENTS:**

8/01/05 to Present	Assistant Professor of Medicine, Division of Infectious Diseases, Department of Medicine, Wayne State University and John D. Dingell V.A. Medical Center, Detroit, MI.
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**HOSPITAL POSITIONS:**

2/1996-5/1998	Research Assistant, Louis Elliman Research Center, Wayne State University, Detroit, MI
8/1993-8/1995	Assistant Physician, Kovai Medical Center and Hospital, Coimbatore, India
9/1992-7/1993	Internist, Chennai Kaliappa Hospital, Madras, India.

**PROFESSIONAL SOCIETIES:**

Infectious Disease Society of America

American Society of Microbiologists

American Medical Association

American College of Physicians

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**LICENSURE & BOARD CERTIFICATION:**

State of Michigan, ID #430107170

2005	Board Certified in Infectious Diseases
2001	Board Certified in Internal Medicine.
1993	Board Certified in Diplomate of National Board of Examinations, New Delhi, India
1992	Board Certified in M.B.B.S., First Class Madras Medical College, Madras University, Madras, India

**HONORS AND AWARDS:**

1998-2000	Dr. PES Award for The Best Resident St. Joseph Mercy Hospital, Pontiac, MI
1994	Mother Theresa Award for rendering health care in Madras shelters.
1992	Graduated in the top 1 percent in the Madras University Board Certification Examination for M.B.B.S.
1990	Distinctions in Pathology, Microbiology and Biochemistry
1987	Graduated in the top 1 percent in Chemistry, Mathematics, Physics and Biology

**TEACHING:**

2002-2003	Conducted monthly case based discussion sessions for residents and fourth year medical students
2002-2005	Presented didactic conferences and tutorial lectures on various topics in infectious diseases for medical students, residents and faculty at Harper University Hospital, Wayne State University

**GRANT SUPPORT**

**MSTF Grant, Wayne State University**  
**Molecular mechanisms of voriconazole resistance in *Aspergillus flavus*. (Principal Investigator). Awarded for  
the period of June 2005- December 2006.**

**SUBMITTED GRANTS**

3-15-06 & 9-01-06	CRCM (Children's Research Center of Michigan), Molecular Mechanisms of Triazole Resistance in <i>Aspergillus flavus</i> (Principal Investigator) not funded.
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12-15-2006 CDA (Career Development Award) at John D. Dingell VA Medical Center, Molecular Mechanisms of Triazole Resistance in *Aspergillus flavus*. (Principal Investigator) Submitted, pending.

**PUBLICATIONS:**

**ORIGINAL OBSERVATIONS IN REFEREED JOURNALS:**

1. Suganthini Krishnan, Elias K. Manavathu and Pranatharthi Chandrasekar, Wayne State University, Detroit Medical Center, Detroit, Michigan. A comparative study of the fungicidal activity of Voriconazole and Amphotericin B against *Aspergillus fumigatus* hyphae. *Journal of Antimicrobial Agents and Chemotherapy* 2005;55: 914-920.

**REVIEW ARTICLES:**

1. Suganthini Krishnan, P.H. Chandrasekar, Recurrent Strongyloides stercoralis Hyperinfection Syndrome; Case report and Review of Literature. *Infectious Diseases in Clinical Practice*. 14(4):240-243, July 2006.
2. Suganthini Krishnan, P.H. Chandrasekar, Wayne State University, Detroit Medical Center, Detroit, Michigan. *Aspergillus flavus*: An emerging non-fumigatus *Aspergillus species* of significance and review of literature. (in press) *Mycoses*, Accepted 9/27/2006.
3. Suganthini Krishnan, P.H. Chandrasekar, Wayne State University, Detroit Medical Center, Detroit, Michigan. Current and future therapeutic options in the management of invasive aspergillosis. Accepted for publication, *Drugs*, December 2006.

**BOOK CHAPTERS**

1. Suganthini Krishnan, Pranatharthi Chandrasekar, Wayne State University, Detroit Medical Center, Detroit, Michigan. Acute Osteomyelitis Chapters on: Bone infections –Author: Krishnan S. In a Page Infectious Disease. Ed. McCue JD & Kahan S. Lippincott Williams & Wilkins. Pp:104-113, 2006.
2. Suganthini Krishnan, Pranatharthi Chandrasekar, Wayne State University, Detroit Medical Center, Detroit, Michigan. Chronic Osteomyelitis, Chapters on: Bone infections –Author: Krishnan S. In a Page Infectious Disease. Ed. McCue JD & Kahan S. Lippincott Williams & Wilkins. Pp:104-113, 2006. *Handbook of Infectious Disease*, 2006.

**PUBLISHED ABSTRACTS**

1. Suganthini Krishnan, P.H. Chandrasekar, G.J. Alangaden, E.K. Manavathu, Wayne State University, John D. Dingell VA Medical Center, Detroit, MI. Molecular characterization of Cyp51 A and B genes from voriconazole-resistant and susceptible isolates of *Aspergillus flavus*. Sep 2006, Abstract # M-1757 (Interscience conference on antimicrobial agents and chemotherapy, San Francisco, 2006).
2. Suganthini Krishnan, P.H. Chandrasekar, G.J. Alangaden, E.K. Manavathu, Wayne State University, John D. Dingell VA Medical Center, Detroit, MI. *In vitro* activities of statins (anti-cholesterol agents) alone and in combination with antifungal drugs against *Aspergillus species*. Abstract # M-304, Interscience conference on antimicrobial agents and chemotherapy, San Francisco, 2006.
3. G. J. Alangaden, J. Cutright, E. Manavathu, Suganthini Krishnan, P. Chandrasekar, R. Cha . Efficacy of Cefepime (CF) against an Extended Spectrum Beta-Lactamase (ESBL)-Producing Strain of *Escherichia coli* (Ec) in a Murine Neutropenic Thigh Infection Model . *ICAAC* 2005, Abst #B-40-2005.

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4. Elias K. Manavathu, Suganthini Krishnan, I. Baskaran, George J. Alangaden and P. H. Chandrasekar. A point mutation in the cytochrome P450 14 $\alpha$ -sterol demethylase gene *cyp51B* contributes to voriconazole resistance in a laboratory-selected isolate of *Aspergillus fumigatus*. Interscience Conference on Antimicrobial Agents and Chemotherapy, 2004.
5. P. H. Chandrasekar, J. L. Cutright, Suganthini Krishnan and Elias K. Manavathu. A comparative study of the in vivo efficacy of amphotericin B lipid complex alone and in combination with caspofungin against *Aspergillus fumigatus* in a murine pulmonary aspergillosis model. Interscience Conference on Antimicrobial Agents and Chemotherapy, 2004.
6. Suganthini Krishnan, George J. Alangaden, Jessica L. Cutright, Elias K. Manavathu, Pranatharthi Chandrasekar. Current Epidemiology of Blood Stream Infections Among Cancer Patients, 2000-2002. The Infectious Disease Society of America, San Diego, California, 2003.
7. Suganthini Krishnan, George J. Alangaden, Jessica L. Cutright, Elias K. Manavathu, Pranatharthi Chandrasekar. Current Epidemiology of Blood Stream Infections among Cancer Patients, 2000-2002. International Conference on Infections in the Immunocompromised Patients, Spain, 2003.
8. Suganthini Krishnan, Elias K. Manavathu and Pranatharthi Chandrasekar. A Comparative Study of the fungicidal activity of voriconazole and amphotericin B against *Aspergillus fumigatus* hyphae. Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, Illinois, 2003.
9. Elias K. Manavathu, Suganthini Krishnan, Jessica L. Cutright and Pranatharthi Chandrasekar. A comparative study of the in vitro susceptibility of *Aspergillus fumigatus* to antifungal agents individually and in combinations by the fractional inhibitory concentration index, tetrazolium reduction and radiometric assays. 40th Interscience Conference on Antimicrobial Agents and Chemotherapy, Toronto, Ontario, Canada. September 2000.
10. Jorge A. Guzman, Felix J. Lacoma, Ali K. Najjar, Suganthini Krishnan, James A. Kruse. Normalization of systemic DO<sub>2</sub> after resuscitation from shock is associated with inadequate splanchnic DO<sub>2</sub> and persistent gastric intramucosal hypercarbia. American Journal of Respiratory and Critical Care Medicine. 1996;153:694-700.

**PRESENTATIONS:**

1. Endovascular infections in intravenous drug addicts vs patients on hemodialysis, didactic lecture presented to Internal Medicine residents and faculty, at St. Joseph Mercy Hospital, Pontiac, Michigan, 1999.
2. Difficulties encountered in the management of infections in the geriatric population, didactic lecture presented to Internal Medicine residents and faculty at St. Joseph Hospital, Pontiac, Michigan, 2000.
3. Disseminated Cytomegalovirus infection presenting as Addison's Disease secondary to CMV adrenalitis in AIDS, case report and review of literature, presented to internal medicine residents, students and faculty at St. Joseph Mercy Hospital, Pontiac, Michigan, 2000.
4. Allergic forms of Aspergillosis and Aspergillomas: How serious are these infections? Didactic lecture presentation, 2001.
5. *Clostridium difficile* colitis, didactic lecture presented to residents, fellows and infectious disease faculty, Wayne State University, Detroit, Michigan, 2002.
6. Severe Acute Respiratory Syndrome, didactic lecture presented to residents, fellows and faculty, Infectious Diseases, Wayne State University, Detroit, Michigan, 2003.
7. Current Epidemiology of Blood Stream Infections in Cancer patients, Didactic lecture presented to residents, fellows and faculty, Infectious Diseases, Wayne State University, Detroit, Michigan, 2004.

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8. HIV and Syphilis Co-infection, presented to health care workers, nurses, students, residents and physicians, Didactic lecture presented at the Detroit Public Health Department, Herman Keiffer, 2004.

9. Dermatological Manifestations of Infectious Diseases following international Travel, Didactic lecture presented to staff at the Detroit Public Health Department, Herman Keiffer, 2004.

**CLINICAL TRIALS:**

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| 2004-2005    | A Phase 3, Multicenter, Randomized, Double-blind Comparative Study of the Efficacy and Safety of Tigecycline vs. Levofloxacin to Treat Subjects Hospitalized with Community Acquired Pneumonia. Wyeth Research Inc. Approved by IRB Feb 4, 2004, \$56,448. Study Started May 2004. Sub- Investigator       |
| 2004-present | A Phase 3, Multicenter, Double-blind, Randomized (3:1) Study Evaluating Tigecycline and Linezolid for the Treatment of Serious Infections in Subjects with Vancomycin-Resistant Staphylococcus Aureus, Wyeth Research Inc. Approved by IRB Feb 5 2004, \$121,086. Study started May 2004. Sub-investigator |

**NEW STUDIES:**

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| 2006 | <b>A Phase II, Prospective, Randomized, Double-Blind, Active Controlled, Parallel Group, Multicenter, “Proof of Concept” Trial in Adult Patients with Community-Acquired Pneumonia, Roche Inc, \$25,000. February-June 2006. Sub-Investigator.</b> |
| 2006 | <b>A Phase II Prospective Open Label, Randomized, Active Controlled, Parallel Group, Multicenter, “Proof of Concept Trial in Adult Patients with Complicated Skin and Skin Structure Infections, \$100,000. April 2006-2007. Sub-Investigator.</b> |

**LABORATORY MEETING:**

**2005-2007 (Alternate Fridays every month)**

**Presentations include:**

- 1. Comparison of the *in vivo* efficacy (clearance of candidemia) of caspofungin vs micafungin vs fluconazole in a murine model of invasive candidiasis/candidemia.**
- 2. Time Kill curves using AMB, Voriconazole and Posaconazole against Mucormycoses .**
- 3. Cloning and Characterisation of cyp51 A and B genes of *Aspergillus flavus***
- 4. Multidrug efflux pumps in *Aspergillus fumigatus*/*A.flavus***
- 5. Studies of *in vivo* efficacy of voriconazole against *A.flavus* in a murine model of invasive pulmonary aspergillosis using grapefruit juice.**
- 6. FIC index/Clinical data demonstrating synergistic interaction of antifungal agents against *Aspergillus ustus*.**
- 7. Construction of a recombinant plasmid for resistance studies in *A.flavus***
- 8. DNA microarray experiments to study the molecular mechanisms of inhibition of conidiation in voriconazole treated *Aspergillus fumigatus***