

Madhuri Subbiah

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National Institute of Animal Biotechnology,
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EDUCATION

Degree	Institute
PhD in Molecular Virology	University of Maryland, College Park, Maryland, USA
Bachelor of Veterinary Science (BVSc)	Madras Veterinary College, Tamil Nadu Veterinary and Animal Sciences University, Chennai, Tamil Nadu, India
Higher Secondary School Board	T.V.S. Lakshmi Matriculation School, Madurai, Tamil Nadu, India

WORK EXPERIENCE

- **2012 - current** Scientist C at NIAB, Hyderabad, India
- **2010 - 2012** Deputy Manager, Platform technologies, Anthem Biosciences Pvt. Ltd., Bangalore, India
- **2005-2010** Graduate Research Assistant, Department of Veterinary Medicine, University of Maryland, College Park, Maryland, USA.
- **2009** Web page development, "Diseases and Treatment" for Consumer's Checkbook, <http://www.checkbook.org/>
- **2004-2005** Clinical Training, Madurai Veterinary Polyclinic for three months at Madurai, Farm trainings, Livestock Research Station at Kattupakkam, Chennai; Poultry Research Station, Chennai; Sheep and Goat Research station at Salem and Sheep Breeding Research Station, Ooty, India.

TEACHING EXPERIENCE

- **2010 - 2012** Experience in guiding M.Sc, M.Tech and B.E. students during their final semester-Industrial training period at Anthem Biosciences Pvt. Ltd., Bangalore, India.
- **2009** Experience in mentoring a summer intern with viral genome sequencing techniques, University of Maryland, USA.
- **2008** College level teaching training from 'University Teaching and Learning Program' at the Center of Teaching Excellence, University of Maryland, USA.
- **2008** Teaching Assistant for the graduate level course "Immunology of Infectious diseases" under the guidance of Dr Xiaoping Zhu, Department of Veterinary Medicine, University of Maryland, USA.

PUBLICATIONS

- Rajakrishna L, Unni SK, **Subbiah M**, Sadagopan S, Nair A, Chandrappa R, Sambasivam G, Sukumaran S. Validation of a human cell based high-throughput genotoxicity assay 'Anthem's Genotoxicity screen' using ECVAM recommended lists of genotoxic and non-genotoxic chemicals. **Toxicol In Vitro**. 2013 Jul 9. pii: S0887-2333(13)00179-3. doi: 10.1016/j.tiv.2013.06.027. [Epub ahead of print].

- Xiao S, Khattar SK, **Subbiah M**, Collins PL and Samal SK. Mutation of the F protein cleavage site of avian paramyxovirus-7 results in furin cleavage, fusion promotion and increased replication in vitro, but not increased replication, tissue tropism, or virulence in chickens. *Journal of Virology*. Jan; 86(7): 3828-3838, **2012**.
- Kim SH, **Subbiah M**, Samuel AS, Collins PL and Samal SK. Roles of the fusion and hemagglutinin-neuraminidase proteins in replication, tropism, and pathogenicity of avian paramyxoviruses. *Journal of Virology*. Sep;85(17):8582-8596, **2011**.
- **Subbiah M**, Khattar SK, Collins PL and Samal SK. Mutations in the fusion protein cleavage site of avian paramyxovirus serotype 2 increase cleavability and syncytium formation but do not increase viral virulence in chickens. *Journal of Virology*. Jun;85(11):5394-5405, **2011**.
- Samuel AS, **Subbiah M**, Shive H, Collins PL and Samal SK. Experimental infection of hamsters with avian paramyxovirus serotypes 1 to 9. *Veterinary Research*. Feb 23;42(1):38, **2011**.
- **Subbiah M**, Xiao S, Khattar SK, Dias FM, Collins PL, and Samal SK. Pathogenesis of Two Strains of Avian Paramyxovirus Serotype 2, Yucaipa and Bangor, in Chickens and Turkeys. *Avian Diseases* Sep;54(3):1050-1057, **2010**.
- **Subbiah M**, Nayak S, Collins PL, Samal SK. Complete genome sequences of avian paramyxovirus serotype 2 (APMV-2) strains Bangor, England and Kenya: evidence for the existence of subgroups within serotype 2. *Virus Research* Sep;152(1-2):85-95, **2010**.
- Xiao S, **Subbiah M**, Kumar S, De Nardi R, Terregino C, Collins PL, Samal SK. Complete genome sequences of avian paramyxovirus serotype 6 prototype strain Hong Kong and a recent novel strain from Italy: evidence for the existence of subgroups within the serotype. *Virus Research* Jun;150(1-2):61-72, **2010**.
- Xiao S, Paldurai A, Nayak B, **Subbiah M**, Collins PL, Samal SK. Complete genome sequence of avian paramyxovirus type 7 (strain Tennessee) and comparison with other paramyxoviruses. *Virus Research* Oct;145(1):80-91, **2009**.
- Paldurai A, **Subbiah M**, Kumar S, Collins PL, Samal SK. Complete genome sequences of avian paramyxovirus type 8 strains goose/Delaware/1053/76 and pintail/Wakuya/20/78. *Virus Research* Jun;142(1-2):144-53, **2009**.
- Samuel AS, Kumar S, **Subbiah M**, Collins PL, Samal SK. Complete sequence of the genome of avian paramyxovirus type 9 and comparison with other paramyxoviruses. *Virus Research* Jun;142(1-2):10-8, **2009**.
- **Subbiah M**, Xiao S, Collins PL, Samal SK. Complete sequence of the genome of avian paramyxovirus type 2 (strain Yucaipa) and comparison with other paramyxoviruses. *Virus Research* Oct;137(1):40-8, **2008**.
- **Subbiah M**, Yan Y, Rockemann D, Samal SK. Experimental infection of calves with Newcastle disease virus induces systemic and mucosal antibody responses. *Archives of Virology* 153(6):1197-200, **2008**.
- Rajini,R.A., Sridhar R., Leela V., **Subbiah M.**, Mahendran M and Jayaprasad LA. Performance of Undergraduate female and male students under trimester and semester system of education in Madras Veterinary College. *Compendium of Symposium on "Veterinary Education and Services in India-Global Challenges"*. Vol I Pg 46, **2004**.

- **Subbiah M.**, Ashish Ranjan, Anupam Sahay and Akila N. Women in the Veterinary Field–Opinion of Women in Society. *Compendium of Symposium on “Woman Veterinarians in Science and Society”* (19-21 Feb 2004) Vol I Pg 78, **2004**.
- **Subbiah M.**, Ashish Ranjan, Anupam Sahay and Sudeep Kumar. Prospects in Veterinary Education–Opinion of Women Veterinarians. *Compendium of Symposium on “Woman Veterinarians in Science and Society”* (19-21 Feb 2004) Vol I Pg 78, **2004**.

GENBANK SUBMISSIONS:

Accession Numbers - EU338414, HM159995, HM159994, HM159993, FJ215864, FJ215864, FJ215863, EU910942, FJ231524, GQ406233, GQ406234, GQ406232

PRESENTATIONS AT CONFERENCES

- **Poster presentation at Drug Discovery in Academia, The new paradigm for drug discovery** held at Baltimore convention center, conducted by **Johns Hopkins Medicine-Brain Science Institute**, Baltimore, Maryland, **USA**, October 18, **2011**: *Anthem’s Genotox platform-a novel in vitro mammalian cell based genotoxicity screen.*
- **Poster presentation at the American Society of Virology (ASV) meeting at the University of British Columbia**, Vancouver, **Canada**, July 12-15, **2009**: *Pathogenesis of Avian Paramyxovirus serotype 2 strains Yucaipa and Bangor in chickens and turkeys.* **Madhuri Subbiah**, Xiao Sa, Sunil Khattar, Flavia Dias, Peter L. Collins and Siba K. Samal.
- **Oral presentation at the ASV meeting at the Cornell University, Ithaca, New York, USA**, July 15-19, **2008**: *Molecular Characterization of Avian Paramyxovirus serotype 2.* **Subbiah M** and Samal SK.
- **Poster presentation at the ASV meeting at the University of Madison, Wisconsin, USA**, July 15-19, **2006**: *Characterization of Avian Paramyxovirus serotype 2, Strain Yucaipa.* **Madhuri Subbiah** and Siba K. Samal.
- **Poster presentation at the Bio Sciences Day celebration, 2006**, at the **University of Maryland**, College Park, Maryland, USA. *Complete Genome sequence of Avian Paramyxovirus serotype 2.* **Madhuri Subbiah**, Sa Xiao, Peter L. Collins and Siba K. Samal.
- **Case presentation and discussion, ‘Canine Hepatozoonosis’-** at the **‘World Veterinarians Day’** celebration in **2004, Madras Veterinary College**, Chennai, India.
- **Oral Presentation, ‘Women in Veterinary Profession- Opinion of Women in Society.’** An awareness study of the involvement of women in veterinary field, from the voices of women in the society, was presented at the **National seminar on ‘Woman Veterinarians in Science and Society’**, part of **Centenary celebrations in Madras Veterinary College** on 21st Feb **2004**.

INVITED PRESENTATIONS

- Special Guest Lecture on **“Reverse Genetics applications”** at the department of Biotechnology during the inauguration of *Departmental Club* at **MVJ College of Engineering**, Bangalore on Feb 24, **2012**.
- Special Guest Lecture on **“Career Development- Choices and the way forward”** at the department of Biotechnology during the Inauguration of *Departmental Club* at **MVJ College of Engineering**, Bangalore on Feb 24, **2012**.

- Special Lecture and discussion with high school students on “**Vaccines and their importance**” at **Mahatma Vidyalaya High School**, Muthanallur, Anekal Taluk, Bangalore on Dec 18, **2010**.

AWARDS AND HONORS

National

- I was part of the team at Anthem Biosciences that was selected as top 30 innovators under **DST-Lockheed Martin India Innovation Growth Programme 2012** by FICCI and the University of Texas IC2 Institute. <http://www.indiainnovates.in/To50SelectedList.pdf>
- **Dr. G. Ramalingam Memorial Gold Medal** for the Best Student in “Livestock Production and Management” course in BVSc from Tamil Nadu Veterinary and Animal Sciences University, **2005**.
- National Level Summer Research Fellowship, **Jawaharlal Nehru Center for Advanced Scientific Research (JNCASR)**, Jakkur, Bangalore, **2002**.
- **Pattukkottai Azhagiri Merit Scholarship 1999-2004**, Government of Tamil Nadu, for highest marks holder among those selected for Veterinary profession.
- **Tamil Nadu Veterinary and Animal Sciences University Merit Scholarship 1999-2000**, for highest GPA in the first year of the BVSc program.

International

- **Graduate Research Assistantship, 2005 to 2010** at the Department of Veterinary Medicine, University of Maryland, USA.
- **American Society of Virology (ASV) Student Travel Grant 2009** for poster presentation, University of British Columbia, Vancouver, Canada.
- **Goldhaber Travel Grant 2009**, University of Maryland, USA.
- **ASV Student Travel Grant 2008** for oral presentation, Cornell University, Ithaca, USA.
- **“East-Lilly conference on College and University Teaching” Student Travel Grant 2008**, University of Delaware, Delaware, USA.
- **ASV Student Travel Grant 2006** for poster presentation, University of Wisconsin, Madison, USA.
- **The Basil and Anne Hatzios Fellow of 2006**, awarded to an outstanding international Veterinary graduate at the University of Maryland, USA.