

Resume

Sridhar Mandali

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EDUCATION

Ph. D., Department of Genetics, Microbiology and Toxicology, Stockholm University, Sweden, 2010

MS., Molecular biology, University of Skovde, Sweden. 2005

RESEARCH EXPERIENCE

Post-doctoral researcher, University of California, Los Angeles, Department of Biological Chemistry, 2011 - present

Adviser: Reid C. Johnson, Ph. D.

- Study mechanistic aspects of large serine recombinase of Phage A118 and IS607 like transposons using biochemical and genetic assays.

Graduate student researcher, Department of Genetics, Microbiology and Toxicology, Stockholm University, Sweden, 2010

Adviser: Elisabeth Haggard-Ljungquist, Ph. D.

- Completed the dissertation thesis “Characterization of Site-specific recombination of P2-like phage Φ D145, shown that Φ D145 integrase can accept human chromosomal sequence as target and integrase is active in eukaryotic cells”.
- Trained and mentored junior laboratory members.

GENERAL LABORATORY MANAGEMENT

- Overseeing general operation of laboratory
- Coordinating laboratory duties with members in laboratory
- Handling service calls and overseen maintenance of equipment
- Writing experimental protocols and SOPs and coordinating safety inspections
- Implementing health and safety programs: Hazard Communication Program, Chemical Hygiene Plan, Hazard Assessment System, and Radiation Safety.
- Providing Monthly Safety Meetings.
- Training and mentoring junior laboratory members
- Troubleshooting and discussion of experimental assays with lab members

TEACHING EXPERIENCE

Teaching assistant,

Genetics – VT 2007, HT 2007, HT 2008

Advanced course in Molecular Genetics

VT 2008, VT 2009, HT 2009, VT 2010

Methods in Molecular Biology-VT2010

A. Research Papers

A1. Ahlgren-Berg A, Cardoso-Palacios C, Eriksson JM, **Mandali S**, Sehlén W, Sylwan L, Haggård-Ljungquist E. A comparative analysis of the bifunctional Cox proteins of two heteroimmune P2-like phages with different host integration sites. *Virology*. 2009; 385(2):303-12

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A2. **Mandali S**, Cardoso-Palacios C, Sylwan L, Haggård-Ljungquist E. Characterization of the site-specific recombination system of phage Φ D145, and its capacity to promote recombination in human cells. *Virology*. 2010, 408(1):64-70.

A3. **Mandali S**, Dhar G, Avliyakov NK, Haykinson MJ, Johnson RC. The site-specific integration reaction of Listeria phage A118 integrase, a serine recombinase. *Mob DNA*. 2013, 3;4(1):2.

A4. **Mandali S**. Gupta K, Dawson AR, Van Duyne GD and Johnson RC. Control of recombination directionality by the phage A118 protein Gp44 and the coiled-coil motif of its serine integrase (under review in *J Bacteriology*).

B. Books

B1. **Mandali S**. Site-specific recombination of P2-like phages; possible tools for safe gene therapy: A focus on phage Φ D145. 2010 (ISBN: 978-91-7447-174-8).

C. Other

C1. **Mandali S**. Interactive studies of attachment sites with proteins involved in site-specific recombination of P2-like phages. 2009 (URN: <urn:nbn:se:su:diva-32513>)

C2. **Mandali S**, Cardoso-Palacios C, Sylwan L, Haggård-Ljungquist E. P2 like phage, Φ D145 promotes recombination in human cells. Virus-Microbe conference, Paris, France, 2010.

C3. **Mandali S** and Johnson RC. Integrative and excisive recombination of Listeria phage A118 integrase, a serine recombinase. Work shop on site-specific recombination, Woodshole, MA, USA, 2012

C4. **Mandali S**, Haggård-Ljungquist E. Phosphorylation affects the biological activity of the integrase of P2-like phage Φ D145 (URN: <urn:nbn:se:su:diva-45939>).

C5. Cardoso-Palacios C, Sylwan L, **Mandali S**, Frumarie C and Haggård-Ljungquist E. A structure-function analysis of P2 Integrase (URN: <urn:nbn:se:su:diva-38927>).

HONORS AND AWARDS

- PhD Scholarship from Sven and Lilly Lawskis Foundation 2006-2008
- Travel Scholarship from Sven and Lilly Lawskis Foundation 2008 and 2010