



Swathi ADINDLA

Home Country
India

Degree
PhD in Bioinformatics

Expertise
Bioengineering

Research Focus
Design of Efficient Enzymes
with Novel Functions

Host University
California Institute of
Technology, USA &
Yale University, United States

Fellowship Awarded
2007

Swathi Adindla was born and raised in the small village of Nalgonda, India. She has two sisters and comes from a conservative family in which her father encouraged her to take up higher studies. She is married and has two daughters.

Swathi obtained her B.Sc degree with distinction in 1997 from Osmania University and then joined the University of Hyderabad, where she obtained her master's degree in 1999, her Master of Philosophy degree in chemistry in 2001, and her PhD in bioinformatics in 2006. During her doctoral studies she was awarded junior and senior research fellowships by the Council for Scientific and Industrial Research (CSIR), a prominent scientific agency of the government of India. She also qualified for the National Eligibility Test (NET), a prerequisite for a faculty position in Indian universities.

Soon after her doctoral studies she had a brief stint as an exchange researcher in chemo-informatics at the Centre for Medical Studies and Research in Normandy (CERMN), France. In 2008 she moved to the California Institute of Technology in the United States where her research focuses on designer enzymes with novel functions. It involves the design of stable and efficient enzymes with new catalytic activities to carry out novel but desired chemical transformations of practical interest, that will have potential applications in biotechnology, biomedicine and in eco-friendly industrial processes.

While at Caltech, Swathi became involved in a research collaboration project at Yale University, where she is engineering lac repressor proteins to respond to orthogonal ligands and also designing new variants of lac repressor proteins that could be used as biosensors. Swathi is working toward her research goals at Yale using both computational and experimental approaches.

When she finishes her postdoctoral studies Swathi plans to teach in her home country.