

## Curriculum Vitae

**NAME:** Garlapati Vijay Kumar

**PERSONAL DETAILS:**

Date of birth/Nationality 20-04-1977/Indian

**CONTACT ADDRESS:**

S/o. G.Bapaiah, Jalalapuram (post), Pedakurapadu (Mandal), Guntur (District) Andhra Pradesh (State) India-522436.

Mobile no: +91-9736783468; Home phone: +91-8641-238608

Email: [shanepati@gmail.com](mailto:shanepati@gmail.com); shanepati@yahoo.co.in

**ACADEMICS**

<b>Year</b>	<b>Degree</b>	<b>Board/University</b>
1992	10 <sup>th</sup>	BSE, AP
1995	10+2	Board of Intermediate, AP
2000	B. Pharmacy	Osmania University, AP
2003	M. Tech (Biotechnology)	Andhra University, AP
2010	Ph.D	IIT Kharagpur, WB

**PATENTS FILED**

- ❖ Prof. Rintu Banerjee, **Vijay Kumar Garlapati**, Annapurna Kumari, Paramita Mahapatra and Ravi Kant, “ A method for the enzymatic transesterification of oils” (IPA No. 1078/KOL/2009 dated 2009-08-18)
- ❖ Prof. Rintu Banerjee, **Vijay Kumar Garlapati**, Annapurna Kumari, Paramita Mahapatra, Ravi Kant and Prof. P.Das “Enzymatic transesterification of simarouba Oil” (IPA No. 1431/KOL/2008 dated 2008-08-22)
- ❖ Prof. Rintu Banerjee, Annapurna Kumari, Paramita Mahapatra and **Vijay Kumar Garlapati**, “Enzymatic transesterification of Jatropha Oil” (IPA No. 1728/KOL/2007/ dated 2007-12-26).

**RESEARCH PUBLICATIONS**

- ❖ **Vijay Kumar Garlapati**, Pandu Ranga Vundavilli and Rintu Banerjee (2010) Evaluation of lipase production by Genetic algorithm and Particle swarm optimization and their comparative study. Applied Biochemistry and Biotechnology. (DOI: 10.1007/s12010-009-8895-2)
- ❖ **Vijay Kumar Garlapati** and Rintu Banerjee (2010) Evolutionary and swarm intelligence based approaches for optimization of lipase extraction from fermented broth. Engineering in Life Sciences 10(3):1-9.

- ❖ **Vijay Kumar Garlapati** and Rintu Banerjee (2010) Optimization of lipase production using Differential evolution. *Biotechnology and Bioprocess Engineering* 15(2):254-260.
- ❖ Sukanta Shekhar Bhattacharya, **Vijay Kumar Garlapati** and Rintu Banerjee (2010) Evaluation and optimization of laccase production using response surface methodology coupled with differential evolution. *New Biotechnology*. (DOI: 10.1016/j.nbt.2010.06.001)
- ❖ Paramita Mahapatra, Annapurna Kumari, **Vijay Kumar Garlapati**, Rintu Banerjee and Ahindra Nag (2009) Enzymatic synthesis of fruit flavor esters by immobilized lipase from *Rhizopus oligosporus* optimized with response surface methodology. *Journal of Molecular Catalysis B: Enzymatic* 60:57–63.
- ❖ Paramita Mahapatra, Annapurna Kumari, **Vijay Kumar Garlapati**, Rintu Banerjee, Ahindra Nag (2009) Kinetics of solvent-free geranyl acetate synthesis by *Rhizopus oligosporus* NRRL 5905 lipase immobilized on to cross-linked silica. *Biocatalysis and Biotransformation* 27(2): 124-130.
- ❖ Annapurna Kumari, Paramita Mahapatra, **Vijay Kumar Garlapati** and Rintu Banerjee (2009) Enzymatic transesterification of Jatropha oil. *Biotechnology for Biofuels* 2:1
- ❖ Annapurna Kumari, Paramita Mahapatra, **Vijay Kumar Garlapati**, Rintu Banerjee and Swagata Dasgupta (2009) Lipase mediated isoamyl acetate synthesis in solvent-free system using vinyl acetate as acyl donor. *Food Technology and Biotechnology* 47 (1): 13–18.
- ❖ Paramita Mahapatra, Annapurna Kumari, **Vijay Kumar Garlapati**, Rintu Banerjee, A.Nag (2009) Optimization of process variables for lipase biosynthesis from *Rhizopus oligosporus* NRRL 5905 using evolutionary operation factorial design technique. *Indian journal of microbiology* (Accepted)
- ❖ Annapurna Kumari, Paramita Mahapatra, **Vijay Kumar Garlapati** and Rintu Banerjee (2008) Comparative study of thermostability and ester synthesis ability of free and immobilized lipases on cross linked silica gel. *Bioprocess and Biosystems Engineering* 31:291–298.

#### **Papers presented in Symposium / Conference**

- ❖ Ravi Kant, **Vijay Kumar Garlapati** and Rintu Banerjee., “*Lipase-catalyzed Production of biodiesel from vegetable and waste oils*”, presented at ISFL 2008, 6<sup>th</sup> International symposium on Fuels and Lubricants from March, 9-12, 2008, New Delhi, India.
- ❖ Annapurna Kumari, Paramita Mahapatra, **Vijay Kumar Garlapati** and Rintu Banerjee., “*Enhanced thermostability of Rhizopus oryzae3562 lipase via immobilization on cross linked activated silica gel*”, Biopharmacon 2K7, National Seminar on Biotechnology, Pharmacy and Chemical Engineering, at Visakhapatnam, India, held from September, 28-29, 2007.