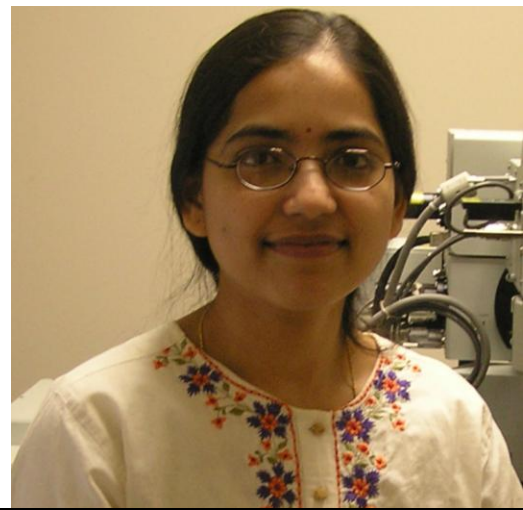


**Vijaya Lakshmi Bodiga, PhD**  
**Assistant Professor**  
In-Charge Head of the Department,  
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University College of Science,  
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## EDUCATION

### Undergraduate:

1995 B.Sc. (Biology & Chemistry), Kakatiya University, Warangal, India.

### Graduate:

1997 M.Sc. (Microbiology), University of College of Science, Osmania University, Hyderabad, India.

2004 Ph.D. (Biochemistry), National Institute of Nutrition & Osmania University, Hyderabad, India.  
Thesis: Long-term dietary manipulation of rat intestinal epithelial cell apoptosis  
Mentors: Dr. M. Raghunath, PhD and Dr. B. Sesikeran, MD.

### Postgraduate/Fellowship:

1999- 2003 ICMR Junior and Senior Research Fellowship, Department of Pathology, National Institute of Nutrition, Hyderabad, India.  
Mentor: Dr. M. Raghunath, PhD and Dr. B. Sesikeran, MD.

Jan -Dec 2004 ICMR Research Associate, National Institute of Nutrition, Hyderabad, India. Mentor: Dr. Nasreen Z. Ehtesham, PhD.  
(PPAR $\gamma$ -mediated regulation of glucose metabolism and coronary heart disease: understanding the mechanism of action)

2005-06 Postdoctoral Fellow, State University of New York at Buffalo.  
Mentor: Dr. M.S. Patel and Dr. Hui Meng  
(Role of autonomic nervous system and hypothalamic signaling pathways in the maintenance of hyperinsulinemia and related imbalances in energy homeostasis in rats with diet-induced obesity)

2007-09 Postdoctoral Fellow, Blood Center of SE Wisconsin and Medical College of Wisconsin, Milwaukee, WI. Mentor: Dr. Bonnie N. Dittel, PhD.  
(Molecular signaling involved in axonal microtubule disruption during early stages of multiple sclerosis using in vitro and in vivo models;  
Characterization of Microtubule Axonal Destabilizer (MAD) protein secreted by immune cells and its role in multiple sclerosis;  
Mechanisms of cardioprotection by zinc pyrithione during ischemia/reperfusion injury)

## PRESENT APPOINTMENT

Sep 2009- Assistant Professor, Department of Biotechnology  
In-charge Head of the Department of Biotechnology

## PROFESSIONAL APPOINTMENTS

- ◆ Krishna University Central Purchase Committee member (Sept, 2009 - )
- ◆ Krishna University Academic Calendar committee member
- ◆ Board of Studies member for P. B. Sidhartha College for Women, Vijayawada
- ◆ Board of Studies member for Andhra Loyola College, Vijayawada
- ◆ Member of Inspection Committee for Gowtham Degree College, Vijayawada.
- ◆ Member of Governing body for Govt. Degree College, Buddharam, Vijayawada.

## PROFESSIONAL SOCIETY MEMBERSHIPS

Nutrition Society of India  
Society for Free Radical Biology and Medicine  
Society for Biological Chemists (India)  
International Association for Cancer Research.

## HONORS AND AWARDS

UGC-Kothari Postdoctoral Fellowship (2009)

## SERVICE ACTIVITIES

**Organizing secretary** for a National Seminar on Lake Kolleru – The Wet Land Ecosystem: Conflict between Development and Environment (LKCDE -2011)

## Journal manuscript reviewer

International:

- ◆ Experimental Biology and Medicine
- ◆ World Journal of Gastroenterology
- ◆ African Journal of Biochemistry
- ◆ Journal of Experimental Zoology Part B: Molecular and Developmental Evolution
- ◆ Nutrition

## PUBLICATIONS

### Refereed Articles

1. Viswanath Kasi, Sreedhar Bodiga, Upendra Nadh Kommuguri, Suneetha Sankuru, **Vijaya Lakshmi Bodiga\***. Zinc pyrithione salvages reperfusion injury by inhibiting NADPH oxidase activation in cardiomyocytes. *Biochem Biophys Res Commun.* (2011) 410(2):270-5 **Impact Factor: 2.548**
2. Viswanath K, Bodiga S, Balogun V, Zhang A, **Bodiga VL\***. Cardioprotective effect of zinc requires ErbB2 and Akt during hypoxia/reoxygenation. *Biometals* (2011) 24:171-8. **Impact Factor: 3.172**
3. Uday Kumar P, **Vijaya Lakshmi B**, Kalyanasundaram S, Raghunath M and Sesikeran B. Effect of varying doses of cisplatin on rat intestinal cell apoptosis. *J Lab Anim. Sci.*(2011) 1: 43-48.
4. Mulchand S Patel, Suhad Shbeir-EIDika, Malathi Srinivasan, **Vijaya Bodiga**, Shanthie Thamotharan, and Sherin Devaskar. Early life nutritional intervention results in hypothalamic

neuronal malprogramming predisposing to adult-onset obesity *FASEB J* October 28, 2006 20:A522. **Impact Factor: 6.791**

5. **Vijaya Lakshmi B**, Sesikeran B, Udaykumar P, Kalyanasundaram S and Raghunath M. Chronic low vitamin intake potentiates cisplatin induced intestinal epithelial cell apoptosis in WNIN rats. *World J Gastroenterol.* (2006) 21: 1078-85. **Impact Factor: 2.092**

6. **Vijaya Lakshmi B**, Sesikeran B, Udaykumar P, Kalyanasundaram S and Raghunath M. Chronic low intake of protein or vitamins increases the intestinal epithelial cell apoptosis in Wistar/NIN rats. *Nutrition* (2005) 21:949-60. **Impact Factor: 2.604**

7. **Vijaya Lakshmi B**, Sesikeran B, Udaykumar P, Kalyanasundaram S and Raghunath M. Effects of vitamin restriction and supplementation on rat intestinal epithelial cell apoptosis. *Free Radic. Biol. Med* (2005) 38:1614-24. **Impact Factor: 6.081**

8. Reddy GB, Reddy PY, **Vijaya Lakshmi A**, Kumar MS, Suryanarayana P and Sesikeran B. Effect of long-term dietary manipulation on the aggregation of rat lens crystallins: Role of  $\alpha$ - crystalline chaperone function. *Mol. Vis.* (2002) 8:298-305. **Impact Factor: 2.54**

(\*: Corresponding author)

### Chapters in Books

**Vijaya Lakshmi Bodiga** and Sreedhar Bodiga: **New Insights into the Role of Zinc in Cardioprotection during Ischemia/Reperfusion Injury**; in *Zinc: Characteristics, Uses and Benefits*, NOVA Science Publishers, 2011.

### Non-refereed articles

B.Sesikeran, **A. Vijayalaxmi**, P.UdayKumar, S. Kalyanasundaram and M.Raghunath. Diet and Apoptosis. *Nutrition News* (2002) 23(2). **National Institute of Nutrition; RNI No.44849/82**

### Invited Lectures

1. **Advances in animal cloning** on the occasion of dolly day (5<sup>th</sup> July, 2011), at Noble College, Machilipatnam.
2. Resource person for technical session at Seminar on **Youth Towards New Trends in Biotechnology**, Maris Stella College, Vijayawada, Andhra Pradesh (26<sup>th</sup> August, 2011)
3. Talk on **Integrating Biotechnology into curriculum** at workshop on **Recent trends in Life sciences** for teachers held at Loyola College, Vijayawada (27<sup>th</sup> August, 2011).
4. **Biotech projects for postgraduate students** – Andhra Loyola College, Vijayawada (9<sup>th</sup> September, 2011).