

BIOGRAPHICAL SKETCH			
NAME James Opiyo Ochanda, PhD		POSITION TITLE Coordinator, Centre for Biotechnology & Bioinformatics (CEBIB) and Associate Professor, Department of Biochemistry, University of Nairobi College of Biological and Physical Sciences Chiromo Campus	
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of Nairobi Hokkaido University	B.Sc. PhD	1977-1980 1982-1986	Biochemistry and Zoology Biochemistry

## A. Positions and Honors

### **Professional Appointments**

- 2006-present Coordinator, Centre for Biotechnology & Bioinformatics (CEBIB) University of Nairobi  
 2004-2005 Coordinator, Biosciences Eastern and Central Africa  
 1999-present Associate Professor, Department of Biochemistry, University of Nairobi.  
 1991-1999 Senior Lecturer, Department of Biochemistry, University of Nairobi.  
 1966-1990 Lecturer, Department of Biochemistry, University of Nairobi.  
 1991-1992 Acting Chairman of Biochemistry Department  
 1994-1995 Acting Associate Dean of Pre-Clinical Studies: University of Nairobi

### **Selected Honors and Awards**

- 1982-1986 Japanese Government Scholarship for Doctoral Studies at Hokkaido University  
 1989 British Council Scholarship in Molecular Biology, Middlesex School of Medicine  
 1992 UNDP/UNEP Fellowship, R&D Management & Agricultural Course, Brisbane, Australia

## B. Educational and Institutional Experience

### **Selected Teaching**

- 2006-present Lectures for MSc students in Biotechnology & Bioinformatics, Centre for Biotechnology & Bioinformatics (CEBIB), University of Nairobi  
 1997 National Training Course on Molecular Biology Techniques for Researchers/Scientists from Private and Public Institutions in Kenya, Dept Biochemistry and Botany, University of Nairobi  
 1996 National Training Course on Molecular Biology Techniques for Technologist from Private and Public Institutions in Kenya, Depts of Biochemistry and Botany, University of Nairobi  
 1986-present Lectures for the following postgraduate student degree courses in Biochemistry: MSc in Biochemistry; M.Med. in psychiatry; MSc in Animal Production, and Msc in Crop Science  
 1986-present Lectures for the following undergraduate student degree courses in Biochemistry: Medicine, Pharmacy, Dentistry, BSc Nursing, Veterinary Medicine, Bachelor of Science, BSc Agriculture and BSc in Biomedical Laboratory Technology

### **Selected Mentoring**

- 2005-present External Examiner, Department of Biochemistry and Biotechnology - Kenyatta University.  
 2006 Introduction to Biotechnology and Biosafety training course, ACTS secretariat, Gigiri, Nairobi.  
 1999-present External Examiner, Dept of Biochemistry and Molecular Biology, Faculty of Science Egerton, University, Njoro, Kenya.  
 2000-2004 External Examiner, Dept. Biochemistry, Faculty of Medicine, Muhimbili University College of Health Sciences, University Of Dare salaam, Tanzania.  
 2001-2004 External Examiner, Dept of Veterinary Physiology, Biochemistry, Pharmacology & Toxicology, Faculty of Veterinary Medicine, Sokoine University of Agriculture. Morogoro, Tanzania.  
 1992 ICRO/UNESCO International Training course on Biochemistry of PARASITIC PROTOZO
- Dr. Ochanda has mentored 12 pre-doctoral and Masters students

### **Selected Advisory Panels**

- 2006-present Coordinator, centre for Biotechnology & Bioinformatics (CEBIB), University of Nairobi  
2005-present Chairman, University of Nairobi, Institutional Biosafety Committee on Biotechnology  
2005-present Chairman, Technical Committee on Biotechnology – Kenya Bureau of Standards.  
2004-2005 Coordinator, NEPAD supported Biosciences Eastern & Central Africa, ILRI, Nairobi  
2003-2004 Director, African Biotechnology Stakeholders Forum  
2002-2004 Coordinator of UNEP-GEF National Biosafety framework for Kenya, appointed by National Council for Science and Technology  
2001-2002 Member of ICSU Committee on Biotechnology.  
1999-present Chairman, KARI's Institutional Biosafety Committee on Biotechnology (KACB).  
1999-2002 Founder and Chairman, African Biotechnology Stakeholders Forum  
1998-present Member of National Biosafety Committee on Biotechnology (NBC) appointed by National Council for Science and Technology

### **Selected International Activities**

- 2005 The State of Science and Technology Training Institutions in Africa and their role in Socio-economic Development: 1st African Regional Conference of Vice-Chancellors, Provosts and Deans of Science, Engineering and Technology; Accra, Ghana.  
2003 Towards sustainable agriculture for developing countries: Options from life science and biotechnologies- United Kingdom (25th - 26th January); Italy, Rome (27th - 28th January); Brussels, Belgium (29th - 31st January)  
2003 3rd Annual Conference: USAID-African Partnership Biotechnology: Strategies for Biotechnology in Africa: IITA, IBADAN, Nigeria  
2002 Biotechnology derived nutritious food for developing countries – needs opportunities and barriers, Cancun, Mexico  
2002 World Summit for Sustainable Development (WSSD) in Johannesburg, South Africa  
2001 Member of the national and international task force appointed by the USAID to assess the biotechnology status of Kenya.  
2000 Consultant for the World Bank Institute Program in Biotechnology Information dissemination

### **C. Selected Relevant (from > 48 publications)**

- Rowe, A., Richman, J.M., Ochanda, J.O. and Brickell, P.M. (1991): Retinoic acid treatment alters the pattern of retinoic acid receptor beta expression in the embryonic chick limb : *Dev. Pattern of Vert. Limb* (pp 97-100).  
Ben-Yakir, D.; Mumcuoglu, K.Y.; Manor, Ochanda, J.O.; Okuro, and Galun, R. (1994). Immunization of rabbits with a midgut extract of the human body louse (*Pediculus humanus humanus*): The effect of the induced resistance on the louse population: *Medical and Veterinary Entomology*. 8, 114-118.  
Ogoyi, D.O., Ochanda, J.O. and Osir, E.O. (1993): Lipophorin from the larva stalk Borer, *Busseola fusca*. Purification and characterization: *Insect Sci. Applic.* 14 (2) 176-173.  
Ochanda, J.O. Mumcuoglu, K.Y., Ben-Yakir, D.; Okuru, J.K. Oduol, V.O and Galun, R. (1996). Characterization and properties of louse midgut antigenic protein recognized by resistance host: *Medical and Veterinary Entomology* 10, 35-38.  
Mumcuoglu, K.Y., Rahamin, E., Ben-Yakir, D., Ochanda, J.O. and Galun, R. (1996). Localization of immunogenic antigens on the midgut of the human body louse, *Pediculus humanus humanus* : (*Anaplura pedicuplurae*). *J. of Med. Entomol.* 33 (1) 74-77  
Ochanda, J.O., Oduor, E.A.C., Imbuga, M.O., Galun, R. and Mumcuoglu, K.Y., (1998). Partial characterization and post-feeding activity of midgut aminopeptidase in the human body louse, *Pediculus humanus humanus*. *Physiol. Entomol.* 23, 382-387.  
Howarth E. Bouis, Bruce M. Chassy and James O. Ochanda (2003). Genetically modified food crops and their contribution to human nutrition and food quality. *Trends in Food Science and Technology* 14: 191 – 209.  
Jonathan Gressel, Abdelhaz Hanafi; Graham Head, Wally Marasas, Babatunde Obiliana, James Ochanda, Thouraya Souissi and George Tzotzos (2004). Major heretofore intractable biotic constraints of African food security that may be amenable to novel biotechnological solutions. *Crop Protection* 23:661-689.  
Wangóndu V.W.; Kahindi, J.H.P.; Olembo, N.K. and Ochanda, J.O. (2007): Screening of local *Bacillus thuringiensis* isolates for toxicity to *Chilo partellus*, *Sesamia calamistis* and *Busseola fusca* in Kenya. *J.Trop..Microbiol.* (Submitted).