

CURRICULUM VITAE

PERSONAL DETAILS

Name: John B.L. Chek
Date of Birth: 1st April 1954
Nationality: Kenyan
Marital Status: Married, two children
Present appointment: Senior Lecturer, Department of Biochemistry

Address: University of Nairobi
P O Box 30197
Nairobi, Kenya
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EDUCATION PROFILE

University Education: Kharkov State University, 1977-1986
³⁵/₁₇ Obtained MSc degree in Biological Sciences (Biochemistry)
³⁵/₁₇ Pass all subjects (taught units) with good and distinction
³⁵/₁₇ Obtained PhD degree in Biochemistry

Secondary School: Kisumu Boys High School, Kisumu, 1970-1973
³⁵/₁₇ Passed EACE (O-Levels) in Division II in 1973
³⁵/₁₇ Passed EAACE (A-Levels) with two principles and one subsidiary in 1975

Primary School: Kodiaga Primary School, Kisumu, 1962-1969
³⁵/₁₇ Passed CPE

WORK EXPERIENCE

- ³⁵/₁₇ Appointed Lecturer, Department of Biochemistry, University of Nairobi in April 1987.
- ³⁵/₁₇ Appointed Senior Lecturer, Department of Biochemistry, University of Nairobi in November 1996
- ³⁵/₁₇ Remained staff member of University of Nairobi up to 2003/
- ³⁵/₁₇ On sabbatical leave, Senior Lecturer and Head of Biochemistry Department, Bugando University College of Health Sciences (BUCHS), Mwanza in 2003-2004.
- ³⁵/₁₇ Unpaid Leave of Absence, Senior Lecturer and Head of Biochemistry Department, BUCHS, Mwanza from July 2004 to July 2005.
- ³⁵/₁₇ Senior Lecturer, Department of Biochemistry, University of Nairobi from July 2005 to date.
- On Sabbatical leave, Associate Professor and Head, Department of Biochemistry, Uzima University Collage, P.O Box 2502, Kisumu, Kenya. From February, 2013 to October, 2013.

RESEARCH ACTIVITIES

Involved in Research in the following areas:

- ³⁵₁₇ Nutrition influence of Coix on hemostatic mechanisms.
- ³⁵₁₇ Biochemical studies on resistance to Malaria infection.
- ³⁵₁₇ State of fibrinogen and FDP levels in-patients with P. Falciparum malaria.
- ³⁵₁₇ Monitoring anticoagulant therapy by measuring hemostatic parameters.

Research at University of Nairobi

- ³⁵₁₇ 1988: Was Principal Investigator for Dean's Committee funded project involving: "The state of Fibrinogen and FDP in patients with P. falciparum malaria."
- ³⁵₁₇ 1992: Was Principal Investigator in TWAS funded project involving "Coix influence on homeostatic parameters."
- ³⁵₁₇ 1996: Principal Investigator in Dean's Committee funded project on "Monitoring anticoagulant therapy by measuring homeostatic parameters."

GRANTS

- ³⁵₁₇ 1991: British Council Visiting Scientist Grant to University College London (UCL) for six months.
- ³⁵₁₇ 1994: DAAD Visiting Scientist Grant to Freiburg for three months.
- 2006 National Council of Science and Technology.

HONOR AND AWARDS

- ³⁵₁₇ Included in the respected and authoritative "Marquis Who's Who in Science and Engineering."
- ³⁵₁₇ SUBI – 2001 Current Awareness in Biomedicine: BLOOD COAGULATION FACTORS. <http://www.shelf-ac-press.co.uk/subis> ref No. 1001702867

UNIVERSITY TEACHING AND SUPERVISION

Undergraduates

- ◆ Involved in giving lectures and practical to the following:
 - a) BSc Science
 - b) BSc Food Science and Technology
 - c) Bachelor of Vet Medicine
 - d) Bachelor of Medicine Pharmacy and Dental Surgery

Postgraduates

- ◆ Involved in teaching MSc Biochemistry
 - a) MSc Biochemistry
 - b) MSc Plant Breeding
 - c) MSc Animal Productions
- ◆ **Involved in supervising the following Postgraduate students:**
 1. Werimo K. E. O. MSc Biochemistry "Comparative study of some of the Biochemical factors in human erythrocytes resistant and susceptible to P. falciparum infection: Graduated.
 2. Owino O.W.D. MSc Medicine "Neutrophil Phagocytic function in diabetes mellitus patients and in normal health indigenous Kenya." Graduated.

- 3 Owuor B. MSc. "Erythrocyte Immune in Children with severe O. falciparum malaria and those with uncomplicated malaria." Successfully defended his thesis in 2007.
- 4 Dr. Mwanda D. W. Doctor of Medicine "Acquired Thrombophilia in patients with Venous Thrombosis:
- 5 Rosemary Nzunza. MSc (Applied Parasitology). "Genetic and Variability of Human Metapneumoviruses in Kenya". Ongoing project.

Project supervision

1. Mwaniki P.J. Ontogenetic features in the regulation of hexokinase activity by thyroxine. Research project.
2. Kinoti W.M. Induction of malate dehydrogenase by thyroxine in rat liver. Research project.
3. Owino I.A. A study on the validity of intervention methods used by occupational therapist at Moi Teaching and Referral Hospital.
 - 6 Olilo. Effects of certain factors on the activity of ATPase to oligomycin in the kidney of mitochondria of rats of different age groups. Research project.
 - 7 Felix Odhiambo. A study on the effects of barbiturates (phenobarbital) and carbon tetrachloride on selected liver enzymes and how they affect the rate of drug metabolism
 - 8 Onywera Harris. Isolation and characterization of the human, alligator and crocodile blood sera protein components. Research project.

External Examiner

- ³⁵₁₇ I have been appointed an external examiner for both undergraduate and postgraduate course in Jomo Kenyatta University of Agriculture and Technology (from 2000 to date).
- ³⁵₁₇ .Maseno University. 2008- to date.

JOURNAL REFEREE

- ³⁵₁₇ East African Medical Journal
- ³⁵₁₇ African Journal of Medicine
- ³⁵₁₇ Discovery and Innovations
- ³⁵₁₇ African Journal of Science and Technology

ADMINISTRATIVE RESPONSIBILITY

- ³⁵₁₇ Severally acted as Chairman, Department of Biochemistry, University of Nairobi
- ³⁵₁₇ From 1st July 2003 while on sabbatical leave for one year, acted as Head of the Department of Biochemistry, Bugando University College of Health Sciences, Mwanza, Tanzania.
- ³⁵₁₇ From July 1, 2003 to August 2005. – Head of Biochemistry Department, BUCHS, Mwanza. Tanzania.
- From February, 2013. Head, Department of Biochemistry. Uzima University Collage. Kisumu, Kenya.

PROFESSIONAL BODIES

- ³⁵₁₇ Member of Biochemical Society of Kenya
- ³⁵₁₇ Member of Clinical and Industrial Consultancy Unit, Kenya
- ³⁵₁₇ New York Academic of Sciences

CONSULTANCIES

Undertaken consultancies for the following:

- ³⁵₁₇ Nairobi City Council – Aflatoxin levels in maize flour (1995-2000)
- ³⁵₁₇ Unga Ltd – Both on the quality of an assortment of flour (1996-1999)
- ³⁵₁₇ Bugando University College of Health Sciences on Curriculum, Syllabus in Biochemistry for Medical students (March-August 2003).

- Revised Curriculum, Biochemistry. Agakhan University, Nairobi.(2007)

COMMITTEES SERVED

- ³⁵₁₇ Departmental representative in the CBPS and show committee, Nairobi.4
- ³⁵₁₇ Departmental representative in the CHS Board of postgraduate studies committee.
- ³⁵₁₇ Course Coordinator, MSc Biochemistry
- ³⁵₁₇ Member of Technical Editorial Committee, African Journal of Sciences and Technology.

COMMITTEE SERVING

- ³⁵₁₇ Departmental Procurement Committee
- ³⁵₁₇ Member of CBPS postgraduate studies committee
- ³⁵₁₇ Member of CHS library committee
- ³⁵₁₇ Member of a committee working on curriculum development on sports science, Department of animal physiology.
- ³⁵₁₇ Coordinator, BSc Nursing 1 (Biochemistry)

PUBLICATIONS

Chek, JBL. Dictionary and Encyclopedia in Molecular Biology and Genetic Engineering, Resubmitted to University of Nairobi Press.

Owuor B.O, Odhiambo CO, Otieno WO, Adhiambo C, Makawiti D.W, Stoute JA, Chek J.B.L. Reduced Immune Complex Binding Capacity and Increased Complement Susceptibility of red cells from children with severe malaria associated anemia. Mol Med. 2008 Mar-Apr; 14 (3-4):89-97.

Tabak, M.M and Chek, J.B.L. The effect of hyperthyroidism on the activities of malate dehydrogenase and G-6-phosphate dehydrogenase in the liver of rats in different age groups (submitted).

Chek, J.B.L. studies on the Complex Mechanism for the Activation of plasminogen in

- Blood (submitted).
- Lazareva, S.E. and Chek J.B.L The State of Prostaglandin System during Myocardial Ischemia in patients of different age (submitted)/
- Chek, A.L. and Chek J.B.L. (2002). The effect of Hypokinesia on cyclic nucleotides and hormonal regulation of calcium metabolism in rats. *East Medical Journal* 79(4):210-213.
- Chek, J.B.L. and Laniko A.L. (2002). The effect of Hypokinesia on cyclic nucleotides and hormonal regulation of calcium metabolism in rats. *East Medical Journal* 79(4): 210-213.
- Chek, J.B.L. and Werimo K.E.S. (2000). Concepts on early and delayed malaria infection. *East African Medical Journal* 77(12):639.
- Chek, J.B.L. and Panchenko (2000). Fibrinogen degradation products in plasma following induced hyperfibrinolysis. *East African Medical J.* 77(4): 217-220.
- Chek J.B.L. (1997). The present use of state of vitamin K deficiency bleeding in infancy. Letter to the editor. *East African Medical Journal.* 74(2): 118.
- Chek, J.B.L. (1997). Monitoring anticoagulant therapy by measuring haemostatic parameters. *East African Medical Journal* 74(1):1.
- Panchenko, N.I. and Chek, J.B.L. (1996). The state of fibrinolytic system in the blood plasma of human beings, dogs, rabbits and rats. *Discov. Inno.* 7(4): 415-420.
- Chek, J.B.L. and K'ombutu F.O.X. (1995). The effect on fibrinolytic system of blood plasma of Wister rats after feeding them with coix mixed diet. *East African Medical Journal* 72(1):51-55.
- Chek, J.B.L. (1993). Protein structure and function: Dedication to Emil T. Kaiser Medicus 12(4):105-113.
- Chek, J.B.L. (1992). Malaria parasites avoid consequences imposed by host organisms *Medicus* 11(5):17-19.
- Chek, J.B.L. and Okello G.B.A. (1992). Fibrinolytic system in the development of Adult Respiratory Distress Syndrome *African Journal of Science and Technology Series B*, 2(2): July 1992.
- Chek, J.B.L., Okello G.B.A. and Kyobe, J. (1992). Estimation of fibrinogen and products of its degradation blood plasma of uncomplicated cases of Malaria with low parasitemia. *East African Medical Journal* 69(10):583-587.
- Chek, J.B.L. (1990). A possible mechanisms of Adult Respiratory Distress Syndrome in VII International Congress of Parasitology Paris France SA. A15:436.
- Chek, J.B.L. (1988). The effect of temperature and time of storage on fibrinolytic activity of human blood plasma in Inaugural Symposium on Science and Technology. Holiday Inn, Harare, Zimbabwe 54-55.

Pachenko, N.I., Chek, J.B.L., Liashenko, I.N. and Denisenko, E.S. (1985). Fibrinolytic system after operation trauma in Destruction of organs of neurological system. Lecture thesis of XV scientific practical conference for urologists Krivoi Rog. 67-69.

Liashenko, I.N. and Chek, J.B.L. (1986). Effect of adenomectomy on condition of fibrinolytic system Scientific Technical Progress Kharkov 1:202-204.

Chek, J.B.L. (1985). Determination of normal indices of fibrinolytic system Scientific Technical Progress in Medicine Kharkov 2:100-103.

Chek, J.B.L. (1985). Fibrinolytic system in blood of old patients suffering from adenoma of postate glands Scientific Technical progress in medicine Kharkov 1:100-104.

PAPERS IN PREPARATION

Chek, J.B.L. and Sutor, A.H. Shelf-life of Whole blood and Plasma with reference to PTT, Quick and Fibrinogen.

Chek, J.B.L. and Sutor, A.H. Comparison between Whole and Plasma in the determination of some coagulation factors.

PRESENTATIONS, SYMPOSIUM AND CONFERENCE ATTENDED

1990: Chek, J.B.L. Role of Fibrinolytic system in the development of Adult. Respiratory Distress Syndrome, Abstract, Paper presented at first Biochemical Society of Kenya (BSK) Conference at ICIPE, Kenya.

1991: Attended a six months course on Techniques in Molecular Biology , University College, London

1991: Attended BSK Second Symposium, Egerton University, Njoro.

1992: Attended Annual Medical Scientific Conference of KEMFRI/KETRI.

1993: Presented a paper on Nutritional Value of Coix at the 4th Biochemical Society of Kenya (BSK) Symposium, University of Nairobi.

Oct 1994-Jan 1995: DAAD Study visit Hemostatis and Hematology Laboratory University Kenderlinik, Freiburg, Germany.

Nov 1995: Presented a paper of shelf-life of whole blood and plasma with special reference to coagulation factors at the 5th BSK Symposium, JKUAT, Nairobi.

Sept 1996: Attended the first Pan-African Conference on Biochemistry and Molecular Biology Nairobi.

2002: Attended the six BSK Symposium, Chiromo Campus, University of Nairobi.

REFEREES

1. Professor J.K Munyua
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2. Professor Dominic Oduor-Okello
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