

CURRICULUM VITAE

A. PERSONAL INFORMATION

1. **Full name:** Kipruto Arap Sinei
2. **Contact address:** P O Box 19676 – 00202 KNH, NAIROBI; Tel. Office: 0773062633 ;020 4915027 : EMAIL: drkasinei@yahoo.com ; sinei@uonbi.ac.ke
3. **Positions currently held:**
 - a) Senior Lecturer in Pharmacology, Department of Pharmacology and Pharmacognosy, School of Pharmacy, University Nairobi (UON)
 - b) Chairman, Department of Pharmacology and Pharmacognosy, School of Pharmacy, University Nairobi (UON)
4. Sex: Male

B. EDUCATION AND QUALIFICATIONS

1. **Doctor of Philosophy (PhD in Neurochemical Pharmacology);** University of Bath, England, United Kingdom; **1983 - 1987**
2. **Bachelor of Pharmacy (B. Pharm.);** University of Nairobi, Kenya; **1976 – 1980**
3. **Kenya Certificate of Secondary Education (“A” Level);** Nakuru High School, Nakuru; **1974 – 1975**
4. **Kenya Certificate of Secondary Education (“O” Level);** Litein High School, Kericho; **1970 – 1973**

C. WORK, PROFESSIONAL AND UNIVERSITY TEACHING EXPERIENCE

1. **Senior Lecturer; 1996 – 1998; Re-instated as Senior Lecturer: 2009 - To date;** Department of Pharmacology and Pharmacognosy, University of Nairobi; teaching Pharmacology to undergraduate and postgraduate students
2. **Senior Lecturer 2009;** Department of Pharmacy and Complimentary / Alternative Medicine, School of Health Sciences, Kenyatta University teaching Medical Biochemistry to undergraduate students
3. **Managing Director and Chief Pharmacist; 1999 – 2008** Tembur Pharmacy Ltd; Community Pharmacy Practice; KERICHO
4. **Lecturer; 1990 – 1996;** Department of Pharmacy, Faculty of Medicine, University of Nairobi; teaching Pharmacology to undergraduate students
5. **Lecturer; 1987 – 1990;** Department of Biochemistry, University of Nairobi; teaching Medical Biochemistry to undergraduate students
6. **1981 – 1987 Tutorial Fellow;** Department of Biochemistry, University of Nairobi, Teaching Medical Biochemistry and undertaking PHD research
7. **Pharmacist; 1980 – 1981;** Ministry of Health, Kenya

D. SHORT COURSES UNDERTAKEN

1. **Certified Vaccination Trainer; June, 2014;** Course offered by the University of Nairobi School of Pharmacy in collaboration with the University of Kansas School of Pharmacy, Kansa-2-Kenya and Lawrence Memorial Hospital Pharmacy

2. **Hands-on workshop; April 2014 UON/UNES Grant Proposal Writing Training;** Sponsored by University of Nairobi (DVC-RPE) and UNES Limited; venue, Chiromo Conference Centre, UON
3. **Training Workshop on Process of Setting University Level Examinations; 2013** Venue: School of Pharmacy, University of Nairobi
4. **Palliative Care for Terminally Ill Patients: 2012;** A Short Course for Health Care Professionals Offered by the Nairobi Hospice, Nairobi
5. **Ethical and Responsible Conduct of Research: 2012;** Offered by the College of Health Sciences, University of Nairobi, in collaboration with University of Washington, USA; Venue: Nairobi.
6. **Teacher Training Workshop on Improving Medical Education in Kenya 2011;** Partnership between University of Nairobi and St. John's Medical College, Bangalore, India. Venue: University of Nairobi
7. **Leadership and Management Program, 2010/2011** Course offered by Management Science for Health (MSH) in collaboration with USAID; Venue, Naivasha and Nairobi
8. **Advanced Course in Health Research Methods; 2010;** Course offered by the University of Nairobi; venue: Nairobi

E. **ADMINISTRATIVE EXPERIENCE, PROFESSIONAL AND COMMUNITY RESPONSIBILITIES**

1. **Chairman: Appointed in June 2010 – date; Administrative Head of the Department;** Department of Pharmacology and Pharmacognosy, School of Pharmacy, University of Nairobi
2. **Acting Deanship: June 2010 – date;** has acted as Dean of the School of Pharmacy on several occasions
3. **MEMBERSHIP OF UON SENATE AND SEVERAL COMMITTEES: Member of Senate** of the University of Nairobi, from **June, 2010 – date;** **Member of the College Academic Board**, College of Health Sciences, UON; **Member of Extended College of Health Sciences Management Board (UON);** Member of School of Pharmacy Management Board (UON); has been an active Member of several Committees of the University of Nairobi (UON) and Kenyatta University (KU) over several years, for example (UON): Departmental and School Board of Postgraduate Studies Committee (UON and KU); Drug and Substance Abuse Prevention Committee (KU); Planning and Budgeting Committee, Department of Pharmacy and School of Pharmacy (UON); Board of Undergraduate Studies Committee, School of Pharmacy (UON); Corruption Prevention Committee, School of Pharmacy (UON); School of Pharmacy, Strategic Planning Committee (UON); Several CHS and Senate (UON) ad hoc Committees (UON).
4. **Member of Board of Management; Limuru Girls High School; Elected in Annual General Meeting of Parents;** November, 2015 – to date
5. **Member of Board of Management of Hospital Hill Primary School, Westlands, Nairobi;** 2016 -
6. **Member of Parents Teachers Association; Limuru Girls High School; Elected in Annual General Meeting of Parents;** October, 2013 – to November, 2015. I participated actively in the School's management affairs

7. **Member, Executive Committee, Kericho Golf Club, 2000 – 2005.**
8. **Member, Board of Governors, Marinyin Secondary School, 1998 – 2006**
9. **MEMBER, Pharmacy and Poisons Board, Ministry of Health, 1995 – 1998. I was elected in Departmental meeting of the Department of Pharmacy to represent the University of Nairobi in the Pharmacy and Poisons Board.**
10. **HEAD, Pharmacology Section, Department of Pharmacy University of Nairobi, 1991 – 1996**

F. PARTICIPATION IN DEVELOPMENT AND REVIEW OF UNIVERSITY CURRICULA

I have participated in Development and Review of the Following Curricula:

1. Bachelor of Pharmacy; School of Pharmacy, University of Nairobi
2. Bachelor of Pharmacy; Joint Kenya Medical Training College and University of Nairobi Initiative
3. Master of Science in Pharmacognosy and Complementary Medicine, School of Pharmacy, University of Nairobi
4. Master of Pharmacy in Pharmacovigilance and Pharmacoepidemiology, School of Pharmacy, University of Nairobi
5. Master of Science in Molecular Pharmacology, School of Pharmacy, University of Nairobi

G. MEMBERSHIP OF PROFESSIONAL BODIES

1. Member of Pharmaceutical Society of Kenya (MPSK) 1991 – To date. Has been active member of several committees of MPSK, such: Member of Governing Council; Member of Education Committee; Member of Legal Committee.
2. Member of Society of Neuroscientists of Africa.
3. Member of Kenya Society for Basic and Applied Pharmacology

H. APPOINTMENT AS EXTERNAL EXAMINER

Kenyatta University: 2012 – 2015. Still retained as external examiner for postgraduate theses

I. SUPERVISION AND EXAMINATION OF POSTGRADUATE STUDENTS

• **PHD THESIS SUPERVISED TO COMPLETION**

- **Name of Student:** Mr. Samuel Kimani Thuo; **Degree:** Doctor of Philosophy (University of Nairobi); **Title of Thesis:** **Neurotoxicity of Cassava Cyanogenic Compounds in Rodents and Non Human Primates;** **Supervisors:** F. Bukachi, K. Sinei, D. Tshala-Katumbay and C. Maitai; **Date Graduated:** 5/12/2014

J. MASTER'S THESES SUPERVISED TO COMPLETION

1. **Name of student:** Claris Ambale Akatsa. **Degree:** Master of Pharmacy (UON). **Title of thesis:** **Accessibility of Medicines used in the Management of Substance use Disorders in Selected Hospitals in Nairobi** Supervisors: **Dr K A Sinei**, Dr M N Oluka and Dr B Amugune. Year graduated: **2016**
2. **Name of student:** Dorothy Aywak. **Degree:** Master of Pharmacy (UON). **Title of thesis:** **Insulin-related Medication Errors and Contributing Factors at Kenyatta National Hospital** Supervisors: Prof A N Guantai, **Dr K A Sinei** and Dr M N Mulaku; **Graduated 4/12/2015**
3. **Name of Student:** Jomo Seth Maganya; **Degree: Master of Pharmacy** (University of Nairobi); **Title of Thesis:** Evaluation of Potential Drug-Drug Interactions among Mentally ill Patients Admitted at Mathari Mental Hospital; **Supervisors: K A Sinei**, M O Oluka and B Amugune; **Graduated 4/12/2015**
4. **Name of student:** Jenifer M. Mbui. **Degree: Master Pharmacy (UON).** **Title of thesis: Attributes and Cost of Pharmacotherapy of Adult Hypertensive Patients in Rural Outpatient Setting in Kenya.** Supervisors: Dr M N Oluka, **Dr K A Sinei** and Dr E M Guantai. **Graduated on 4/12/2015**
5. **Name of student: Simon Kanyoro Wahome. Degree: Master of Pharmacy (UON). Title of thesis: Insurance and Indemnity Coverage for Clinical Trials of Medicines in Kenya; Supervisors: Dr G Osanjo, Dr K A Sinei and Dr E. M. Guantai; Graduated 4/12/2015**
6. **Name of Student: Maitha Maingi Joseph ; Degree: Master of Science (University of Nairobi); Title of Thesis: A Comparative Study of Withaferin A Content of the Root Extract of *Withania Somnifera* (L) Dunal Collected from Different Ecological Zones in Kenya; Supervisors: J W Mwangi, K A Sinei and K O Abuga; Date Graduated: 5/12/2014**
7. **Name of student: Obonyo Jones Makori Degree: Master of Pharmacy (University of Nairobi); Title of Thesis: Patterns and Risk Factors for Alanine Transaminase Elevation among HIV Patients on Nevirapine Regimens in Kenyatta National Hospital; Supervisors: K A Sinei, F A Okalebo and M O Oluka; Graduated 5/12/2014**
8. **Name of Student: Khaemba Christabel Nanyama; Degree: Master of Pharmacy (University of Nairobi); Title of Thesis: Medication-related Errors in Paedriatic Patients;Supervisors: K A Sinei, S Ndwiga and E Guantai; Date Graduated: 5/12/2014**
9. **Name of Student: Annie Wamaitha Mwaniki; Degree: Master of Pharmacy (University of Nairobi); Title of Thesis: Polypharmacy and Quality Prescribing in Geriatric Patients – A case Study in Nyeri Provincial General Hospital; Supervisors: Eric M Guantai and Kipruto A Sinei; Date Graduated: 5/12/2014**
10. **Name of Student: Dr Florence M Nderitu; Degree: Master of Public Health (Kenyatta University); Title of Thesis: Detection and Management of Adverse Reaction to Anti-Retroviral Drugs in Kiambu District; Supervisors: K A Sinei and N K Gikonyo, Date Graduated: 2011**

ON-GOING MASTER'S THESES UNDER SUPERVISION

Dr K A Sinei; Dr GO Osanjo and Dr S Ndwigah;

Degree: Master of Pharmacy (UON)

- 2. Name of student:** Jilain O Etenyi. **Title of thesis:** Health Related Quality of Life of HIV positive client who adherence in Malava sub-county; **Supervisors;** Sylvia Opanga; Dr KA Sinei and Dr GO Osanjo; **Degree:** Master of Pharmacy (UON).
- 3. Name of Student:** Lydia Magdalene Olieyo. **Degree:** Master of Science (University of Nairobi). **Title of thesis:** Pharmacological and Phytochemical Investigation of Wound Healing Properties of Some Plants found in Kenya. **Supervisors:** K A Sinei, F A Okalebo and A K Gatuma

K. DOCTOR OF PHILOSOPHY THESIS EXAMINED

- Name of Student: Dr Bosire Kefa Ogonyo; Title o Thesis: “**Effects of Chinsaga (*Gynandropsis gynandra*) on Hematological Profile and Markers of Iron Metabolism in Kenyan Breastfeeding Women**”; Supervisors: **Prof Anastasia N Guantai, Dr Faith Okalebo and George Oyamo Osanjo. Date graduated: 2014**

L. MASTER OF SCIENCE / PHARMACY THESIS EXAMINED

1. Prevalence and Characteristics of Medicine Use Among Pregnant Women at Kiambu District Hospital in Central Kenya; Master of Pharmacy Thesis (UON); 2015; by **George Muraya Kirira; Supervisors:** Prof C K Maitai, Dr M N Oluca and E M Guantai
2. “A Situation Analysis on Pharmaceutical Waste Management in Nairobi County, Kenya”; **October, 2015; Name of student:** John Rukungu Mugumura; Supervisors: Ms. Mary Kinoti and Dr Dismas Ongore; MPH Dissertation, UON
3. Self Medication with Antibiotics Prior to Seeking Treatment Among Patients At Gatundu Sub-County Hospital, Kiambu County, Kenya” Charles Kiragu Ngigi; **June 2015;** MPH Thesis, Kenyatta University; **Supervisors:** Dr P.M. Mwangi and Dr J. Wala
4. Utilization of Herbal Products and Concomitant Use with Conventional Medicine in Githunguri Division, Kiambu County, Kenya” by Mr Francis N Githinji’s (MPH Thesis; Kenyatta University; **2014); supervisors:** N.K. Gikonyo and D.A. Kamau.
5. Phytochemical Investigation and Antimicrobial Activity of *Nicandra Physaloides* Gearten (Solanaceae); by Nillian Ayuma Mukungu (**2013); Supervisors:** Dr. Kennedy O. Abuga, Dr. Nelly N. Mungai and Dr. Kefa O. Bosire
6. A Study of the Quality of Ginseng Containing Products in Nairobi, Kenya; by Ronald Mwendu Inyangala (**2012); Supervisors:** Prof IO Kibwage, Dr KO Abuga and Dr MO Oluca
7. A Comparison of Phytochemical and Hypoglycemic Properties of *Meredenia Sylvestris* R from different regions of Kenya ; **MSc (UON), 2010; by** B.B. Maina Mwea; **Supervisors:** Prof JW Mwangi, Dr FA Okalebo and Dr B Amugune
8. *Videx Doniana* (VERBANACEA): Evaluation of pharmacological basis of use in traditional medicine; by Sifuma Shaban W A (**2010); Supervisors:** Prof JW Mwangi, Prof GN Thoithi and Dr FA Okalebo

M. PRESENTATION IN INTERNATIONAL SCIENTIFIC CONFERENCES

1. Brain Disorders in the Developing World Tenth Anniversary Symposium: Research across the Lifespan; **Feb 10-13, 2014**. Washington DC, USA
 - a. Cassava cyanogenesis and neurotoxicity: experimental modeling. **Part I**. memory deficits associated with sublethal cyanide poisoning relative to cyanate toxicity in rodents. Kimani S, **Sinei K**, Bukachi F, Tshala-Katumbay D and Maitai C
 - b. **Part II**. Cassava cyanogenesis and neurotoxicity: experimental modeling. Cross species and tissue variations in cyanide detoxification rates in rodents and non-human primates on protein-restricted diet. Kimani s, Moterroso V, Morales P, Wagner J, **Sinei, K**, Bukachi F, Maitai C and Tshala-Katumbai D.
2. Second International Scientific Conference of the College of Health Sciences, University of Nairobi & Kenyatta National Hospital **10th June – 21st June, 2013** (KNH Campus, Nairobi). Oral presentation entitled: “**An *in vitro* study on the oxytocic action of *Adenia globosa* Engl**”. Abstract No 14. **Kipruto A Sinei**, Julius W. Mwangi, Ms. Rahab W. Munenge and Mr Amos M Mwaura
3. National Council for Science and Technology Conference: The First National Science and Technology and Innovation Week, KICC, Nairobi, **7th – 11th May, 2012**. Oral presentation entitled: “**The contractile action of *Adenia Globosa* Engl. on mammalian smooth muscle**” Abstract No 31. **KA Sinei**, JW Mwangi, RW Munenge, AM Mwaura
4. First International Scientific Conference of the College of Health Sciences, University of Nairobi & Kenyatta National Hospital **15TH – 17TH June, 2011** (KNH Campus, Nairobi). Oral presentation entitled: “**Time-depended effect of antidepressant Drug Paroxetine on 5-Hydroxytryptamine synthesis in the rat brain**” Abstract no 116. **KA Sinei** and PH Redfern
5. XXTH World Congress of Neurology, Morocco, **December, 2011 (WCN 2011)**. **Probing mechanisms of cyanogens neurotoxicity: relevance to the pathogenesis of Konzo, a motor neuron disease highly prevalent in Sub-Saharan Africa**. S Kimani, V Monterroso, **K Sinei**, F Bukachi, C Maitai, and D Tshala-Katumbay
6. 15th African Health Sciences Congress, Kemri, Nairobi, **7th – 11th February, 1994**. Oral presentation entitled: “**Potentiation of Oxytocic Activity of *Adenia Globosa* by Oxytocin and Prostaglandin F2 α** ”. Paper No 18/94. **KA Sinei**, JW Mwangi, KJ Achola, RW Munenge, and AM Mwaura
7. 5Th NAPRECA International Symposium, Antananarivo, Madagascar, 14th-23rd September 1993. **Effect of *Adenia globosa* on rat uterus**; **KA Sinei** and JW Mwangi
8. First Society of Neuroscientists of Africa International Meeting, KEMRI, Nairobi, **8th - 13th March, 1993**; Oral presentation entitled: Circadian variation in the activity of tryptophan hydroxylase in the rat brain and the effect of anti-depressant drugs clomipramine, mianserin and paroxetine. First International Neuroscience Conference in Africa, Nairobi **KA Sinei** and PH Redfern
9. The British Society for Chronobiology Workshop, University Of Cambridge, United Kingdom, **17th – 18th September, 1986**. Oral poster presentation entitled: “The effect of chronic administration of antidepressant drugs on the synthesis of 5HT in the rat brain at two times of day”. **KA Sinei** and PH Redfern
10. The British Pharmacological Society Conference, University Of Bath, **9th – 11th April, 1986**. Poster communication entitled: “**Effect of chronic administration of**

clomipramine and mianserin on tryptophan- 5-hydroxylase in the rat brain”.

Abstract No. P20. **KA Sinei** and PH Redfern

11. The International Society for Chronobiology Conference, [Official Satellite Meeting of 9th International Congress of Pharmacology], University of Bath, **August, 1984**. Oral poster communication entitled: “24-Hr variation in synaptosomal tryptophan-5-activity in the rat brain”. **KA Sinei** and PH Redfern

N. PUBLICATIONS

DOCTOR OF PHILOSOPHY THESIS (1987)

The effect of Antidepressant Drugs on the Circadian Rhythm of 5-Hydroxytryptamine Synthesis in The Central Nervous System; University of Bath; Claverton Down Rd, Bath, North East Somerset BA2 7AY; England, United Kingdom. Supervisor: Professor Peter H. Redfern, PhD, DSc, FRPharmS

O. RESEARCH PUBLICATIONS IN INTERNATIONAL PEER-REVIEWED SCIENTIFIC JOURNALS

1. Seth M Jomo, Beatrice Amugune, **Kipruto A Sinei** and Margaret Oluka (2016); Assessing prevalence and severity of potential drug-drug interactions among mentally ill patients. *Indian Research Journal of Pharmacy and Science*. **8(2016):331-343**
2. **Sinei KA**, Mwangi, JW, Munenge, RM, Mwaura, AM (2016). The contractile action of *Adenia Globosa* Engl. on mammalian smooth muscle. *Kenya Science, Technology and Innovation Journal (in press)*.
3. Christabel N. Khaemba, Christabel N. Khaemba, Eric M. Guantai, Margaret O. Oluka, **Kipruto A. Sinei** (2015). Medication Errors among Paediatric Inpatients at a Rural Referral Hospital in Kenya. *Pharmacoepidemiology and Drug Safety (Wiley, USA)*. **Vol. 24: 278, (2015)**.
4. Makori J, M. Ambetsa, **K.A. Sinei**, G.O. Osanjo, A.N. Guantai, S. McClelland, M.N. Oluka and F.A. Okalebo (2015); Patterns and risk factors for alanine aminotransferase elevation among HIV patients on nevirapine regimens; *Africa Journal of Pharmacology and Therapeutics*. **Vol 4, No 2 (2015)**
5. Mukungu N.A, Maitai C.K, **Sinei K.A**, Mutai, P.C., Ongarora D.S.B. and Karumi E.W. (2015); *Jatropha Curcas* Poisoning in Children in Western Kenya – A Case Report. *East and Central African Journal of Pharmaceutical Sciences* **Vol. 18 (2015): 32-34**
6. Mary Atieno Onyango, Faith Apolot Okalebo, David G. Nyamu, George Oyamo Osanjo and **Kipruto arap Sinei** (2014); Determinants of antibiotic dose adjustment

- in patients with chronic kidney disease at Kenyatta National Hospital, Kenya; *The African Journal of Pharmacology and Therapeutics* **Volume 3 No. 1**; pp 19-28.
7. Kimani S , **K. Sinei**, F. Bukachi, D. Tshala-Katumbay, C. Maitai (2014); Memory deficits associated with sublethal cyanide poisoning relative to cyanate toxicity in rodents. *Metabolic Brain Disease*; **Volume 29 (Issue 1)**, pp 105-112
 8. S. Kimani, V. Moterroso, P. Morales, J. Wagner , **S. Kipruto** , F. Bukachi, C. Maitai, D. Tshala-Katumbay (2014) 'Cross-species and tissue variations in cyanide detoxification rates in rodents and non human primates on protein-restricted diet. *Food and Chemical Toxicology* April 2014, **Volume 66**; pp 203-209
 9. **Kipruto A. Sinei**, Faith A. Okalebo, Hannington N Mugo and Josephat M Mwalukumbi (2013); An investigation of anti-microbial activity of *Acmella caulirhiza*. *The African Journal of Pharmacology and Therapeutics*. **2(4):130-133**
 10. F W Nderitu, N K Gikonyo and **K A Sinei** (2013). Detection and management of adverse drug reactions related to antiretrovirals among HIV/AIDS patients in Kiambu Sub-County, Kenya. *East and Central African Journal of Pharmaceutical Sciences*. **16(1): 3-12**.
 11. Samuel Kimani, Victor Moterroso, Mike Lasarev, **Sinei Kipruto**, Fred Bukachi, Charles Maitai, Larry David, and Desire Tshala-Katumbay (2013). Carbamylation correlates of cyanate neuropathy and cyanide poisoning: relevance to the biomarkers of cassava cyanogenesis and motor system toxicity. *Springerplus (U.S.A.): 2: 647*.
 12. **Kipruto A Sinei**, Julius W. Mwangi, Ms. Rahab W. Munenge and Mr Amos M Mwaura (2013). An in vitro study on the oxytocic action of *Adenia globosa* Engl. Second International Scientific Conference of the College of Health Sciences, University of Nairobi & Kenyatta National Hospital **10th June – 21st June, 2013**
 13. **Sinei KA**, Redfern PH (2012). The Time-Dependent Effect of the Antidepressant Drug Paroxetine on the Synthesis of 5-Hydroxytryptamine in the Rat Brain. *East and Central African Journal of Pharmaceutical Sciences*, **vol. 15: 46 – 54**
 14. Achola, KJ, JW Mwangi, **KA Sinei**, RW Munenge and AM Mwaura (1997). Pharmacological activities of *Gutenburgia cordifolia*. *Int. J. Pharmacog.* **35(1): 60 - 62**
 15. Mwangi, JW, **Sinei, KA**, Lwande, W, Laurent, R, (1995). Essential Oil constituents of *Artemisia Afra* Willd. *J. Essent. Oli Res.* **7: 97 – 99**.
 16. **Sinei, KA**, Mwangi JW, (1995). Effect of the tuber of *Adenia globosa* extract on the isolated rat uterus. *Int. J. Pharmacog.* **33 (3)**.
 17. **Sinei, KA**, Redfern, PH (1994). Effect of the anti-depressant drugs clomipramine and mianserin on tryptophan hydroxylase activity in the rat brain, measured at two points in the light/dark cycle. *Chronobiol. Int.* **11: 27 – 34**
 18. **Sinei KA**, Mwangi, JW, Mwaura, AM, Munenge, RM, (1994). Potentiation of uterine stimulatory action of *Adenia globosa* Engl, by oxytocin in vitro. *Afr. J. Health Sci* **4: 191 – 3**.

19. **Sinei, KA, Redfern, PH (1993).** Circadian variation in the activity of tryptophan hydroxylase and the effect of anti-depressant drugs clomipramine, mianserin and paroxetine. *Afr. J. Neurosci.* **1:35.**
20. **Sinei, KA, Redfern, PH (1993).** The effect of the chronic clomipramine and mianserine on the activity of tryptophan hydroxylase in the rat brain. *E. A. Med. J.* **70; 721 – 724.**
21. Redfern, PH, **Sinei, KA, (1986).** Effects of chronic administration of mianserin and clomipramine of tryptophan hydroxylase activity in the rat brain. *Br. J. Pharmacol.* **88: 342P.**
22. Redfern, PH, **Sinei, KA, (1985).** 24-Hr variation in synaptosomal tryptophan-5-hydroxylase activity in the rat brain. In: *Circadian Rhythms in the Central Nervous System.* Eds. Redfern, PH, Campbell, IC, Davies, JA, and Martin, KF. MacMillan Press, London, pp. **193-198.**

P. **HOBIES**

1. Reading
2. Music
3. Golf