



Glimpse of Research

Research activities of the Department from 1993 – 2005

**DEPARTMENT OF BIOCHEMISTRY
FACULTY OF MEDICAL SCIENCES
UNIVERSITY OF SRI JAYEWARDENEPURA
GANGODAWILA, NUGEGODA
SRI LANKA**

2006

INDEX

Messages	1
Abstracts	4
Publications in peer reviewed journals	15
Presentations in conferences, communications and posters	23
Postgraduate degrees	37
Awards	38
Research grants	39

Editorial Committee

Editor in-chief

Prof. E.R. Jansz

Editors

Dr. P.P.R. Perera

Ms. L.V. Athiththan

Mr. P.R. Wijemanne

Mr. N. Ileperuma

ISBN 955-9054-57-0

GLIMPSES OF RESEARCH

Research activities of the Department from 1993 – 2005

**DEPARTMENT OF BIOCHEMISTRY
FACULTY OF MEDICAL SCIENCES
UNIVERSITY OF SRI JAYEWARDENEPURA
GANGODAWILA, NUGEGODA
SRI LANKA
2006**

Message from the Vice-Chancellor

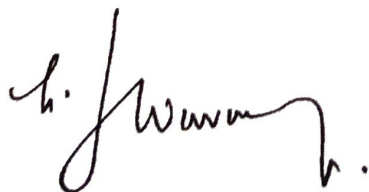
I am glad to provide a message on the occasion of the Research Symposium organized by the Department of Biochemistry, University of Sri Jayewardenepura with sponsorship of the Research Promotion Centre of the UGC.

The Department of Biochemistry has had an outstanding record in the utilization of research in both undergraduate and postgraduate teaching.

Under the distinguished leadership of Senior Prof. E. R. Jansz all the senior academic staff have been active researchers who have managed to attract an exceptional number of international and national research grants. This has not only provided the students with a large variety of research problems to work on but also ensured that they have access to the necessary equipment and consumables.

The total output of the department in term of publications and presentations in peer reviewed journals and conferences has been outstanding,

I wish to congratulate all the staff of the Department (academic and non academic) on their success and wish them well for the symposium.

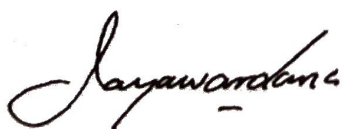


Prof. Narada Warnasuriya

Vice-Chancellor

Message from the Dean

It is with great pride that I write this message to the Biochemistry research booklet titled "Glimpse of research". The Department of Biochemistry in addition to participation in educational activities of undergraduates and postgraduates has contributed immensely to promote research activities in the Faculty and University. The academic staff members of the Department have carried out research of a very high standard and published the findings in national and international refereed journals. They have been invited to present their research and results at national and international academic sessions. In recognition of the commitment to research the Research Promotion Centre of the University Grants Commission has awarded a grant to the Department. On behalf of the Faculty I take this opportunity to congratulate the academic staff, research assistants and technicians for their dedication, commitment and achievements. The Faculty will be very proud of the recognition the Department has earned in the field of scientific research. The staff of the Department has decided to utilize the grant received to hold a seminar and publish a booklet which will include research data of the Department. I believe that these two activities will benefit the staff in the Faculty and University. The published data will give an opportunity to other researchers to be familiar with studied subjects and problems, obtained results, scientific methods and equipment used for research. I wish the scientific sessions success and hope that the deliberations will facilitate dialogue and action to promote good quality research in the Faculty and University.



Prof. Jayantha Jayawardana
Dean, Faculty of Medical Sciences

Message from the Head

As the Head of the Department I am pleased to write this message to the Biochemistry research booklet titled "Glimpse of Research" to be published on the occasion of the Department symposium. This symposium is organized in order to share with others the research activities of the Department from its inception in 1993 to 2005.

The achievement of an academic programme is demonstrated by effectiveness in teaching and professional distinction in research and contribution to discipline-related services.

As we all know Biochemistry is a research-oriented discipline. Staff members of the Department of Biochemistry had been successful in publishing in peer-reviewed journals and making presentations at scientific fora both nationally and internationally. Further they were able to attract external funding based on their research and scholarly activities. The research had involved both undergraduate and postgraduate work. The B.Sc. Human Biology programme that's unique to this Faculty had contributed immensely to exploratory research.

We recognize the leadership and contribution of our Senior Professor E. R. Jansz who had inculcated the spirit of research in the Department. He was the founder member of this Department and his long experience as the Director CISIR (presently ITI) helped the Department members to produce this many postgraduates, publications and presentations during a short period of 13 years.

I take this opportunity to thank all the departmental staff members both academic and non-academic who worked hard to make this symposium a success.



Dr. M. I. F. P. Jayawardene
Head, Department of Biochemistry

Fructosamine as an index of glycaemic control in diabetic subjects

Peiris H.

ABSTRACT

The determination of glycated serum proteins (fructosamine) has become an accepted index for assessing the metabolic status in diabetic patients. The current study describes an alternative to measurement of fructosamine level, viz; prediction of the serum fructosamine based on the fasting plasma glucose concentration. As there are no studies reported on serum fructosamine levels for Sri Lankan adults, a cross-sectional descriptive study was performed on 326 non-diabetics, 160 subjects with impaired glucose tolerance and 160 diabetic subjects attending clinics at Colombo South Teaching Hospital. Fasting plasma glucose and corresponding serum fructosamine concentrations were determined on all subjects. Fructosamine showed a positive linear correlation of $r^2 = 0.85$ with the fasting plasma glucose concentration. Results revealed that the serum fructosamine values of nondiabetic and IGT subjects were in the range of 192 – 260 $\mu\text{mol/L}$ and 264 – 290 $\mu\text{mol/L}$ respectively. The diabetic subjects had a value more than 297 $\mu\text{mol/L}$. No significant difference was observed between males and females and between age groups. The overall fructosamine values obtained by the present study could be used as an index for assessing the glycaemic index of an individual and to monitor the metabolic control of diabetic patients over a moderately shorter period of 2-3 weeks when compared to glycated haemoglobin and over a longer period when compared to fasting blood glucose.

Acknowledge NSF research grant (RG/95/M/15) and the technical assistance given by Niroshana KPR.

Effect of processing on physico-chemical properties of sword bean starch

Ekanayake S.

ABSTRACT

The effect of various processing methods on physico-chemical properties of starch of sword beans was studied. Seed grits and flour were cooked with and without soaking, wet-autoclaved and roasted. The changes in starch associated with these processing methods were studied by observing changes in granular structure, water solubility and water absorption index, molecular size distribution and the degree of gelatinization. Wet-processed samples had lowest water solubility, higher water absorption and lower gelatinization enthalpies than the raw bean flour whereas the dry heat treated samples showed higher water solubility and higher gelatinization enthalpies. The starch molecular size distribution pattern showed a higher amount of high molecular weight carbohydrates in dry heat-treated samples and a large fraction of intermediate molecular weight carbohydrates in the wet processed samples. The low molecular weight carbohydrate content was low in wet processed samples where processing was done with excess water. The results indicate that wet processed samples with a higher gelling capacity could be used as thickeners or in dough and dry heat treated samples in sauces or in porridge. Incorporation of such differently processed flour will have the added advantage of providing high quality protein and other nutrients.

Supervisors:- Nair BM, Asp N-G, and Jansz ER.

Financial support by IPICS (SRI- 07) and National Research Council (Grant 00-33) is gratefully acknowledged.

Absence of association between Hyperhomocysteinaemia and Ischaemic Heart Disease in patients over 50 years of age in a Sri Lankan Population.

Perera PPR.

ABSTRACT

Objective: To determine the association between hyperhomocysteinaemia and Ischaemic heart disease (IHD) in a sample of Sri Lankans who were over 50 years of age.

Design: A case control study

Setting: Colombo South Teaching Hospital, Kalubowila Sri Lanka.

Subjects: 158 patients with Ischaemic heart disease and 158 controls matched for age and sex.

Method: After a 14 hour fast plasma homocysteine levels were measured in 158 patients diagnosed with IHD (diagnosed according to the World Health Organisation criteria) and 158 age and sex matched controls.

Results: Homocysteine levels for the 158 subjects with IHD ranged from 3.42 – 27.38 $\mu\text{mol/L}$ IHD with a mean of 13.52 $\mu\text{mol/L}$. In the 158 controls plasma homocysteine concentration ranged from 2.12 – 32.84 $\mu\text{mol/L}$ with a mean of 12.72 $\mu\text{mol/L}$. In univariate analysis using χ^2 there was no significant association ($p = 0.064$) between hyperhomocysteinaemia and IHD in patients over the age of 50 years.

Conclusion: Hyperhomocysteinaemia is not associated with an increased risk of ischaemic heart disease in patients over 50 years of age in the sample studied.

Supervisors: Peiris H and Indrakumar J.

Financial support by University grant No. ASP/6/R/ 2002/01 is gratefully acknowledged.

Oral hypoglycaemic activity of *Ipomoea aquatica* (Forsk.), and its active constituents.

Malalavidhane TS.

ABSTRACT

Ipomea aquatica Forsk. (Convolvulaceae) is a commonly consumed green leafy vegetable, which is supposed to possess an insulin-like principle. A study was carried out to determine the oral hypoglycaemic activity of the plant in healthy and diabetic Wistar rats as well as Type II diabetic patients and to determine the active compounds. A single as well as multiple doses of the aqueous, whole extract effectively reduced serum glucose concentration of healthy and diabetic Wistar rats subjected to a glucose challenge. Glucose challenge studies with Type II diabetics showed a significant reduction in the serum glucose levels 2 h post glucose load when administered the aqueous, whole extract. The oral hypoglycaemic activity exerted by the plant was comparable to that of tolbutamide and was not only due to dietary fibre. The active constituents were contained in the ethanol extract of the fresh, edible portion and the long-term consumption of *I. aquatica* was not toxic to the liver and kidney of rats. Soxhlet extraction, gel filtration, medium pressure liquid chromatography and infra red spectroscopy revealed that active compounds were flavonoid glycosides. Studies directed at the mechanism of action showed that the extract may be increasing the sensitivity of the receptors for insulin and the uptake of glucose by peripheral tissues. Supervisors: Wickramasinghe SMDN, Jansz ER and Perera MSA.

Acknowledge the financial assistance provided by IPICS SRI: 07 and the University of Sri Jayewardenepura.

The effect of palmyrah fruit pulp on intestinal glucose uptake in mild diabetic patients and its biochemical basis.

Uluwaduge I.

ABSTRACT

The fruit pulp of palmyrah (*Borassus flabellifer* L) has been shown to inhibit intestinal glucose uptake in mice, the active principle being a steroidal saponin, flabelliferin-II. Palmyrah fruit pulp (PFP) is widely used to manufacture many food products including dried PFP (pinattu), which has been consumed in North-East Sri Lanka for centuries. Present study was carried out to investigate (i) the ability of pinattu to reduce serum glucose level of mild diabetic (Type-II) patients who were not on a drug regimen and (ii) the biochemical basis by which F-II mediates the reduction in blood glucose concentration.

Post prandial blood sugar (PPBS) alone was determined in the patients on their first visit to the clinic. On subsequent visits (3 days after the first visit), PPBS were determined after administration of pinattu (6g/50KgBW) or fiber (4g/50KgBW) extracted from PFP prior to the glucose challenge. The biochemical basis of the blood glucose lowering effect of F-II was determined by investigating its effect on mouse intestinal Na^+/K^+ ATPase activity.

In patients treated with pinattu, there was a significant reduction (by 15-48%) in PPBS concentrations. Na^+/K^+ ATPase activity of mouse intestine was inhibited by F-II at IC_{50} of $5 \times 10^{-5} \text{M}$.

The results of the present study reveal that pinattu (dried PFP) could be used as an anti-hyperglycemic agent and that inhibition of intestinal Na^+/K^+ ATPase activity may be a mechanism by which this action is mediated.

Supervisors: Perera MSA, Jansz ER and Thabrew MI.

Acknowledge the financial assistance provided by Grants NSF/RG/2004/02 and IPICS SRI:07

High molecular weight pectins are responsible for the hypocholesterolaemic effect of Palmyrah Fruit Pulp on Rats and Mice and must be intact on processing of Palmyrah

Bandara T, Pathberiya G and Rajapaksha RANK

ABSTRACT

Pectins of high molecular weight in the diet are known to lower serum cholesterol by interrupting re-entry of bile salt into the enterohepatic circulation. Four types of fresh Palmyrah Fruit Pulp (PEP) from Kalpitiya reduced serum cholesterol in ICR mice by 24-34%. However bulk PFP stabilized by sodium metabisulphite from the same source did not reduce serum cholesterol significantly ($p = 0.78$). Fresh PFP was polydisperse and had M.W. of upto 2 Million Daltons on Sepharose gel chromatography. A study of fresh and metabisulphite stored PFP from the same fruit showed an increase in Mean (20 to 29 ml), Median (18 to 26 ml) and Mode (18 to 20 ml) on Sepharose gel chromatography M.W. profile clearly demonstrating a lowering of M.W. Pinnatu a dried PFP, a fruit leather showed a Mean, Mode and Median of gel chromatography of 28,26 and 24 ml respectively and did not lower serum cholesterol significantly ($p = 0.79$) in Wistar rats. Sephadex G -25 chromatography of pinnatu extract showed exopectinase activity on reaction with pectin as determined by the direct carbazole reaction but no evidence of the more important endopectinase activity after primary and secondary hydrolysis and the carbazole reaction following Sepharose gel chromatography. It is hypothesized that the endopectinase, which is responsible for major M.W. changes, reacts and is then destroyed during the drying of pinnatu (up to 67°C). Therefore in order to use pinnatu for lowering of serum cholesterol the pectinase activities must be deactivated as soon as PFP is extracted.

Supervisors: Jansz ER, Ekanayake S and Balasubramaniam K.

Acknowledge the financial assistance provided by Grant: IPICS SRI: 07

Studies on a new local antibiotic.

Keerthi AAP.

ABSTRACT

A steroidal saponin from Palmyrah (*Borassus flabellifer* L.) fruit pulp known as flabelliferin B (F_B) was identified in 1998. The compound contains carbohydrates with a sequence of β -Glc- (α 1, 2) Rha- (α 1, 4) Rha, which is essential for anti bacterial and anti fungal activity. F_B when associated with a UV impurity (phytoene/phytofluene) exhibits enhanced anti bacterial activity. Liquid medium experiments resulted in an IC_{50} value of $31.2 \mu\text{molL}^{-1}$ for purified F_B .

Toxicological studies were carried out using Wistar rats ($n = 8$) and New-Zealand white rabbits ($n = 6$). Wounds were created on rats, which were treated using separated aqueous F_B . Wound healing rates, wound microbiology, possible local and systemic effects were observed. Rats and rabbits were subjected to more sensitive ocular toxicity studies using $60 \text{ mg/ml } F_B$ solution. No local or systemic toxic effects were observed. A patch test was carried out to evaluate the effect on normal healthy human skin with no adverse effects.

An ointment with 2% F_B was prepared and the ointment was impregnated on a piece of gauze, covered with an aluminum foil. An ethically approved clinical trial was carried out with non-diabetic patients with superficial ulcers. Wound healing rate for test and control were 23.7% and 17.5% ($p = 0.512$). Wound healing was clinically significant. In addition F_B ointment had wound debridement and cleansing effects and was as effective as current hospital treatment. New compound may have a very wide range of application in anti bacterial soaps, creams and washing solutions etc.

Supervisors: Jansz ER, Ekanayaka S, Perera MSA and Mendis WSJ.

Acknowledge the financial assistance provided by grant IPICS SRI: 07 and NSF grant RG/2004/C/06.

Cholesterol lowering effect of *Aporosa lindleyana* in male wistar rats

Vijayendran L.

ABSTRACT

Aporosa lindleyana is a green leafy vegetable of family Euphorbiaceae which grows in tropical countries. Practitioners of folk medicine in Sri Lanka recommend the tender leaves of the plant for treatment of hypercholesterolaemic patients. This plant is eaten as “malluma” with rice by Sri Lankans. Male rats n=6, mean body weight of 360 g, three months old were divided into two groups, test and control. Both groups received limited feed 25 g/rat and water *ad libitum*. Both groups received 1% cholesterol enriched diet in the 1st week and 0.5 % cholesterol enriched diet in the second week. The test group received 3.3g/kg body weight plant extract (2 ml) while the control received 2 ml of distilled water. Blood samples were collected on day 0, day 7, and day 14 for estimation of total cholesterol and HDL cholesterol levels. On comparison of the control & the treated group $p < 0.05$ was considered as significant. The values given are the mean \pm standard deviation. The test group had a significantly lower cholesterol level (77.4 ± 19.7 mg/dl; $p = 0.006$) on day 14 than that of the control (124.2 ± 30.2 mg/dl). There was no significant difference in the HDL cholesterol between the test (56.9 ± 13.2 mg/dl) and control group (66.8 ± 14.0 mg/dl) on day 14; but there was a significant difference ($p = 0.005$) in the Total /HDL cholesterol ratio on day 14 (test group 1.35 ± 0.07 , control 1.87 ± 0.31). These findings provide strong supportive scientific evidence to the claims made by practitioners of folk medicine on the cholesterol lowering activity of the plant *Aporosa lindleyana*.

Supervisor: Wickramasinghe SMDN.

We acknowledge the financial assistance provided by University of Sri Jayewardenepura.

Detoxification of manioc leaf

Priyadarshani AMB.

ABSTRACT

The prevalence of goiter has been observed in certain areas of the Monaragala District where manioc is grown to a large extent. A field study carried out on Monaragala area demonstrated considerable consumption of inadequately processed manioc leaves by people of this area. This inadequate processing could explain why manioc leaf consumption causes goiter. Cyanogenic glucosides of the plant materials were hydrolysed by laboratory prepared exogenous linamarase and free cyanide was tested by picrate method. Quantification was done by spectrophotometrically by using cyanide standard curve. The total potential cyanide in manioc leaf ranged from 850 to 950 mg kg⁻¹ fresh weight (FW). In the traditional methods of cooking the total cyanide content was lower compared to fresh leaves but it was higher than permissible levels; free cyanide contents for “malluma” and fried leaf “malluma” were 119 and 112 mg kg⁻¹ respectively and bound cyanide contents were 540 and 531 mg kg⁻¹ for “malluma” and fried leaf “malluma” respectively on the basis of fresh weight. Two methods were developed to detoxify manioc leaf; sliced, pounded “malluma” (left in the open for 2 h) and boiling water treated “malluma”. In these methods free cyanide content was reduced to non-detectable levels (<0.5 mg kg⁻¹ FW) and the bound cyanide content was reduced to <7 mg kg⁻¹ FW without affecting protein content. The theoretical basis of these detoxification methods was due to high linamarase activity of manioc leaf, which is > 1 mg cyanide. g dry weight⁻¹.min⁻¹. The theory can be confirmed by urinary iodide determination.

Supervisors: Jansz ER and H. Peiris.

Acknowledge the financial assistance provided by grant IPICS: SRI 07.

Isolation, Quantification and Determination of *in vitro* accessibility of lycopene from watermelon

Edirisinghe EARI.

ABSTRACT

Lycopene is a carotenoid on which considerable attention has been given in recent decades. Lycopene is responsible for the red colour of many fruits and vegetables and it has found to reduce the risk of cancers and coronary heart diseases. This research had three main objectives -to isolate lycopene from watermelon to be used as a standard, to quantify lycopene in commonly consumed variety of watermelon (Sugar Baby) in Sri Lanka and to measure the *in vitro* accessibility of lycopene using an *in vitro* digestion method. Isolation of lycopene from watermelon involved, extraction of carotenoids, partition to petroleum ether, separation of carotenoids by Open Column Chromatography (OCC), identification of carotenoids using ultraviolet, visible absorption spectra (λ_{\max} and spectral fine structure), order of elution in OCC and HPLC retention time. Purity was verified by reversed phase HPLC. Quantification of lycopene was done using watermelons purchased from the local markets in an around Colombo district. In the *in vitro* accessibility technique, digestive conditions similar to the human intestinal tract were simulated. This study showed that lycopene can be isolated from the commonest variety of watermelon (*Citrullus lanatus*) in Sri Lanka and its lycopene content ($39.5 \pm 9.4 \mu\text{g}\cdot\text{g}^{-1}$ FW) was considerably high. *In vitro* accessibility of lycopene was high (66 %).

Supervisor: U G Chandrika

Acknowledge the financial assistance provided by Grant: IFS, E/3655-1

Studies on Organic Non-Covalent Binders of β -sitosterol

Wijemanne PR.

ABSTRACT

The β -sitosterol moiety is the common sterol found in a group of compounds known as flabelliferins, which are found in palmyrah fruit pulp (PFP), and is known to bind phytofluene and phytoene. It was recently reported that due to impurities, isolation from plant sources was problematic. These studies showed that commercial β -sitosterol contained many impurities which can be separated by using a chromatotron, the fluorescent fractions of which were pooled and analysed by RP-HPLC. The fluorescent impurity gave many peaks, none of which coincided with phytofluene and phytoene, showing there were many other binders to β -sitosterol, some of which were probably not fluorescent. Phytofluene isolated from PFP and purified β -sitosterol from Sigma, USA, was mixed and left to stand overnight. The mixture was subjected to thin layer chromatography (TLC). UV light and anisaldehyde were used to detect phytofluene and β -sitosterol respectively. The two compounds co-chromatographed indicating an association. The purified β -sitosterol was used to quench the fluorescence of phytofluene which was detected by a luminescence spectrometer to calculate the association constant. Phytofluene, β -sitosterol and the associated complex were analysed by FT-IR for changes in the spectra. The fluorescence spots and the anisaldehyde spots on the TLC paper overlapped confirming their association, while the quenching studies showed an association constant of $\log K_{\text{ass}} = 5.044$ ($r^2 = 0.9817$), and FT-IR showed minimal distortions between the spectra of complex and the reactants, suggesting a non-covalent binding.

Supervisors: E. R. Jansz and P. M. Jayaweera.

Acknowledge the financial assistance provided by grant IPICIS Sri: 07.

Publications In Peer Reviewed Journals

1997

1. Jansz ER, Uluwaduge I. Biochemical aspects of cassava *Manihot esculenta crantz* with special emphasis on cyanogenic glucosides – A review. *J. Natn. Sci. Council* 1997; **25**: 1-24.

1998

2. Mahatantila KC, Chandrika UG. Chemical Investigation of Jak (*Artocarpus heterophyllus*) leaves used in the treatment of diabetes mellitus. *Ayurveda Sameekshawa* 1998; **50**: 243-245.
3. Nikawala JK, Abeysekara AM, Jansz ER. Flabelliferins, steroidal saponins from palmyrah (*Borassus flabellifer* L) pulp I. Isolation by flash chromatography, quantification and saponin related activity. *J. Natn. Sci. Council* 1998; **26**: 9-18.
4. Nikawala JK, Wijeyratne SC, Jansz ER, Abeysekara AM. Flabelliferins, steroidal saponins from palmyrah (*Borassus flabellifer* L.) pulp II. Preliminary investigations on effects on yeast and selected bacteria. *J. Natn. Sci. Council* 1998; **26**: 141-150.

1999

5. Eknayake S, Jansz ER, Nair MB. Proximate composition, mineral and amino acid content of *Canavalia gladiata*. *Food Chemistry* 1999; **66**: 115-119.
6. Ekanayake S, Jansz ER, Nair BM, Abeysekara AM. A review of an underutilized legume *Canavalia gladiata*. *Vidyodaya J. Sci.* 1999; **8**: 1-25.
7. Thammitiyagoda MG, Thabrew MI, Munasinghe TMJ, Peiris H. Making wistar rats Hypereholesterlaemic by feeding a diet containing 0.25% cholesterol and 5% butter. *Sri Lanka Vet. J.* 1999; **46(1)**: 13 – 14.

2000

8. Ariyasena DD, Jansz ER, Jayasekara S, Abeysekara AM. Inhibitory effect of bitter principle of palmyrah (*Borassus flabellifer* L.) fruit pulp on growth of mice – Evidence using bitter & non bitter fruit. *J. Sci. Fd. & Agric.* 2000; **80**: 1763-1766.
9. Ariyasena DD, Jansz ER, Warnasuriya G. Effect of palmyrah (*Borassus flabellifer* L.) fruit pulp on weight gain by mice. *Vidyodaya J. Sci.* 2000; **9**: 97-103.
10. Ariyasena DD, Nikawela JK, Jansz ER, Abeysekara AM. Separation technique of flabelliferins from palmyrah (*Borassus flabellifer* L.) fruit pulp. *J. Sci. Eastern University of Sri Lanka* 2000; **1**: 1-9.
11. Chandrika UG, Norris GE. Comparison of analytical techniques for separation of N-linked oligosaccharides from model glycoprotein (Ribonuclease B). *J. Sci. Eastern University of Sri Lanka* 2000; **1(1)**: 23-31.
12. Ekanayake S, Jansz ER, Nair MB. Literature review of an under-utilized legume: *Canavalia gladiata* L. *Plant Foods for Human Nutrition* 2000; **55**: 305-321
13. Ekanayake S, Jansz ER, Nair MB. Nutritional quality of protein and starch of mature *Canavalia gladiata* seeds. *Int. J. of Fd. Sci. & Nutr.* 2000; **51(4)**: 289-294.
14. Malalavidhane TS, Wickramasinghe SMDN, Jansz ER. Oral hypoglycaemic effect of *Ipomoea aquatica*. *J. of Ethnopharmacology* 2000; **72**: 293-298.
15. Nikawela JK, Baeckstrom P, Jansz ER, Abeysekara AM. Investigation of the free steroid from palmyrah (*Borassus flabellifer* L.) fruit pulp. *J. Sci. Eastern University of Sri Lanka* 2000; **1**: 52-59.
16. Nikawala JK, Jansz ER, Baeckstrom P, Abeysekara AM, Wijeyaratne SC. Flabelliferins of naringinase debittered palmyrah fruit pulp. *Vidyodaya J. Sci.* 2000; **9**: 79-86.

17. Peiris H, Weerasekara DS. Glycosylated haemoglobin (HbA_{1c}) – Is it a useful screening test for gestational diabetes mellitus. *The Ceylon Journal of Medical Science* 2000; **43**: 7-10.
18. Perera AS, and Jansz ER. Preliminary investigations on the red pigment in rice and its effect on glucose release from rice starch. *J. Natn. Sci. Council of Sri Lanka* 2000; **28** (4):185-192.
19. Thadhani VM, Jansz ER, Peiris H. The digestible carbohydrate and dietary fibre content of selected plant foodstuffs of Sri Lanka. *J. Natn. Sci. Council of Sri Lanka* 2000; **28**:253-264.
20. Vijayendran L, Wickramasinghe SMDN. Cholesterol lowering effect of *Aporosa lindleyana* in male Wistar rats. *J. Sci. Eastern Universtiy of Sri Lanka* 2000; **(1)**: 16-22.
21. Weerasekara DS, Peiris H. The value of serum fructosamine in comparison with oral glucose tolerance test (OGTT) as a screening test for detection of gestational diabetes mellitus. *J. of Obstetrics and Gynaecology*. 2000; **20(2)**: 136-138.

2001

22. Ariyasena DD, Jansz ER, Abeysekera AM. Some studies directed at increasing the potential use of palmyrah (*Borassus flabellifer* L) fruit pulp. *J. Sci. Fd. & Agric.* 2001; **81**: 1347 – 1352.
23. Ekanayake S, Jansz ER, Abeysekera AM, Nair BM. Some anti- nutritional factors of mature sword beans (*Canavalia gladiata*). *Vidyodaya J. of Sci.* 2001; **10**: 81-90.
24. Ekanayake S, Jansz, ER, Jayasekara S. Effect of raw *Canavalia* seed meal on impregnated ICR mice. *J. Sci. Eastern University of Sri Lanka* 2001; **2**: 1-8.
25. Hettiaratchi P, Jiffry MTM, Jansz ER, Wickramasinghe AR, Fernando DJS. Glycaemic indices of different varieties of rice grown in Sri Lanka. *Ceylon Medical Journal* 2001; **46**: 11-14.

26. Malalavidhane TS, Wickramasinghe SMDN, Jansz ER. An aqueous extract of *Ipomoea aquatica* is as effective as tolbutamide in reducing the blood sugar levels of Wistar rats. *Phytotherapy Research* 2001; **15**: 635-637.
27. Munasinghe TC, Seneviratne CK, Thabrew MI, Abeysekera AM. Antiradical and antilipoperoxidative effects of some plant extracts used by Sri Lankan traditional medical practitioners for cardioprotection. *Phytotherapy Research* 2001; **6**: 519-523.
28. Peiris H. Deducing serum fructosamine from the fasting blood glucose value: a preliminary study. *The Ceylon Journal of Medical Science* 2001; **44**: 25-28.
29. Peiris H. Serum fructosamine values of Sri Lankan adults: A preliminary study. *Vidyodaya J. Sci.* 2001; **10**:119-126.
30. Samarasinghe I, Jansz ER. Some studies on the flabelliferins and carotenoids of fruit pulp of palmyrah (*Borassus flabellifer*). *Vidyodaya J. Sci.* 2001; **10**: 53-64.
31. Thabrew MI, Senaratna L, Samarawickrema N, Munasinghe C. Antioxidant potential of two polyherbal. Preparations used in Ayurveda for the treatment of rheumatoid arthritis. *J. of Ethnopharmacology* 2001; **3**: 285-291.
32. Thadhani VM, Jansz ER, Peiris H. Effect of exogenous histidine and *Garcinia cambogia* on histamine formation in Skipjack (*Katsuwonus pelamis*) Homogenates. *Int. J. of Fd. Sci. & Nutr.* 2001; **53**: 29-34.
33. Thadhani VM, Jansz ER, Peiris H. Destruction of Histamine by cooking ingredients. An artifact of analysis. *J. Natn. Sci. Foundation, Sri Lanka* 2001; **29(3&4)**: 129-135.
34. Thadhani VM, Jansz ER, Peiris H. Destruction of Histamine by cooking ingredients – an artifact of Analysis. *J. Natn. Sci. Foundation, Sri Lanka* 2001; **29**: 129-135.
35. Vandebona DP, Jansz ER, Wijeyaratne SC, Ileperuma N. Fermentation rates and efficiencies of fruit pulps from Palmyrah containing different flabelliferin profiles. *J. Sci. Eastern University of Sri Lanka* 2001; **12**: 42-50.

2002

36. Ariyasena DD, Jansz ER, Baeckstrom P. Direct isolation of flabelliferins of palmyrah by MPLC. *J. Natn. Sci. Foundation, Sri Lanka*. 2002; **30(1&2)**: 55-60.
37. Chandrika UG. Non-covalently attached hexosamine-hexose of Bovine alpha lactalbumin. *J. Sci. Eastern University of Sri Lanka* 2002; **2(1)**:35-41.
38. Jansz ER, Wickramasekara NT, Sumudunie KAV. A review of the chemistry and biochemistry of seed shoot flour and fruit pulp of the palmyrah palm (*Borassus flabellifer* L.). *J. Natn. Sci. Foundation, Sri Lanka* 2002; **30**: 61-87.
39. Keerthi AAP, Van de Hoevan R, Nikawala JK, Jansz ER. Studies on the effect of heat on the neurotoxic factor of palmyrah flour. *Vidyodaya J. Sci.* 2002; **11**: 79-85.
40. Peiris H. Withana RJ. A study on the use of two tetrazolium salts for determination of serum fructosamine. *Vidyodaya J. Sci.* 2002; **9**: 53-58.
41. Perera PS, Jansz ER, Peiris H. Studies on amines of hurulla (*Amblygaster sirm*). Do they cause allergic reactions? *Vidyodaya J. Sci.* 2002; **11**: 87-97.
42. Samarasinghe I, Jansz ER. Some studies on the flabelliferins and carotenoids of fruit pulp of palmyrah (*Borassus flabellifer*). *Vidyodaya J. Sci.* 2002; **10**: 53-64.
43. Sumudunie KAV, Jayasekara S, Jansz ER, Wickramasinghe SMDN. Neurotoxic effect on Wistar rats with traditional cooking recipes of palmyrah flour. *Vidyodaya J. Sci.* 2002; **11**: 99-106.
44. Thadhani VM, Jansz ER, Peiris H. Effect of exogenous histidine and *Garcinia cambogia* on histamine formation in skipjack (*Katsuwonus pelamis*) homogenates. *Int. J. of Fd. Sci. and Nutr.* 2002; **53**: 29-34.

2003

45. Chandrika UG, Jansz ER, Wickramasinghe SMDN, Warnasuriya ND. Bioconversion of pro-vitamin A carotenoids and antioxidant activities of *Carica papaya* fruits. *J. Natn. Sci. Foundation, Sri Lanka* 2003; **31(3&4)**: 437-444.
46. Chandrika UG, Jansz ER, Wickramasinghe SMDN, Warnasuriya ND. Carotenoids in yellow fleshed and red fleshed papaya (*Carica papaya* L.). *J. Sci. Fd & Agric.* 2003; **83**: 1279-1282.
47. Ekanayake S, Jansz ER, Nair MB. Effect of Processing on Protein Nutritional Quality of *Canavalia gladiata*. *Nahrung* 2003; **47(4)**: 256-260.
48. Iddamaldeniya SS, Wickramasinghe SMDN, Thabrew MI, Ratnatunge N, Thammitiyagodage MG. Protection against diethylnitrosoamine-induced hepatocarcinogenesis by an indigenous medicine comprised of *Nigella sativa*, *Hemidesmus indicus* and *Smilax glabra*: a preliminary study. *J. of Carcinogenesis* 2003; **2(1)**: 6.
49. Malalavidhane TS, Wickramasinghe SMDN, Perera MSA, Jansz ER. Oral hypoglycaemic effect of *Ipomoea aquatica* in streptozotocin-induced, diabetic, Wistar rats and Type II diabetics. *Phytotherapy Research* 2003; **17**: 1098-1100.
50. Peiris H, Keerthi AAP, Hewage UCL, Fernando DJS. Simple cost effective screening tests for microalbuminuria. *The Ceylon Journal of Medical Science* 2003; **46**: 73-81.
51. Perera PS, Jansz ER, Peiris H. Studies on amines of hurulla (*Amblygaster Sirm*). Do they cause allergic reactions of hurulla? *Vidyodaya J. Sci.* 2003; **6**: 87-97.
52. Weerasekara DS, Peiris H. The significance of serum uric acid, creatinine and urinary microprotein levels in predicting pre-eclampsia. *J. of Obstetrics and Gynaecology* 2003; **23(1)**: 17-19.
53. Wickramasekara NT, Jansz ER. The range of steroidal saponins of palmyrah flour: could they contribute to toxic effects on consumers? *J. Sci. Eastern University of Sri Lanka* 2003; **3**: 11-18.

2004

54. Chandrika UG. Purification and partial characterisation of glycosylated Bovine alpha lactalbumin. *Vidyodaya J. Sci.* 2004; **12**: In press.
55. Pathberiya LG, Jansz ER. Studies on flabelliferins and dietary fibre of palmyrah fruit pulp *vis-à-vis* its hypocholesterolaemic effect. *Vidyodaya J. Sci.* 2004; **12**: In Press.
56. Pathberiya LG, Jansz ER. The effect of fruit pulp of from four cultivars of palmyrah on cholesterol levels in mice. *Vid J. Sci* 2004; **13**: In Press.
57. Perera PPR, Peiris H, Indrakumar J. Modified HPLC method for routinely laboratory measurement of total serum homocysteine in Sri Lankans. *Vidyodaya J. Sci.* 2005; **12**: In Press.
58. Perera PS, Jansz ER, Peiris H. Some studies on the neurotoxic effect of palmyrah odial flour. *Vidyodaya J. Sci.* 2004; **12**: In Press.
59. Priyadarshani AMB, Jansz ER, Peiris H, Jayasinghe S. Detoxification of Cassava leaves. *J. Natn. Sci. Foundation, Sri Lanka* 2004; **32**: 61-68.
60. Senevirathne RMISK, Johansson M, Pathberiya LG, Jansz ER. Studies on dietary fibre content of four uncommon palmyrah fruit types. *Vidyodaya J. Sci.* 2004; **12**: In Press.
61. Sumudunie KAV, Jansz ER, Jayasekara S, Wickramasinghe SMDN. Neurotoxic effects of palmyrah (*Borassus flabellifer*) flour re-visited. *Int. J. of Fd. Sci. and Nutr.* 2004; **85**: 607-614.
62. Thabrew MI, Jansz ER. Nutritive importance of palmyrah product. *Recent Res. in Devel. Env. Biology* 2004; **1**: 43-60.

2005

63. Chandrika UG, Jansz ER, Warnasuriya ND. Analysis of β -carotene & lutein in some green leafy vegetables and effect of cooking on serum Vit A formation from *Alternanthera sesilis* (sinh. Mukunuwenna). *J. Natn. Sci. Foundation, Sri Lanka* 2005; **33**: 141-145.

64. Chandrika UG, Jansz ER, Warnasuriya ND. Carotenoid composition of ripe jak fruits (*Artocarpus heterophyllus*) kernel and its bioconversion. *J. Sci. Fd & Agric.* 2005; 85: 186-190.
65. Chandrika UG, Jansz ER, Warnasuriya ND. Identification and HPLC quantification of carotenoids of the fruit pulp of *Chrysophyllum roxburghi*. *J. Natn. Sci. Foundation, Sri Lanka* 2005; 33(2): 93-98.
66. Chandrasena L, Peiris H, Sivayogan S. Laboratory Statistics in clinical decision making. *Sri Lanka Journal of Medicine.* 2005; 14(2): 27-31.
67. Pathberiya LG, Jansz ER. Studies on the carotinoids of *in vitro* antioxidant capacity of palmyrah fruit pulp from Mannar. *J. Natn. Sci. Foundation, Sri Lanka* 2005; 33(4): 269-272.
68. Uluwaduge I, Keerthi AAP, Senadheera SN, Jansz ER. Studies on the national hydrophobic binders of flabelliferins and their effect on some bioactivities. *J. Natn. Sci. Foundation, Sri Lanka* 2005; 33: 187-199.
69. Uluwaduge I, Thabrew MI and Jansz ER. The Effect of flabelliferins of palmyrah fruit pulp on glucose uptake in ICR mice. *J. Natn. Sci. Foundation, Sri Lanka* 2005; 34: 37-41.

Presentations in Conferences, Communications and Posters

1994

1. Nikawela JK, Jansz ER. Effect of Naringinase on the utilization of sugar by yeast in palmyrah fruit pulp. *Chemistry in Sri Lanka*. 1994; **11**: 4-5.

1997

2. Nikawela JK, Jansz ER, Abeysekara AM. Bioactivity of flabelliferins of palmyrah fruit pulp. *Inaugural Academic, Faculty of Medical Sciences, University of Sri Jayewardenepura* 1997.

1998

3. Mahavithanage STC, Jansz ER. Studies on sugars of some Sri Lankan fruits. *Proceedings of the 02nd Annual Academic Sessions, Faculty of Medical Sciences, University of Jayewardenepura* 1998; August: 25-26.
4. Mahavithanage STC, Peiris H, Wickramasinghe AR. The body mass index of young adults in Sri Lanka. *Proceedings of the 54th Annual Sessions, Sri Lanka Association for the Advancement of Science* 1998; **Part I**: 33.
5. Malalavidhane TS, Peiris H. Dietary fibre content of some Sri Lanka foods. *Proceedings of the 02nd Annual Academic Sessions, Faculty of Medical Sciences, University of Sri Jayewardenepura* 1998; **August**: 24.
6. Nikawala JK, Ariyasena DD, Jansz ER, Abeysekara AM, Gamage UC. Studies on chemistry and bioactivity of the flabelliferins, steroidal saponins from palmyrah (*Borassus flabellifer* L.). *Chemistry in Sri Lanka* 1998; **15 (1)**: 5-6.
7. Peiris H., Kodikara DS, Gunatilaka M. Serum fructosamine values of some canine breed in Sri Lanka. *Proceeding of the 50th Annual Convention and Scientific sessions of Sri Lanka Veterinary Association* 1998; **March**: 15.
8. Peiris H, Weerasekara DS. The effectiveness of a single assay of serum fructosamine as a screening test for gestational diabetes. *Proceedings of the 02nd Annual Academic sessions, the Faculty of Medical Sciences, University of Sri Jayewardenepura* 1998; **August**: 25.
9. Perera AS, Jayawardene IJ, Jansz ER. Preliminary investigations on amino acids in the urine of patients in two homes for mentally retarded. *Chemistry in Sri Lanka* 1998; **15 (1)** : 5.

10. Pitipanarachchi RC, Jansz ER. Use of breadfruit (*Artocarpus communis*) flour as raw material for bakers yeast growth. *Chemistry in Sri Lanka* 1998; **15** (1): 5.
11. Samaranayake MDP, Wickramasinghe SMDN, Jayasekara S. Effects of cholesterol enriched diets on blood cholesterol level of Wistar rats. *Proceedings of the 54th Annual Sessions, Sri Lanka Association for the Advancement of Science* 1998; **Part I:5**
12. Samaranayake MDP, Wickramasinghe SMDN, Jayasekara S. Effects of garlic on diet-induced hypercholesterolaemia in Wistar rats. *Proceedings of the 02nd Annual Academic Sessions, Faculty of Medical Sciences, University of Jayewardenepura* 1998; 22-23
13. Weerasekara DS, Peiris H. Prevalence of impaired glucose tolerance in pregnancy according to risk factors. *Proceedings of the 31st Annual Scientific Session, College of Obstetricians & Gynecology, Sri Lanka* 1998; **August: 25.**

1999

14. Ariyasena DD, Nikawela JK, Jansz ER, Wijeyaratne SC, and Abeysekera AM. Bioactivity of Enzymatically debittered flabelliferins from palmyrah (*Borassus flabellifer*) fruit pulp. *Chemistry in Sri Lanka* 1999; **16(1): 45.**
15. Ekanayake S, Jansz ER, Abeysekera AM, Jayasekera S. Some antinutritional factors of *Canavalia gladiata*. *Chemistry in Sri Lanka* 1999; **16(1): 46.**
16. Gooneratne PS, Jansz ER, Jayasekara S, Ileperuma N. Determination of L-dopa in *Mucuna utilis* and feeding trials on ICR mice. *Chemistry in Sri Lanka* 1999; **16(1): 43.**
17. Hettiarachchi P, Jiffry MTM, Jansz ER, Fernando D. Glycaemic index of different rice varieties in Sri Lanka. *Proceedings of the 03rd Annual Academic Sessions, Faculty of Medical Sciences, University of Sri Jayewardenepura* 1999; **August: FP₁₁.**
18. Malalavidhane TS, Wickramasinghe SMDN, Jansz ER. Comparison of the oral hypoglycaemic effect of *Ipomoea aquatica* with tolbutamide in healthy Wistar rats. *Proceedings of the 54th Annual Sessions, Sri Lanka Association for the Advancement of Science* 1999; **Part I: 8.**

19. Malalavidhane TS, Wickramasinghe SMDN, Jansz ER. Effect of the aqueous filtrate and the ethanolic extract of *Ipomoea aquatica* on serum glucose concentration after a glucose challenge in healthy, male Wistar rats. *Proceedings of the 03rd Annual Academic Sessions, Faculty of Medical Sciences, University of Sri Jayewardenepura 1999; August: FP₆.*
20. Malalavidhane TS, Wickramasinghe SMDN, Jansz ER. Oral hypoglycaemic activity of *Alternanthera sessilis* in healthy male Wistar rats. *Proceedings of the 03rd Research Sessions, Faculty of Graduate Studies, University of Sri Jayewardenepura. 1999; August.*
21. Malalavidhane TS, Wickramasinghe SMDN, Jansz ER. Oral hypoglycaemic effect of *Ipomoea aquatica*. *Chemistry in Sri Lanka 1999; 16 (1): 41- 42.*
22. Peiris H, Weerasekara DS. The use of Glycosylated Haemoglobin (HbA_{1c}) in diagnosis of gestational diabetes mellitus in comparison to the oral glucose tolerance test. *Proceedings of the 03rd Annual Academic Sessions, Faculty of Medical Sciences, University of Sri Jayewardenepura 1999; August: 3.*
23. Peiris H, Withana RJ. Serum Fructosamine values of non-diabetic subjects in Sri Lanka. *Proceedings of the 55th Annual Sessions, Sri Lanka Association for the Advancement of Science 1999; Part I: 14.*
24. Perera AS, Jansz ER. Biochemical basis of low glycaemic index shown by red parboiled rice. *Proceedings of the 03rd Annual Academic Sessions, Faculty of Medical Sciences, University of Sri Jayewardenepura 1999; August: 9.*
25. Vijayendran L, Wickremasinghe SMDN. Effects of *Aporosa lindleyana* (Kabella) on blood cholesterol levels of Wistar rats. *Proceedings of the 55th Annual Sessions, Sri Lanka Association for the Advancement of Science 1999; Part I: 9.*
26. Vijayendran L, Wickremasinghe SMDN. Hypocholesterolaemic activity of *Aporosa lindleyana* in male Wistar rats. *Chemistry in Sri Lanka 1999; 16(1): 46-47.*
27. Thadhani VM, Jansz ER, Peiris H. A study of insoluble and soluble dietary fibre content of fifty Sri Lanka foodstuffs. *Chemistry in Sri Lanka 1999; 16(1): 50-51.*
28. Thadhani VM, Jansz ER, Peiris H. Determination of potentially metabolizable carbohydrate of 50 Sri Lankan food stuffs. *Chemistry in Sri Lanka 1999; 16(1): 49-50.*

29. Thadhani VM, Jansz ER. Preliminary investigations on the effect of selected food ingredients on Histamine. *Proceedings of 55th Annual Sessions, Sri Lanka Association for the Advancement of Science 1999; Part I*: 213.

2000

30. Adikari AMNT, Peiris H. A preliminary study on the effect of cooking on the iodine content of iodized salts. *Proceedings of the 04th Annual Academic sessions, Faculty of Medical Sciences, University of Sri Jayewardenepura. 2000; July*.
31. Ariyasena DD, Jansz ER, Jayasekara S, Abeysekara AM. Evidence to link the bitter principle of palmyrah (*Borassus flabellifer* L.) fruit pulp with inhibitors of weight gain in mice. *Chemistry in Sri Lanka 2000; 17*: 30.
32. Ariyasena DD, Vandebona DP, Jansz ER, Abeysekara AM. Preliminary investigations on flabelliferins variations and enzymatic hydrolysis using palmyrah fruit pulp from different locations. *Chemistry in Sri Lanka 2000; 17*: 28.
33. Chandrika UG, Norris GE. Glycosylation of bovine alpha lactalbumin. *Chemistry in Sri Lanka 2000; 17 (1)* : 6.
34. Jayawardene MIFP, Jayaratne SD. A convenient measure of insulin resistance *Proceedings of the 56th Annual Session, Sri Lanka Association for the Advancement of Science 2000: Part I*: 24
35. Malalavidhane TS, Wickramasinghe SMSN, Jansz ER. Ability of *Ipomea aquatica* to reduce the fasting blood sugar level of diabetic Wistar rats. *Proceedings of the 04th Annual Academic Sessions, Faculty of Medical Sciences, University of Sri Jayewardenepura. 2000; July*.
36. Malalavidhane TS, Wickramasinghe SMDN, Jansz ER. Effect of different extracts of *Ipomoea aquatica* on blood sugar levels of Wistar rats. *Chemistry in Sri Lanka 2000; 17(2)*: 16 -18.
37. Malalavidhane TS, Wickramasinghe SMDN, Jansz ER. Preliminary studies on the oral hypoglycaemic effect of *Psychotria sarmentosa* in healthy, male, Wistar rats. *Chemistry in Sri Lanka 2000; 18(2)*: 27
38. Malalavidhane TS, Wickramasinghe SMDN, Perera MSA, Jansz ER. Oral hypoglycaemic activity of *Ipomoea aquatica* in maturity – onset diabetics. *Proceedings of the 56th Annual Session, Sri Lanka Association for the Advancement of Science 2000; Part I*: 19.

39. Munasinghe TCJ, Seneviratne CK, Thabrew MI, Abeysekera AM. Anti-radical and anti-lipoperoxidative effects of some plant extracts used by Sri Lankan traditional medical practitioners for cardioprotection. *Proceedings of the 56th Annual Session, Sri Lanka Association for the Advancement of Science 2000; Part I*: 257.
40. Thadhani VM, Jansz ER and Peiris H. Effect of Pancreatic alpha – amylase on hydrolysis of rice and wheat starch processed in different ways. *Chemistry in Sri Lanka 2000; 17(2)*: 29-30.
41. Thadhani VM, Jansz ER, Peiris H. Effect of selected food ingredients on the formation of histamine. *Chemistry in Sri Lanka 2000; 17(2)*: 30-31.
42. Thadhani VM, Jansz ER, Peiris H, Ileperuma N. Development of a simple method to quantify histamine levels in fish. *Proceedings of the 04th Annual Academic Sessions, Faculty of Medical Sciences, University of Sri Jayewardenepura 2000; July*.
43. Vandebona DP, Wijeyratne SC, Jansz ER, Ileperuma N. Studies on alcoholic fermentation of different types of fruit pulp from palmyrah (*Borassus flabellifer*). *Proceedings of the 56th Annual Session, Sri Lanka Association for the Advancement of Science 2000; Part I*: 172.
44. Vijayendran L, Gooneratne KPPS, Adikari AMNT, Subasinghe SSTD, Namawardene HM, Jansz ER, Wickremasinghe SMDN. Is English an important factor in the performance in assessment of Biochemistry? *Proceedings of the 04th Annual Academic Session, Faculty of Medical Sciences, University of Sri Jayewardenepura 2000; July*.

2001

45. Ariyasena DD, Janssen PE. Flabelliferins (Steroidal saponins) of palmyrah (*Borassus flabellifer*) fruit pulp. Proceedings of the seminar on palmyrah Research & Development, Colombo 2001; **November**: 13-14.
46. Chandrika UG. Incomplete glycosylation of bovine alpha lactalbumin. *Chemistry in Sri Lanka 2001; 18 (2)*: 30-31.
47. Chandrika UG, Jansz ER, Wickramasinghe SMDN, Warnasuriya ND. Separation, identification, and quantification of carotenoids of two major varieties of *Carica papaya* grown in Sri Lanka using MPLC. *Proceedings of the 57th Annual Session, Sri Lanka Association for the Advancement of Science 2001; 57(1)*: 254.

48. Ekanayake S, Jansz ER, Nair BM. Effect on some functional properties of *Canavalia gladiata* seed flour. *Proceedings of the 03rd Research Sessions, Faculty of Graduate Studies, University of Sri Jayewardenepura* 2001; 13.
49. Ekanayake S, Jansz ER. Protein nutritional quality of processed *Canavalia gladiata*. *Proceedings of the 57th Annual Session, Sri Lanka Association for the advancement of Science* 2001; **Part I**: 175.
50. Galahitiyawa MW, Jayawardene MIFP, Soysa P. Estimation of vitamin A content in pasteurized milk during storage. *Proceedings of the 05th Annual Academic Sessions, Faculty of Medical Sciences, University of Sri Jayawardenepura* 2001; **July**: 22.
51. Jayasinghe BS, Jayawardene MIFP. Determination of Chromium & Zinc in selected food items using Flame Atomic Absorption Spectrometry. *Proceedings of the 03rd Research Sessions, Faculty of Graduate studies, University of Sri Jayewardenepura* 2001; **July**: 12.
52. Jayasinghe BS, Jayawardene MIFP. Influence of environmental contamination on Chromium and Zinc content of selected edible vegetables: safety and nutritional aspect. *Proceedings of the 07th Annual Forestry & Environmental Symposium, University of Sri Jayewardenepura* 2001; **Abstract**: 52.
53. Peiris H, Keerthi AAP, Hewage UCL, Fernando D. Use of Sephadex gel filtration and Light Development Resistor (LDR) system for screening microalbuminuria. *Proceedings of the 57th Annual Session, Sri Lanka Association for the Advancement of Science* 2001; **Part I**: 6.
54. Priyangika ADG, Jayawardene MIFP. Quantitative analysis of sugars in fruit drinks using thin layer chromatography. *Proceedings of the 05th Annual Academic Sessions, Faculty of Medical Sciences, University of Sri Jayawardenepura* 2001; **July**: 21.
55. Malalavidhane TS, Wickramasinghe SMDN, Jansz ER. Effect of *Ipomoea aquatica* on alloxan-induced diabetic rats. *Chemistry in Sri Lanka* 2001; **18 (2)**: 26.
56. Malalavidhane TS, Wickramasinghe SMDN, Jansz ER. Effect of *Ipomoea aquatica* on key hepatic enzymes and uric acid levels of healthy, Wistar rats. *Proceedings of the 57th Annual Sessions, Sri Lanka Association for the Advancement of Science* 2001; **Part I**: 10

57. Malalavidhane TS, Wickramasinghe SMDN, Jansz ER. Glycated haemoglobin (Hb A_{1c}) levels of Wistar rats treated with *Ipomoea aquatica*. *Proceedings of the 05th Annual Academic Sessions, Faculty of Medical Sciences, University of Sri Jayewardenepura* 2001; **July**: 15
58. Samarasinghe I, Chandrika UG Jansz ER. Some studies on the carotenoids and flabelliferins of Palmyrah fruit pulp. *Proceedings of the 57th Annual Session, Sri Lanka Association for the advancement of Science*. 2001; Part **I**: 253.
59. Sumuduni KAV, Jansz ER, Jayasekara S, Wickramasinghe SMDN. Reducing the Neurotoxic effects of palmyrah flour. *Proceedings of the Seminar on Palmyrah Research & Development Colombo* 2001; **November**: 22.
60. Samarasinghe I, Jansz ER. Studies on the carotenoids and flabelliferins of palmyrah fruit pulp. *Proceedings of the seminar on palmyrah Research & Development Colombo* 2001; **November**: 17.
61. Samarasinghe I, Jansz ER, Abeysekara AM. Enzymatic hydrolysis of purified flabelliferins. *Chemistry in Sri Lanka* 2001; **18**: 30.
62. Samarasinghe I, Ariyasena DD, Wickramasekara NT, Jansz ER. Separating the fluorescent compound binding the flabelliferins. *Proceedings of the 05th Annual Academic Sessions, Faculty of Medical Sciences, University of Sri Jayewardenepura* 2001; 20.
63. Wickramaarachchi WAHR, Peiris H, Sivayogan S, Perera MSA. The study on selected factors influencing the Serum lipid profile among catchment population served by the family practice center of the University of Sri Jayewardenepura. *Proceedings of the 05th Annual Academic Sessions, Faculty of Medical Sciences, University of Sri Jayewardenepura* 2001; 07.
64. Wickramasekara NT, Jansz ER. Attempt to isolate the neurotoxic principle of palmyrah flour. *Proceedings of the 05th Annual Academic Sessions, Faculty of Medical Sciences, University of Sri Jayewardenepura* 2001; 10.
65. Wickramasinghe I, Seneviratne CK. The influence of black tea on cholesterol. *Proceedings of the 56th Annual Session, Sri Lanka Association for the Advancement of Science* 2001; **Part I**: 7.

2002

66. Ariyasena DD, Jansz ER, Janssen PE, Baeckstrom P. Structural elucidation of the antimicrobial flabelliferin from palmyrah (*Borassus flabellifer* L.) fruit pulp. *Chemistry in Sri Lanka* 2002; **19**: 13-14.
67. Chandrika UG, Fernando WS, Wickramasinghe SMDN, Wedage WS. Antidiabetic and antioxidant activities of Jak (*Artocarpus heterophyllus*) leaves. *Proceedings of the 58th Annual Sessions, Sri Lanka Association for the Advancement of Science* 2002; **58(1)**: 249.
68. Chandrika UG, Fernando WS, Wickramasinghe SMDN, Wedage WS. Effects of Proanthocyanidin and Flavonoid fractions from hot water extract of Jak leaves (*Artocarpus heterophyllus*) on the blood glucose levels in healthy, male Wistar rats. *Chemistry in Sri Lanka* 2002; **19 (2)**: 10.
69. Chandrika UG, Jansz ER, Uduwaluge I. Preliminary bioavailability trials of carotenoids from palmyrah (*Borassus flabellifer* L.) fruit pulp in healthy, male Wistar rats. *Chemistry in Sri Lanka* 2002; **19 (2)**: 19-20.
70. Ekanayake S, Nair BM, Jansz ER. Change in enthalpy and degree of starch gelatinization of processed *Canavalia gladiata* seeds. *Chemistry in Sri Lanka* 2002; **19(2)**: 20-21.
71. Ekanayake S, Chandrika UG. Hypochlesterolaemic and antioxidant activity of palmyrah (*Borassus flabellifer* L.) fruit. *Proceedings of the 58th Annual Sessions, Sri Lanka Association for the Advancement of Science* 2002; **Part I**: 4.
72. Iddamaldeniya SS, Wickraamsinghe SMDN, Thabrew MI, Ratnatunge N, Thammitiyagodage MG, Jayathilake N, Ramadasa SS. Inhibition of chemically inducible glutathione S-transferase placental form (GST-P) by plant extracts. *Proceedings of the Annual Academic Sessions, The College of Pathologists of Sri Lanka* 2002; **August**.
73. Iddamaldeniya SS, Wickramasinghe SMDN, Thabrew MI, Ratnatunge N, Thammitiyagodage MG, Jayathilake N. Protection against diethylnitrosamine (DEN)-induced hepatocarcinogenesis by an indigenous medicine comprised of *Nigella sativa*, *Hemidesmus indicus* and *Smilax glabra*. *World Ayurveda Congress Kochi, Kerala, India* 2002; **November**: 1-4.

74. Jayasinghe BS, Jayawardene MIFP, Pathiratne KAS. Determination of zinc levels in milk using Flame Atomic Absorption Spectrometry. *Proceedings of the 04th Research Sessions, Faculty of Graduate Studies, University of Sri Jayewardenepura* 2002; 41.
75. Jayasinghe BS, Jayawardene MIFP, Pathiratne KAS. Effect of $Mg(NO_3)_2$, $Pd(NO_3)_2$ and HNO_3 as chemical modifiers for determination of Chromium by ETAAS. *Proceedings of the 04th Research Sessions, Faculty of Graduate Studies, University of Sri Jayewardenepura* 2002; 44.
76. Jayasinghe BS, Jayawardene MIFP, Pathiratne KAS. Quantification of total chromium and hexavalent chromium in water by Electrothermal Atomic Absorption Spectrometry. *Proceedings of the 08th Annual Forestry & Environmental Symposium, University of Sri Jayewardenepura* 2002; 52.
77. Jayawardene MIFP, Pathiratne KAS, Kumari SRT and Jayaratne SD. Is there a correlation of serum Zinc level with fasting blood sugar value in diabetics and normal subjects? *Proceedings of the 58th Annual session, Sri Lanka Association for the Advancement of Science* 2002; **Part I**: 18.
78. Malalavidhane TS, Wickramasinghe SMDN, Jansz ER. Preliminary studies on the identity of the oral hypoglycaemic agent(s) of *Ipomoea aquatica* Forsk by medium pressure liquid chromatography (MPLC) and enzyme hydrolysis. *Chemistry in Sri Lanka* 2002; **19 (2)**: 19.
79. Sumuduni KAV, Jansz ER, Jayesekara S, Wickramasinghe SMDN. Factors affecting the neurotoxic effects of palmyrah flour. *Chemistry in Sri Lanka* 2002; **19**: 18.

2003

80. Chandrika UG, Jansz ER, Wickramasinghe SMDN, Warnasuriya ND. Carotenoid composition of ripe jakfruits (*Artocarpus heterophyllus*). *Chemistry in Sri Lanka* 2003; **20 (2)**: 8.
81. Chandrika UG, Jansz ER, Wickramasinghe SMDN, Warnasuriya ND. Studies on bioavailability and bioconversion of papaya (*Carica papaya*) carotenoids. *Report of the XXI International Vitamin A Consultative Group Meeting, Morocco* 2003; **February**: 68

82. Ekanayake S, Jayasekara S, Thammitiyagoda M, Kumara WGG. A Study of the estrous cycle and pregnancy of ICR mice: Bred and maintained at the MRI. *Proceedings of the 04th Research sessions, Faculty of Graduate Studies, University of Sri Jayewardenepura 2003*; (Poster).
83. Ekanayake S, Jayasinghe PS. Fermented food products of Sri Lanka and Maldives. *Proceedings of the 01st International Seminar and Workshop on Fermented Foods, Health Status and Social Well-being. Anand, India 2003*; **November: 4-6.**
84. Ekanayake S, Nair BM, Jansz ER. Effect of processing on the properties of starch of sword beans. *Proceeding of the 02nd Annual Conference on Starch Update 2003, BioThailand 2003, Pattaya, Thailand 2003*; 85-9.
85. Jayasinghe BS, Jayawardene MIFP, Pathiratne KAS. Quantification of total chromium and hexavalent chromium in water by Electrothermal Atomic Absorption Spectrometry. *Proceedings of the 08th International Conference on Environmental Science and Technology, Lemons Island, Greece 2003*; **B: 325-331.**
86. Jayasinghe S, Atapattu PL, De Silva AP, Mathana KS, Jansz ER. Manioc leaves: A potential goitrogen in Monaragala District? *Proceedings of the Sri Lanka Medical Association. 2003*; 32.
87. Jayasinghe P, Ekanayake S. Cured and Fermented Fishery products of Sri Lanka. *Proceedings of the International Seminar and Workshop on Fermented Foods, Health Status and Social Well-being, Anand, India 2003*; **November: 7 - 9.**
88. Jayasinghe P, Ekanayake S, Chandimal G. Evaluation of quality and shelf life of *jaadi* from Indian mackerel (*Rastrelliger kanagurata*). *Chemistry in Sri Lanka 2003*; 20 (2): 15-16.
89. Malalavidhane TS, Wickramasinghe SMDN Jansz ER. Preliminary studies on the identity of the oral hypoglycaemic agent(s) of *Ipomoea aquatica* Forsk. *Proceedings of the 04th Research Sessions, Faculty of Graduate Studies, University of Sri Jayewardenepura 2003*.
90. Malalavidhane TS, Wickramasinghe SMDN Jansz ER. Intestinal glucose uptake in healthy, male Wistar rats following the administration of an extract of *Ipomoea aquatica*. *Proceedings of Annual Academic Sessions, Faculty of Graduate Studies, University of Kelaniya 2003*.

91. Malalavidhane TS. Oral hypoglycaemic activity of *Ipomoea aquatica* and its active constituents. *Chemistry in Sri Lanka* 2003; **20(2)**: 6.
92. Pathberiya LG, Chandrika UG. Variation of bioactivity of fruit pulp of different cultivars of Palmyrah – Research plan. *Silver Jubilee celebrations of Palmyrah Development Board* 2003, 6-7.
93. Perera PS, Jansz ER, Peiris H. Studies on isolated bacteria producing histamine from histidine. *Proceedings of the 09th Annual Academic Sessions, Faculty of Medical Sciences, University of Sri Jayewardenepura* 2003.
94. Uluwaduge I, Thabrew MI, Jansz ER. Biochemical basis for reduced weight gain of mice fed with 10% palmyrah (*Borassus flabellifer*) fruit pulp. *Proceedings of the 09th Academic Sessions, Faculty of Medical Sciences, University of Sri Jayewardenepura* 2003.
95. Uluwaduge I, Thabrew MI, Jansz ER. Long term and short term toxicity studies on palmyrah (*Borassus flabellifer* L) fruit pulp on mice. *Golden Jubilee Session, Palmyrah Development Board. MRI, Colombo* 2003.
96. Van der Hoeven R, Keerthi AP, Nikawala JK, Jansz ER. Study of Amines of the flour of palmyrah. *Proceedings of the 09th Annual Academic sessions, Faculty of Medical Sciences, University of Sri Jayewardenepura* 2003.
97. Ruvin NKVM, Jayawardene MIFP, Pathirana C. Effect of different extracts from seeds of yellow and green variety of *Pisum Sativum* on glucose homeostasis of diabetic rats. *Global summit on Medicinal Plants Mauritius* 2003; 137.
98. Ruvin NKVM, Jayawardene MIFP. Anti-hyperglycaemic activity of water soluble peptides from seeds of *Pisum sativum* in NIDDM patients. *Global summit on Medicinal Plants Maruitus* 2003; 139.

2004

99. Chandrika UG, Jansz ER. Carotenoid composition of Lavalu (*Chrysophyllum roxbergii*). *Chemistry in Sri Lanka* 2004; **21(2)**: 19.
100. Chandrika UG, Jansz ER. Identification and HPLC quantification of β -carotene and lutein in some green leafy vegetables commonly used in Sri Lanka. *Chemistry in Sri Lanka* 2004; **21(2)**: 20.

101. Chandrika UG, Svanberg U, Jansz ER. Content and in vitro accessibility of beta-carotene cooked green leafy vegetables from Sri Lanka. *Report of the XXII International Vitamin A Consultative Group Meeting, Peru, 2004; November: 63*
102. Chandrika UG, Wedage WS, Wickramasinghe SMDN, Fernando WS. Hypoglycaemic action of the flavonoid fraction of Jak leaves (*Artocarpus heterophyllus*). *Proceedings of the 02nd Global Summit on Medicinal and Aromatic Plants, New Delhi, India 2004; October: 138.*
103. Jayaweera PPM, Chandrika UG, Jansz ER. Computational evidence for the reactive non-electrostatic hydrophobic binding of β -sitosterol with acyclic carotenes. *Chemistry in Sri Lanka 2004; 21(2): 26 - 27.*
104. Madatuwa TMJC, Mahawithanage STC, Chandrika UG, Wickramasinghe AR. Evaluation of the national vitamin A supplementation program in school children in rural areas of Sri Lanka. *Report of the XXII International Vitamin A Consultative Group Meeting, Peru 2004; November: 96.*
105. Mahawithanage STC, Chandrika UG, Wickramasinghe AR, Karunaweera ND. Impact of vitamin A supplementation on health status and absenteeism of school children in Sri Lanka. *Report of the of the XXII International Vitamin A Consultative Group Meeting in Peru 2004; November: 96*
106. Ruvini NKVM, Jayawardane MIFP, Pathirana KAS. Anti-diabetic activity of *Salacia diandra* on glucose homeostasis of diabetic rats. *ICOB-4 and ISCNP-24 IUPAC International Conference on Biodiversity and Natural Products: Chemistry and Medical Applications. New Delhi, India 2004; January: 146-147.*
107. Ruvini NKVM, Jayawardane MIFP, Swarna K, Pathirana C. Effects of albumin fraction and 48kDa protein molecule of *Pisum sativum* on glucose homeostasis of Mild Diabetic (NIDDM) Patients. *Proceedings of the 02nd Global Summit on Medicinal and Aromatic Plants 2004; 22-27*
108. Uluwaduge I, Jansz ER, Thabrew MI. Effect of the bitter flabelliferin and the UV binder of palmyrah fruit pulp on intestinal ATPase activity and glucose uptake in ICR mice. *Chemistry in Sri Lanka 2004; 21: 27-28.*

2005

109. Chandrasiri WAL, Chandrika UG, Chandrasekara HI, Fernando WS. Hypoglycemic activity of an Ayurvedic formulation DM-13 in type 2 Diabetes Mellitus patients. *International Symposium on Herbal Medicine, Phytopharmaceuticals and other natural products: Trends and Advances. Institute of Chemistry Ceylon & NASTEC 2005*; 45
110. Chandrika UG. Content Bioaccessibility, Bioavailability and Bioconversion of carotenoids in some Sri Lankan fruits and green leafy vegetables. *Chemistry in Sri Lanka 2005*; **22(3)**: 15–17.
111. Jayasinghe BS, Jayawardene MIFP, Pathiratne KAS. Comparison of chromium levels of water spinach samples with those of field water samples *Proceeding of the 09th International Conference on Environmental Science and Technology, Rhodes Island, Greece 2005*; B363-B368.
112. Jayawardane I, Senanayake SMUS, Seneviratne WRNK, Seneviratne HMABI, Perera APK, Peiris D. Awareness of mother on childhood obesity and factors associated. *02nd Information Technology for the Advancement of Nutrition in Africa Conference (ITANA), Cape Town 2005*; 54.
113. Jayaweera PM, Chandrika UG, Jansz ER. Computational evidence for the reversible non-electrostatic binding of β sitosterol with acyclic carotenoids *Chemistry in Sri Lanka 2005*; **22(1)**: 15–17.
114. Keerthi AAP, Senadheera SN, Jansz ER, Ekanayake S. Preliminary studies on the mechanism of anti-microbial activity of flabelliferins on *E-coli* type ATCC 25922. *Proceedings of the 05th Research Sessions, Faculty of Graduate Studies, University of Sri Jayewardenepura 2004*; 30.
115. Pathberiya LG. Studies on flabelliferins and dietary fibre of palmyrah fruit pulp *vis-à-vis* its hypocholesterolaemic effect. *Chemistry in Sri Lanka 2005*; **22(3)**: 19-22.
116. Pathberiya LG, Jansz ER. Studies on the hypocholesterolaemic effect on mice by palmyrah fruit pulp. *Proceedings of the 05th Research Sessions, Faculty of Graduate Studies, University of Sri Jayewardenepura. 2005*; **January**: 28.
117. Premasiri A, Ekanayake S. Oxalic acid content of commonly consumed green leafy vegetables of Sri Lanka. *Proceedings of the 61st Annual Session, Sri Lanka Association for the Advancement of Science 2005*; **Part I**: 1.

118. Priyadharshani AMB, Chandrika UG, Jansz ER. Carotenoid content of different pumpkin (*Cucurbita maxima*) varieties found in Sri Lanka, *International symposium on herbal medicine, phytochemicals and other natural products – trends and advances I. Chem C & NASTEC 2005*; 43.
119. Priyadharshani AMB, Chandrika UG, Jansz ER. *In-vitro* accessibility of pro vitamin A carotenoids from cooked carrot (*Daucus carota*) and estimated contribution to vitamin A requirement *Chemistry in Sri Lanka 2005*; **22(3)**: 27.
120. Ruvin Kumara NKVM., Jayawardane MIFP. Anti-Diabetic Activity of Different Fractions of Raw *Carica Papaya* Fruit in Diabetic Rats. *02nd international conference on Functional Foods for the Prevention and Treatment of Chronic Diseases Texas USA. 2005*.
121. Ruvin Kumara, NKVM., Jayawardane MIFP. Seeds of *Dolichos biflorus* as a Functional Food in Controlling Glucose Homeostasis of Diabetic Rats. ILSI's 01st International Conference on Nutrigenomics –Opportunities in Asia Singapore 2005.
122. Ubhaysekara SJKA, Jayasinghe P, Ekanayake S, Dutta PC. Changes in fatty acid composition and cholesterol content of *jaadi* made from Indian Mackerel (*Rastreliger kanagurata*) during curing. *Proceedings of 02nd International Conference on Fermented Foods, Health Status and Social Well-being, Anand, India. 2005*; 16-18.
123. Uluwaduge I, Jansz ER, Thabrew MI. Studies on the carotenoid binder of flabelliferins of palmyrah fruit pulp. *Chemistry in Sri Lanka 2005*; **22(2)**: 17.
124. Uluwaduge I, Perera MSA, Jansz ER Thabrew MI. The effect of a dried palmyrah fruit pulp preparation (pinnatu) on intestinal glucose uptake in mild diabetic patients. *Proceedings of the 05th Research Sessions, Faculty of Graduate Studies, University of Sri Jayewardenepura 2005*; 29.
125. Widanagamage RD, Ekanayake S. Investigation of possible hypoglycaemic activity of *Canthium coromandelicum* (Kara) leaf extract on normoglycaemic Wistar rats. *Proceedings of the 61st Annual Session, Sri Lanka Association for the Advancement of Science 2005*; **Part I: 2-3**.
126. Weerasekara DBCR, Mahawithanage STC, Chandrika UG. A preliminary study on zinc status and selected pregnancy outcomes of early pregnant mothers. *Proceedings of the 03rd Symposium on Food and Nutrition, Wayamba University, Sri Lanka 2005*; **3**: 9.

Postgraduate Degrees

Name	Degree	Year
1. S. Ekanayake	MPhil	1999
2. J. K. Nikawala	MPhil	2000
3. M. D. P. Samaranayake	MPhil	2001
4. T. S. Malalavidhane	PhD	2002
5. D. D. Ariyasena	MPhil	2002
6. K. A. V. Sumudini	MPhil	2002
7. V. M. Thadani	MPhil	2002
8. S. S. Iddamaldeniya	MPhil	2003
9. U. G. Chandrika	PhD	2004
10. P. S. Perera	MPhil	2004
11. D. I. Uluwaduge	PhD	2005
12. S. Jayaratne	MPhil	2005
13. L. G. Pathberiya	MPhil	2005

Awards

Prof. E. R. Jansz

1. **Balasubramanium Gold Medal** for research awarded by the Jaffna Science Association .
2. **Palmyrah Shield** for the Research on Palmyrah, awarded by the Palmyrah Development Board.

Dr. M. I. F. P. Jayawardene

3. **Award for the best IT/Nutrition poster**, presented at the Information Technology for the Advancement of Nutrition in Africa Conference (ITANA), Cape Town, 2005 (with SMUS Senanayake, WRNK Seneviratne, HMABI Seneviratne, APK Perera and D Peiris).

Dr. U. G. Chandrika

4. **Prof. M U S Sulthanbawa award (2004)**, for the best research paper presented at the Annual Session, Institute of Chemistry, Ceylon (with Dr. P.P.M. Jayaweera and Prof. E. R. Jansz).
5. **Kandiah Memorial award I (2005)**, for the best piece of research in Chemistry carried out by postgraduate student working in a higher educational institution.

Dr. S. Ekanayake

6. **Second Best Oral Presentation**, for research paper presented at Starch Update 2003, BioThailand Pattaya, Thailand, 2003.

Dr. T. S. Malalavidhane

7. **Prof. M U S Sulthanbawa award (2000)**, for the best research paper presented at the Annual Sessions, Institute of Chemistry, Ceylon (With Prof. SMDN Wickramasinghe and Prof. ER Jansz)
8. **Post-graduate Publication Award- Section A (2001)**, for the best research paper presented at the annual scientific sessions – Sri Lanka Association for the Advancement of Science.
9. **Kandiah Memorial award I (2003)**, for the best piece of research in Chemistry carried out by a postgraduate student working in a higher educational institution

Ms. V. M. Thadhani

11. **Kandiah Memorial award I (2002)**, for the best piece of research in Chemistry carried out by postgraduate student working in a higher educational institution.

Ms. L. G. Pathberiya.

10. **Kandiah Memorial Graduateship Award (2005)**, for the best research carried out by a GIC student.

Research Grants

Prof. E.R. Jansz

- | | |
|---|--|
| 1. International program for Chemical Sciences
Grant Sri: 07 1995-2005 | SEK 2,200,000.00
(Rs.25-30 Million) |
| 2. NARESA RG/95/C/13 | Rs. 797,500.00 |
| 3. University Research Grant ASP/4/95/3 | Rs. 75,000.00 |
| 4. University Research Grant ASP/6/99/13 | Rs. 90,000.00 |
| 5. NSF Grant RG/99/C/03 | Rs. 193,000.00 |
| 6. NSF Grant RG/2004/C/06 | Rs. 136,000.00 |
| 7. NSF Grant RG/2004/M/02 | Rs. 125,000.00 |
| 8. PDB Grant-2000 | Rs. 100,000.00 |

Prof. H. Peiris

- | | |
|---|----------------|
| 9. University Research Grant
ASP/6/RE/2005/12 | Rs. 224,000.00 |
| 10. University Research Grant
ASP/6/RE/2002/07 | Rs 115,000.00 |
| 11. University Research Grant
ASP/6/RE/1999/14 | Rs. 170,000.00 |
| 12. NSF Grant RG/95/M/12 | Rs 232,000.00 |
| 13. NSF Grant RG/99/M/6 | Rs. 240,000.00 |

Prof. S.M.D.N. Wickramasinghe

- | | |
|----------------------------|----------------|
| 14. NSF Grant RG/2000/M/01 | Rs. 350,000.00 |
|----------------------------|----------------|

Dr. I. Jayewardene

- | | |
|--|----------------|
| 15. University Research Grant
ASP/6/RE/1998/02 | Rs. 89,900.00 |
| 16. University Grants Commission Grant
Ac/3/Hiran | Rs. 260,000.00 |
| 17. University Research Grant
ASP/6/RE/2001/13 | Rs. 299,000.00 |
| 18. American Remedies Grant
AMREC -01 | Rs. 249,000.00 |
| 19. NSF Grant RG/2005/HS/10 | Rs. 400,000.00 |
| 20. SIDA | US\$ 500.00 |
| 21. IDRC Grant | Rs. 198,000.00 |

Dr. U.G. Chandrika

22. University Research Grant ASP/6/RE/2000/13	Rs. 245,000.00
23. University Research Grant ASP/6/RE/2004/14	Rs. 175,000.00
24. International Foundation for Science (Sweden) Grant No E/3655-1	Rs.1,000,000.00
25. NRC Grant 2005: No.05-36	Rs.6,394,000.00

Dr. Sagarika Ekanayake

26. University Research Grant ASP/6/PR/2000/16	Rs. 237,000.00
27. NRC Grant No.00-33	Rs. 739,000.00
28. University Research Grant ASP/6/PR/2004/07	Rs. 175,000.00
29. NSF Grant RG/2005/AG/10	Rs 1,758,260.00
30. NRC Grant 05-03	Rs.1,110,000.00
31. International Foundation for Science (Sweden) Grant E/3941/1	Rs.1,193,400.00

Ms. L.V. Athiththan

32. NSF Grant Scholarship 2004/03	Rs. 100,000.00
-----------------------------------	----------------

* Editorial Committee apologizes for incompleteness of data regarding publications, communications, conferences etc. particularly of staff members who have resigned from the Department.

Department of Biochemistry - Staff Members 2006



Seated Left to Right: Ms. L. V. Athiththan, Ms. U. P. K. Hettiaratchi, Dr. S. Ekanayake, Prof. E. R. Jansz, Dr. M. I. F. P. Jayawardane (Head), Prof. H. Peiris, Dr. U. G. Chandrika, Dr. T.S. Malalavidhane, Dr. P. P. R. Perera.

Standing Left to Right: Ms. M.N.A.Karunanayake, Ms. I.K.Athukorala, Mr. G.W.Gnanasena, Mr. Nalaka Ileperuma, Mr.W.M.Muthubanda, Ms. M.D.C.R. Gunawardena, Mr. G.K.Gamini.

Absent: Mr. D.M.G. Jayaweera Bandara, Mr. K.L. Amarasena.

ACKNOWLEDGEMENTS

The Editorial Committee gratefully acknowledges the following for their assistance without which research in the Department and this booklet would not have been a success.

1. University Grants Commission grant No; RPC/2005/2iv/05/CMB.
2. All the Departmental staff who contributed to research work in many ways.
3. Co-authors of publications, communications and posters.
4. All patrons of bodies who awarded research grants to the Department.
5. The University for providing the infrastructure to conduct research work in the Department.
6. Tharanjee Printers for a job well done.