

PUBLICATIONS

Professeur Anwar Hussein SUBRATTY

Scientific Research Interests:

1. ***Role of biochemical & nutritional biomarkers associated with diseases/Congestive heart failure/diabetes/hypertension***
2. ***Environmental health-Biomarkers associated with indoor air pollution/effects on health/asthma & allergy.***
3. ***Ethnovalidation of anti-diabetic, antihypertensive and antimicrobial properties of medicinal plants of Mauritius.***

Current research theme: Potassium channels and insulin release.

SCIENTIFIC PUBLICATIONS IN PEER-REVIEWED JOURNALS:

1. Baligadoo, S.J., Subratty, H., Manraz, M., Tarral, A., Maiti, D., and Murday, M. (1991) Effects of enoximone on quality of life. *International Journal of Cardiology* 529-531.
2. Subratty, A.H., Kok Shun, L.H., Lee Kwai Yan, M., et al. (1993) Increased serum TAME-esterase activity during bronchial hyper-responsiveness of the airways. *Current Allergy* 5 (3),11.
3. Subratty, A.H.(1993) Assessment of dyspnoea with reference to heart failure and bronchial asthma. *Ph.D. thesis.*
4. Subratty, A.H., Kok-Shun N. (1993) Increased blood TAME-esterase activity during exercise-induced asthma. *British Journal of Biomedical Science* 50,13 -16.
5. Subratty, A.H., Kok Shun, L.H., et al. (1993) Increased serum TAME-esterase activity during bronchial hyper-responsiveness to a histamine provocation challenge. *Current Allergy* 6, 49 -15.
6. Subratty, A.H., Manraj, M., Baligadoo, S. (1994) A new visual analogue scale for assessment of dyspnoea in congestive heart failure. *International Journal of Clinical Pharmacology and Therapeutics* 32(5), 259-261.

7. Subratty, A.H., Lee Kwai Yan, Y., Kok-Shun, L.H., et al. (1994) TAME-esterase activity during a prolonged attack of asthma. *International Journal of Clinical Pharmacology and Therapeutics* **32**(11) 598-599.
8. Subratty, A.H., Kok-Shun, L.H., Lee Kwai Yan, M., and Fakim, N.(1994) Tosyl Arginine Methyl Ester induces bronchoconstriction in rabbit bronchial tissues in-vitro. A possible new mediator in Asthma. *Annals of Allergy* **73**(3),269-270.
9. Subratty, A.H., Fakim, N., Lee Kwai Yan, M., Kok-Shun, L.H., et al. (1994) Does the Kinin-Kallikrein play a role in bronchial asthma? *Current Allergy and Clinical Immunology* **7**(3),14.
10. Subratty, A.H. (1995) The assessment of dyspnea in bronchial asthma. *International Journal of Clinical Pharmacology and Therapeutics* **33**(7),394-396.
11. Subratty, A.H., Fakim, N. (1995) Major inhalant allergens in Mauritius. *Annals of Allergy, Asthma and Immunology* **74**,489-490.
12. Subratty, A.H. (1996) N-alpha-L-Tosyl Arginine Methyl Ester [TAME]-esterase activity. A new biochemical marker associated with airway hyperreactivity: A Medical Hypothesis. *Current Allergy and Clinical Immunology* **1**, 45.
13. Subratty, A.H., Fakim, N. (1996) Allergenosis Inhalantes Principales Em Mauritius. *Digest Alergia* **1**.
14. Allibaccus, B.R., Ramjeawon, T., Subratty, A.H. (1996) Impact of noise on quality of life around a thermal power station in Mauritius. *Pollution Research* **15**(1),71-74.
15. Mooniaruck, A., Ramjeawon, T., Subratty, A.H. (1996) Air lead and suspended particulate matter in a traffic dense area in Mauritius and blood lead concentration. *Pollution Research* **15**(2),193-197.
16. Subratty, A.H. (1996) Acute pesticides poisoning in workers using and handling pesticides in Mauritius. *Pollution Research* **15**(4),317-320.
17. Subratty, A.H. (1997) Atrial Natriuretic Peptide prevents bronchoconstriction in-vitro. *Indian Journal of Experimental Biology* **35**,197-199.

18. Subratty, A.H. (1997) LDL-cholesterol: Is the calculated value reliable? *Journal of the Egyptian Biochemical Society* **15**(2), 53-60.
19. Fakim, N., Subratty A.H., Manraj, M., Surrin, S.K., Hoolooman, N.K. (1997) Asthma mortality in Mauritius 1982-1991. *Annals of Allergy, Asthma and Immunology* **79**(5),423-426.
20. Subratty, A.H., Domah, D.(1997) Bioaccumulation of lead in blood of factory workers previously exposed to a lead working environment in Mauritius. *Pollution Research* **16**(3),139-142.
21. Subratty, A.H., Moonsamy J. (1998) Is TAME a potent constrictor of non-airway smooth muscles? *Indian Journal of Experimental Biology* **36**,618-621.
22. Subratty, A. H., Hooloman N.K.(1998) Role of circulating inflammatory cytokines in patients with bronchial asthma. *Indian Journal of Chest Diseases and Allied Sciences* **40**,17-21
23. Subratty, A.H., Burukuth, S., Reesaul, C. (1998) Biological monitoring of pesticides exposure in agricultural workers in Mauritius. *Pollution Research* **17**(4),295-301.
24. Subratty, A.H., Hossany, R.(1999) Does TAME induced contraction involve an endothelium nitric oxide-cyclic GMP mediated pathway? *Indian Journal Experimental Biology* **37**,406-408. (Highly scored by Medline).
25. Bholah, R., Fagoonee I., Subratty, A.H. (1999) Sex distribution and Sick Building Syndrome in Mauritius. *Pollution Research* **18**(3), 207-210.
26. Subratty, A.H., Beerbaul, M. (1999) Is fibrinogen a reliable haemostatic marker for monitoring possible risks of thromboembolic events in smokers? *University of Mauritius Research Journal (Science & Technology)***3**,103-108.
27. Jhaumeer-Laulloo, S., Subratty A.H. (1999) Analysis of urinary calculi in Mauritius. *University of Mauritius Research Journal (Science & Technology)***3**,87-93.
28. Subratty, A.H. (1999) Plasma atrial natriuretic peptide as a non-invasive biochemical marker of dyspnoea in congestive heart failure patients. *University of Mauritius Research Journal (Science & Technology)* **3**,95-102.
29. Pedersen, Ole, Gurib-Fakim, A., Subratty, H., Adersen,A.(1999) The

- in-vitro pharmacological properties of seven medicinal plants of the Rubiaceae family from Mauritius. *Pharmaceutical Biology* **37**(3),202-207.
30. Pugo-Gunsam, P., Guesnet, P., Subratty, A.H., Rajcoomar, A., Maurage, C., Couet, C. (1999) Fatty acid composition of white adipose tissue and breastfed milk of Mauritian and French mothers and erythrocyte phospholipids of their full-term breastfed infants. *British Nutrition Journal* **82**,263-271.
 31. Subratty, A.H., Mooradun, A., Jowaheer, V. (2000) [TAME]-esterase - A new cardiovascular risk factor in smokers. *Indian Journal of Experimental Biology* **38**,610- 612.
 32. Subratty, A.H., Haamedi, N., Djamgoz, M.B.A. (2000) Effects of Genestein, a tyrosine kinase inhibitor, on light adaptive cellular and synaptic plasticity in the outer retina of a teleost fish (carp). *University of Mauritius Research Journal (Science & Technology)* **5**,53-63.
 33. Bholah, R., Fagoonee, I., Subratty, A.H. (2000) Sick Building Syndrome in Mauritius: are symptoms associated with the office environment? *Indoor + Built Environment* **9**,44-51.
 34. Joomun, S., Subratty, A.H. (2000) The street food culture in Mauritius: A case study from an urban area. *Pollution Research* **19**:(4),501-504.
 35. Bholah, R., Subratty, A.H., (2000) Prevalence of respiratory symptoms and irritative symptoms among office buildings occupants in Mauritius. *Asian Journal of Microbiology, Biotechnology & Environmental Sciences* **2**:(4), 99-104.
 36. Emmambux, S., Benidin, M., Subratty, A.H. (2000) Compilation of a Mauritian food composition database for Selenium. *Indian Biologist* **33** (1), 27-32.
 37. Lutchman, M., Reesaul, C., Subratty, A.H. (2001) Markers of inflammation and rheumatoid arthritis disease activity in a Mauritian population: a laboratory study. *University of Mauritius Research Journal (Science & Technology)* **8**,119-126.
 38. Subratty, A.H., Jowaheer, V. (2001) Consumption patterns of fruits in Mauritius. *Nutrition and Food Science Journal* **31**(3),125-129.

39. Ramtohul, Z., Subratty A.H. (2001) Apolipoprotein-beta as an early predictor of macrovascular disease in non-insulin dependent diabetics in Mauritius. *Indian Biologist* **33**(1), 9-15.
40. Bedadun, S., Subratty, A.H. (2001) Plasma cardiolipin in postmenopausal women in Mauritius. *African Journal of Reproductive Health* **5**(2):135-138.
41. Gurib, F.B.H., Subratty, A.H. (2001) Experimental evidence for a non-renin mediated pathway during [TAME]-esterase induced contraction in rat aorta in vitro. *Indian Journal of Experimental Biology* **39**, 929-932.
42. Gurib, F.B.H., Subratty, A.H. (2001) Calcium antagonists improve N-alpha-tosyl L- arginine methyl ester [TAME]-esterase blunted endothelium relaxation. *Indian Journal of Pharmacology* **33**,384-385.
43. Gurib, F.B.H., Subratty, A.H. (2001) Involvement of kinin kallikrein and prostaglandin in TAME-esterase induced contractions of rat aorta in-vitro. *University of Mauritius Research Journal (Science & Technology)* **9**,159-165.
44. Bholah, R., Subratty A.H. (2001) Airborne fungal colony forming units and symptoms of sick building syndrome in indoor office environment in Mauritius. *Pollution Research* **20**(4),495-499.
45. Goinden, S., Pugo-Gunsam,P., Subratty, A.H. (2001) Trace elements (Zn & Cu) and plasma proteins status in Mauritian pregnant women. *University of Mauritius Research Journal (Science & Technology)* **9**,59-168.
46. Subratty, A.H. (2001) Focus on a new visual analogue scale for the assessment of dyspnoea in bronchial asthma and congestive heart failure patients. *Indian Biologist* **33**(1),7-9.
47. Subratty, A.H.,Gurib, F.B.H. (2001) Endothelium dysfunction during TAME-esterase induced contraction in rat aorta in-vitro. *Indian Biologist* **33** (2),17-19.
48. Subratty, A.H., Neptune, J., Lan Cheong Wah, M.F.(2001). Sick building syndrome in domestic interiors in Mauritius. *Asian Journal of Microbiology, Biotechnology and Environmental Sciences* **3**(4),243-248.
49. Bholah, R., Subratty, A.H. (2002) Indoor biological contaminants and symptoms of sick building syndrome in office buildings in Mauritius. *International Journal of Environmental Health Research* **12** (1),93-98.

50. Gurib, F.B.H., Subratty, A.H. (2002) Vitamin C prevents endothelial dysfunction during N- ω -tosyl L-arginine methyl ester TAME-esterase induced contractions in rat aorta in-vitro. *Indian Journal of Experimental Biology* **40**, 617-619.
52. Subratty, A.H., Lan Cheong Wah, M.F., Ujoodha V. (2002) Handling practices of fresh fish in Mauritius. *Ecology, Environment and Conservation* **8** (3), 105-106.
53. Bolah, H., Subratty, A.H. (2002) Macrominerals deficiencies among pregnant Mauritian women. *University of Mauritius Research Journal (Science & Technology)* **9**,139-148..
54. Subratty, A.H., Heesambee, Y.B., Jowaheer, V., Doreemiah, N. (2002) Nutritional knowledge of a heart healthy diet among health care professionals and cardiac patients in Mauritius. *Nutrition and Food Science Journal* **32(5)**,184-189.
55. ******Subratty, A.H., Imrit S., Jowaheer, V.(2002) A web based survey on adolescents' perceptions of food. *Nutrition and Food Science Journal* **32(6)**,210-213.
56. Gurib, F.B.H., Subratty,A.H. (2002) Effects of genestein, a tyrosine kinase inhibitor on TAME-esterase contractions in rat aorta in-vitro. *Indian Journal of Experimental Biology* **40**,1191-1194.
57. Jowaheer, V.,Subratty, A.H. (2003) Multiple logistic regression modeling substantiates multifactor contributions associated with sick building syndrome in residential interiors in Mauritius. *International Journal of Environmental Health Research* **13**,73-82.
58. Gurib, F.B.H., Subratty, A.H. (2003) Effects of aspirin on N-alpha L-arginine methyl ester TAME-esterase contractions in rat aorta in-vitro. *Fundamental & Clinical Pharmacology* **17(1)**:71-75.
59. Bholah, R., Subratty, A.H. (2003) Humid building in Mauritius. *Indoor + Built Environment* 1-5.

**** Highly Commended Award winning paper from Literati Club Awards for Excellence, Emerald,2003**

60. Kassean, H.K., Lan Cheong Wah, M.F., Subratty, A.H. (2004) Restructuring Nursing Education in Mauritius: A Need For Distance Education. *Africa Journal of Nursing and Midwifery* **6(1)**:39-41.
61. Subratty, A.H., Peerbaccus, Y.(2003) Thyroid status among pregnant Mauritian women. *Nutrition and Food Science Journal* **33(3)**:105-110.

62. Subratty, A.H., Gurib, F.B.H.(2003) Consumers concern about meat and meat products quality offered for sale in Mauritius.
Nutrition and Food Science Journal **33**(2):80-83.
63. Subratty, A.H., Peeroo, K., Jowaheer, V., Lan Cheong Wah, M.F., Mohungoo, A.R. (2003). Quality of life in end stage renal failure patients undergoing dialysis in Mauritius.
University of Mauritius Journal (Science & Technology)- (accepted)
64. Subratty, A.H., Chan Sun, M., Kassean, H.K. (2003). A need for healthy canteens in secondary schools in Mauritius. *Nutrition & Food Science* **33**(5):208-212.
65. Subratty, A.H., Beeharry, D.S.D., Jowaheer, V., Gurib, F. B. H., Fakira-Jhurry, A. (2003). Increased N- -tosyl L—arginine methyl ester [TAME]-esterase activity in subjects with diabetic dyslipidaemia. *University of Mauritius Research Journal (Science & Technology)* 10:143-148
66. Subratty, A H., Beeharry, P., Chan Sun, M.F.(2003). A survey on hygiene practices among street food vendors in Mauritius.
Nutrition and Food Science Journal 34 **(5)**:203-205.
67. Subratty, A.H., Anathallee, Y., Jowaheer, V., Lan Cheong Wah, M.F. (2003). Quality of life in patients with Type II Diabetes in Mauritius.
Diabetes and Primary Care **5** (3): 193-186.
68. Kassean, H.K., Lan Cheong Wah, M.F., Subratty, A.H. (2003). A strategy for curriculum Development and Specialization in Nursing in Mauritius.
Public Health Medicine **5** (1): 5-8.
69. Gurib, F.B.H., Subratty, A.H. (2003). Homocysteine potentiates esterase-induced contractions on rat aorta in-vitro: a risk for atherosclerosis.
Journal of Cell and Molecular Biology **(2)**: 79-83.
70. Subratty, A. H. (2003). A kinetic model for in-vitro intestinal uptake of the amino acid L-tyrosine across rat everted gut sacs.
Discovery & Innovation **15** (1/2).
71. Narod, F.B., Gurib-Fakim, A., Subratty, A.H.(2003). Flavonoids from endemic *Sideroxylon* species (Sapotaceae) of Mauritius.
Journal of Chemistry and Environment Sept issue **7**(3):53-59.
72. Chan Sun, M., Subratty, A.H., Moothy, R. (2003). Nurses' perceptions of the management of non-insulin dependent diabetes patients in Mauritius: A case study in a regional hospital.

Africa Journal of Nursing and Midwifery **5** (2)-12-16.

73. Sumokhee, B., Subratty, A.H. (2004) Perceptions of diabetes among adolescents suffering from Type I diabetes in Mauritius. *Africa Journal of Nursing and Midwifery* **5** (2)-12-14.
74. Subratty, A. H., Seebhujhun, A, P., Khadaroo, N., Fakira-Jhurry, A., Reesaul, C., Gunny, F. B. H. (2004). Legumes and grains are important sources of Selenium in the Mauritian Vegetarian diet. *Nutrition and Food Science Journal* **34**(1): 20-25.
75. Subratty, A H., Cheekoory, R., Fakira-Jhurry, A. (2004). A need for effective health education programme for diabetic patients in Mauritius. *Nutrition and Food Science Journal* **34**(3): 113-115.
76. Chan Sun, M.F., Kissoon, M., Sonoo, J., Subratty, A.H. (2004). Prevalence of HLA-B27 among donors and recipients for renal and bone marrow transplantation in Mauritius. *British Journal of Biomedical Science* **60**(4):211-212.
77. Narod, B.F., Gurib-Fakim, A., Subratty, A.H. (2004). Biological investigations into *Antidesma madagascariense* Lam. (Euphorbiaceae), *Faujasiopsis flexuosa* (Lam.) C.Jeffrey (Asteraceae), *Toddalia asiatica* (L.) Lam. and *Vepris lanceolata* (Lam.) G. Don (Rutaceae). *Journal of Cell and Molecular Biology* **7**(3):15-21.
78. Mahomodally, M.F., Gurib-Fakim, A., Subratty, A.H. (2004). A kinetic model for *in-vitro* intestinal uptake of *L*-tyrosine and D (+) glucose across rat everted gut sacs in the presence of *Momordica charantia*, a medicinal plant used in traditional medicine against diabetes. *Journal of Cell and Molecular Biology* **3**: 39-44.
79. Mahomodally, M.F., Gurib-Fakim, A., Subratty, A.H. (2004). *Momordica charantia* extracts inhibit uptake of monosaccharide and amino acid across rat everted gut sacs *in-vitro*. *Biological and Pharmaceutical Bulletin* **27**(2):216-8.
80. Subratty, A.H., Gurib-Fakim, A., Mahomodally, M.F. (2004). Bitter melon : an exotic fruit with medicinal properties. *Nutrition and Food Science* **34/5**:143-147.
81. Narod, B.F., Gurib-Fakim, A., Subratty, A.H. (2004). Phytochemical analysis of selected endemic plants of Mauritius and Rodrigues. *Research Journal of Chemistry and Environment* **8** (1):47-55.
82. Gurib-Fakim, A., Subratty H., Narod, F., Govinden-Soulange, J.,

- Mahomoodally, F. (2004). Biological activity from indigenous medicinal plants of Mauritius". *International Union of Pure and Applied Chemistry Journal (IUPAC)*. 77: 41-51.
83. Subratty, A.H., Gunny, F.B.H. (2004). Aprotinin suppresses ACE inhibitor cough triggered by TAME-esterase. *Medical Hypotheses* **63** (4), 662-666.
 84. Chan Sun, M.F., Kisson, M., Sonoo, J., Kotea, N., Subratty, A.H. (2004). Clinical findings in rheumatic disorders in Mauritius. *University of Mauritius Journal*.
 85. Subratty, A.H., Nathire Hased, M.E. (2005). A survey on home generated medical waste in Mauritius. *International Journal of Environmental Health Research* Volume 15 (1):45-52.
 86. Subratty, A.H., Korumthalee, F. (2005). Occupational Overuse Syndrome among Keyboard workers in Mauritius. *Indian Journal of Occupational and Environmental Medicine* 9(2):71-75.
 87. Mahomoodally, M.F, Gurib-Fakim, A. and Subratty, A.H..(2005). Experimental evidence for *in vitro* fluid transport in the presence of a traditional medicinal fruit extract across rat everted intestinal sacs. *Fundamental and Clinical Pharmacology*. 19: 87-92.
 88. Mahomoodally, M.F, Gurib-Fakim, A., Subratty, A.H. (2005): Antimicrobial properties and phytochemical profiles of endemic medicinal plants of Mauritius. *Pharmaceutical Biology*. 43: 1-6.
 89. Mahomoodally, M.F, Gurib-Fakim, A., Subratty, A.H. (2005). Effects of *Erythroxylum .macrocarpum* (Erythroxylaceae), an endemic medicinal plant of Mauritius, on the transport of monosaccharide, amino acid and fluid across rat everted intestinal sacs *in vitro*. *Journal of Cell & Molecular Biology*.
 90. Subratty, A.H., Gunny, F.B.H., (2005). Effects of captopril, an angiotensin converting enzyme inhibitor on TAME-esterase induced contractions in rat aorta stirps *in vitro*. *Journal of Cell and Molecular Biology* 4: 25-29.
 91. Mahomoodally, M.F., Gurib-Fakim, A., Subratty, A.H., (2007). Effect of exogenous ATP on *Momordica charantia* Linn. (Cucurbitaceae) induced inhibition of d-glucose, L-tyrosine and fluid transport across rat everted intestinal sacs *in vitro*. *Journal of Ethnopharmacology* 110:257-263.
 92. Rangasamy, O., Raelison, G, Rakotoniriana, F.E., Cheuk, K., Urverg-Ratsimamanga, S., Quetin-Leclercq, J., (2007). Screening for anti-infective properties of several medicinal plants of the Mauritian flora 109:331-337.

