

CURRICULUM VITAE
GURIB-FAKIM Bibi Ameenah Firdaus,
Fellow of the Linnean Society

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EDUCATION AND QUALIFICATIONS

1979 - 1983: University of Surrey, UK - BSc (Hons) Chemistry, 'Upper Second'
1983 - 1987: PhD. Chemistry from the University of Exeter, UK

EMPLOYMENT

1987 - 1991 - 'Lecturer' at the Faculty of Agriculture at the University of Mauritius.
1991 - 1995 - 'Senior Lecturer' at the Faculty of Science, University of Mauritius.
1995 - 1997 - 'Manager Research, Technology and Development', at the "Mauritius Research Council".
1995 - 2001 "Associate Professor", Faculty of Science, University of Mauritius.
2001-to date Professor with Personal Chair in Organic Chemistry, Faculty of Science, University of Mauritius.
2004- 2nd July 2006 Dean to the Faculty of Science, University of Mauritius.
as from 3rd July 2006 Pro-Vice Chancellor for the Teaching and Learning Portfolio, University of Mauritius

OTHER ACQUIRED EXPERIENCE

1981 - 1983 - Research Assistant at the "Dow Chemicals Company", UK.
1984 - 1986 - Teaching Assistant at the University of Exeter, UK.
1990 - 1995 - Chef d'Equipe to the PLARM Project of the IOC/EU.
May - Sept 1994 - 'Liaison Officer' in the Pilot project of the "Otto Essien Young Professional Training Programme" funded by the UNDP.
May 1997 - June 1998 - National Co-ordinator for the Commonwealth Secretariat on the 'Identification and Monitoring of Biodiversity in Small Island Developing States'.
Jan 1998 – Jan 2000 - Head of the Chemistry Department, University of Mauritius.
Sept 1998 – Sept 2000 - National Coordinator for the "l'Université de l'Océan Indien". Project for the Indian Ocean University – Project

funded by the European Union.

- Sept 1998 - 2000 - 'Responsable de composante' "Education au Developpement" to the CAERENAD Project funded by CIDA. Collaboration with TELUC, Quebec, Canada

PARTICIPATION IN NATIONAL COMMITTEES

- 1990 - 1995 - Member of the National Committee for the PLARM Project.
- 1995 - to date - Member of the "Steering Committee" on 'Les Plantes Médicinales et Aromatiques de Mauritius'.
- 1993 - 1995 - Member of the 'Research Advisory Committee' of the Mauritius Research Council.
- June 1996 - to date - Member of the "Third World Academy of Science".
- January 1997 - 2003 - Member of the Board of the "Food and Agriculture Research Council".
- October 1997 - 2003 - Member of the Advisory Council for the National Parks and Conservation Services of the Ministry of Agriculture and Natural Resources.
- Collaborates with the "Mauritius College of the Air" on Programmes relating to Medicinal plants and flora in general.

June 1998 – June 2001	- Member of the National Advisory Council of the Ministry of Women Rights, Family Protection and Child Welfare.
April 2002 – to date	Member of the 'Rajiv Gandhi Science Foundation Trust' of the Ministry of Education and Scientific Research.
September 2004 – July 2005	Chairperson of the Rajiv Gandhi Science Centre Trust Fund Board
July 2002 - September 2004	Chairperson of the Senate Examination Sub-committee of the Senate of the University of Mauritius
August 2003-Jan 2006	Member of the Academic Board of the Mauritius Institute of Education, Mauritius.
January 2006 – November 2006	Chairperson of the 'Mauritius Institute of Education', Mauritius

PARTICIPATION IN INTERNATIONAL COMMITTEES

June 1996	Preparatory meeting for the project of "Identification and Monitoring of Biodiversity in Small Island States". Commonwealth Science Council, London, UK.
September 2000	Invited Resource Person by the World Bank and the Environment Liaison Centre International for the "World Bank Environmental Strategy for the Africa Region". Nairobi, Kenya
December 2000	World Bank European Offices, Paris, France. Africa Region Environment Strategy (ARES) – Final Consultation Meeting.
April 2001	Sustainable Use Specialist Group – Western Indian Ocean Initiative – Funded by the IUCN – First meeting held at Antananarivo, Madagascar.
June 2001	Invited by the World Bank as Consultant to review their Environmental Strategy. World Bank Offices, Washington DC, USA.
November 2003	The World Health Organization – Regional Workshop on Traditional Medicines Research and Development, Intellectual Property Rights and Biodiversity, Johannesburg, South Africa, 24-27 November, 2003.
May 2004 – to date	Resource person for the meeting held at the University of Dhaka, Bangladesh in connection with the setting up of an Institute for Natural Product Research. - Task Group for the Development of Methodologies and Protocols on Documentation, Evaluation of Safety and Efficacy and Standardization of Herbal Medicine, an initiative of the IUPAC.
March 2005	University of Pretoria: Progress Meeting of the EU/CDE Project on Medicinal Plants for Africa.
April 2005	Meeting organized by IAASTD Meeting (WB, UNESCO, UNEP, WHO, UNDP), ICRAF, Nairobi, Kenya.
May 2005	University of Pretoria: 2 nd Progress Meeting of the EU/CDE Project on Medicinal Plants for Africa.

May 2005	World Bank Meeting – Invited by the IAASTD for the follow up meeting, Montpellier, France
November 2005	Appointed Coordinating Lead Author for the ISTAAD Project of the World Bank Meeting at the meeting in Istanbul, Turkey
October 2005-to date	Executive Secretary – Association of African Medicinal Plants Standards (AAMPS)
September 2006 – to date	Member of the Association of Universities and Colleges in Canada – Ottawa, Canada
October 2006 – to date	Scientific Advisor for the International Foundation for Science, Sweden

EDITORIAL BOARD

- Sept 1997 - to date - Member of the Editorial Board for the International Journal: “Journal of Essential Oil Bearing Plants”.
- Referee for the Journals: Economic Botany and Biosystematics and Ecology, Molecular and Cellular Biochemistry, South African Journal of Botany, Expert
- Feb. 2004 – - Opinion on Drug Discovery
- Co-Editor for the 4 Vols. ‘Medicinal and Toxic Plants’ Plant Resources of Tropical Africa (PROTA). University of Wageningen, The Netherlands.
- Jan. 2005
- Invited to contribute to the Journal ‘Molecular Aspects of Medicine’, Oxford, UK

MPHIL/PHD SUPERVISION

“Studies on improved methods for ethanol fermentation using cane molasses as substrate”.
MPhil Degree awarded in March 1995.

(Collaboration with the ‘Royal Danish School of Pharmacy, University of Copenhagen).

Ms Lene Jelager. MSc thesis: “Anti-microbial screening of 19 Mauritian medicinal plants selected on the basis of interviews with three professional herbalists”. September 1996.

Mr Ole Pedersen. MSc thesis: “An investigation of seven medicinal plants of Mauritius”.
University of Copenhagen/University of Mauritius. September 1996.

Ms Susanne Weng. MSc thesis: “An investigation into the antifungal and antimicrobial properties of medicinal plants of Mauritius”. September 1997.

Ms Rikke Vilsrup-Moller. MSc thesis: “Pharmacological Properties of Medicinal Plants of Mauritius.” September 1997.

Ms Charlotte Ryberg Jensen: MSc thesis: Biological and Phytochemical investigation of 14 medicinal plants from Mauritius. June 2000.

Ms Charlotte Orsted Jensen: MSc thesis: Biological and Phytochemical investigation of 14 medicinal plants from Mauritius. June 2000

Ms. F. Narod: (PhD.) “Validation of the ethnobotanical information from local endemic medicinal plants.” – Completed (2002).

Ms J. Govinden-Soulange: (PhD.) “In vitro studies of the rare endemic medicinal plant viz. *Psiadia arguta*. (Co-supervision University of Mauritius / Université de La Réunion).”
Funded by FICU/AUPELF – Completed 2003.

Mr D. Marie: (PhD.). “The isolation and characterisation of bioactive molecules from endemic medicinal plants of Mauritius (partly Funded by the Association of Commonwealth Universities) – Completed (2000)

Mr. F. Mahomodally (MPhil/PhD). “The pharmacological properties of medicinal plant extracts of Mauritius with emphasis on their anti-diabetic properties”. On-going.

Ms. U. Rangasamy (MPhil/PhD): The anti-infective properties of Mauritian Medicinal Plants – on going.

Ms. J. Huron (MPhil/PhD): Validation of the anti-hypertensive properties of Mauritian medicinal plants – on going.

Mr. Z. Oozeer (Mphil/PhD): Validation of the anti-diabetic properties of Mauritian medicinal plants – on-going

MSc/PhD EXAMINER:

1. May 2003. Mr. J. Tabuti – PhD scholar, University of Oslo: Title of thesis “Locally used plants in Bulamogi County, Uganda: diversity and modes of utilisation”. Agricultural University of Norway, Norway.
2. February 2004. Appointed Examiner for MSc thesis in the field of Medicinal Plants for the Sultan Qaboos University, Oman.
3. March 2004. Appointed External Examiner for the PhD thesis of Mrs. Harimisa Rakotomalala. Universite de La Reunion (France).
4. August 2004. Appointed External Examiner for PhD thesis, University of Makerere, Uganda.
5. January 2005. External Examiner for MSc thesis of the Faculty of Science, University of Cape Town, South Africa.
6. September 2006. External Examiner for PhD thesis of the Faculty of Veterinary Science, University of Pretoria, South Africa

ORGANISATION OF INTERNATIONAL/REGIONAL CONFERENCES.

Co-Chair ‘2nd International Conference of the Society of Free Radical Research – Africa’. July 2001, Mauritius

Chairperson/Convenor – Les Doctoriales de l’Ocean Indien. UoM/Universite de La Reunion, March 2003.

Chairperson for the Regional Symposium (Mauritius/Madagascar/France) for the CAMPUS Project ‘Substances Naturelles d’interet biologique’. September 2003

Chairperson for the International IUPAC Satellite Symposium ‘Bioresources towards drug discovery and development’. University of Mauritius – Feb. 2004

Chairperson for the ‘Validation des donnees ethnobotaniques des plantes medicinales des pays de l’Ocean Indien’ under the wider theme of ‘Biodiversite et Ressources Naturelles’ of the Universite de l’Ocean Indien/Indian Ocean Commission – September 2006.

INVITED SPEAKER AT CONFERENCES

University of Southern Cross, Lismore, Australia.	GUEST SPEAKER at the International Conference on “The utilisation and conservation of medicinal plants of Mauritius, Herbal Conference for the New Millenium”. June 1999
IMRA, Antananarivo Madagascar..	GUEST SPEAKER at the International Conference for “The medicinal and aromatic plants”. Agence de Coopération Belge. Antananarivo, Madagascar. September 1999
Kruger Park, South Africa,	International Conference on Free Radical Research. Guest Speaker on “Traditional Medicine as a source of potential bioactive

	molecules”. July 2000
Universite de La Reunion, Reunion Island (Fr.)	Invited Guest Speaker on the “Endemic Medicinal Plants of Mauritius as a potential source of therapeutic molecules”. October 2000
University of Zambia, Lusaka, Zambia	Invited as Speaker at the 1st National Symposium on the Promotion of Forest Resources of Medicinal value in Zambia – Sponsored by the CFA International, UK Science Team and The British Council, Zambia. January 2004
University of Delhi, India	Invited Guest Speaker at the IUPAC/ICOB-4/ISCNP-24 on “Biodiversity and Natural Products: Chemistry and Medical Applications. University of Delhi, India. January 2004
Oondertespoort Veterinary Institute, Pretoria, South Africa	Invited Speaker at the ‘Ethnoveterinary medicine’ conference. February 2004
HEJ Research Centre, Karachi, Pakistan	Invited Speaker at the AFASSA Conference – July 2005
University of Delhi, India	Invited Guest speaker at the IUPAC/Green Chemistry Conference – January 2006
University of Montevideo, Uruguay	Invited Guest Speaker at the AFASSA Meeting, March 2006 .
University of Dhaka, Bangladesh	Invited Guest Speaker at the IUPAC Meeting entitled ‘Development of Methodologies and Protocols for Documentation, Evaluation of Safety & Efficacy and Standardization of Herbal Medicine’ June 2006

OTHER RESEARCH WORK

1990-1995: “Inventaire et Etude des Plantes Médicinales et Aromatique des Etats de l’Océan Indien”. Funded by the EU under the aegis of the IOC.

1995-1997: “Identification and monitoring of biodiversity in Small Island Developing States”. Project funded by the Commonwealth Secretariat, London.

1998-2000: “Validation of the ethnobotanical information on locally used medicinal plants of Mauritius”. Project funded by the ‘Mauritius Research Council’ (MRC), Mauritius.

1998-1999: “Psiadia sp. de l’Ile Maurice, tentatives d’exploitation biotechnologiques”. Funded by AUPELF/UREF in collaboration with the Université de La Réunion.

1999-2000: “Identification of the different chemotypes of essential-oil producing plants with a view for industrial production”. Project funded by the Mauritius Research Council, Mauritius.

1999-2000: “Psiadia sp. de l’Ile Maurice, tentatives d’exploitation biotechnologiques”. Funded by AUPELF/UREF in collaboration with the Université de La Réunion.

2000-2003: CAMPUS Project: “Substances Naturelles d’interet biologique”. Collaboration between IMRA, Antananarivo and the Museum Naturelle de Paris. Funded by the Ministry for Foreign Affairs, France.

2000-2002: CAERENAD Project “ Laboratoire Virtuel sur l’Ethnobotanique” in collaboration with the UNED (Costa Rica) and Teluc (Canada).

2002-2003: UNESCO-funded Project on “Validation of locally used medicinal plants of Mauritius”.

2003-to date: Country Focal Point for the Plant Resources of Tropical Africa (PROTA) – Medicinal Plants, Wagenigen University, The Netherlands.

2005-: AUF Research Project entitled: ‘Validation des donnees ethnobotaniques des plantes medicinales contre l’hypertension’.

PUBLICATIONS

Books

1. Plantes Médicinales de l’Ile Rodrigues (1994). Gurib-Fakim, A.; Guého, J.; Sewraj, M. D.; Dulloo, E. Editions de l’Océan Indien, Mauritius, 1-580 pp.
2. Plantes Médicinales de Maurice. Tome 1. Gurib-Fakim, A.; Guého, J.; Bissoondoyal, M.D. (Acanthaceae – Convolvulaceae). Editions de l’Océan Indien. pp 1-495.
3. Plantes Médicinales de Maurice. Tome 2 (Cucurbitaceae-Oxalidaceae). Gurib-Fakim, A.; Guého, J.; Bissoondoyal. Editions de l’Océan Indien, Mauritius. pp 1-532.
4. Plantes Médicinales de Maurice. Tome 3 (Pandaceae-Zygophyllaceae). Gurib-Fakim, A.; Guého, J.; Bissoondoyal. Editions de l’Océan Indien, Mauritius. pp 1-471.
5. Natural Toxins and Poisonous Plants of Mauritius. Gurib-Fakim, A.; Guého, J. (1999). United Nations/Editions Le Printemps. Mauritius. pp 1-172.
6. Maurice par des Plantes Medicinales. Gurib-Fakim, A. (2002) Editions Le Printemps, Ile Maurice. Pp 1-268
7. Mauritius through its Medicinal Plants. Gurib-Fakim, A. (2002) Editions Le Printemps. Pp 1-270.
8. Molecular and Therapeutic Aspects of Redox Biochemistry. Edited by T Bahorun and A Gurib-Fakim. OICA International: London (2004).
9. An Illustrated Guide to the Flora of Mauritius and the Indian Ocean Islands. A. Gurib-Fakim Ed. (2003).
10. Medicinal Plants of the Indian Ocean Islands. Gurib-Fakim, A.; Brendler, T. (2004). MedPharm Scientific Publishers, Stuttgart, Germany. Pp 1-735.
11. Guide Illustre de la Flore de Maurice et des Iles de l’Ocean Indien. A. Gurib-Fakim Ed. (2004).
12. Biodiversity towards drugs development. A. Gurib-Fakim, P. Ramasami, H. Li Kam Wah, S. Jhaumeer-Lauloo, A.H. Subratty Eds. (2005).

13. Booklet on 'Medicinal Plants at the State House, Le Reduit'. Government Printers, Port Louis. Pp 123 (2005).
14. Lesser-known and under-utilised plant resources. A. Gurib-Fakim Ed. (2005). Pp1-202
15. Ressources vegetales me-connues et sous-utilisees. A. Gurib-Fakim Ed. (2005). Pp 1-202.
16. Guide Illustre de la Flore de Maurice et des Iles de l'Ocean Indien. A. Gurib-Fakim Ed. (2006), 2nd Edition.

Book chapters.

1. *Morinda citrifolia*. PROTA Series, University of Wagenigen, The Netherlands.
2. *Haematoxylum campechianum*. PROTA Series, University of Wagenigen, The Netherlands.
3. Traditional Medicine in 'Molecular and Therapeutic Aspects of Redox Biochemistry'. Edited by T Bahorun and A. Gurib-Fakim. OICA International: London (2004).

Co-Editor

1. 4 Volumes on Medicinal Plants series in the 'Plant Resources of Tropical Africa' (PROTA) – University of Wagenigen, The Netherlands.
2. Coordinator Lead Author for the IAASTD – Project on the global assessment on Agriculture – World Bank and UN agencies

CDRom

"Plantes Médicinales des Comores, de Madagascar, des Mascareignes (Maurice et Rodrigues) et des Seychelles. Rapport ethnobotanique et phytochimique sur le projet: 'Inventaire et Etude des Plantes Médicinales et des Plantes Aromatique des Etats de l'Océan Indien (1990-1997). Gurib-Fakim, A.; Guého, J. Commission de l'Ocean Indien/European Union. February 2000.

CDRom(Bilingual)

"Medicinal Plants of the Comoros, Madagascar, the Mascarenes (Mauritius and Rodrigues) and the Seychelles. Ethnobotanical and phytochemical report on the project: 'Inventory and Study of the Medicinal and Aromatic Plants of the States of the Indian Ocean (1990-1997). Gurib-Fakim, A.; Guého, J. Indian Ocean Commission/European Union. August 2000.

Virtual Laboratories.

1. Biodiversity (English and French). Gurib-Fakim, A., Jean, Yves, Rivas Marta (2004). University of Mauritius, TELUC, Canada, UNED, Costa Rica.
2. Ethnobiology (English and French). Gurib-Fakim, A. ; Jean, Yves (2004). Teluc (Canada), University of Mauritius.

Scientific Publications

1. Medicinal plants of Mauritius. *International J. Crude Drug Res*, **Gurib-Fakim, A.**; (1990), 28, No.4, 297-308.

2. Phytochemical screening of 38 Mauritian Medicinal plants. **Gurib-Fakim, A.** et al (1991). *Revue Agricole et Sucrière de l'Ile Maurice*, **69**, 42-50.
3. Reversal of sickling and crenation in erythrocytes by the aqueous extracts of *Pelargonium xasperum*, *Foeniculum vulgare*, *Sideroxylon puberulum*. **Gurib-Fakim, A.** et al (1991). *Revue Agricole et Sucrière de l'Ile Maurice*, **69**, 28-29.
4. Studies of the anti-sickling properties of extracts of *Sideroxylon puberulum*, *Faujasiospis flexuosa*, *Cardiospermum halicacabum* and *Pelargonium xasperum*. **Gurib-Fakim, A.**; Sewraj, M.D. (1991). *Planta Medica*, 72.
5. Fermentation of molasses. Rao, C., Peerally, A., **Gurib-Fakim, A.** (1992). Proceedings of The 2nd Mycological Conference. Cairo, Egypt.
6. Medicaethnobotany of some weeds of Mauritius and Rodrigues. **Gurib-Fakim, A.** et al. (1993). *Journal of Ethnopharmacology*, **39**, 175-185.
7. Constituents of the essential oil of *Piper sylvestre*. (1994). **Gurib-Fakim, A.** *Planta Medica.*, **60**, 376-377.
8. Plantes médicinales de Maurice- Le Bois Carotte, *Pittosporum senacia*. **Gurib-Fakim, A.** (1993). *Journal de la Nature*, **3**, 24-26.
9. Essential oil of the 5 Citrus plants of Mauritius, **Gurib-Fakim, A.** et al (1993). Proceedings of the 5th NAPRECA Symposium, Madagascar.
10. Plantes aromatiques de Maurice. Les Huiles essentielles de trois plantes endémiques de Maurice. **Gurib-Fakim, A.**, et al (1994). *Rivista Italiana*, 826-830.
11. Evaluation and Conservation of medicinal plants in Mauritius. Plants Genetic Resources in Mauritius. **Gurib-Fakim, A.** (1993). Proceedings of a National Workshop on Plant Genetic Resources in Mauritius, University of Mauritius, 21-22 October 1993. Published by the National Parks and Conservation Services, Ministry of Agriculture and Natural Resources, Réduit, Mauritius, 55-59.
12. Constituents of the essential oil of *Pittosporum balfourii* Cuf. Growing in Rodrigues. **Gurib-Fakim, A.**, Demarne, F. (1995). *Planta Medica.* **60**, 585-586.
13. The essential of *Citrus aurantium*, *Citrus aurantifolia*, *Citrus paradisi* and *Citrus sinensis* growing in Mauritius. **Gurib-Fakim, A.**, Demarne, F., Lamaty, G., Menut, C. (1995). *J. Essential Oil Res.* **7**, 105-109.
14. The essential oil of *Terminalia bentzoë* subs. *Bentzoë* – an endemic plant of Rodrigues. **Gurib-Fakim, A.**, Demarne, F. (1994). *J. Essent. Oil Res.*, **6**, 533-534.
15. The composition of the essential oils of *Coleus aromaticus*, *Triphasia trifolia*, and *Eucalyptus kirtoniana*. **Gurib-Fakim, A.**, Sewraj, M., Narod, F., Menut, C. *J. Essent. Oil Res.* (1995), **8**, 1-4.
16. Constituents of the essential oil of *Dracaena relfexa* var *angustifolia*. **Gurib-Fakim, A.**, Demarne, F. (1995), *J. Essent. Oil Res.* **6**, 651-652.
17. Medicinal plants of Rodrigues. *International J. Pharmacognosy.* (1995). **Gurib-Fakim, A.**, et al., **34**, No. 1, 2-14.

18. Identifying and documenting uses of island plant diversity – the case of Rodrigues Island (Republic of Mauritius) – A Case Study. **Gurib-Fakim, A.** The Commonwealth Science Council, London, UK.
19. The chemical composition of the essential oils of *Psiadia lithosepermifolia* (Lam.) Cordem. and *P. viscosa* (Lam.) A. J. Scott of the Asteraceae family. **Gurib-Fakim, A.,** Govinden, J., Bourrel, J., Kodja, H., Sewraj, M. (1995). *J. Essent. Oil Res.*, 7, 533-535.
20. Contribution to the Country Report-Mauritius- on Forest Genetic Resources, The International Conference and Programme for Plant Genetic Resources (IBPGR/FAO) (1995). Mungroo, Y.; Dulloo, E.; Paupiah, S.; Appiah, S.; **Gurib-Fakim, A.,** Guého, J.; Reetoo, D.; Cai Yijun, Han Chuihui et al. Ministry of Agriculture & Natural Resources, Réduit, Mauritius.
21. The essential oils of *Ambrosia tenuifolia* and *Artemisia vulgaris* - 2 species of the Asteraceae family. **Gurib-Fakim, A.,** (1996). *J. Essential Oil Res.*, 8, 559-561.
22. Endemic Medicinal Plants of Mauritius and Rodrigues - Consultancy Report submitted to the Indian Ocean Commission / European Union - **Gurib-Fakim, A.,** (1996), pp 1-89.
23. La composition de cinq huiles essentielles de plantes aromatiques et médicinales entrant dans la pharmacopée Mauricienne et Rodriguaise. *Rivista Italiana.* **Gurib-Fakim, A.;** Sewraj-Bissoondyal, M.D.; Van Brandt, P. (1996), 236-243.
24. Medicinal Plants of Mauritius. Part 1. **Gurib-Fakim, A.** et al., (1997). *Int. J. Pharmacognosy*, 35, 237-254.
25. Sucrose and nitrogen forms affects in vitro, germination of seeds of *Psiadia arguta*. Kodja, H.; **Gurib-Fakim, A.;** Govinden-Soulange, J., Figier, J. (1999). *Seed Science*.
26. Antibacterial and Antifungal Activity of Some Medicinal Plants of Mauritius. Jelager, L.; **Gurib-Fakim, A.;** Adersen, A. (1999). *Pharmaceutical Biology*. 36, 153-161.
27. The in vitro, pharmacological properties of seven medicinal plants of the Rubiaceae from Mauritius. Pedersen, O.; **Gurib-Fakim, A.;** Subratty, H.; Adersen, A. (1999). *Pharmaceutical Biol.* 25, 75-80.
28. Micropropagation of *Psiadia arguta* through the cotyledonary axillary bud culture. Kodja, H.; Govinden-Soulange, J.; **Gurib-Fakim, A.;** Robene-Soustrade, I.; Humeau, L.; Figier, J. (1997). *Plant Growth Regulators*.
29. Status of medicinal and aromatic plant research in Mauritius. **Gurib-Fakim, A.** (1996). Communication presented at the workshop organised by Commonwealth Secretariat, London on the “Southern African Plant Resources – Exploitation, Enumeration, Exploration and Evaluation”-University of Swaziland, Swaziland. August 1996. Pp 1-
30. Micropropagation and in vitro propagation of *Psiadia* sp., endemic and medicinal plant of Mauritius. Kodja, H.; Govinden-Soulange, J.; **Gurib-Fakim, A.** (1998). Poster presented in Israel.
31. The utilisation and conservation of medicinal plants in Mauritius (2004). **Gurib-Fakim, A.** *Herbalgram*, 64, 34-43
32. National Biodiversity Strategy and Action Plan. First National Report to the Convention of Biological Diversity. **Gurib-Fakim, A.** et al., (1999). Report submitted to UNEP by the

National Parks and Conservation Services of the Ministry of Agriculture and Natural Resources.

33. The Endemic medicinal and aromatic plants of Mauritius. **Gurib-Fakim, A.** (1998). *J. Essential Oil Bearing Plants.*, 1, 1-10.

34. Women in Science. **Gurib-Fakim, A.** (1999). Proceedings of the TWOW/UNESCO Conference on Women in Science & Technology for Sustainable Human Development. Cape Town, South Africa.

35. Micropropagation and in vitro propagation of *Psiadia* sp., endemic and medicinal plant of Mauritius. Kodja, H.; Govinden-Soulange, J.; **Gurib-Fakim, A.** (1998). Poster presented in Israel.

36. National Biodiversity Strategy and Action Plan. First National Report to the Convention of Biological Diversity. **Gurib-Fakim, A. et al.**, (1999). Report submitted to UNEP by the National Parks and Conservation Services of the Ministry of Agriculture and Natural Resources.

37. The Endemic medicinal and aromatic plants of Mauritius. **Gurib-Fakim, A.** (1998). *J. Essential Oil Bearing Plants.*, 1, 1-10.

40. Women in Science. **Gurib-Fakim, A.** (1999). Proceedings of the TWOW/UNESCO Conference on Women in Science & Technology for Sustainable Human Development. Cape Town, South Africa.

41. The Utilisation of Conservation of Medicinal Plants in Mauritius. **Gurib-Fakim, A.** (1999). Proceedings of the International Conference on "Herbal Medicine into the text millennium". The University of Southern Cross, Lismore, Australia.

41. The anti-microbial and anti-fungal properties of 36 medicinal plants from Mauritius. R.Vilstrup-Moller, S. Lehmann Weng, **A. Gurib-Fakim, A.** Adserson. (1999). *J. Herbs, Spices and Medicinal Plants.*

43. The chemical composition of the essential oil of *Psiadia arguta*. **A. Gurib-Fakim, Gauvin, A.; J. Smadja, J. Govinden-Soulange, H. Kodja** (1999). *J. Essential Oil Res.* 12, 1-4.

44. The analysis and pharmacological properties of endemic *Psiadia* species growing in Mauritius. **Gurib-Fakim, A., et al.**, (1999). Proceedings of the International Conference on 'Analyse Chimique au service de la qualité des huiles essentielles'. Co-operation Belge/IMRA Madagascar.

45. The composition of the essential oils of the locally grown gingers. **Gurib-Fakim, A.** (2002), Maudarbaccus, N.; Leach, D.; Wohlmüt, H. *J. Essential Oil Res.*, 14, 271-273. *Pharmaceutica Biology*, 37, 202-207.

46. Selected demonstration on the CD-ROM on the Medicinal and Aromatic Plants of the South West Indian Ocean. **Gurib-Fakim, A.**; Van Brandt, P. (2000). 17th International CODATA Conference. Baveno, Italy.

47. "Traditional Medicine as a source of potential bio-active molecules". Marie, D., **Gurib-Fakim, A.**, Narod, F.; Govinden-Soulange, J. (2000). Proceedings of the 1st International Conference for the Society for Free Radical Research (Africa Wing).
48. "La Medicine traditionnelle et pharmacopée locale". **Gurib-Fakim, A.** (2000). Actes de la Conference de la Premiere Rencontre sur les Plantes Medicinales des Regions d'Outre-Mer". Universite de la Reunion.
49. LA BIODIVERSITE avec l'emphase sur les Plantes Medicinales – Valorisation, Conservation et Education. **Ameenah Gurib-Fakim et al** (2000). 2eme Colloque International CAERENAD / CIDA. Universite Cheik Anta Diop, Dakar, Senegal.
50. Free radicals and anti-oxidants indications: a case for considering the bioactive components of Mauritian endemic plants as prophylactic antioxidants. Bahorun, T.; **Gurib-Fakim, A.**; Aruoma, O.I. (2001). *J. University of Mauritius – Science and Technology*.
51. Bioactive principles of endemic medicinal plants of Mauritius. Marie D; Gray S, **Gurib-Fakim, A.**; Waterman P (2001). *Proceedings of the Second International Conference of the Society for Free Radical Research*, University of Mauritius, July 2001.
52. Effect of light and cytokinins on secondary metabolism in cell suspensions of *Psiadia arguta* (Pers.) Voigt. Govinden-Soulange, J.; **Gurib-Fakim, A.**; Kodja, H. (2003). *J. University of Mauritius – Science and Technology*, 9, 17-26.
53. A genetic diversity study of endangered *Psiadia* species endemic from Mauritius Island using PCR markers. Pascale Besse ^{a,*}, Denis Da Silva ^a, Laurence Humeau ^a, Joyce Govinden-Soulange ^b, **Ameenah Gurib-Fakim** ^c, Hippolyte Kodja ^a (2003). *Biochemical Systematics and Ecology*, 31, 1427-1445.
54. Flavonoids from Endemic *Sideroxylon* Species (Sapotaceae) of Mauritius. Narod, F.; **Gurib-Fakim, A.**; Subratty, H. (2003). *Research Journal of Chemistry and the Environment*, 7, 53-59.
55. Validation of the ethnobotanical information of selected endemic and indigenous medicinal plants of the traditional pharmacopoeias of Mauritius and Rodrigues. Narod, F.; **Gurib-Fakim, A.**; Subratty, H. (2003). *Research Journal of Chemistry and the Environment*. In Press.
56. Biological investigations into *Antidesma madagascariensis* Lam. (Euphorbiaceae), *Faujasiopsis flexuosa* (Lam.) C. Jeffrey (Asteraceae), *Toddalia asiatica* (L.) Lam. and *Vepris lanceolata* (Lam.) G. Don. (Rutaceae). Narod, F.; **Gurib-Fakim, A.**; Subratty, A.H. (2004). *Journal of Cell and Molecular Biology*, 3, 15-21.
57. Harvesting our biodiversity – A case study for Medicinal plants in the context of the CBD. **Gurib-Fakim, A.** (2003). Proceedings of the AREBIO Conference. Madagascar.
58. Biological Resources towards drug discovery. **Gurib-Fakim, A.**; Subratty, A.H.; Narod, F.; Mahomodally, F. (2004). Proceedings of the Workshop at the Onderstepoort Veterinary Institute, South Africa.
60. Narod, F.B., **Gurib-Fakim, A.**, Subratty, A.H. (2004). Phychemical analysis of selected endemic and indigenous medicinal plants of Mauritius and Rodrigues. *Research J. of Chemistry and the Environment*, 8, 47-55.
61. 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.

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63. Mahomodally M.F., **Gurib-Fakim, A.**, Subratty, A.H. (2005). Bitter Melon: an exotic fruit with medicinal properties. *Nutrition and Food Science*, **35**, 143-147 .
64. **Gurib-Fakim, A.**; Subratty, H.; Narod, F.; Govinden-Soulange, J. Mahomoodally, F. (2005). "Biological activity from indigenous medicinal plants of Mauritius". *Pure and Applied Chemistry of the IUPAC*, 77, 41-55
65. Govinden-Soulange J, Magan M, **Gurib-Fakim A**, Gauvin A, Smadja J, Kodja H (2004). Chemical composition and *in vitro* antimicrobial activities of the essential oils from endemic *Psiadia* species growing in Mauritius. *Biol. Pharm. Bull.*, **27**, 2378-2380
66. Mahomoodally F, Subratty AH, **Gurib-Fakim A** (2004). Experimental evidence for *in vitro* fluid transport in the presence of a traditional medicinal fruit extract across rat everted intestinal sacs. *Fundamental & Clinical Pharmacology*, **19**, 87-92.
67. **Gurib-Fakim, A.** (2005). The utilisation and conservation of medicinal plants in Mauritius. *Herbalgram- Journal of the American Botanical Council*, 64, 34-43.
68. Mahomoodally F, **Gurib-Fakim A**, Subratty AH, (2005). Antimicrobial activities and phytochemical profiles of endemic medicinal plants of Mauritius. *Pharmaceutical Biology*, **43**, 237.
69. The pharmacological properties of the isolated bioactive compounds from endemic medicinal plants of Mauritius. **Gurib-Fakim, A.**; Narod, F.; Marie, D.P. (2005). *Acta Horticulturae*. Bioprospecting and Ethnopharmacology, 675, 133-137.
70. **Gurib-Fakim, A.** (2006). Traditions of yesterday and drugs of tomorrow. *Molecular Aspects of Medicine*. Special Edition. Elsevier Publications, UK.
71. Kotowaroo M.I. Mahomoodally F, Subratty A.H., **Gurib-Fakim, A.** (2005). "Screening of Traditional Antidiabetic Medicinal Plants of Mauritius for Possible α -amylase Inhibitory Effects *in vitro*". *Phytotherapy Res.* In press.
72. Mahomoodally MF, **Gurib-Fakim A**, Subratty AH (2006). Stimulatory effects of *Antidesma madagascariensis* on D-Glucose, L-Tyrosine, fluid and electrolyte transport across rat everted intestine, comparable to insulin *in vitro*. *British Journal of Biomedical Sciences*, 63, 12-17.
73. Oumadevi Rangasamy, Guy Raelison, Francisco E. Rakotoniriana, Kiban Cheuk, Suzanne Urverg-Ratsimamanga, Joelle Quetin-Leclercq, **Ameenah Gurib-Fakim**, A.H. Subratty (2006). *J. Ethnopharmacol.* In press
74. Mahomoodally F, Subratty A.H., **Gurib-Fakim, A.** (2006). 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*. *J. Ethnopharmacol.* In press.
75. Marie DEP , **Gurib-Fakim A.**, Gray A. , Waterman PG (2006). Constituents of *Psiadia terebinthina* A.J. Scott, an endemic asteraceae from Mauritius. *Natural Product Research*, **20**(13):1169-75.

Other publications / articles

1. La Chimie Organique - Outil à la Conquête des Substances Naturelle - PROSI, September, 1992, Mauritius.
2. Plantes Médicinales et Aromatiques de Maurice – Script for the documentary on Medicinal and Aromatic Plants of Mauritius, prepared in collaboration with the Mauritius College of the Air and requested by the European Union under the PLARM Project (IOC/EU) (1993).
3. Medicinal and Aromatic Plants of Mauritius - The Réduit Reporter, A publication of the University of Mauritius (1994).
4. “Plantes Médicinales et Endémiques de Maurice et de Rodrigues”. 89 Page report submitted to the “Coordination National” in the context of the Regional Project on the “Programme Regional Environnement – Commission de l’Ocean Indien” (PRE-COI). Feb. 1996.
5. “Women in Science” Gurib-Fakim, A. (1998). Article publié dans le contexte de la journée mondiale de la Femme - 8 Mars 1998.
6. “La Flore Tropicale” (1999) - Script and presentation of the Regional documentary for the Mauritius College of the Air.
7. Ces plantes qui nous soignent (1999-2001) - Articles contributed to the National l’Express Newspaper on “Medicinal Plants Issues”. A bi-monthly publication.
8. The World Health Organisation Monographs on Medicinal Plants. Collaboration for the data on Mauritian Plants (1998-1999).

PARTICIPATION IN WORKSHOPS / SEMINARS / CONFERENCE / MEETINGS (1995- onwards)

- Oct 1995**, Valletta, Malta. Participation in the “Commonwealth Science Council’s Experts Meeting on the “Identification and monitoring of biodiversity in Small Island Developing States”.
- Aug 1996**, Swaziland. Workshop on the “Southern African Plant Resources – Exploitation, Enumeration, Exploitation and Evaluation” Commonwealth Secretariat, London.
- Dec 1996**: Participation in a residential workshop on “Research Impact Assessment: Mauritius”. Organised by AREU/SADC, Berjaya Hotel, Le Morne, Mauritius.
- Feb 1997**, Antananarivo, Madagascar. “Séminaire de Restitution du PROJET PLARM” – Indian Ocean Commission, European Union.
- March 1997**, Lucknow, India. Workshop funded by UNESCO/CSC on “Plant Species Diversity Information Systems in South Asia”.
- April 1997**, Swaziland. Workshop on “Southern African Development Community’s (SADC) Joint Community Building Workshop for the Sectors of Environment and Land Management, Forestry and Wildlife”.
- Feb 7th, 1999**, Cape Town, South Africa. Women in Science. A Gurib-Fakim (1990). Poster presented at the TWOW/UNESCO Conference on Women in Science & Technology for Sustainable Human Development, Cape Town, South Africa.
- Aug 11-13, 1999**: Projet Régional Environnement - Université de l’Océan Indien. Programme Indicatif de l’Atelier de Validation des Programmes de Formations pour la pérennisation du PRE. Antananarivo, Madagascar.
- November 21-24, 1999**: CAARENAD Project funded by CIDA. Presentation of a paper on “Science education in the new millenium – the place of women in mauritius and in developing countries”. Pontifica Universidad de Chile, Santiago, Chile.
- September 2000** – Environmental Issues discussed within the context of the WB meetings, Kenya.

November 2-4, 2000: Université Cheik Anta Diop, Dakar, Senegal: Participation in the CAERENAD meeting on “LA BIODIVERSITE: Les Plantes Médicinales – Valorisation, Conservation et Education avec emphase sur l’ethnobotanie”.

December 2000: Environmental issues. World Bank European Offices, Paris, France

May 2001. Millenium Conference for Indigenous People – Panama City, Panama

July 2001: meeting on Environmental Issues - World Bank Headquarters, Washington DC, USA

November 2001. 3a Jornada CAERENAD – A Educacao e as Novas Tecnologias. niversidad Federal Mato Grosso, Cuiaba, Brazil.

May 2002. International Symposium on medicinal plants, health and environment. Université Hassan II, Rabat, Morocco.

September 2002: Plant Resources of Tropical Africa. IPGRI, Nairobi, Kenya.

February 2003. 3rd World Congress on Medicinal and Aromatic Plants for Human Welfare. Chiang Mai, Thailand.

April 2003. Conference on Medicinal Plants: Access, Use and Benefit sharing in the light of the Convention on Biological diversity, University of Oslo, Norway.

June 2003: “Assises de la Recherche” – Université de La Reunion, St. Denis, Reunion (France).

November 2003 : Atelier régional Economie de la Biodiversité dans l’Ocean Indien – Organised by Agence Intergouvernementale de la Francophonie (AIF). Antananarivo, Madagascar.

July 2004: ISEE Conference, University of UQAM, Montreal, Canada.

November 2004: Journées Scientifiques – Université de La Reunion, St. Denis, Reunion

December 2004: Université Rurale Ocean Indien, St. Joseph, La Reunion.

March 2005: African Medicinal Plants Standards Committee – University of Pretoria, South Africa

March 2005: IAASTD/World Bank Meeting, Nairobi, Kenya

May 2005: African Medicinal Plants Standards Committee – University of Pretoria, South Africa

May 2005: IAASTD/World Bank Meeting, Agropolis, Montpellier, France.

July 2005: AFASSA Meeting and Conference on Medicinal Plants – H.E.J. Centre/ICCS – University of Karachi, Pakistan.

November 2005: ISTAAD Meeting in Istanbul, Turkey

March 2006: AFASSA Meeting, Montevideo, Uruguay

May 2006: ISTAAD 2nd Global Authors Meeting – Bangkok, Thailand

Sep.06: IEPF/OIF’ 2eme Edition des Journées Scientifiques sur l’Economie de l’Environnement’ UNESCO, Paris

Sep 06: ICSU-ROA: 2nd Regional (Africa) consultative forum, South Africa.

Oct. 06: First African Congress of Scientist and Policy makers, Alexandria, Egypt

Nov. 06: ISTAAD Meeting, San Jose, Costa Rica

Jan. 07: AUCC-CIDA Tier 1 Selection Committee Meeting – Ottawa, Canada

CONSULTANCY

1. **Feb. 1996.** Consultation with the “Projet Environnement - Projet COI/FED” for the realisation of a report on “Plantes Médicinales et Endémiques de Maurice et de Rodrigues”. 89 page report submitted to the National Coordinator for the IOC Project on “Etude de ‘Environnement (PRE-COI)”.
2. **Feb. 1998.** Consultancy with the IOC for the preparation of the Regional data base in the context of the Regional on: l’Inventaire et Etude des Plantes Médicinales et Aromatiques des Etats de l’Océan Indien”. IOC/EU
3. **Dec. 1997 - April 1998.** Consultancy with the Italian firm ALSO for the extraction of cane waxes from bagasse.
4. **Oct. 1997 - 1999.** Consultancy with the ‘Jeune Chambre Economic de Maurice’ in collaboration with the UNDP for the realisation of a Medicinal plant garden in a local primary school (Brittania Govt. School). (A Community based project). Voted in NewYork as one of the best Community project.
5. **April 1998.** National Biodiversity Strategy and Action Plan. First National Report to the Convention of Biological Diversity. UNEP/Ministry of Agriculture and Natural Resources.

6. **March 1999.** “Mission d’Etude sur l’Université de l’Océan Indien”. Commission de l’Océan Indien, European Union.
7. **October 1999.** World Bank Solid Waste Management Programme. Testing of samples with the Fichtner Gmbh Co/World Bank Programme.
8. **December 1999 – February 2000.** Societe Belflor H, Mauritius Freeport Development Authority for the analysis of vanillin in commercial oleoresins.
9. **April 2000.** Audit on Science and Technology and Innovativeness – Gender Component of Science Technology and Innovativeness. A Project of the Mauritius Research Council, Mauritius.
10. **July 2001.** The Natural Oils Company – Analysis of the essential oils.
11. **March 2003-August 2004.** The Bois Cheri Tea Company – Diversification into the production of herbal teas.
12. **September 2004 – to date:** The Mon Desert Mon Tresor Co Ltd: Diversification into the plantation of medicinal plants.
13. **Dec. 2004-July 2005. Medicinal Plant Garden at the State House, Le Reduit, Mauritius.** Setting up a Medicinal Plant Garden, along with preparation of booklet and pamphlet.