

DR. RUSSEL S. RAMSEWAK

Publications, Patents, and Presentations

1. Patents

1. Nair, M. G.; Ramsewak, R. S.; King, S. K.; Stommel, M.; Selanders, L. C. Method and Compositions for Treatment of Fungal Nail Disease. U.S. Patent 6,344,190 B1, February 5, 2002 (Renewed August 1, 2012, and August 1, 2022; Expires July 31, 2032).

2. Refereed Journal Articles

1. Ramlal, S.; Khan, A.; Ramsewak, R.; Mohammed, F. Bioactivity of Essential Oils from Five Spices against *Sitophilus zeamais* Motschulsky (Coleoptera: Curculionidae). *Trop. Agric.* **2020**, *97* (1), 67–81.
2. Aitken, A. R.; Bouquet, J.; Frank, J.; Gidlow, A. L. G.; Powder, Y.; Ramsewak, R. S.; Reynolds, W. F. Isolation, Structure Determination and Synthesis of a Trichlorodihydroxybibenzyl from a Terrestrial Plant. *RSC Adv.* **2013**, *3* (20), 7230–7232.
3. Aitken, A. R.; Gidlow, A. L. G.; Ramsewak, R. S.; Slawin, A. M. Z. The X-Ray Structure of 5-Chlorosalicylaldehyde. *J. Chem. Crystallogr.* **2013**, *43* (2), 65–69.
4. Powder-George, Y.; Frank, J.; Ramsewak, R. S.; Reynolds, W. F. The Use of Coupled HSQC Spectra to Aid in Stereochemical Assignments of Molecules with Severe Proton Spectral Overlap. *Phytochem. Anal.* **2012**, *23* (3), 274–277.
5. Frank, J. H.; Powder-George, Y. L.; Ramsewak, R. S.; Reynolds, W. F. Variable-Temperature 1H-NMR Studies on Two C-Glycosylflavones. *Molecules* **2012**, *17* (7), 7914–7926.
6. Fowles, R.; Mootoo, B. S.; Ramsewak, R. S.; Khan, A. Toxicity–Structure Activity Evaluation of Limonoids from *Swietenia* Species on *Artemia salina*. *Pharm. Biol.* **2012**, *50* (2), 264–267.
7. Fowles, R.; Mootoo, B. S.; Ramsewak, R. S.; Reynolds, W. F.; Nair, M. G. Limonoids from Meliaceae with Lipid Peroxidation Inhibitory Activity. *Nat. Prod. Commun.* **2011**, *6* (6), 785–787.
8. Fowles, R.; Mootoo, B. S.; Ramsewak, R. S.; Khan, A.; Ramsubhag, A.; Reynolds, W. F.; Nair, M. G. Identification of New Limonoids from *Swietenia* and Their Biological Activity Against Insects. *Pest Manag. Sci.* **2010**, *66* (12), 1298–1303.
9. Mohammed, M.; Maxwell, A. R.; Ramsewak, R.; Reynolds, W. F. Norlignans from *Pouzolzia occidentalis*. *Phytochem. Lett.* **2010**, *3* (1), 29–32.
10. Fowles, R.; Mootoo, B. S.; Ramsewak, R. S.; Lough, A.; Reynolds, W. F. 3,6-Di-O-acetylswietenolide 0.25 Hydrate. *Acta Crystallogr., Sect. E: Struct. Rep. Online* **2007**, *63* (2), o660–o661.
11. Ramsewak, R. S.; Nair, M. G.; Stommel, M.; Selanders, L. C. In Vitro Antagonistic Activity of Monoterpenes and Their Mixtures against “Toe Nail Fungus” Pathogens. *Phytother. Res.* **2003**, *17* (4), 376–379.

12. Rajeshkumar, N. V.; Joy, K. L.; Kuttan, G.; Ramsewak, R. S.; Nair, M. G.; Kuttan, R. Antitumor and Anticarcinogenic Activity of *Phyllanthus amarus* Extract. *J. Ethnopharmacol.* **2002**, *81* (1), 17–22.
13. Banjoo, D.; Mootoo, B. S.; Ramsewak, R. S.; Sharma, R.; Lough, A. J.; McLean, S.; Reynolds, W. F. New Erythrolides from the Caribbean Gorgonian Octocoral *Erythropodium caribaeorum*. *J. Nat. Prod.* **2002**, *65* (3), 314–318.
14. Wu, D.; Yu, L.; Nair, M. G.; DeWitt, D. L.; Ramsewak, R. S. Cyclooxygenase Enzyme Inhibitory Compounds with Antioxidant Activities from *Piper methysticum* (Kava Kava) Roots. *Phytomedicine* **2002**, *9* (1), 41–47.
15. Ramsewak, R. S.; Nair, M. G.; Murugesan, S.; Mattson, W. J.; Zasada, J. Insecticidal Fatty Acids and Triglycerides from *Dirca palustris*. *J. Agric. Food Chem.* **2001**, *49* (12), 5852–5856.
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17. Momin, R. A.; Ramsewak, R. S.; Nair, M. G. Bioactive Compounds and 1,3-Di[(*cis*)-9-octadecenoyl]-2-[(*cis,cis*)-9,12-octadecadienoyl]glycerol from *Apium graveolens* L. Seeds. *J. Agric. Food Chem.* **2000**, *48* (8), 3785–3788.
18. Ramsewak, R. S.; DeWitt, D. L.; Nair, M. G. Cytotoxicity, Antioxidant and Anti-inflammatory Activities of Curcumins I–III from *Curcuma longa*. *Phytomedicine* **2000**, *7* (4), 303–308.
19. Miles, J. E. C.; Ramsewak, R. S.; Nair, M. G. Antifeedant and Mosquitocidal Compounds from *Delphinium X cultorum* CV. Magic Fountains Flowers. *J. Agric. Food Chem.* **2000**, *48* (2), 503–506.
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21. Ramsewak, R. S.; Erickson, A. J.; Nair, M. G. Bioactive N-Isobutylamides from the Flower Buds of *Spilanthes acmella*. *Phytochemistry* **1999**, *51* (6), 729–732.
22. Ramsewak, R. S.; Nair, M. G.; Strasburg, G. M.; DeWitt, D. L.; Nitiss, J. L. Biologically Active Carbazole Alkaloids from *Murraya koenigii*. *J. Agric. Food Chem.* **1999**, *47* (2), 444–447.
23. Mootoo, B. S.; Ramsewak, R.; McLean, S.; Reynolds, W. F.; Tinto, W. F.; Yu, M.; Khan, A. Tetranortriterpenoids from *Ruagea glabra* (Meliaceae). *J. Nat. Prod.* **1996**, *59* (5), 544–547.
24. Mootoo, B. S.; Ramsewak, R.; Sharma, R.; McLean, S.; Reynolds, W. F.; Tinto, W. F.; Yang, J. P.; Yu, M.; Lough, A. J. Further Briareolate Esters from the Caribbean Gorgonian Octocoral *Briareum asbestinum*. *Tetrahedron* **1996**, *52* (30), 9953–9962.
25. Dookran, R.; Maharaj, D.; Mootoo, B. S.; Ramsewak, R.; McLean, S.; Reynolds, W. F.; Tinto, W. F. Briarane and Asbestinane Diterpenes from *Briareum asbestinum*. *Tetrahedron* **1994**, *50* (7), 1983–1992.
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3. Presentations at Conferences and Symposiums

- Mootoo, B. S.; Ramsewak, R. S. Diterpenes from Gorgonian Corals from the Southern Caribbean. Presented at the Mona Symposium on Natural Products and Medicinal Chemistry, Mona, Jamaica, **1992**.
- Mootoo, B. S.; Ramsewak, R. S. NMR Analysis of Some Novel Marine Diterpenoids. Poster presentation at the Mona Symposium on Natural Products and Medicinal Chemistry, Mona, Jamaica, **1992**.
- Mootoo, B. S.; Ramsewak, R. S. Limonoids from *Ruagea glabra*. Poster presentation at the Mona Symposium on Natural Products and Medicinal Chemistry, Mona, Jamaica, **1994**.
- Mootoo, B. S.; Ramsewak, R. S. Studies on Meliaceae Plants. Poster presentation at the XIth Caribbean Conference of Chemistry and Chemical Engineering, U.W.I., St. Augustine, Trinidad, March 6–10, **1995**.
- Mootoo, B. S.; Ramsewak, R. S. Further Briareins from *Briareum asbestinum*. Poster presentation at the XIth Caribbean Conference of Chemistry and Chemical Engineering, U.W.I., St. Augustine, Trinidad, March 6–10, **1995**.
- Mootoo, B. S.; Ramsewak, R. S. Further Briareins from *Briareum asbestinum*. Poster presentation at the C.U. Hauser Natural Products Symposium, University of Colorado, Boulder, CO, May 24–26, **1995**.
- Ramsewak, R. S.; Nair, M. G. Bioactive Compounds from Selected Plant Sources. Poster presentation at the 38th Annual Meeting of the American Society of Pharmacognosy, University of Iowa, Iowa City, IA, July 26–30, **1997**.
- Ramsewak, R. S.; Nair, M. G. Isolation and Characterization of Phytochemicals with Anti-inflammatory and Antioxidant Activities. Poster presentation at the 39th Annual Meeting of the American Society of Pharmacognosy, Orlando, FL, July 19–24, **1998**.
- Mootoo, B. S.; Ramsewak, R. S. Novel Marine Natural Products from Caribbean Octocorals. Poster presentation at the 10th Marine Natural Products Symposium, Japan, June 24–28, **2001**.
- Frank, J.; Ramsewak, R. S. Spectroscopic Characterization of Bioactive Natural Products. Poster presentation at the Mona Symposium on Natural Products and Medicinal Chemistry, U.W.I., Mona, Jamaica, January 6–11, **2008**.
- Hosein, A.; Ramsewak, R. S. Astrobiological Implications of Organic Compounds in Extreme Environments. Poster presentation at the Astrobiology Science Conference (ABSCICON 2008), Santa Clara, CA, April 14–17, **2008**.
- Frank, J.; Powder, Y.; Ramsewak, R. S. NMR Studies and Biological Activity of Secondary Metabolites. Poster presentation at the Mona Symposium on Natural Products and Medicinal Chemistry, U.W.I., Mona, Jamaica, January 4–8, **2010**.
- Latchman, S.; Rampersad, A.; Ramsewak, R. S. Phytochemical Screening and Biological Evaluation of Local Plant Species. Poster presentation at the Mona Symposium on Natural Products and Medicinal Chemistry, U.W.I., Mona, Jamaica, January 3–6, **2012**.
- Ramsewak, R. S. Advances in Natural Products Research in Trinidad and Tobago. Presented at the Chemistry Conference 2018, Department of Chemistry, U.W.I., St. Augustine, Trinidad, **2018**.
- Ramsewak, R. S. Organizing Committee Member and Delegate. Commonwealth Chemistry Congress Symposium, Department of Chemistry, U.W.I., St. Augustine, Trinidad, May **2023**.