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23 **Interpreting the Indigenous and imported heritage of medicinal and culinary plant use**  
24 **in St. Vincent through the Gardens of John Nero and Alexander Anderson**

25

26 **Abstract**

27 This paper explores how two very different ‘heritage’ gardens on the Caribbean island of St.  
28 Vincent hold a mirror to the rich and complex socio-cultural and botanical history of the wider  
29 Caribbean region, reflecting the different approaches to the historic cultivation and exploitation  
30 of indigenous and imported plant resources for culinary and medicinal ends. We start with a  
31 consideration of a small-scale gardening project in the village of Greiggs undertaken by John  
32 Nero, a Garifuna (‘Black Carib’). This venture acts as a focus of a local community heritage and  
33 educational initiative, and attempts to reflect an emic view on the authenticity of Garifuna  
34 culinary and medicinal plant use. The second case, the botanical garden in Kingstown (one of  
35 the oldest botanical gardens in the New World and associated with the Scottish botanist Dr  
36 Alexander Anderson d.1811) offers a distinct contrast, and is considered as a modernist,  
37 colonialist and etic project, reflecting the botanical heritage of the Caribbean in the context of a  
38 global imperialist crossroads, and as a tool for a formalised scientific research. The two gardens  
39 differ in terms of scale, history, and cultural background but both are intimately connected to the  
40 themes of migration, colonisation, resistance, and post-colonial socio-economic development  
41 seen through an ethnobotanical lens on this small and under-researched Caribbean island.

42

43 **Keywords: St. Vincent; Plant use; Medicinal; Culinary; Heritage**

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45

46

## 47 <H1>Introduction

48  
49 Writing in her 1999 collection of essays *My Garden*, the Caribbean writer Jamaica Kincaid (b.  
50 1949) reflected on her visits as a child to the botanical garden in St John's, Antigua (Kincaid  
51 1999: 106), which she recalled as being an enormous expanse, and 'edenic'. Her writing captures  
52 the tension at the core of this paper: the formal botanical garden as essentially a global  
53 enlightenment and modernist project of categorisation, colonialism, and control, whilst  
54 simultaneously an attempt at creating a 'paradise' on earth (Prest 1981). As well as botanical  
55 gardens, Kincaid also celebrates the informal, smaller scale, African-Caribbean gardens that have  
56 their roots in the shared plots and yard-scapes of the plantation experience, places where  
57 medicinal and culinary plants with applications drawn from indigenous, African, and European  
58 knowledge systems were cultivated. In this paper we will be considering both types of garden  
59 which while representing the competing worldviews of in effect the coloniser and the colonised,  
60 both also reflect the international and cross-cultural dimension of Caribbean plant use.

61  
62 The present volume focuses on recent advances in the wider area of Caribbean ethnobotany.  
63 Here we attempt to see the history of plant exploitation on a single Caribbean island (St. Vincent,  
64 Windward islands) through the lens of heritage, so this entails considering issues of differing  
65 approaches to the interpretation of botanical history. Such questions include how this complex  
66 botanical history reflects more general historical trajectories, as well as current concerns around  
67 the important questions of de-colonisation and indigenous rights. Much of the focus of Caribbean  
68 ethnobotanical writing in recent years (see for example Carney 2003; Carney and Rosomoff  
69 2009; Voeks and Rashford 2012 *inter alia*) reflects a broader and older anthropological debate

70 surrounding issues of ‘creolisation’ (itself a problematic term) versus the survival of African  
71 cultural memes, as represented respectively by the positions of the anthropologists Sidney Mintz  
72 and Melville Herskovits (Price 2001). These works are important because they emphasise the  
73 agency of enslaved peoples, and the use of botanical resources in culinary and medicinal  
74 contexts as a means to reinforcing and celebrating African identity, and to some degree  
75 resistance against the dominant system of enslavement and colonial capitalism (Schiebinger  
76 2017).

77  
78 Less attention has been paid to the history of the survival of ‘indigenous’ (i.e. pre-contact)  
79 insular Caribbean plant use (it is beyond the scope of this paper to consider the use of the  
80 different ethnic labels, see Keegan and Hofman 2017: 11-15), but reconstruction of these  
81 foodways can be accessed (if rarely) via archaeological analysis, study of early colonial archival  
82 material, and contemporary ethnographic research (cf. Hofman *et al.* 2018; Newsom 2008). Of  
83 the third ‘strand’ of Caribbean botanical history, the ‘colonial’ or ‘global’ outlook, perhaps  
84 understandably, little has been written (e.g. Faggi *et al.* 2012), but one of the most important  
85 recent works, Barry Higman’s survey of Jamaican food (Higman 2008), is significant because it  
86 draws the three ethnobotanical ‘strands’ together to consider the importance of food in framing a  
87 post-colonial Jamaican social identity. This is a concept to which we shall later return with  
88 reference to the Garifuna people of St. Vincent.

89  
90 Having broadly contextualised the scope of this paper, let us return to the specific aims, namely  
91 how this rich cross-cultural botanical heritage is interpreted and displayed in two contrasting  
92 settings on St. Vincent, and how these settings reflect wider historical and contemporary issues

93 in the Caribbean region around questions of indigenous knowledge, de-colonisation, identity and  
94 politics. Before engaging with the gardens themselves, we will next consider the concept of plant  
95 knowledge and gardens as heritage, before outlining a brief historical background, and then  
96 delineating the methodological approaches that underpinned data gathering and interpretation.  
97 We shall then go on to consider the gardens of John Nero and Dr Alexander Anderson in turn,  
98 both products of different historical circumstances, and analyse what light they can throw on  
99 important questions around Caribbean ethnobotany. Let us now turn first to the question of the  
100 relationship between ethnobotany and heritage with reference to the two gardens.

101

## 102 <H2> Theoretical, historical and methodological contexts of the study

103 When we talk of heritage, we are referencing a broad concept that encompasses physical places  
104 (tangible heritage) and tradition and ideas (intangible heritage). Within the framework of this  
105 paper, our focus is upon two gardens, museums of plant life essentially, each reflecting different  
106 historical and social contexts. These are tangible places, with tangible plants that can be studied,  
107 sensed and interpreted (for example using guide-books, digital media or basic signage). These  
108 tangible spaces reflect a deep well of intangible heritage: historical botanical knowledge systems.  
109 In the case of John Nero's garden, this information is derived and curated through the lens of  
110 generations of Garifuna plant use, drawing upon indigenous, African, and colonial memory-sets.  
111 In the case of Dr Alexander Anderson's garden, the intangible botanical heritage embodied here  
112 is distilled from global knowledge systems gathered firstly in the 18<sup>th</sup> century within the context  
113 of a modernist project, and geared towards making the machinery of the colonial edifice run  
114 more smoothly through finding alternative and sustainable methods for feeding people and  
115 combating tropical diseases. Botanical gardens exist in many different global settings and reflect

116 an enlightenment and modernist need to categorise, control and improve. They are also the most  
117 visible of botanical heritage settings (see Lee *et al.* 2018, for an alternative perspective Acton  
118 2011).

119  
120 The Windward island of St. Vincent was, unlike some of its Caribbean neighbours, not colonised  
121 by Europeans immediately. In the 18<sup>th</sup> century it had the status of being an independent ‘Carib’  
122 territory, home to a small French settler population, with a modest increment of Africans, and the  
123 ‘island/red/yellow’ Caribs, and Garifuna (or ‘Black Caribs’), a group of people whose roots were  
124 in the intermixing of runaway African enslaved peoples from neighbouring islands and the  
125 indigenous ‘island/red/yellow’ Caribs (for a more detailed discussion on ethnic identity see  
126 Gullick 1985). It was only after the conclusion of the Second Carib War in 1797 that the British  
127 were able to consolidate control, establish a small sugar industry and choose the new capital  
128 Kingstown as the site of an important botanical experiment. Many Garifuna were forcibly  
129 deported to Roatan island (Honduras) where many of their descendants live today (Finneran and  
130 Welch 2020). Having outlined the broader historical context, mention needs to be made of the  
131 underpinning methodology that informed the project design.

132  
133 In studying John Nero’s garden, we took an ethnographic and contemporary approach. Our  
134 research is based upon a series of informal and unstructured interviews conducted between 2018-  
135 20 among eight informants (including Nero himself) at the village of Grieggs (six informants  
136 were interviewed while preparing food for sale at the National Heroes Day celebrations on  
137 March 14<sup>th</sup> 2018, 2019 and 2020). Subjects ranged across the types of plants grown, their  
138 medicinal and culinary uses, the parts of plants used, folklore surrounding plant use, and places

139 of origin of the plants. In addition, we also referred to exhibition boards created by the Garifuna  
140 Heritage Foundation at an event held around the National Heroes Day commemorations in  
141 March 2020. The plant names, including the Latin names, are taken directly from the exhibition  
142 board, and in places vary from *The Kew Plant List* (<http://www.plantsoftheworldonline.org>; see  
143 appendix A for a cross referenced list). The exhibition developed by the Garifuna Heritage  
144 Foundation was part of an ongoing education effort in regard to indigenous plant use on the  
145 island, and thus speaks directly to Garifuna understandings of plants rather than correct botanical  
146 terminology (cf Higman 2008: 104 who refers to multiple identifications of ‘callaloo’ in  
147 Jamaica). This is a common theme when trying to identify plant sources: nomenclature varies  
148 across time and place.

149  
150 In studying Dr Alexander Anderson’s garden we took a historical and archival approach. The  
151 sources we used include the 1785 list of plants in the St. Vincent Botanical Garden categorised  
152 against the 1792 and 1806 lists of the same, together with the 1791 list of *West Indian Medicines*  
153 *and their Cures* (Anderson 1790). These plants are listed in this paper as transcribed and as such  
154 there are variations in spelling, and again the naming of the plants does not always conform to  
155 *The Plant List* (see Appendices B and C; this part of the paper draws on and develops work on  
156 the St. Vincent Botanical Garden by Richard Howard (Howard 1954), and the transcriptions of  
157 some of the Anderson archives by Howard and his wife Elizabeth, but much of the material is  
158 presented for the first time in print). We also visited the botanical garden on several occasions in  
159 2019-20, undertaking guided and unguided tours, and noting how the botanical history of the  
160 garden was communicated. Having established the broad contexts for the study, we now turn to  
161 our first garden.

162



163

164

165 **Figure 1: Map of St. Vincent showing key sites mentioned in the text**  
 166 **([https://www.arcgis.com/home/webmap/viewer.html?webmap=89db2a206d224a0f88121211](https://www.arcgis.com/home/webmap/viewer.html?webmap=89db2a206d224a0f881212119000e163)**  
 167 **9000e163)**

168

### 169 <H3>John Nero's Garden and the heritage of indigenous Garifuna plant use

170 The authors have been working alongside the Garifuna Heritage Foundation since 2018 on a  
 171 strategy for heritage tourism and educational outreach (Finneran and Welch 2020). The idea of  
 172 the Garifuna existing in a more 'natural' and 'indigenous' world was continually stressed by all  
 173 those we spoke to during the study (Garifuna and non-Garifuna alike), and central to this was the  
 174 attachment to landscape and the ubiquitous small-scale domestic 'provision ground' (a wider



175 Caribbean cultural theme, see DeLoughrey 2011). Working directly with the Garifuna  
176 community in the village of Greiggs, in September 2018 we ran a community heritage workshop  
177 which resulted in a change of emphasis for their March 2019 National Heroes Day village  
178 festival, focussing on selling home-cooked Garifuna food and home-grown Garifuna produce as  
179 expressions of their heritage, and a celebration of Garifuna culinary and medicinal plant  
180 knowledge (as noted above the majority of our ethnographic interviews were conducted in these  
181 informal celebratory settings). It was the recognition of this intimacy and connection with plant  
182 sources that led us to investigate the question of Garifuna plant use in more detail.

183



184

185

186 **Figure 2: John Nero's Garden, Greiggs Village, July 2019 © Finneran 2019**

187

188 On a visit to Grieggs in the Summer of 2019, at the suggestion of the Garifuna Heritage  
189 Foundation, we met with one of the leading lights of the community, John Nero, a descendant of  
190 the last Garifuna village chief. On hearing about our interest in Garifuna plant exploitation, he  
191 proudly showed us his community heritage initiative: an authentic Garifuna provision ground,  
192 providing a living museum of Garifuna plant resources used for medicinal and culinary purposes.  
193 His small ancestral plot on the northern margins of the village in the shadow of a mountain  
194 measured c. 35 metres by 100 metres and development work on it started in early 2019. By  
195 March 2020, Nero had started to cultivate a wide range of traditional Garifuna culinary and  
196 medicinal plants in neat raised-beds bordered by local rocks (see Figure 2). Sugarcane bounded  
197 the site and screened off the nascent eco-tourism focussed heritage centre. In addition to the  
198 heritage aspect, Nero saw the garden as a project to help engage economically deprived youth in  
199 the area, where they would learn traditional Garifuna plant cultivation techniques and the  
200 medicinal and culinary contexts of the plants, as well as general life skills by working as part of a  
201 team, and more specific ecological skills such as making a compost toilet.

202  
203 There are no formal interpretative elements here for the visitor, information is given orally and in  
204 a storied manner; an approach which mirrors the vernacular intimate Garifuna attitude to plant  
205 use and landscape. A strength of John Nero's garden is its connection with place and the depth  
206 of knowledge Nero has about his land and what grows there. Using Nero's expertise, our  
207 ethnographic interviews, and analysis of the content of a traditional plant use exhibition at the  
208 Garifuna Heritage Foundation, National Heroes Day celebrations in March 2020, we were able  
209 to construct a schedule of contemporary Garifuna plant use (Appendix A), and compare and  
210 contrast with historical data from the St. Vincent Botanical garden. The historical data comprises

211 Dr Alexander Anderson's 1785 list of plants in the Botanical garden, categorised against his  
212 1792 and 1806 lists of plants classified as: of medicinal and economic value, as esculents, of  
213 medicinal use, of economic use, as valuable woods, as fruits, or as ornamentals (Appendix B)  
214 and Anderson's 1791 list of West Indian medicines and their cures (Appendix C). In order to  
215 compare and contrast the contemporary Garifuna schedule of plant use with Dr Anderson's lists  
216 and categories of plants, we needed to classify the contemporary plants in his historic style.  
217 Thus, of the 66 plants named in our exploration of contemporary Garifuna ethnobotany, 20 were  
218 purely medical, 28 were solely for culinary use, 13 were both culinary and medical (including  
219 cocoa which although having economic purposes is grown on a very small-scale), 2 plants were  
220 for medicinal and economic use and 1 for culinary and economic use (economic including insect  
221 repellents and calabash vessels), and 2 related to narcotics; *Cannabis sativa* (Hemp) – 'Ganja'  
222 which is religious to the Rastafarian community who share the village with the Garifuna, and  
223 *Datura x candida* (Solanaceae) – 'Angel's Trumpet/Brugmansia' which contains hallucinogenic  
224 compounds. Although the vast majority of plants used by the Garifuna today are for culinary use,  
225 a significant number are grown as everyday medical cures, and here there is an interesting  
226 parallel with Anderson's 1791 list of plant cures which details a range of ailments common to the  
227 time; although notably some illnesses changed named (dropsy is better known today as a form of  
228 oedema), and others such as yaws (which was once prevalent especially amongst the island's  
229 enslaved population (Nicholls 1894: 42)), have been eradicated.

230  
231 Health and health care on St. Vincent is not without its constraints, fiscal and social (MOHWE  
232 2014) and there are high rates of poverty on the island, especially amongst the Garifuna. Further,  
233 many Garifuna villages such as Greiggs, are located in the more remote parts of the island where

234 access to hospitals and health centres can be tricky. As such it is notable that the range of  
235 ailments treated with plants are the more common ones; fever (6 plants), pain relief (5 plants),  
236 purgative, laxative and diuretic (5 plants), stomach pains (4 plants), worms (4 plants), anti-  
237 inflammatories (4 plants), skin problems (2 plants), gout (2 plants), malaria (2 plants), venereal  
238 disease (2 plants) and general aches (1 plant). At the Greiggs village festival in March 2020, we  
239 additionally found *Aloe vera* on sale for use with cuts and burns, and a home-made salve to assist  
240 with sores, bites and spots. With little recourse to pharmaceutical products, residents in Greiggs  
241 and other remote Garifuna villages heal themselves with traditional remedies; these are of course  
242 relatively cheap (if not free), and time-honoured, which for a people such as the Garifuna who  
243 have sorely felt the effects of colonialism, provides them with a sense of autonomy, and pride in  
244 their traditions.

245  
246 The traditional knowledge that we gathered from Nero and other Garifuna (essentially intangible  
247 botanical heritage) builds upon that collected by Dr Anderson in the early days of the St. Vincent  
248 Botanical Garden. Anderson's 1791 list of plant cures was derived from vernacular, intimate and  
249 smaller-scale domestic connections with the landscape that drew directly upon indigenous,  
250 African-Carib, and enslaved African knowledge systems of plant use, and these sources remain  
251 evident today in that, for example, the use of the term Kojo root may relate to a Fante (Akan)  
252 personal name, and that Eddoes and Taro/Dasheen, whilst native to eastern Asia would have  
253 arrived on the island via west Africa through the Transatlantic slave trade. Yet the contemporary  
254 plant list also incorporates contemporary Western medical understandings. Signage on the  
255 Garifuna plant use exhibition included the information '*Cartharanthus roseus* (Madagascan  
256 periwinkle); extract used in drugs against leukaemia and Hodgkins disease' and '*Portalaca*

257 *oleracea* (common purslane); High oxalic acid levels harmful... High Omega 3 values'. In a  
258 sense then, contemporary Garifuna ethnobotany is the sort of 'creolised' economic botanical  
259 knowledge visible across the Caribbean, evidencing both traditional indigenous and African  
260 plant practices, as well as use and knowledge of plants brought in during the colonial era by  
261 settlers such as Dr Anderson, and post-colonial Western scientific medicinal plant knowledge.  
262 However, of relevance to this paper in particular was the absence of plant taxonomy from the  
263 March 2020 Garifuna culinary and medical plant use exhibition boards; only the scientific and  
264 local names were provided. The exhibition signage therefore highlighted an engagement by the  
265 Garifuna with Western scientific systems of knowledge (which are understood as an important  
266 and necessary element in the context of botany), but emphasised that local culturally-specific  
267 ways of knowing are preeminent.

268

269 The Garifuna elders and community leaders that we spoke with lamented that traditional plant  
270 knowledge has been marginalized in contemporary St. Vincent, and indeed even forgotten by all  
271 bar a few die-hard people determined to keep traditions alive. Indeed, the Garifuna Heritage  
272 Foundations' culinary and medical plant use exhibition was part of an on-going effort to reclaim  
273 indigenous medical and culinary plant practices, whilst John Nero's garden is a project to revive  
274 Garifuna approaches to land-use. Notably, in 2008, the Food and Agricultural Organisation of  
275 the United Nations reported that 'Over the past ten years no action has been taken on  
276 inventorying and surveys of plant genetic resources *in situ* as represented by wild plants for food  
277 and agriculture (medicinal herbs, wild fruits, forage grasses, forage legumes etc)' (FAO 2008:  
278 10). In St. Vincent, over a decade on, this still holds true. As more North American-inspired 'fast  
279 food' ways of consumption take over from traditional provision grounds, the younger Garifuna

280 population are taken ever further away from traditional foodstuffs, and with an emphasis placed  
281 upon more industrialized modes of food production, focus is frequently placed upon one or two  
282 crops; as such, the Garifuna are fast losing a central part of their heritage. However, the loss of  
283 ethno-botanical knowledge has more than just implications heritage depletion, for should anyone  
284 doubt the efficacy of these oft-forgotten and localized modes of economic botanical production,  
285 the 2014 outbreak of the mosquito-vectoring disease Chikungunya was combatted, successfully in  
286 some cases, with traditional herbal medicines (Baloda 2016).

287

#### 288 <H4> Alexander Armstrong's Enlightenment Globalised Garden

289 We now turn to a garden of a quite different character. Discussions on the establishment of a  
290 botanical garden on the St. Vincent date to June 1765, two years after the country was ceded to  
291 the British as part of the Treaty of Paris (February 1763). The island was under the control of the  
292 British War Office, and effectively a garrison. The Governor of ceded territories, General Robert  
293 Melville (1723-1809), on a visit the island met with Dr. George Young (c.1726-1803), the  
294 surgeon of the island's military hospital, and suggested the establishment of a botanic garden that  
295 would provide medicinal plants for the military. To this end Melville ordered six acres of  
296 previously delegated military land to be set aside for this purpose and instructed Young to get  
297 information about indigenous medicines from 'all quarters' of the island, even if that had to be  
298 paid for by seeking out 'physical practices of the country, [from] natives of experience and ...  
299 old Caribs and slaves who have dealt in cures' (Melville in Howard and Howard 1983a: 12;  
300 Howard 1996: 1-2). As such, the establishment of the botanical garden was almost totally reliant  
301 on the ethno-botanical knowledge of the islands indigenous and African-Carib populations, and  
302 enslaved African peoples.

303  
304 With the botanical garden designed to aid the colonial development and military occupation of  
305 the island, Dr Young had expected financial aid from London, however, this was not  
306 forthcoming. As such Dr Young decided to initiate his own programme of plant introduction.  
307 Liaising with both the British War Department and East India Company, he gained seeds and  
308 plants from tropical India, British North Borneo, Sabah and Sarawak in the East Indies, and  
309 China (Howard & Howard 1983a: 12-15) and by drawing on his French horticultural contacts, he  
310 travelled to obtain plants and seeds from the French Caribbean (Howard 1996: 2). In 1773, just  
311 six years after the garden's establishment, Dr Young produced a list of plants growing on the  
312 site, which John Ellis, a notable English naturalist, stated were, 'the most useful plants, intended  
313 for the general benefit of the American Islands, many of which may in time become profitable  
314 articles of commerce' (Ellis 1773: 10). As such the development of St. Vincent's botanical  
315 garden grew from just ensuring the health and welfare of those engaged in the island's  
316 occupation, to also securing the Britain's colonial future in the Americas.

317  
318 The primary need for medicinal plants to aid British colonialism is evident from reports on the  
319 condition of the men in the Kingstown garrison during the Carib wars of 1769 and 1773. Beset  
320 with 'extensive sickness among the soldiery' eventually a treaty had to be negotiated with the  
321 warring Caribs (Greene 2013: 1). But it was not only the military that was in need for medicines  
322 to assist the successful colonisation of St. Vincent, for succumbing to topical diseases affected  
323 soldier and settler alike, and Melville's decision to establish a botanical garden with a medicinal  
324 bent was one that anticipated this need (Dillman 2015: 155).

325

326 The development of the botanical garden as a source for medicinal plants was slow. By 1773  
327 Young only had 15 medicinal plants growing. These ranged from laxatives and diuretics to  
328 remedies for coughs, with just one plant (*simarouba*) being used to treat malaria (Howard 1997-  
329 98: 14); it is perhaps no wonder that so many succumbed to Caribbean diseases. In 1784, after a  
330 hiatus of French re-occupation, Young recommended the garden be handed over to a younger  
331 man and nominated Dr Alexander Anderson (1748-1811). Anderson was a Scottish surgeon and  
332 botanist who owned a personal library that contained many medicinal books of the time (Howard  
333 1994) and his commitment to the cause led him to live on site in the Botanical gardens (the  
334 Superintendents House – see fig. 3) with his wife Elizabeth and a young ‘mulatto’ (Pomeroy  
335 1990: 148 n.18) originally from Antigua by the name of John Tyley who Anderson employed as  
336 a watercolor artist; Tyley’s signature appears on 10 of the 148 illustrations in *Hortus Vincentii*  
337 *Tabulae* which Dr Anderson compiled circa 1800 (Howard 1997-98: 17).

338  
339 In 1785 Anderson received orders from the botanist and president of The Royal Society of  
340 London for Improving Natural Knowledge (now The Royal Society) Sir Joseph Banks, to submit  
341 a list of plants growing in the botanical garden and to report his new botanical introductions at  
342 quarterly intervals thereafter (Banks 1792). A list of the plants dated 1 June 1785 appears as part  
343 of a letter from Dr Anderson to Banks. The 1785 list and letter (MSS And: Fol. 160) is housed in  
344 the Natural History Museum in London, and records, according to Howard (1996), at least 348  
345 different kinds of plants categorized into commercial, medicinal, esculent (edible), ornamental or  
346 timber species. It further includes, again according to Howard, all the useful plants on Dr George  
347 Young’s 1773 list (Howard 1996: 3). The original document has not been digitized, nor it is  
348 available to view due to fire damage, but there is an old photocopy available by appointment. In



349 examining this photocopy, although the quality is poor, the Latin list of plant names is largely  
350 readable, and is published here as Appendix B. However, on closely inspection of the plant list  
351 (MSS And: Fol. 160), we contend that this manuscript is not as Howard claims, Anderson's 1785  
352 list comprising 348 plants, and Young's 1773 list of useful and economically important plants.  
353 To support this finding, we noted that the whilst the document comprises two parts, the first part  
354 is a two-page neatly written list of plants with the first page titled, dated (June 1<sup>st</sup> 1785), and  
355 signed by Anderson. It comprises 50 plant names in two closely spaced columns, with the second  
356 page listing 9 plants (although the first plant listed is unreadable due to the fire damage). This  
357 second page concludes with a comment on the Tobago nutmeg noting, 'this appears to be a  
358 species of the true nutmeg, may probably be improved by cultivation, I have yet to perfect  
359 specimens of it ...'.

360  
361 The second list of plants in MSS And: Fol. 160, comprises 29 pages. This list is split into two  
362 sections. Section one comprises a list of approximately 348 plants over 26 pages; the listed plants  
363 are in widely spaced single columns on the right-hand side of the paper, although the title is  
364 missing due to the fire damage. Occasionally on the left-hand side of the paper is noted  
365 additional plant names accompanied by the number 87 or 1787 (totally 18 plants); several of the  
366 right-hand listed plants also have 1787 after them (totally 16 plants). The second part of this  
367 second list comprises 3 pages and lists approximately 57 plants closely spaced with some  
368 additional comments; some entries have a number suggesting the quantity of these plants (i.e.:  
369 *Gardenia florida* - - - 1), others have a number and additional information (i.e.: *Elais guineensis*  
370 - - - oil palm 2), and several more have just additional information (i.e.: *Randia aculeata* –  
371 bastard indigo).

372  
373 As the second part of MSS And: Fol. 160 is very different in layout and neatness of script to the  
374 first part, we strongly suggest it may be a working copy of plants post-dating Anderson's neatly  
375 presented 1785 two-page list of circa 59 plants; indeed the 87 or 1787 additions suggests the  
376 second longer list postdates 1787. The final page of this second document lists 'Oranges,  
377 Shaddoxhs, Limes, Lemons' noting that 'many of them [have been] destroyed by sheep &  
378 cattle', and of the Tobago nutmeg states: 'bearing fruit may probably be improved by culture is  
379 evidently a species of nutmeg;' this is a resumé of the comment on the same plant found on the  
380 shorter, neater document dated 1785. Thus, it is our contention that only the plants listed in the  
381 first document were in cultivation on Anderson's arrival in 1785; that is there were a little over  
382 59 plants in situ the year after Anderson took charge of the garden, not the 348 plants as Howard  
383 contends. This means that the Botanical garden was very poorly developed in its earliest years.  
384  
385 However, whilst Anderson's 1785 list of plants may be somewhat slight in number of varieties, it  
386 reveals much about the development of the garden and its importance as a place for medicinal  
387 and economically valuable plants. It also represents a modernist and colonialist desire to classify  
388 and typologise. By comparing the plants listed in this document (the 1785 list of circa 59 plants)  
389 to Anderson's later lists of plants (a 1792 list send to Banks (Banks 1792: 56.02), and a 1806 list  
390 of plants sent to The Society of Arts (Guilding 1825: 31-47)), the make-up of garden in its early  
391 years is made clear, and the development of Anderson's botanical knowledge is evidenced. Of  
392 the circa 59 plants, 20 are medicinal (commercial and medicinal, or just medicinal), 13 are edible  
393 (Esculents, and Fruits), 12 are valuable woods or have other economic value, and 8 are  
394 ornamental or exotic; 2 plants on the 1785 list have a different gross category in relation to the

395 1792 and 1806 lists, and 3 of the 1785 listed plants we have been unable to identify – it is likely  
396 local names were noted that dropped out of use once taxonomy was more securely formed. Thus,  
397 we can state that between 1773 (using Youngs list of plants in Ellis 1773) and 1785 (using  
398 Anderson’s list of circa 59 plants in MSS And: Fol. 160), only 5 additional medicinal plants were  
399 introduced and remained viable. In this period, life on the island was chaotic for the British  
400 settlers with not only after-effects of the First Carib War (1769-1773), but also the effects of  
401 Island’s occupation by the French (1779-1783), and by looking at later lists, it is evident that  
402 cultivating and understanding the use of medicinal plants in the Botanical garden was a priority.  
403

404 In 1791 Anderson compiled another list of the plants. In this list, additional information to the  
405 plant name is provided. Typically the additional information relates to the quantity or quality of  
406 each plant; i.e.: in ‘The Most Valuable in Medicine and Commerce’ we find ‘*Canella alba* – in  
407 plenty’, in ‘For Economical Uses’ we find ‘*Agave vivipara* – fences, thread liner’, and in  
408 ‘Valuable Woods’ we find ‘*Calophyllum calaba* – a very valuable wood, a beautiful tree’. It  
409 appears that as the botanical garden developed, so did Dr Anderson’s understanding of the plants  
410 growing there. This is most clear from his honesty about his limited knowledge of several  
411 species; one section is entitled ‘The Following not having as yet flowered in the garden, I am  
412 unable to ascertain them’ and in this he notes simply, ‘*Gondola* – by Captain Blyth’, and ‘*Wild*  
413 *Tamararina* – Bahama Island’; Anderson mentions only what information he had.  
414

415 Anderson’s 1791 list of plants in the Botanical garden on St. Vincent is unpublished and  
416 comprises part of an uncatalogued correspondence held in the Royal Botanical Garden archives  
417 at Kew (Anderson 1790). In his letter ‘State of His Majesty’s Botanical gardens, Island of Saint

418 Vincent, June 24 1791', Anderson notes the garden has 16 acres under cultivation, employs one  
419 gardener and 12 'negroes'. As well as the plants previously under cultivation, he also lists those  
420 introduced since 25<sup>th</sup> March of that year. The list is divided into a number of sections: 'The Most  
421 Valuable in Medicine and Commerce', 'Esculent', 'West Indian Medicine', 'for Commercial  
422 Uses', 'Valuable Woods', 'Fruits', 'Exotics of whose properties are yet unknown', and 'the  
423 beautiful and rare plants in the garden'. Of interest here is his list of 53 medicinal plants with  
424 their cures. Information on the cures appear to have been gained from a variety of sources as  
425 several plants mention a category of people; French settlers, local Caribs, and enslaved Africans.  
426 The transcribed list of West Indian Medicine plants is provided in Appendix C.

427  
428 In cross-checking Dr Anderson's 1791 list of medicinal plants against those appearing under the  
429 medicinal category in the aforementioned 1792 and 1806 lists, it is notable that several plant  
430 names have slightly amended spellings in later lists. However, 4 plants appear exclusive to the  
431 1791 list which suggests that the plants had originally been miscatalogued, or that they  
432 disappeared from the garden by natural demise or deliberate removal. However, there are two  
433 reasons why disappearance seems unlikely. Firstly, failure to thrive is improbable given the 4  
434 plants appear to have been useful to previous inhabitants. Secondly, as the listed cures for these 4  
435 plants have changed little or not at all when set against contemporary information, deliberate  
436 destruction seems implausible. We therefore contend that these 4 plants were incorrectly named  
437 on the 1791 list and appear on the later lists differently name; this explanation is supported by  
438 the 1785 list appearing to contain 3 plants with local names. Further work is required on pre-  
439 taxonomically secure plant naming (Boyle *et al.* 2013) and in particular, we suggest, in relation

440 to St. Vincent where information about medicinal plants was gathered from indigenous and  
441 enslaved peoples (Kim 2014).

442

443 Examining closely Anderson's 1791 medicinal list with its cures, a good number of common  
444 conditions are noted; ague (1 cure), cuts and flesh wounds (1 cure), digestive problems (1 cure),  
445 dropsy (2 cures), dysentery (1 cure), fever (4 cures), rash (1 cure), ringworm and parasites (2  
446 cures), thrush (1 cure), ulcers (1 cure), and yaws (2 cures). The most commonly named cure is  
447 for obstructions (9 cures), with cures for venereal disease the next most frequent (5 cures).

448 Additional plants are noted as used by 'the French' (2 cures), used by 'Blacks and Whites' (3  
449 cures), and a good number are noted as substitutes for other plants (9 cures). Many listed plants  
450 and cures assume prior knowledge as no usage information is given against them, however, some  
451 plants include information such as decoction, infusion, or use of specific parts of the plant such  
452 as roots, stems or juice. The presence of plant use information appears to suggest that these  
453 plants and cures could be new to Dr Anderson, and/or to the recipients of his lists. Although a  
454 lack of detailed information on medical plant use was commonplace during this time (see for  
455 example Culpepper's *Complete Herbal* (1850 [1653])), where Dr Anderson could, he gave more  
456 detailed information than other authors of his era. The use of cassia for belly-ache is a case in  
457 point. In 1803, a fellow settler on St. Vincent, Dr David Collins, published *Practical rules for the*  
458 *management and medical treatment of negro slaves in the sugar colonies, by a professional*  
459 *planter*. The second part of Collins' book included a variety of cures, but whilst he wrote much  
460 on each particular medical condition, where plants are mentioned, Collins fails to provide details.  
461 For instance, to cure 'Belly ache' Collins advises the use of cassia after liquid laudanum has  
462 been given (1803: 273), but he provides no information on the species of cassia, let alone which

463 part of this flowering plant should be used. However, in Dr Anderson's 1791 list, he notes that a  
 464 decoction of the leaves and roots of two specific species of cassia can be used as a substitute for  
 465 senna; senna being a recognized laxative, and constipation being a known cause of belly-ache.  
 466 Dr Anderson's more scientific approach to his plants provides a window therefore not only into  
 467 the growth and development of the botanical garden on St. Vincent, but to the vernacular use of  
 468 medicinal plants for without doubt Dr Anderson's knowledge of medicinal plants was enhanced  
 469 by local information.

470



471  
 472 **Figure 3: Contemporary print of the house of the Superintendent of the Botanical Gardens**  
 473 **c. 1824.**

474  
 475 The archival material discussed above offers an insight into the truly global reach of the garden,  
 476 yet at the same time a place also grounded squarely in local botanical knowledge too. This local

477 angle is not reflected greatly in the interpretation around the garden. Much has been written  
478 about the breadfruit and how its transplantation assisted in the development of sugar trade (see  
479 DeLoughrey 2008, Mackay 2017 [1974]) yet without prior knowledge, visitors to the St. Vincent  
480 Botanical Garden would be largely unaware of the colonial significance of this particular plant,  
481 and this is a concern as the botanical garden is not only an important heritage tourism site for the  
482 country attracting many foreign and local visitors, but is an educational resource. The garden's  
483 'Educative Trail' (established in 1998) was financed by the Ministry of Tourism and is designed  
484 to assist school children in learning about plant history and usage, and also acts as a general  
485 educational tool for Vincentians and visitors. Further, official guides can be engaged to take  
486 visitors around the site to learn about the plant specimens on the site. The guides however, have  
487 no formal training and learn their facts and figures 'on the job'; having been escorted around the  
488 garden by different guides on several occasions between 2018-2020, the authors can testify that  
489 the information varies somewhat depending on who is doing the guiding. The static displays as  
490 noted, tend to over emphasize the breadfruit's historic arrival on the island and its dietary worth  
491 at the expense of its role in providing cheap nourishment to enslaved Africans and the  
492 importance of indigenous skills in its successful propagation. Indeed, to some extent, the whole  
493 interpretative experience in the botanical garden presents a rather globalized view of plant use.  
494 By this, we mean that the stories of local and indigenous plant practices are under-played while  
495 the global (colonial) networks of plant exploitation are more highly emphasized; Figure 4 shows  
496 a contemporary view of the garden with benches for tourists and large Grecian style urns for  
497 decoration. This contrasts with the more locally rooted work undertaken by both the Garifuna  
498 Heritage Foundation, a grassroots organisation that seeks to promote Vincentian Garifuna

499 heritage and culture, and a small-scale community heritage initiative in the Garifuna settlement  
500 of Greiggs Village: John Nero's Garden.

501



502

503

504 **Figure 4: View eastwards over the Botanical Garden 2020 © Finneran 2020**

505

## 506 <H>Conclusion

507 Our studies among the Garifuna of St. Vincent highlighted the importance of intangible heritage  
508 relating to culinary and medicinal plant knowledges, and led us to study how these knowledges  
509 are showcased on the island. The historic Botanical Garden is very much the epitome of the  
510 colonial, modernist enlightenment project, a museum of globally-sourced plant material, some  
511 with culinary and medicinal uses and others with economic or ornamental value. As it was at its  
512 outset under Drs Young and Anderson, it remains clearly a project aimed explicitly supporting



513 the colonial system, framing global indigenous plant knowledge systems within a modernist  
514 context whilst negating the part played by indigenous and enslaved African peoples in gaining  
515 this knowledge. That history is particularly evident in the collections of *Lignum vitae* (a tree that  
516 produces a durable wood resistant to insect attack) and nutmeg trees, which reflect colonial  
517 period architectural and construction works and the trade in luxury culinary goods, whilst  
518 broadly supporting the economic, social and physical health of the colonizers, both civilian and  
519 military. Plant resources here derive from local, regional and more global contexts. The lack of  
520 nuance in regard to the introduction of the breadfruit to the island with its negation of its central  
521 role in keeping the enslaved peoples fed, further supports the colonial focus of the Botanical  
522 Garden today. By exploring the background to the Garden and its early development under the  
523 direction of Dr Young, and especially Dr Anderson, and through interrogating historic records of  
524 plants, it is evident that medicinal plant knowledge gathered from indigenous and enslaved  
525 peoples laid the foundations for the expansion of the settler community on the island, and  
526 colonialism in the Americas; not only was this important information provided to Dr Anderson  
527 but the knowledge travelled to learned societies in London and thence onwards.

528  
529 In contrast, the underpinning narrative of John Nero's garden speaks perhaps of something closer  
530 to pre-modern pre-enlightenment knowledge; of the importance of the local, of land and intimate  
531 connections with place. In its almost secret nature, it echoes the hidden and resistant history of  
532 the Garifuna people who largely went underground in the colonial period and yet drew heavily  
533 from the expertise of the colonizers (cf Pulsipher and Godwin 2001 for a similar ethnobotanical  
534 perspective from Montserrat). Now in the 21<sup>st</sup> century this history is being reframed as a question  
535 of Garifuna self-identity where intimate connections to ancestral landscapes and plantways are

536 being emphasized; albeit with an eye on the commercial possibilities of consuming ‘natural’ and  
537 ‘indigenous’ knowledge through an eco-heritage centre for tourists. Of course, many of the plant  
538 resources in John Nero’s garden owe their presence there to colonial contact and the socio-  
539 economic repression of enslavement; whilst important in terms of de-colonising Garifuna plant  
540 heritage it certainly does not represent a pristine Garifuna Eden.

541  
542 In studying the complex and long-term human cultural history within the Caribbean insular  
543 settings, one term frequently comes to the fore: creolisation, or cultural mixing. This is a process  
544 born out of 18<sup>th</sup>-century globalization, a factor that resulted in the ethnogenesis of the Garifuna  
545 people as well as the realization of the Kingstown Botanical Garden. While the term creolisation  
546 has often been applied to elements of portable material culture, architecture, and intangible  
547 concepts such as dance, song and religious behaviour, human-plant interaction has rarely been  
548 seen through this prism. Both heritage settings considered above offer us the chance to see this  
549 process at work, albeit in two historical different contexts, an avowedly modernist and an almost  
550 pre-modern project. Moreover, the analysis here demonstrates that the tangible and intangible  
551 heritage of Vincentian historic plant exploitation has strong continuing cultural, social and  
552 economic relevance today.

553

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684 Figure Captions

685 Figure 1: Map of St. Vincent showing key sites mentioned in the text

686 (<https://www.arcgis.com/home/webmap/viewer.html?webmap=89db2a206d224a0f88121211900>

687 [0e163](#))

688 Figure 2: John Nero's Garden, Greiggs Village, July 2019 © Finneran 2019

689 Figure 3: Contemporary print of the house of the Superintendent of the Botanical Gardens c.

690 1824.

691 Figure 4: View eastwards over the Botanical Garden 2020 © Finneran 2020

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