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REGION

BELTSVILLE AGRICULTURAL RESEARCH CENTER  
BELTSVILLE, MARYLAND 20705

July 21, 1977

Subject: Status on Plants Active from Kenya and Tanzania

To: R. E. Perdue, Jr., Chief  
Medicinal Plant Resources Laboratory

Activity data on plants active from Kenya and Tanzania were drawn together from our active books, progress reports by Drs. Cole and Wall, and Dr. Hartwell's paper "Types of Anticancer Agents Isolated from Plants."

The active books contain occasional notes on re-collections that have failed or reconfirmed. These notes appear to be based on progress reports, telephone conversations and correspondence, but documentation is not always cited.

Progress reports also mention that re-collections fail or reconfirm, but completely lack reference to PR-numbers. It would appear to be more useful to state, for example, that "PR-42638 was marginally active in P-388", rather than "A large sample received from the USDA showed marginal activity in P-388."

From reviewing progress reports, other kinds of useful information might become evident if PR-numbers were correlated with samples. For example:

The original sample of Chenopodium procerum was stated as marginally active in P-388, but the one re-collection was indicated to be highly active in P-388. I could determine this only after reviewing all of Dr. Cole's progress reports. If I had looked only at Dr. Cole's most recent progress report, the reported high activity in P-388 might be questioned as being related to an extract made from the original sample, the re-collection, or both.

Interestingly, the higher activity was from a sample of plants that were dead and dried when collected in the field.

I have compiled two lists: one representing plants active from Kenya and the other representing plants active from Tanzania. Spaces were left blank where data are needed or not yet available.

*Richard Spjut*

Richard W. Spjut, Botanist  
Medicinal Plant Resources Laboratory

cc:  
A. S. Barclay

Enclosures

## STATUS ON PLANTS ACTIVE FROM TANZANIA

Species	Activity & Date	Priority	Sample & Date of Collection	Dates of Re-Collections	Re-Confirmed	Active Agents
<i>Abutilon longicuspe</i>	PS, 2/74	L	sb, 9/71			
<i>Acacia mearnsii</i>	KB, 1/77	M	fr, 9/71			
<i>Acacia melanoxylon</i>	KB, 1/77	L	sb, 9/71			
<i>Acalypha stuhlmannii</i>	KB, 1/77	M	pl, 11/69			
<i>Acanthospermum glabratum</i>	PS, 8/73	M	st-lf, 9/71	11/73	P	Sesquiterpene lactone
<i>Acokanthera oppositifolia</i>	KB, 4/76	M, H	rt, 8/71			
" "	KB, 1/76	M	ws-sb, 8/71			
" "	KB, 4/76	M, L	tw, 8/71			
" "	KB, 4/76	M, L	lf, 8/71			
" "	KB, 2/74	L	fr, 8/71			
<i>Aeschynomene rubrofarinacea</i>	KB, 3/74	L	lf, 8/71			
" "	KB, 3/77	L	sb-tw, 9/71			
<i>Aeschynomene stolzii</i>	KB, 1/77	M	lf, 8/71			
<i>Afrocrania volkensii</i>	KB, 1/77	M	sb, 8/71			
<i>Aguaria salicifolia</i>	KB, 1/77	M	sb, 8/71			
<i>Annona senegalensis</i>	KB, 8/70		tw, 1/67	10/71, 12/72, 11/73	P (tw)	

P = a sample that reconfirmed

F = a sample that failed to reconfirm

Page 2 - Status on Plants Active from Tanzania Continued:

Species	Activity & Date	Priority	Sample & Date of Collection	Dates of Re-Collections	Re-Confirmed	Active Agents
<i>Apodytes dimidiata</i>	PS, 7/73	H	ws, 9/71	10/73, 6/76	DN	
" "		M	sb, 10/73	10/73, 6/76		
<i>Baphia kirkii</i>	PS, 3/74	L	st, 8/72	4/75		
" "	PS, 2/74	L	fr, 8/72			
<i>Berberis holstii</i>	KB, 6/73	L	rt, 8/71	11/73	(testing)	
<i>Bersama rosea</i>	KB, 12/76	H	rt, 8/71			
<i>Boophone disticha</i>	PS, 8/73		rt, 9/71	10/73	P (L-M)	
<i>Bridelia brideliifolia</i>	KB, 12/76	H	rt, 9/71			
" "	KB, 12/76	M	rt-lf, 10/71			
<i>Chenopodium procerum</i>	PS, 8/73	M	st-fr, 9/71	11/73	P	
<i>Cluytia mollis</i>	KB, 3/77	N.R.	rt-st-lf-fr, 8/71			
<i>Combretum</i> sp.	KB, 12/76	M	sb, 10/71			
<i>Commiphora pteleifolia</i>	PS, 9/76	L	st, 3/73			
<i>Crassocephalum rubens</i>	PS, 3/77	L	rt, 9/71			
<i>Crotalaria lachnocarpoides</i>	PS, 3/77	L	rt-st-lf			
<i>Croton macrostachyus</i>	PS, 4/77	N.R.	rt-tw-lf-fl-fr	(see Kenya)	P,P,P	
" "	PS, 10/73	H	ws	" "	(Kenya & Ethiopia)	Crotepoxide
" "	PS, 5/77	N.R.	sb	" "		
" "	PS, 4/73	M	rb	" "		

Page 3 - Status on Plants Active from Tanzania Continued:

Species	Activity & Date	Priority	Sample & Date of Collection	Dates of Re-collections	Re-Confirmed	Active Agents
<i>Croton sylvaticus</i>	PS, 12/73	H	rt, 8/71			
" "	PS, 8/73	L	ws, 8/71			
" "	PS, 3/77	L	sb, 8/71			
" "	KB, 6/73	M	tw, 8/71			
" "	PS, 5/77	N.R.	lf, 8/71			
" "	PS, 4/77	L	fr, 8/71			
<i>Cucumis globosus</i>	KB, 10/73	L	fr, 9/71			
<i>Cucumis</i> sp.	KB, 10/73		fr, 9/71			
<i>Dais cotinifolia</i>	PS, 12/74	H	rt, 11/73		(DS)	
" "	PS, 5/76	M	st-lf, 11/73		(DS)	
<i>Dalbergia lactea</i>	KB, 3/77	N.R.	tw, 9/71			
<i>Diospyros cornii</i>	PS, 8/74	L	st, 8/72	4/75		
<i>Ekebergia benguelensis</i>	KB, 6/73	L	rb, 8/71			
" "	KB, 6/73		sb, 8/71	10/73	P	
<i>Eugenia</i> sp.	PS, 5/74		rt-st, 9/71			
<i>Excoecaria bussei</i>	PS, 4/77	M	sb, 9/71			
<i>Fagara</i> sp.	KB, 5/76	L	sb, 8/71			
" "	KB, 3/77	N.R.	rb-sb, 8/71			
" "	KB, 3/77	M	sb, 8/71			
" "	KB, 5/76	M	rt, 8/71			
<i>Garcinia smeathmannii</i>	PS, 8/73		sb, 9/71	10/73	F	

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Species	Activity & Date	Priority	Sample & Date of Collection	Dates of Re-collections	Re-Confirmed	Active Agents
<i>Gardenia jovis-tonantis</i>		M	rt, 11/72			
" "	PS, 1/76	M	st, 11/72			
" "		H	tw, 11/72			
<i>Gnidia cluytiooides</i>	PS, 5/77	N.R.	rt-st-lf-fl 9/71			
<i>Gnidia glauca</i>	PS, 4/77	N.R.	tw-lf-fr			
" "	PS, 7/73	H	rt, 8/71	10/73	P	
" "	PS, 7/73	L	ws, 8/71	10/73	P	
" "	PS, 7/73	L	sb, 8/71	10/73	P	
<i>Gnidia kraussiana</i>	PS, 4/73	H	st-lf-fl-fr 10/71	11/73	P	Montanic acid
" "	PS, 3/73	M	rt, 8/71	3/73	P	
" "	PS, 10/73	H	rt, 9/71			$\alpha$ -monoglyceride
<i>Gnidia mollis</i>	PS, 5/77	N.R.	rt-st-lf, 8/71	11/73		
<i>Hypoestes verticillaris</i>	KB, PS, 1/74, 6/77	L	rt-st-lf, 8/71	(Kenya, Ethiopia)	P,P (marginal)	
<i>Hypoxis goetzei</i>		L	tu-lf-fl-fr 10/73			
<i>Hypoxis obtusa</i>	PS, 9/73	L-M	tu-lf-fl, 9/71	10/73	F,P,P,P,P	
<i>Isoberlinia tomentosa</i>	KB, 1/77	L	rt-tw, 10/71			
<i>Ixora latituba</i>	KB, 1/77	L	sb, 9/71			
<i>Kalanchoe</i> sp.	KB, 4/76	M	rt-st-lf, 8/71			

Species	Activity & Date	Priority	Sample & Date of Collection	Dates of Re-collections	Re-Confirmed	Active Agents
<i>Lantana trifolia</i>	PS, 4/77	L	rt-tw, 8/71			
<i>Lepidotrichilia volkensii</i>	PS, 10/73		sb, 8/71	(Kenya)	P	
<i>Macaranga kilimandscharica</i>	KB, 8/76	M	fr, 8/71			
<i>Maesa lanceolata</i>	KB, 6/73		ws, 8/71	10/73		
<i>Maprounea africana</i>	PS, 8/74	M	rt, 8/72	4/75		
" "	PS, 9/74	L	st, 8/72	4/75	P (M)	
<i>Maytenus acuminata</i>	PS, 11/74		sb, 9/71			
<i>Maytenus buchananii</i>	KB, PS, 8/72		ws-sb, 9/71			
" "	PS, 5/77	N.R.	tw, 9/71			
<i>Maytenus senegalensis</i>	PS, 8/72		ws, 8/71			
" "	KB, 1/73		sb, 8/71			
" "	PS, 3/73		rb, 8/71			
" "	PS, 2/73		wr, 8/71			
" "	KB, 1/74		tw, 9/71			
<i>Millettia oblata</i> ssp. <i>intermedia</i>	KB, 1/74	M	rt, 9/71			
" " "	KB, 1/74	M	sb, 9/71			
<i>Monanthotaxis buchananii</i>	PS, 10/76	M	tw, 1/73			
<i>Parinari curatellifolia</i>	KB, 4/77	N.R.	rt-st, 9/72			
" "	PS, 9/74	M	fr, 9/72			
<i>Peddiea fischeri</i>	PS, 6/73	M	rt, 9/71			
" "	PS, 5/73	L	ws, 9/71			
" "	PS, 4/73	L	lf, 9/71			

Page 6 - Status on Plants Active from Tanzania Continued:

<u>Species</u>	<u>Activity &amp; Date</u>	<u>Priority</u>	<u>Sample &amp; Date of Collection</u>	<u>Dates of Re-collections</u>	<u>Re-Confirmed</u>	<u>Active Agents</u>
<i>Peponium vogelii</i>	KB, 3/76	M	st-lf, 8/71	11/73		
<i>Physalis peruviana</i>	KB, 11/73	L	rt-st-lf-fr 8/71			
<i>Psorospermum febrifugum</i>	PS, 8/73	H	rt	10/73	P	
<i>Rapanea pulchra</i>	PS, 5/73		rb, 9/71	10/73		
<i>Rhus</i> sp.	PS, 10/73		tw, 8/71			
<i>Saba florida</i> " "			st, 9/73 tw, 9/73			
<i>Salacia madagascariensis</i>	PS, 8/75		rt, 3/74			
<i>Schrebera alata</i>	PS, 4/73		rb, 9/71	10/73, 2/75, 5/75		
<i>Sphenoclea zeylanica</i>	PS, 9/76	L	rt-st-lf, 1/73			
<i>Spirostachys africana</i>	PS, 1/75	L	st, 8/72	4/75	P (L)	
<i>Tarenna graveolens</i> " "	PS, 1/76 PS, 3/76	L L-M	st, 3/73 tw, 3/73	11/76 11/76		
<i>Tephrosia nyikensis</i> " "	KB, 1/76 PS	M L	fr, 10/71 sd, 10/71			
<i>Tylophora</i> sp.	KB, 3/74		st-lf, 9/71			

Page 7 - Status on Plants Active from Tanzania Continued:

Species	Activity & Date	Priority	Sample & Date of Collection	Dates of Re-collections	Re-Confirmed	Active Agents
<i>Uvaria kirkii</i>	KB, 9/75	M	tw-1f, 3/74			
" "	KB, 8/75	L	rt, 11/72			
" "	KB, 8/75	M	1f, 11/72			
<i>Ximenia caffra</i>	PS, 7/73		rt, 9/71	11/73 (Kenya)	F	
" "	PS, 4/73	M	ws-sb, 9/71			

7/21/77  
RWS:jaa

## STATUS ON PLANTS ACTIVE FROM KENYA

Species	Activity & Date	Priority	Sample & Date of Collection	Dates of Re-collections	Re-Confirmed	Active Agents
<i>Acacia mearnsii</i>	KB, 3/77	L	sb, 11/66			
<i>Acokanthera longifolia</i>	KB, 11/68		tw, 11/66	2/69, 12/69		Acolongifloroside K,
" "	PS, 10/69		lf, 11/66	12/69		Acovenoside A,
" "	PS, KB, 2/70		ws-sb, 11/66	12/69		Opposite
<i>Adenium obesum</i>	KB, 1/71		st-lf-fl, 11/69	10/71	P	Somalin
" "			rt, 11/72			3,3-Di-O-Methyl Quercetin, Hongheloside A, Monoglycoside
<i>Adhatoda schimperana</i>	PS, 1/77	N.R.	rt-st, 12/69			
<i>Albizia grandibracteata</i>	KB, 6/70		sb, 12/67	2/73		
<i>Anacardium occidentale</i>	KB, 6/73		wr, 11/69			Anacardic acid(?), Anacardol(?)
<i>Antiaris toxicaris</i>	KB, PS, 8/70		sb, 12/67	11/71	F	
<i>Aspilia africana</i>	KB, 2/66		sb, 6/64	11/66	F	
<i>Azadirachta indica</i>	KB, 6/73		wr, 11/69			

P = a sample that reconfirmed

F = a sample that failed to reconfirm

## Page 2 - Status on Plants Active from Kenya Continued:

Species	Activity & Date	Priority	Sample & Date of Collection	Dates of Re-collections	Re-Confirmed	Active Agents
Begonia meyeri-johannis	KB, 6/73		st, 12/66			
Bersama abyssinica	KB, 3/70		lf, 11/67	11/71, 2/73		Bersaldegenin
" "	PS, 8/70		tw, 11/67	11/71, 3/76	P	3-acetate
" "	KB, 5/71		fr, 12/67			Bersaldegenin 1,3, 5-orthoacetate
						Bersamagenin 1,3, 5-orthoacetate
						Berscillogenin
						Bersenogenin
						(+)-Dimethylisol- ariciresinol-2 -xyloside
						3-Epiberscillo- genin
						Hellebrigenin 3,5- diacetate
						16 B-Hydroxy- bersaldegenin 1-acetate
						16 B-Hydroxy- bersaldegenin 3-acetate
						16 B-Hydroxy- bersaldegenin 1-3-5, ortho- acetate
						Scilliglaucosidin
Bersama abyssinica ssp. paullinoides var. englerana	KB, 8/70		rb, 1/68	11/71		
" " "	KB, 8/70		wr, 1/68	11/71		
Bidens kirkii	PS, 1/77	N.R.	rt-st-lf-f1 12/67			

Page 3 - Status on Plants Active from Kenya Continued:

Species	Activity & Date	Priority	Sample & Date of Collection	Dates of Re-collections	Re-Confirmed	Active Agents
Bridelia micrantha	WM, 7/69		sb, 11/66	12/69, 1/70, 1/72	F	DM(3/71) Inactive in PS
Brucea antidysenterica	PS, 11/76		st-lf-fr, 1/67	From Ethiopia & Kenya	P	Bruceantin & others
Carissa bispinosa	KB, 11/71		tw, 1/70	11/71 (PS test data never completed or not sent to chemist).		
Carissa edulis	PS, 2/72		tw, 1/70	1/65, 1/70, 4/75, 4/76	P	9KB inactive methanol/water fraction has good P-388 activity; later re-collections less active in P-388
Cassine buchananii	KB, 3/71		tw, 12/69	8/71, 1/72, 3/73	F	
" "	KB, 3/71		lf, 12/69	12/69	F	
Caylusea abyssinica	PS, 8/69		st-lf-fl-fr 1/67	2/70, 12/71, 1/73	F	
Chaetacme aristata	PS, 10/69		sb, 11/66	12/69, 1/72	F	
Chlorophytum gallabatense	KB, PS, 9/71, 1/72		lf, 1/70	11/71, 1/73	P	
Clausena anisata	PS, 5/72		tw, 1/70	10/72		
" "	PS, 4/72		lf, 1/70	10/72	F	

## Page 4 - Status on Plants Active from Kenya Continued:

Species	Activity & Date	Priority	Sample & Date of Collection	Dates of Re-collections	Re-Confirmed	Active Agents
<i>Commiphora boiviniana</i> var. <i>crenata</i>	KB, 2/77	M	tw, 12/69			
<i>Crassocephalum mannii</i>	PS, 8/69	L	if, 1/67	2/70	P (first reported as inactive)	
<i>Crinum kirkii</i>	KB, PS, 9/71	M	bu-st-lf-fl 1/70	2/73, 4/74	F,F,P	
<i>Croton macrostachyus</i>	PS, 5/70	H	rt, 1/68	11/71, 2/73		Crotepoxyde
<i>Croton megalocarpus</i>	PS, 10/69		sb, 11/66	12/69, 1/72, 4/76	F	
<i>Croton pseudopulchellus</i>	PS, 8/71		tw, 11/69	10/71		
<i>Cyphostemma kilimandscharica</i>	PS, 11/69		tw, 11/67	2/70, 11/71	F,P(D)	
<i>Cyphostemma orondo</i>	PS, 1/70		st-lf-fr, 1/70	1/73	F,P	
<i>Desmodium repandum</i>	WM, 9/68 PS, 4/70		tw-lf, 1/67	2/69, 11/71	F	
<i>Dioscorea bulbifera</i>	PS, 6/77	L	tu, 12/67			
<i>Duranta repens</i>	PS, ?	M	st-lf, 9/67	Re-collected in another country		
<i>Euphorbia candelabrum</i>	PS, KB, 3/71, 5/72	M	rt, 11/69	10/71		

Page 5 - Status on Plants Active from Kenya Continued:

Species	Activity & Date	Priority	Sample & Date of Collection	Dates of Re-collections	Re-Confirmed	Active Agents
<i>Fagara chalybea</i>	PS, 1/76	L	tw, 1/70			
" "	KB, 11/71		rb, 1/70			
" "	PS, 2/72		wr-rb, 1/70	11/71	P	Nitidine chloride
<i>Fagara usambarensis</i>	PS, 1/72		tw, 1/70	3/73	P	TLC assay indicated low nitidine
<i>Fagaropsis angolensis</i>	KB, 9/71	M	tw, 1/70	11/71, 4/76	P	
" "	PS, 4/72	M	rb, 1/70	74, 76		
<i>Funtumia africana</i>	KB, 9/76	M	sb, 5/76	5/76 (Ghana)		
<i>Garcinia volkensii</i>	PS, 5/77	N.R.	tw-sb, 12/66			
<i>Gnidia lamprantha</i>	PS, 5/70		rt, 12/67	11/71, 2/73	P	Gnidicin, Gnididin, Gniditrin
<i>Gnidia latifolia</i>	PS, 2/72	M	rt, 12/69	11/72	P	
" "	PS, 2/72	H	ws, 12/69	11/72, 1/73	P	
" "	PS, 7/72	H	sb, 1/70	1/73	P	
" "	PS, 2/72	M	tw, 1/70	1/73	P	
" "	PS, 4/72	L	lf-fl, 1/70	1/73	P	
<i>Gnidia subcordata</i>	PS, 10/69	H	tw-lf-fl 11/66	12/69, 1/70, 11/71, 12/73, 74	P	
<i>Gomphocarpus fruticosa</i>	KB, 7/71		st-lf-fl-fr 12/66	3/73		
<i>Hibiscus aponeurus</i>	KB, 8/71	M	rt, 12/66			

## Page 6 - Status on Plants Active from Kenya Continued:

Species	Activity & Date	Priority	Sample & Date of Collection	Dates of Re-collections	Re-Confirmed	Active Agents
<i>Hypoestes verticillaris</i>	KB, 9/76	M	rt-st-lf-fl 11/66	12/69	P (marginal)	
" "	KB, 11/68	L	st-lf-fl-fr	12/69	P (marginal)	
<i>Jatropha multifida</i>	PS, 5/77	L	tw-lf-fl 12/66			
<i>Juniperus procera</i>	KB, 7/71		sb, 12/66	11/71, 2/73		
<i>Kalanchoe densiflora</i>	KB, 8/70		st, 11/67	11/71	F	
<i>Kigelia moosa</i>	PS, 4/77	N.R.	sb, 12/67			
<i>Leonotis millissima</i>	PS, 1/77	N.R.	st-lf, 11/67			
<i>Lepidotrichilia volkensii</i>	PS, 11/69		sb, 12/66	2/70, 12/71, 1/73	F,P	
" "	PS, 11/69		lf, 12/66	12/71	P (tw-lf)	
<i>Lupinus hirsutus</i>	PS, 1/77	N.R.	st-lf-fl-fr 12/67			
<i>Macrorungia pubinervia</i>	PS, 11/76	L	rt-tw, 1/68			
<i>Manilkara discolor</i>	PS, 10/69		sb, 11/66 rb, 12/69	12/69, 1/72, 74	P (marginal) P (moderate)	
<i>Maytenus buchananii</i>	PS, LE, KB, 1/70		ws-sb, 11/71	6/72	P	Maytansine and other compounds

## Page 7 - Status on Plants Active from Kenya Continued:

Species	Activity & Date	Priority	Sample & Date of Collection	Dates of Re-collections	Re-Confirmed	Active Agents
<i>Maytenus heterophylla</i>	PS, 11/69		tw, 11/67	12/69, 1/70, 8/71		Maytansine, Maytanbutine, Maytanprine
" "	PS, 11/69		lf, 11/67	12/69, 1/70, 8/71		
" "	KB, PS, 11/69, 3/70		sb, 11/67	12/69, 1/70		
" "	PS, 11/69		ws, 11/67	12/69, 11/71, 10/72		
<i>Maytenus mossambicensis</i>	PS, LE, KB		tw, 1/70	11/71, 12/72		
<i>Maytenus putterlickioides</i>	PS, 10/73		rt, 1/70?	1/73	?	
<i>Maytenus senegalensis</i>	PS, 11/76	N.R.	tw-lf-fl-fr 12/67			Dulcitol
<i>Maytenus undata</i>	PS LE, 1/71, & 1/72	H	ws, 12/69	12/69, 11/71, 11/72, 6/73		
<i>Melia azedarach</i>	KB, 5/71		rt, 11/69	10/71		
" "	KB, 10/73		ws, 11/69	5/74 (Alabama)		
" "	KB, 3/77		sb-tw, 11/69			
<i>Momordica foetida</i>	PS, 12/76	N.R.	st-lf-fl, 1/67			
<i>Mundulea sericea</i>	KB, 10/73	M	rt, 11/69			
" "	KB, 10/73	M	tw, 11/69	9/76		
" "	KB, 10/73	M	ws, 11/69	9/76		
" "	KB, 1/71	M	sb, 11/69	10/71		

Page 8 - Status on Plants Active from Kenya Continued:

Species	Activity & Date	Priority	Sample & Date of Collection	Dates of Re-collections	Re-Confirmed	Active Agents
<i>Myrsine africana</i>	SA, WA, 10/66		st-lf, 10/64	1/65, 2/73		Myrsine saponin
<i>Ocimum suave</i>	PS, 12/76	N.R.	tw-lf, 11/66			
<i>Ornithogalum longibracteatum</i>	KB, 11/71		bu-st-lf-f1-fr 1/70	12/72, 3/73		
<i>Oxyanthus speciosus</i>	PS, 12/76	L	tw, 12/67			
<i>Peddiea volkensii</i>	PS, 3/77	L	sb-tw, 12/66			
<i>Pergularia daemia</i>	PS, 6/72	M	fr, 1/70	Ghana		
<i>Periploca linearifolia</i>	KB, 3/77	M	st-lf, 12/67			
<i>Phoenix reclinata</i>	KB, 3/77	M	rt-lf, 12/67	12/72 (Ethiopia also)	F,P (WM-erratic)	
<i>Phyllanthus beillei</i>	KB, 1/71		lf, 11/69	10/71, 11/73	P,F	
<i>Physalis peruviana</i>	PS, KB, 6/77	M	st-lf-fr 11/67			
<i>Podocarpus milanjianus</i>	KB, PS, 8/71, 6/72		sb, 12/66	1/73, 11/73	P (sb- (marginal)	
<i>Psychotria bagshawei</i>	PS, KB, 8/70	H	rt, 1/68	11/71		Fractionation is continuing
" "	PS, KB, 8/70	H	ws-sb, 1/68	11/71		
" "	PS, KB, 8/70	M	tw, 1/68	11/71		
" "	PS, KB, 8/70	L	lf-fr, 1/68	11/71		

Page 9 - Status on Plants Active from Kenya Continued:

Species	Activity & Date	Priority	Sample & Date of Collection	Dates of Re-collections	Re-Confirmed	Active Agents
<i>Pycnocoma littoralis</i>	PS, 2/72		ws-sb, 12/69	11/72	(pl. parts?)	
" "	PS, 4/72		tw, 12/69	11/72		
" "	PS, 5/72		lf, 12/69	11/72		
<i>Rapanea pulchra</i>	WM, 10/69		tw-lf, 1/69 (Uganda)	2/70, 9/71, 10/71	F	
<i>Rauvolfia mombasiana</i>	KB, 9/71		wr, 1/70	11/71, 12/72	P	
<i>Ricinus communis</i>	PS, 11/69		fr, 11/67	1/70, 5/70		
<i>Rothmannia urcelliformis</i>	WM, 4/69		ws-sb, 11/66	12/69, 1/72	F	
<i>Sansevieria ehrenbergii</i>	KB, 4/77	M	st-lf, 11/66			
<i>Sapium ellipticum</i>	KB, 4/77	L	sb, 1/68			
<i>Schizozygia coffaeoides</i>	KB, 4/77	N.R.	rt, 1/70			
" "	PS, 3/72	L	tw, 1/70	12/72		
" "	KB, 11/71	L	lf, 1/70			
<i>Senecio moorei</i>	PS, 3/77	N.R.	st-lf-fl, 12/67			
<i>Solanum aculeastrum</i>	KB, 6/77	L	st-fr, 11/67			
<i>Solanum nakuruense</i>	KB, 4/77	N.R.	tw-lf-fl, 12/66			
<i>Strophanthus courmontii</i>	KB, 1/74	M	ws-sb, 1/70			
<i>Strophanthus kombe</i>	KB, 1/76	M	sd			

## Page 10 - Status on Plants Active from Kenya Continued:

Species	Activity & Date	Priority	Sample & Date of Collection	Dates of Re-collections	Re-Confirmed	Active Agents
<i>Strychnos henningsii</i>	PS, 10/69		ws, 11/66	12/69, 11/71, 11/72		✓
<i>Strychnos madagascariensis</i>	PS, 3/77	N.R.	tw, 11/69			
<i>Tabernaemontana elegans</i>	KB, 4/71	L	rt, 11/69	10/71, 4/74		
" "	KB, 4/71	L	ws, 11/69	10/71, 4/74		
" "	KB, PS, 9/71	L	sb, 11/69	10/71, 11/71		
" "	KB, 9/71		rb, 1/70	10/71, 11/71		
" "	KB, 7/71	L	wr, 1/70	10/71, 11/71		
" "	KB, 9/71	M	tw, 1/70	11/71, 4/74, 8/76		
" "	KB, 9/71	L	lf, 1/70	11/71, 4/74, 8/76		
<i>Tabernaemontana holstii</i>	KB, 9/71	H	wr, 1/70	11/71, 8/76	P	
" "	KB, 9/71		rb, 1/70	11/71, 12/72		
" "	KB, 9/71	M	ws, 1/70	11/71, 12/72, 4/74, 8/76	P	
" "	PS, 1/72	M	fr, 1/70			
<i>Tabernaemontana</i> sp. aff. <i>holstii</i>			rt, 11/71	11/71		
" " "	PS, 3/70		tw, 12/67			
<i>Tabernaemontana johnstonii</i>	KB, 2/70 PS		sb, 12/66	11/71, 1/73, 2/73	P	Voacamine
<i>Tabernaemontana ventricosa</i>	PS, 8/74	H	rt, 1/68	10/76		
<i>Tacazzea galactogoga</i>	KB, 4/77	M	tw-lf-fr, 12/67			

Page 11 - Status on Plants Active from Kenya Continued:

Species	Activity & Date	Priority	Sample & Date of Collection	Dates of Re-collections	Re-Confirmed	Active Agents
Tarchonanthus camphoratus	KB, 5/77	L	sb, 11/67			
Teclea simplicifolia	PS, 4/72		sb, 1/70	11/72	P (marginal)	
Teclea trichocarpa	KB PS, 9/71	L	sb, 1/70	11/71, 12/72	P (marginal)	
Tephrosia interrupta	KB, 4/77	N.R.	rt-st-lf, 11/67			
Tephrosia noctiflora	KB, 4/71		rt, 11/69	10/71	F	
Terminalia brownii	KB, 11/71		wr, 1/70	11/71, 1/73		
" "	KB, 9/71		rb, 1/70	11/71, 1/73		
" "	KB, 9/71		sb, 1/70	11/71		
" "	PS, 4/72		tw, 1/70	1/73		
Terminalia fatraea	KB, 4/71		ws, 11/69	10/71		
" "	KB, 4/77	N.R.	sb, 11/69	10/71		
Terminalia mollis	KB, 5/77	N.R.	sb, 1/68			
Tiliacora funifera	KB, 4/77	L	rt-tw, 1/68			
Toddalia asiatica	PS KB, 9/65		sb, 12/62	2/69, 1/70, 8/71	P	Nitidine
Urginea altissima	KB, 9/71		bu, 12/69	10/71, 3/73		Scilliglaucosidin
Uvaria acuminata	KB, 1/71		rt, 11/69	10/71, 11/73	P	Uvaretin

Page 12 - Status on Plant Active from Kenya Continued:

Species	Activity & Date	Priority	Sample & Date of Collection	Dates of Re-collections	Re-Confirmed	Active Agents
<i>Vellozia aequatorialis</i>	PS, 7/72		rt-st-lf, 1/70	12/72	P (marginal)	
<i>Vermonia glabra</i>	KB, 3/77	N.R.	st-lf-fl-fr, 1/60			
<i>Warburgia ugandensis</i>	KB, 3/77	M	sb, 11/66			
<i>Withania somnifera</i> (also active from Spain)	KB, 3/77	N.R.	st-lf-fl, 12/66	11/73 (Tanzania)		

7/21/77  
RWS:jaa