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About the Institute

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.



DIVISION OF BIOLOGICAL SCIENCES
DEPARTMENT OF POPULATION AND
ENVIRONMENTAL BIOLOGY
IRVINE, CALIFORNIA 92664

September 8, 1967

Dr. D. J. Rogers
Taximetrics Laboratory
Department of Biology
Armory 101
University of Colorado
Boulder, Colorado 80302

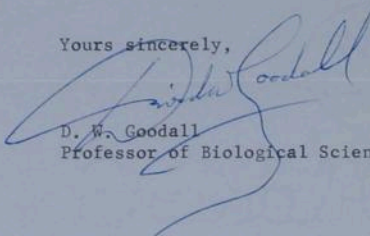
Dear Dr. Rogers:

It was a great pleasure to meet you and your colleagues at College Station two weeks ago, and I hope that we shall be able to resume discussions on our mutual interests at a not too distant date.

Your paper on Cassia Section Apoucouita arrived here last month, and I can take this opportunity, rather belatedly, of acknowledging it. Particularly, now that I have heard something of the work at the meeting, I shall be glad of the chance to read a full account of it.

Best wishes!

Yours sincerely,



D. W. Goodall
Professor of Biological Sciences

DWG:ss

Taximetrics Laboratory

Armory 101

1 August 1967

Dr. Howard S. Irwin
The New York Botanical Garden
Bronx Park
Bronx, New York 10458

Dear Howard:

The Cassia article is getting a pretty good distribution.
Enclosed is the copy of our mailing.

Sincerely,

David J. Rogers
Professor of Biology

DJR:gm

Enc

P.S. We signed and returned the loan slips for your specimens recently.

THE NEW YORK BOTANICAL GARDEN
BRONX • NEW YORK 10458  LU 4-8500

June 16, 1967

JUN 22 1967

Dr. David J. Rogers, Professor of Botany
Taximetrics Laboratory
Department of Botany and Plant Pathology
Colorado State University
Fort Collins, Colorado 80521

Dear Dave:

I, too, thought they did a pretty good job getting out the Cassia article, although the handling of the gate-folds was not as well done as I had hoped. In answer to your question about reprint distribution, my list is as follows (excepting the usual card inquiries that have begun to come in):

NSF (2)	Herb. Bradeamum	Museu Nacional, Rio
Smithsonian	Missouri Bot. Gard.	Jardim Botânico, Rio
Brasília (Univ.)	Univ. Michigan	Tucuman
Surinam For. Dept.	Science	San Isidro
British Museum	Brittonia	Kew
Brussels	Taxon	Inst. Botanico, São Paulo
Guyana For. Dept.	Inst. Agron. do Norte	Utrecht
Copenhagen	INPA, Manaus	Inst. Botanico, Caracas
Stanford	Univ. Calif. - Berkeley	Stockholm
Bogotá	" " - Los Angeles	Geneva
Gray Herb.	Inst. Miguel Lillo	Zurich
Chicago	Univ. Mexico	Texas
For. Herb., Oxford	Museu Goeldi	

In addition, I have sent some to my bean friends, including Cowan, Schubert, Lima, Burkart, Turner, Iseley, Symon, Brenan, etc.

I had hoped to get out to Ann Arbor for the symposium, but my internal problems that hampered the Brasília work have cropped up again, and I'm half-deadened on medication for a week or so. But, as Arthur says in typical lunch-table pun-ese, kidney stones are something that pass.

For the record, could I have a copy of your distribution list?

Cordially,



Howard S. Irwin
Herbarium Administrator

HSI:af

- Taximetrics Laboratory

June 2, 1967

Dr. Howard Irwin
New York Botanical Garden
Bronx Park
Bronx, New York 10458

Dear Howard:

The reprints of our paper came and it looks great. The only thing that I suggest that we do next time is that we include the $S(1,1)$ values for the different levels on the fold out. As you know, we have a pretty large number of reprints of it and I would like to coordinate my sending them out with you. Do you have some sort of standard list of people to whom you expect to send copies? I doubt that we will overlap very much but we might as well coordinate it if we can.

Nothing new or different has developed. Things are still on track for our symposium in Texas in August, and our move to Boulder is all arranged. Henry, George and Bob have moved down already and I will join them July 1.

Somebody, I think Bob Breach, sent me a Xerox of a page from the annual report where Bill said that we had wiped out NYBG's interest in computing. That was an interesting comment.

Sincerely,

David J. Rogers
Professor of Botany

DJR/ch

September 9, 1966

Dr. Howard Irwin
The New York Botanical Garden
Bronx Park
Bronx, New York 10458

Dear Howard:

Good news on the publication of our paper. Should I ask about the numbers of copies of the Memoirs that are distributed? Or is this an explosive topic with BM? I guess that reprints will be available.

I am sending under separate cover a preprint of an article which is scheduled to appear in the November issue of BioScience, and another mimeographed set of instructions needed in the preparation of the final data for running. You will see from the preprint that we have added a number of refinements in methodology about characters which you should welcome. Some of these ideas were generating while in New York, but have now become "operational." That is, we can handle these modifications in our new program.

You need no longer use the Port-A-Punch. Instead, a form similar to the one enclosed may be used. This will please you, I hope.

We welcome the opportunity to run more Cassia. There are some considerations which you will want to know about, however. You should begin considering that the use of the computer is an item of expense in your research, and that funds for this are as justifiable as any other expendable money. The need for this type of funds is probably evident to you. We could consider the first runs that we made for you as a valid part of our research in the development of the programs, and therefore chargeable to our own grant. But we must now consider that there are no more "bugs" in the program, and that any use of it afterwards is considered as "production." Our own funds are used up, as far as graph is concerned, and any money that we have for programming will go into development of other, equally vital, programs.

An estimate of the costs to you can be made, provided we know the number of objects you wish to run. We pay \$100/hr. for the present computer. I can only guess that this figure will remain stable. That does not include our time involvement, but for a while, we won't consider time expenses as an expense to you. If others begin to

September 9, 1966

request our assistance (which they already have), we will have to charge them for the work, and if they have no computer of their own, then charges for running on ours.


I mentioned earlier that we are developing other programs. One of these is, or should be within the next couple of months, running here. This is "character analysis" and I'll not give any details other than to say that it should be useful before the similarity-clustering program, to determine which characters (and attributes) are doing the job, and how well. We might consider that your data could be experimental for this program, if you're interested. I should think you would be, but can't be sure. The biggest effort now is going into methods for information retrieval systems, and we are in the throes (or throws?) of writing a proposal to tackle the fancy of NSF. That ain't easy, as you know.

Sincerely,

David J. Rogers
Professor of Botany

DJR:ch

Enc.

THE NEW YORK BOTANICAL GARDEN
BRONX • NEW YORK 10458  LU 4-8500

7 September 1966

Dr. David J. Rogers,
Taxonomy Laboratory,
Dept. of Botany & Plant Pathology,
Colorado State University,
Fort Collins, Colorado 80521

SEP 9 1966

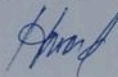
Dear Dave:

I've just checked with Bob Breach and all systems are go with Irwin & Rogers Cassia Sect. Anoucouita. However, things will remain stalled on the preparation of Vol. 15 (in which this paper will appear) because Koyama has not yet delivered ten promised pages, and he isn't likely to do so until he returns from Tokyo on Oct. 1. Assuming Koyama's satisfaction of this need by the end of October, Breach tells me that Christmas is a reasonable publication date for Vol. 15.

As you may remember, the next section of Cassia I propose to take up, Sect. Absus, is considerably larger than the last. It contains several confused complexes which require computer techniques for evaluation. Could you let me know if things stand about where they did at the time of your departure; at any rate, I'd like some idea of current procedure as it would affect me vis-à-vis the procedure used 3 or 4 years ago. I would prefer to again record data in the book before going to cards, but had best wait to hear from you before going into detail.

Vol. 1 of Wild Flowers of the U.S. will be out on the 16th, on which date Lady Bird will be in town to receive the first copy. Needless to say, feathers are being preened for the occasion, although the exclusion of all guests (for "security" reasons), even wives, leaves me a bit cool.

Cordially,



Taxonomy Laboratory

August 25, 1966

Dr. Howard Irwin
The New York Botanical Garden
Bronx Park
Bronx, New York 10458

Dear Howard:

Business first, yak later.

Footnotes to be added to our joint paper:

- 1/ Computing methodologies research has been supported by Contract No. Nonr 3640(00), the Office of Naval Research, and by Grant GM 11208, the National Institutes of Health, to the junior author.
- 2/ Formerly Curator of Quantitative Taxonomy, The New York Botanical Garden; presently Professor of Botany, Colorado State University, Ft. Collins, Colo. 80521.

Perhaps it would be wise to add a third footnote with something of the following ideas included:

- 3/ Anyone interested in the computer methodologies employed in this work should address his inquires to the junior author.

You can use whatever format for these that is required by the Memoirs.

I didn't have too much luck with the seeds you sent me from Brazil. The only ones that germinated were numbers 10937, 11051, and 11701. Of these, the first one bit the dust about two weeks after it began. The other two are (seemingly) happy. I'm sorry about losing the first one because it seemed to be one of those species with simple leaves (at least in the seedling stage). Though we tried many different treatments--different germination techniques, soil and water regimes, etc., we just didn't know enough about the requirements to make them go. Perhaps some microrhizal activities should have been at work. But anyway, did you collect specimens for each of the seeds you sent? I feel that that is almost an insulting question, but am really eager to get the specimens since there seemed to be much good character information in the seeds, which I need desperately.

Our work here sounds almost like a broken record--difficulty getting a satisfactory arrangement with the computers, programming problems, lack

Dr. Howard Irwin

- 2 -

August 25, 1966

of time and funds, etc. Our planned use of an IBM 7094 via a tele-processing line from here to the Los Angeles location of the hardware never worked out because of the confusion in the center in LA. Any programs we sent through the line seemed just to go down the drain—we never got any response. The hardware on this campus is too small (at the moment) to handle our work. So, we have been renting time on an IBM 7044 in the Graduate School of the University of Colorado, Boulder. We hope to have a monster RCA computer installed on this campus this coming fall, but we'll be stuck with rewriting again for another manufacturer's hardware. And so it goes—trying to carry on a million dollar program with a peanuts budget.

In spite of all this, we love it here in Colorado. I wouldn't go back to the mess in NY for all of IBM's hardware, nor even yet to NYBG, though sometimes we miss the library facilities. Your nutshell summary of events there gave Henry and me a real belly laugh. Hope you found your house in good shape after the year's absence. Regards to the family.

Sincerely,

David J. Rogers
Professor of Botany

DJR:ch

THE NEW YORK BOTANICAL GARDEN
BRONX • NEW YORK 10458  LU 4-8500

22 August 1966

Dr. David J. Rogers,
Dept. of Botany & Plant Pathology,
Colorado State University,
Fort Collins, Colorado 80521

Dear Dave:

Back at the old NYBG stand and face to face with a pile of accumulated problems, among them the non-publication of Irwin & Rogers Cassia. The lit. cit. and acknowledgements are written and submitted (for the second time), but before the works goes to Ereech I wanted to check on whether you have anything you'd like included under the latter head -- grant no's or whatever. Can you let me hear soon?

The promised office is still in the category of dreams, so for the moment I'm back in the old hole, just vacated by Iain who, with family in tow, is off to Manaus for 7 mos. Bassett has run off with a suitcase full of handkerchiefs to the backwoods of Maine. Koyama is in Japan. Steere has a professional fund-raiser out scaring up 10 million for a whole bevy of projects, among them another wing for the Museum bldg. Arthur presides at the lunch table. Gen is just back from 2 weeks' vacation in Florida, replete with short red hair. Wow!! Krukoff is happily taking his decibels off to Guatemala for a few weeks. Whew! Clark tells me Koyama has promised 10 more pp. of ms. for the Memoirs issue which will carry our paper. If K. doesn't get the stuff in within a month, Clark says he is going ahead without it. That seems to be the schedule.

Best regards to your family and to Henry & George.

