


Plant Cell Biology  
Botanical and Exp. Garden  
Radboud University Nijmegen

**Nijmegen living Solanaceae collection and Herbarium**


Titti Mariani and Gerard van der Weerden



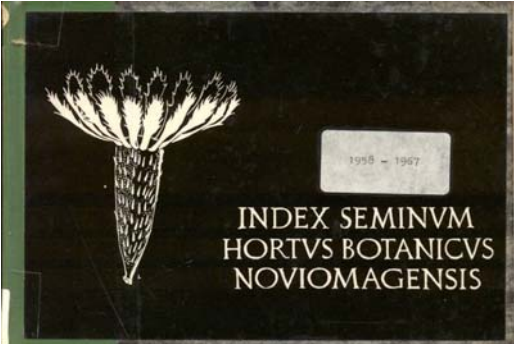
**HISTORY**

- 1958: Professor Linskens starts collection
- 1968: Dr. G. Barendse sets up the first Database and electronic seed list
- 1986: Curator G.van der Weerden expands collection


Personnel: 1 Curator & 3.5 gardeners  
Funding: Radboud University of Nijmegen (previously C.U.N)



**HISTORY**



INDEX SEMINVM  
HORTVS BOTANICVS  
NOVIOMAGENSIS




**COMPOSITION**


WHAT WE HAVE

RU Solanaceae collection March 2009

	number of accessions	number of species	number of genera	unidentified accessions	accessions in herbarium
living collection	3156	616	53	428	2419
herbarium collection	2261	627	60	459	2261
	5417			887	4680



**SOLANACEAE DATABASE**




Botanical and Experimental Garden  
Radboud University Nijmegen, The Netherlands

The Botanical and Experimental Garden of the Radboud University of Nijmegen pays special attention to the family Solanaceae and maintains the most extensive in situ plant collection of non-tropical Solanaceae species in the world.

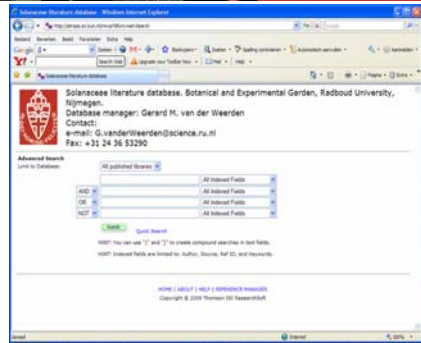
The conservation of the genetic resources of the Solanaceae is of great importance, since many Solanaceae species provide for important sources of food, medicine and ornamental crops, but in addition several species have served well in providing basic knowledge, genetic engineering and genetic studies. The Botanical and Experimental Garden of the Radboud University of Nijmegen has opted for the conservation of Solanaceae species within the framework of the International Solanaceae Plant Collection of the Botanical Garden in The Netherlands. Worldwide collaboration and/or exchange has been established, especially with international institutes with Solanaceae germplasm collections.

The Botanical and Experimental Garden belongs to **The Institute for Wetland and Water Research**, Faculty of Science, Radboud University Nijmegen, which consists of several departments and laboratories.

The Solanaceae databases of the Botanical and Experimental Garden  
The extensive Solanaceae collection maintained the Botanical and Experimental Garden is well documented by passport data, illustrations, herbarium and bibliographic. To make all this information on Solanaceae readily available to interested parties, all this information is stored in databases which can be searched online.



**SOLANACEAE DATABASE**




Solanaceae literature database, Botanical and Experimental Garden, Radboud University, Nijmegen.  
Database manager: Gerard H. van der Weerden  
Contact:  
e-mail: G.vanderWeerden@science.ru.nl  
Fax: +31 24 36 53290

Advanced search  
Link to database: All published literature

AND: All Inland Fruits  
OR: All Inland Fruits  
NOT: All Inland Fruits

1997 You can use " " and " " to create compound searches in text fields.  
1997 Inverted fields are limited to: Author, Source, Ref ID, and keywords.


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## OBJECTIVES


**WHAT WE DO WITH IT**

- Conservation and taxonomic verification of a wide range of wild non- tuber bearing Solanaceae.
- Regeneration and seedbank storage
- Making accessions available for research and education
- Dissemination of information regarding passport data, characterization & evaluation data and literature references




## UTILIZATION OF THE COLLECTION

- ESIN: European Solanaceae Information Network (EU project on database development)
- EGGNET: EGGplant Genetic Resources NETwork (EU project on Management, Conservation and Valorisation of Genetic Resources of Eggplants)
- Explore Solanaceae biodiversity to learn the mechanisms of plant adaptation to biotic and abiotic stress factors




## PROJECTS

**Taxonomy of African *Solanum***



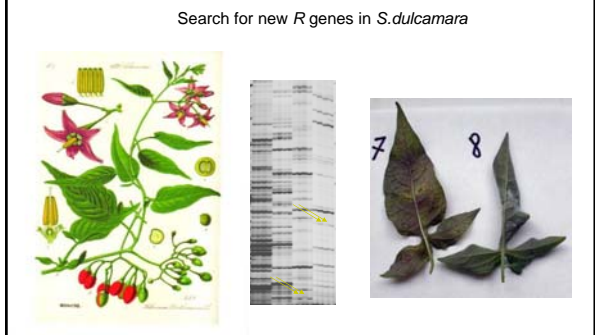

A Historical Herb of African *Solanum* L.  
Herbarium, Natural History Museum



## PROJECTS

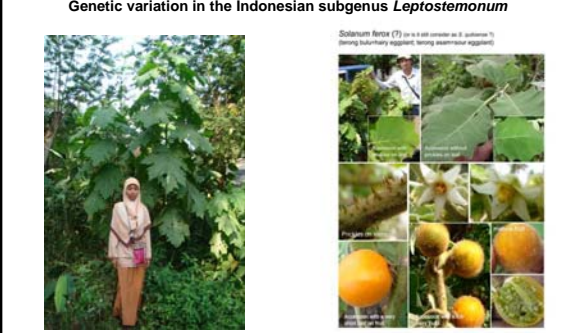
**RESISTANCE AGAINST PATHOGENS**

Search for new *R* genes in *S. dulcamara*

## PROJECTS

**Genetic variation in the Indonesian subgenus *Leptostemonum***




*Solanum ferocis* (T) (ex n. coll. consens. ex G. Sultana) (f)  
Herbarium, Natural History Museum



## CURRENT PROJECTS Involving Solanaceae





**Policy**

- Keep focus on Solanaceae
- Partnership with CGN (complementary focus)
- Collection recognized by Min. of Agriculture
- Part of the Multilateral System of Access and Benefit Sharing
- Part of the Solanaceae Working Group (coordinated by IPGRI -> Biodiversity International)



**FUTURE**

- Stronger internationalization
- More participation in International Networks
- Get more independent funding