



Enoch G. Achigan-Dako (Autor)
**Phylogenetic and genetic variation analyses in
cucurbit species (Cucurbitaceae) from West Africa:
definition of conservation strategies**

Enoch G. Achigan-Dako

**Phylogenetic and genetic variation
analyses in cucurbit species
(Cucurbitaceae) from West Africa:
definition of conservation strategies**



 Cuvillier Verlag Göttingen

<https://cuvillier.de/de/shop/publications/1301>

Copyright:

Cuvillier Verlag, Inhaberin Annette Jentsch-Cuvillier, Nonnenstieg 8, 37075 Göttingen,
Germany

Telefon: +49 (0)551 54724-0, E-Mail: info@cuvillier.de, Website: <https://cuvillier.de>

Contents

1. Introduction.....	2
1.1. Definition of conservation approaches for plant genetic resources: theoretical background.....	2
1.2. Systematics of Cucurbitaceae.....	7
1.3. Cucurbitaceae in phytochoria and agro-ecosystems of West Africa.....	8
2. Rationales, objectives and sampling strategies.....	9
2.1. Rationales and problem definitions.....	9
2.2. Objectives, hypotheses, sampling strategies.....	13
3. Results.....	15
3.1. Phylogenetic re-evaluation of the tribe Benincaseae (Cucurbitaceae) by nrDNA ITS sequences.....	15
3.2. Flow cytometric analysis in <i>Lagenaria siceraria</i> (Cucurbitaceae) indicates correlation of genome size with usage types and growing elevation.....	32
3.3. Genetic differentiation and phylogenetic analysis of African and Asian <i>Lagenaria siceraria</i> (Cucurbitaceae): definition of the subspecies <i>egusi</i> in West Africa.....	45
3.4. Phenetic analysis of wild populations of <i>Momordica charantia</i> L. (Cucurbitaceae) in West Africa and inference of the definition of the new subspecies <i>macroloba</i> Achigan-Dako & Blattner.....	59
3.5. Phylogeography, phylogeny, and ecoclimatic niche modelling in West African <i>Momordica charantia</i> (Cucurbitaceae): differentiation across ecological gradients.....	77
4. Discussion.....	91
5. Abstract.....	94
6. Zusammenfassung.....	95
7. References.....	96
8. Abbreviations, definitions and captions.....	109
8.1. Abbreviations and definition of terms used.....	109
8.2. Figure captions.....	109
8.3. Table captions.....	111
9. Curriculum vitae.....	114
10. Contribution to the papers.....	118
11. Erklärung.....	120
12. Acknowledgements.....	121