

## CURRICULUM VITAE

David Kenfack

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### EDUCATION

#### Schools and Universities

University of Missouri St. Louis, St. Louis Missouri, USA (2002 – 2008), Université de Yaoundé, Yaoundé, Cameroon (1990- 1995), Université de Yaoundé, Yaoundé, Cameroon (1984 –1988), College St. Laurent de Bafou, Dschang, Cameroon (1975-1984), Cameroon Ecole St. Thomas de Bafou, Dschang, Cameroon (1969-1975).

#### Degrees

	year
• PH.D. (Ecology, Evolution and Systematics), University of Missouri-St. Louis, USA	2008
• DOCTORAT 3 <sup>e</sup> CYCLE in Plant Systematics, University of Yaoundé I, Cameroon	1995
• MAITRISE ÈS SCIENCE, University of Yaoundé I, Cameroon	1988
• LICENCE in botany, University of Yaoundé I, Cameroon	1987

### PUBLICATIONS

#### Accepted/In press

- **Kenfack D.** (*accepted*). *Carapa vasquezii* sp. nov. (Meliaceae) from western Amazon. *Brittonia*
- **Kenfack D.** (*accepted*). A synoptic revision of *Carapa* (Meliaceae). *Harvard papers in Botany*.
- **Kenfack D.** (*accepted*). Resurrection in *Carapa* (Meliaceae): A reassessment of morphological variation and species boundaries using multivariate methods. *Botanical Journal of the Linnean Society*.
- Weber N., Birnbaum P., Forget P.-M., M. Gueye & **D. Kenfack.** (*in press*). L'huile de carapa (*Carapa* spp., Meliaceae) en Afrique de l'Ouest : utilisations et implications dans la conservation des peuplements naturels. *Fruits*.
- **Kenfack D.** & A. Perez (*in press.*). Two new species of *Carapa* (Meliaceae) from Western Ecuador. *Systematic Botany*.

#### Peer-reviewed articles

1. DeWalt S.J., Schnitzer S.A., Chave J., Bongers F., Burnham R.J., Cai Z., Chuyong G., Clark D.B., Ewango C.E.N., Gerwing J.J., Gortaire E., Hart T., **Kenfack D.**, Macía M.J., Makana J.-R., Ibarra-Manríquez G., Martínez-Ramos M., Sainge M., Muller-Landau H.C., Parren M.P.E.,

- Parthasarathy N., Pérez-Salicrup D.R., Putz F.E., Romero-Saltos H. & Thomas D. **2010**. Annual Rainfall and Seasonality Predict Pan-tropical Patterns of Liana Density and Basal Area. *Biotropica* 42: 309—317.
2. Forget P.-M., Poncy O., Thomas R.S., Hammond D.S. & **Kenfack D.** **2009**. A cryptic new species of *Carapa* Aublet (Meliaceae) from Central Guyana. *Brittonia* 64: 366—374.
  3. **Kenfack D.** & Dick C.W. **2009**. Isolation and characterization of 15 polymorphic microsatellite loci in *Tetragastris panamensis* (Burseraceae), a widespread neotropical forest tree. *Conservation genetic resources*. 1: 385—387.
  4. Morlon H., Chuyong G.B., Condit R., Hubell S., **Kenfack D.**, Thomas D.W., Valencia R., & Green J., **2008**. A general framework for the distance-decay of similarity in ecological communities. *Ecology Letters* 11: 904-917
  5. Sonké B., Neuba D., **Kenfack D.**, & De Block P., **2007**. An extraordinary new rheophyte in the genus *Leptactina* (Rubiaceae, Pavetteae) from Rio Muni (Equatorial Guinea). *Botanical Journal of the Linnean Society* 153: 109-113.
  6. **Kenfack D.**, Thomas D.W., Chuyong G.B., & Condit R., **2007**. Rarity and abundance in a diverse African forest: *Biodiversity Conservation* 16: 2045-2074.
  7. Lafrankie J.V., Ashton P.S., Chuyong G.B., Co L., Condit R., Davies S.J., Foster R., Hubbell S.P., **Kenfack D.**, Lagunzad D., Losos E.C., Noor Supardi N.M.D., Tan S., Thomas D.W., Valencia R., & Villa G., **2006**. Contrasting structure and composition of the understory in species-rich tropical rain forests. *Ecology* 87: 2298-2305.
  8. **Kenfack D.**, Sainge N.M., & Thomas D.W., **2006**. A new species of *Cassipourea* (Rhizophoraceae) from western Cameroon. *Novon* 16: 61—64.
  9. Muller-Landau H.C., Condit R.S., Chave J., Thomas S.C., Bohlman S.A., Bunyavejchewin S., Davies S., Foster R., Gunatilleke S., Gunatilleke N., Harms K.E., Hart T., Hubbell S.P., Itoh A., Kassim A., LaFrankie J.V., Lee H.S., Losos E., Makana J-R., Ohkubo T., Sukumar R., Sun I-F., Supardi M.N.N., Tan S., Thompson J., Valencia R., Villa M.G., Wills C., Yamakura T., Chuyong G., Dattaraja H.S., Esufali S., Hall P., Hernandez C., **Kenfack D.**, Kiratiprayoon S., Suresh H.S., Thomas D., Vallejo M.I., & Ashton P., **2006**. Testing metabolic ecology theory for allometric scaling of tree size, growth, and mortality in tropical forests. *Ecology Letters* 9: 575 – 588.
  10. Muller-Landau H.C., Condit R.S., Harms K.E., Marks C.O., Thomas Sean C., Bunyavejchewin S., Chuyong G., Co L., Davies S., Foster R., Gunatilleke S., Gunatilleke N., Hart T., Hubbell S.P., Itoh A., Kassim A.R., **Kenfack D.**, LaFrankie J.V., Lagunzad D., Lee H.S., Losos E., Makana J-R., Ohkubo Tatsuhiro, Samper Cristian, Sukumar Raman, Sun I-Fang, Supardi M. N. Nur, Tan S., Thomas D.W., Thompson J., Valencia R., Vallejo M.I., Villa M.G., Yamakura T., Zimmerman J.K., Dattaraja H.S., Esufali S., Hall P., He F., Hernandez C., Kiratiprayoon S., Suresh H.S., Wills C., & Ashton P., **2006**. Comparing tropical forest tree size distributions with the predictions of metabolic ecology and equilibrium models *Ecology Letters* 9: 589 – 602.
  11. Gerwing J.J., Schnitzer S.A., Burnham R.J., Bongers., Chave J., DeWalt S.J., Ewango C.E.N., Foster R., **Kenfack D.**, Martínez-Ramos M., Parren M., Parthasarathy N., Pérez-Salicrup D.R., Francis E.P., Futz E.E.P., & Thomas D.W., **2006**. A Standard Protocol for Liana Censuses. *Biotropica* 38: 256 – 261.

12. Condit R., Ashton P., Baslev H., Brokaw N., Bunyavejchewin S., Chuyong G., Co L., Dattaraja H.S. Davies S., Esufali S., Ewango C.E.N., Foster R., Gunatileke N., Gunatileke S., Hernandez C., Hubbell S., John R., **Kenfack D.**, Kirakiprayoon, S., Hall P., Hart T., Itoh A., Lafrankie J., Liengola I., Lagunzad D., Lao S., Losos E., Magard E., Makana J., Manokaran N., Navarette H., Mohammed Nur S., Okhubo T., Pérez R., Smaper C., Hua Seng L., Sukumar R., Svenning J.C., Tan S., Thomas D.W., Thomson J., Valleho M., Villa Muñoz G., Valencia R., Yamakura T., & Zimmerman J., **2005**. Tropical tree  $\alpha$ -diversity: Results from a worldwide network of large plots. *Biol. Skr.* 55:565-582
13. **Kenfack D.**, Ewango C.E.N., & Thomas D.W., **2004**. *Manilkara lososiana*, a new species of Sapotaceae from Cameroon. *Kew Bulletin* 59: 609-612.
14. **Kenfack D.**, Gosline G., Gereau R.E., & Schatz G., **2003**. The genus *Uvariopsis* (Annonaceae) in Tropical Africa, with a recombination and one new species from Cameroon. *Novon* 13: 443-449.
15. Sonké B., **Kenfack D.**, & Robbrecht E., **2002**. A new species of the *Tricalysia atherura* group (Rubiaceae) from southwestern Cameroon. *Adansonia* 24: 173-177.
16. Ndam N., Acworth J., **Kenfack D.**, Tchouto P., & Hall J.B., **2002**. Plant diversity assessment on Mount Cameroon: surveys from 1990 to 2000. *Systematics and Geography of Plants* 71: 1017 - 1022.
17. Gereau E.R., & **Kenfack D.**, **2000**, Le genre *Uvariopsis* (Annonaceae) en Afrique tropicale, avec la description d'une espèce nouvelle du Cameroun. *Adansonia* 22: 39-43.
18. Sonké B., **Kenfack D.**, & Tindo M., **2000**. Parasitisme de l'avocatier (*Persea americana*, Lauraceae) par les Loranthacées dans la région de Yaoundé (Cameroun). *Fruits* 55: 325-331.
19. Klinger L.F., Greenberg J., Guenther A., Tyndall G., Zimmerman P., M'bangui M., Moutsambote J.M., & **Kenfack D.**, 1998, Patterns in volatile organic compound emission along a savanna-rainforest gradient in Central Africa. *Journal of Geophysical Research*, 103: 1443-1454.

### Conference Proceedings and Invited Papers:

- Gueye M., **Kenfack D.** & Forget P.M. **2010**. Importance socioculturelle, potentialités économiques et thérapeutiques du *Carapa* (Meliaceae) au Sénégal. In X. Van der Burgt, J. van der Maesen & J-M. Onana Eds. *Systematics and Conservation of African plants, Proceedings of the 18<sup>th</sup> AETFAT congress, Yaounde, Cameroon*. Pp. 359—367.
- Thomas D.W., **Kenfack D.**, Chuyong G.B., **2004**. Measuring the alpha diversity of trees: Is this a useful tool? *Inside CTFS*, Summer 2004. Center for Tropical Forest Science. Pp 6-7
- Chuyong G.B., **Kenfack D.**, Thomas D.W., **2003**. Species-habitat association and diversity at Korup, Cameroon. *Inside CTFS*, Summer 2003. Center for Tropical Forest Science.
- Wong J, Lysinge R., **Kenfack D.**, Healey J., Hall J., **2002**. Naming and recognition of species in participatory biodiversity inventory. ." in ETRN: Participatory Monitoring and Evaluation of Biodiversity. Electronic conference:

- Wong J, Ambrose B., Hall J., Healey J., **Kenfack D.**, Lawrence A., Lysinge R., Ndam N., **2002**. "Generating an index of biodiversity value." in ETFRN: Participatory Monitoring and Evaluation of Biodiversity. Electronic conference.
- Chuyong G.B, **Kenfack D.**, Songwe N.C. and Thomas D.W., **1999**. Korup Forest Dynamic Plot: A Biodiversity Database. In (Eds P.C Nkwi & D.A Mbah) *Conserving and Managing Biodiversity in Central Africa: Global challenges and local solutions*. Cameroon Academy of Science Publication. 113-118. Yaoundé.
- **Kenfack D.**, Songwe C.T.N., Thomas D.W., **1998**. Local tree tag production for a large-scale forest census. *Inside CTFS*, summer 1998. Center for Tropical Forest Science, P 7.
- **Kenfack D.**, Musselman L.J. and Hoeyers H.J. **1996**. Hosts of eight *Striga* species (Scrophulariaceae) in Cameroon. In: M.T. Moreno and J.I. Cubero, eds. *Advances in Parasitic Plant Research. Proceedings of the Sixth International Symposium on Parasitic Plants. Cordoba, Spain*, 465-470.

### Books and Book Sections:

- **Kenfack D.**, **2007**. Carapa. In B.E. Hammel, M.H. Grayum, C. Herrera & N. Zamora eds. *Manual de plantas de Costa Rica. Vol. VI. Dicotyledóneas (Haloraceae – Phytolacaceae)*. Missouri Botanical Garden Press.
- Chuyong G.B., Condit, R., **Kenfack, D.**, Losos, E., Sainge, M., Songwe, N.C., and Thomas, D.W., **2004**. Korup Forest Dynamics Plot, Cameroon. In Losos E.C. and Leigh, E.G. Jr. eds. *Forest Diversity and Dynamism: Findings from a Large-Scale Plot Network*. . 506-516. University of Chicago Press, Chicago.
- Ashton P., CTFS Working Group. **2004**. Floristics and vegetation of the Forest Dynamics plots. In Losos E.C. and Leigh, E.G. Jr. eds. *Forest Diversity and Dynamism: Findings from a Large-Scale Plot Network*. 90-102. University of Chicago Press, Chicago.
- Condit C, Leigh E.G.Jr, Loo de Lao, S., CTFS Working Group. **2004**. Species-Area relationships and diversity measures in the forest dynamics plots. In Losos E.C. and Leigh, E.G. Jr. eds. *Forest Diversity and Dynamism: Findings from a Large-Scale Plot Network*. 79-89. University of Chicago Press, Chicago.
- Losos E.C., CTFS Working Group. **2004**. The structure of tropical forests. In Losos E.C. and Leigh, E.G. Jr. eds. *Forest Diversity and Dynamism: Findings from a Large-Scale Plot Network*. 69-78. University of Chicago Press, Chicago.
- Thomas, D.W., **Kenfack, D.**, Chuyong, G.B., Sainge N.M., Losos E.C., Condit R.S., Songwe N.C., **2003**. Tree Species of Southwestern Cameroon: Tree distribution maps, diameter tables and species documentation of the 50-ha Korup Forest Dynamics Plot. Center for Tropical Forest Science, Washington D.C.

### Theses and technical reports

- **Kenfack D.** **2009**. Vers l'établissement de la liste rouge des plantes d'Afrique Centrale: première réunion des experts. Workshop report submitted to *Sud Expert Plantes*. 20 p.

- **Kenfack D. 2008.** Systematic and evolution of *Carapa* (Meliaceae-Swietenioideae). Ph.D. Thesis, University of Missouri-St. Louis. 265 p.
- **Kenfack, D.,** G. Walters, M. Balinga. **2005.** Approches analytiques d'évaluation de la diversité et de la valeur en conservation des plantes. Lope, Gabon Workshop report for the Smithsonian Institution and USAID's Central African Regional Program for the Environment (CARPE)
- Walters, G, T. Sunderland, **D. Kenfack,** S. Asaha , M. A. Dione. **2004.** L'Utilisation de l'approche de landscape pour l'évaluation et la conservation de la biodiversité végétale dans le bassin du Congo. Limbe, Cameroon Workshop Report for the Smithsonian Institution and CARPE
- **Kenfack D. 1995 -** *Striga* (Scrophulariaceae) du Cameroun: inventaire, biométrie florale et écologie. Doctorat 3e Cycle Thesis, University of Yaoundé I. 135p.
- **Kenfack D.** 1988 - Etude écologique et floristique du Mont Messa. Maitrise Thesis, University of Yaoundé, 70p.
- **Kenfack D. 2001 -** Preliminary botanical survey of Mt Nlonako, Makombe, Ebo and Lake Ossa, with the review of plant records in 30 other important sites for conservation within the Cameroon Coastal Forest. Consultancy Report to the WWF-Coastal Forest Program. 83p. WWF-Cameroon.

#### TV documentary

- L'Arbre et la médecine: Un tour d'horizon des vertus thérapeutiques des figuiers d'Angkor, du Carapa du Guyana ou encore des ifs millénaires de Normandie. France 5, February 17th 2007.

### PROFESSIONAL EXPERIENCE

#### Jobs

- February 2010 – present: Africa Program Coordinator, Center for Tropical Forest Science – Smithsonian Institute Global Earth Observatories (CTFS – SIGEO).
- June 2008 – December 2009: Postdoctoral Fellow, University of Michigan, Ann Arbor.
- October 2001 – July 2002: Botanist, WWF Coastal Forest Program. Cameroon
- July 1999 – June 2001: Senior Botanist and Herbarium Curator, Mount Cameroon Project – Limbe Botanic Garden.
- August 1996-July 1999: Field Director, Korup Forest Dynamics Plot, Cameroon.

#### Field Experience

- Plant collection: over 2200 specimens collected in Cameroon, Ecuador, Gabon, Ghana, Guyana, Panama and Senegal.
- Other field experience in DR Congo, India, Singapore, Malaysia, Panama, Taiwan, and Thailand during visit of large-scale permanent plot in these countries.

## **Countries visited**

Belgium, Chad, Congo, DR Congo, Ecuador, Ethiopia, Gabon, Gambia, Germany, Ghana, Guyana, India, Kenya, Madagascar, Malaysia, Nigeria, Panama, Senegal, Singapore, Thailand, Taiwan, Uganda, United Arab Emirates, United Kingdom, United States of America (visits for workshops, conferences and research)

## **Workshops and Conferences**

- September 2010: Conference Panafricaine de haut niveau. "Biodiversité et lutte contre la pauvreté: quelles opportunités pour l'Afrique? Libreville, Gabon
- February 2010: Center for Tropical Forest database workshop, Bradley University, Peoria, USA.
- October 2009: Central African Red List Authority, Limbe, Cameroon.
- August 2009: 19<sup>th</sup> Ecological society of America Annual meeting, Albuquerque, NM, USA.
- February 2008: First IUCN Species Survival Committee Specialist Group Chairs' Meeting. Al-Ain, Abu Dhabi, United Arab Emirates.
- February 2007: 18<sup>th</sup> congress of the Association pour l'Etude Taxonomique de la Flore d'Afrique Tropicale (AETFAT), Yaounde, Cameroon
- September 2007 : Center for Tropical Forest Science PI meeting, Santa Barbara, CA, USA
- May 2006: Center for Tropical Forest Science Strategic Planning meeting, Panama City, Republic of Panama
- June 2005: Center for Tropical Forest Science Symposium: Forest Dynamics around the globe, Panama City, Republic of Panama
- September 2003: 17<sup>th</sup> congress of the Association pour l'Etude Taxonomique de la Flore d'Afrique Tropicale (AETFAT), Addis-Ababa, Ethiopia
- July-August 2002: Association for Tropical Biology Annual Meeting: "Tropical Forests: Past, Present, Future", Panama City, Republic of Panama
- July 2001: Association for Tropical Biology Annual Meeting: Tropical Ecosystems: "Structure, Diversity and Human Welfare", Bangalore, India
- August 2000: 16<sup>th</sup> congress of the Association pour l'Etude Taxonomique de la Flore d'Afrique Tropicale (AETFAT), Meise, Belgium
- May-June 2000: Center for Tropical Forest Science Symposium: "A future for tropical forests Policy and Science in the decade ahead". Singapore.
- December 1993: International Foundation of Science grant writing workshop: "Comment rédiger une demande de financement pour un programme de recherche. Yaoundé, Cameroun
- July 1998: Center for Tropical Forest Science Symposium, Washington DC., USA

## Grants and fellowships

- December 2009: *Encyclopedia of Life Rubenstein Fellow* to make available online the description of 350 species from the Korup National Park, Cameroon.
- October 2007: *Sud-Expert-Plantes* grant to establish the Central African Plant Red List Authority.
- November 2005: *National Geographic Society* award grant for scientific field research and exploration.
- November 2005: *Antoinette McGrath Memorial Scholarship*.
- October 2005: *Center For Tropical Forest Science Research grant*.
- April 2005: *Jane Harris Scholarship* in Tropical Botany, and *Jorie Butler Kent Scholarship* in Tropical Ecology.
- September 2004: *Idea Wild grant* for field equipment.
- May 2004: *International Center For Tropical Ecology* travel award for Conference in Cameroon.
- May 2004: *Andrew W. Mellon Foundation Travel Award* from a grant administered by the Missouri Botanical Garden.
- September 2003: *ICTE travel award* to attend AETFAT meeting in Addis-Abeba, Ethiopia.
- May 2003: MBG Bovard Fellowship to collect preliminary data for my thesis in Cameroon.
- March 2003: Christensen fund in Plant Conservation scholarship.
- August 2002: Christensen Fund Fellowship in Plant Conservation.
- June 1998: Smithsonian Short-term traveling grant, to visit the 50-ha Plot at BCI, Panama.

## Honorific distinction

- 2005 Raju Mehra Award: Outstanding International Graduate Student of the Department of Biology, University of Missouri St Louis

## Languages

- Yemba – native language
- French – speak, fluently and read/write with high proficiency
- English – speak fluently and read/write with high proficiency
- Spanish – speak, read, and write with basic competence
- West African Pidgin English – Speak fluently.

## Professional affiliation

- Center for Tropical Forest Science (CTFS) [link](#)
- Association pour l'Etude Taxonomique de la Flore de l'Afrique Tropicale (AETFAT)
- Ecological Society of America (ESA) [link](#)
- Executive Secretary of the Central African Botanist Network (REBAC) [link](#)

- Focal Point of the Central African Plant Red List Authority (CARLA)
- The American Society for Plant Taxonomists (ASPT) [link](#)
- Society for conservation Biology (SBC) [link](#)

### Research Interests

- Plant ecology, evolution and systematics
- Forest dynamics
- Plant conservation

### Current Research

- Population genetics and ecology of widespread species
- Long-term forest dynamics in a large census plot, Korup National Park, Cameroon

### Websites

I develop the following websites for educational purposes:

- Central African Botanist Network (REBAC): <http://www.rebac-botanists.com/>
- Website dedicated to trees of the genus *Carapa*: <http://www.carapa.org/en/>

## REFEREES

**Peter F. Stevens, Ph.D.** (Ph.D. advisor)  
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