

Curriculum Vitae

Lounès CHIKHI
Born: 29th July 1967 – Age : 50 years
in Paris (14th arrt.).

Nationality: Algerian and French
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Current position:

Directeur de Recherche (Senior Researcher), Evolution & Diversité Biologique, **CNRS (since 2002)**

Principal Investigator (PI) of the Population and Conservation Genetics group, IGC (since 2005)

DIPLOMA - BACKGROUND

- 2002-present :** **CNRS Senior Researcher (Civil Servant)**
- 2001-2002 :** **Post Doctoral Research Associate (PDRA) at University College, London.** (BBSRC funding attributed to Prof. Z. Yang.)
- 01-03/2001 :** **Short Research contract at University of Cardiff University.**
(MAFF funding to Prof M. Bruford).

Data analysis on population (breed) data of sheep and cattle.
- 1999-2000 :** **PDRA at Queen Mary and Westfield College, London.** Small NERC grant (funding attributed to Drs. R.A. Nichols, M.A. Beaumont and myself).

Analysis and test of an admixture model.
- 1997-1999 :** **PDRA at the *Institute of Zoology*** in collaboration with Prof. M. Bruford and Dr. M.A. Beaumont. Funding attributed to Prof. M. Bruford.

Analysis of the genetic variability in breeds of cattle and sheep. Theoretical and practical approaches.
- 1996-1997 :** **Marie Curie Fellow at the University of Padua, Italy** in the group of Prof. Guido Barbujani. Funding attributed to myself.

Evolutionary processes inferred from molecular diversity. Implications for conservation biology and fishery management.
- 1991-1995 :** **Ph.D thesis in population genetics of two *Sardinella species*, University Paris VI (Pierre et Marie Curie) - ORSTOM. Mention très Honorable, Félicitations du Jury.**

Genetic differentiation in *Sardinella aurita* and *S. maderensis*, allozymes and mitochondrial DNA.
Ph.D Supervisors : François Bonhomme and Jean-François Agnèse.
- 1990-1991 :** **DEA (Fifth year University diploma) in Population Biology and Eco-ethology in the University of Tours.**

Analysis of the mtDNA restriction polymorphism in Tunisian populations of the house mouse (*Mus musculus domesticus*) with standard and Robertsonian karyotypes."
- 1988-1991 :** **Grande Ecole diploma "Diplôme d'Ingénieur de l'Institut National Agronomique Paris-Grignon." - Now : Agro Paris Tech.**

DISTINCTIONS

1. **Christiane Doré Prize in 1994** for “*the best scientific contribution of an ORSTOM student*”.
2. **Marie Curie Fellow 1996-1997**
3. **Gabriel Lasker Prize in 1998** for the **best article published in *Human Biology***.
4. **Special Issue of *Human Biology*** on Gabriel Lasker Prize Holders (2009)

Invited talks :

- (1) **Keynote** lecture at the VII^{ème} International Conference on Environmental Mutagens (7-12 September 1997). The Keynote lecture led then to a common paper written with other invited scientists (**Bickham et al., 2000** above with **more than 350 citations**).
- (2) Workshop Data Analysis within a European Union meeting.
- (3) Invited to Faro University (Portugal). Talk on European human population genetics. Invited to the *Human Evolution Meeting* in the University of Ferrara, May 2000). **Keynote** lecture at the European Society for Human Reproduction and (see <http://www.eshre.com/ecm/main.asp?lan=63&typ=201>)
« Examining the farming/Language hypothesis » in Cambridge (McDonald Institute)
- (4) **Portugaliae Genetica** “Human Haploid Genomes” – March 2003
- (5) **Keynote Lecture at the GABBA meeting (Porto, 2006)**
- (6) **Portugaliae Genetica**, March 2007
- (7) **Instituto Gulbenkian de Ciência**, April 2007
- (8) **Keynote, GALF 2007 (Groupement des Anthropologistes de Langue Française)**
- (9) **Keynote, Palais de la Découverte, Sept. 2008.**
- (10) **Invited Speaker, “Darwin’s legacy, new insights into human evolution” Sept. 2009.**
- (11) **Keynote Speaker at the Journées de l’Ecologie de Toulouse, Nov. 2010**
- (12) **Keynote Speaker at the EMBO Conference on “Human Evolution in the Genomic Era: Origins, populations and phenotypes” April 2014**
- (13)
- (14)

Selected as “*one of the promising French scientists*” by the Journal *Marianne* in 2006

Member of the *Editorial Board Review de Molecular Ecology, Molecular Ecology Notes.*

Member of the Volkswagen Stiftung Jury 2005

Co-editor for *Proceedings of the Ninth International Congress of European Ichthyologist* (see above).

Associate Editor of *Heredity* (Since 2016)

Participation to TV/Radio programmes: BBC, Direct8 Channel “Complément Terre”, France Culture “Science Publique”, Koisas Kuriosas (RTP), Radio (RTP2).

LABORATORY AND DATA ANALYSIS EXPERIENCE

Laboratory Techniques Used

Isozyme electrophoresis.
PCR-RFLP et direct sequencing
Microsatellites analysis (DNA extraction from hair; PCR and sizing on ABI 377).

Data analysis and statistics:

Population genetics software : Arlequin, Genepop, GENETIX, BayesAss, Structure, GeneClass, etc.
Spatial autocorrelation: classical (SAAP) and molecular (AIDA).
Analysis of demographic processes (msvar, Bottleneck, EndEpi, LEA, etc).
Basic knowledge in R, matlab, Perl, Python and Linux

EDITORIAL WORK

2016- present: Editor for *Heredity* (<https://www.nature.com/hdy/editors>)

2000/07 Member of *Molecular Ecology Editorial Board Review*. 2000-2010.

1997/98 **Co-Editor of the *Proceedings of the Ninth International Congress of European Ichthyologists***, Trieste 24-30 august 1997. Published in *The Italian Journal of Zoology*, Vol. 65. Suppl. 1998. **Responsible for all papers on genetics and cytogenetics.**

Regular reviewer for:

*Molecular Ecology, Heredity, Evol. Applications
Proc. Roy.Soc. (Biological Sciences)*

Occasional reviewer for:

P.N.A.S, PLoS, Biology, Theoret. Pop Biol., Genetics

TEACHING AND OTHER RESEARCH ACTIVITIES

Teaching Ecology and evolution DEA (5th year Univ.) in Montpellier in 1995-97
3rdYear course at Queen Mary and Westfield College, Univ. of London 1999
Population and Conservation Genetics, Masters Toulouse 2003-2017
Courses at Faculdade de Ciência da Universidade de Lisboa: 2008-2017
Course in PhD program of Instituto Gulbenkian de Ciência: 2005-2017

Courses:

Maputo Univ. (Mozambique): Basic population genetics and Conservation.
Instituto Gulbenkian de Ciências (co-organised with M. Beaumont)
* **Two-day Microsatellite data analysis** course in 2001.
* **Four-day Genetic data analysis** course in 2002.
* **Five-day Population Genetics** 2003-05, 2007-2017
* **Workshop on the coalescent theory in** 2006
Univ. of Sabah (Malaysia). **Contributions to Conservation Genetics lectures in a five week course (B. Goossens).**

Supervisor : one "Laurea" student in Statistics (Bologna University).
three ERASMUS students
Ten French Masters students - Eight Malagasy Masters students
Seven post-docs 2003-2017
Nine PhD students (one ongoing)

Grants

- (1) TMR (*Training and Mobility of Researchers*) Marie Curie Fellowship to work in Prof G. Barbujani's group (1996-1997).
- (2) NERC (*Natural Environment Research Council*) with R. Nichols and M. Beaumont (dec. 1999 - august 2000).
- (3) European Science Foundation, Exploratory Workshops, with Pr. S. Shennan.
- (4) Institut Français de la Biodiversité
- (5) Fundação para a Ciência e a Tecnologia
- (6) European Science Foundation, ConGen programme,
- (7) Programme Egide « Alliance » : with M. Beaumont (2006, 2007)
- (8) Actions de Coop. ponctuelles Univ. P. Sabatier (Portugal, 2006)
- (9) Actions Intégrées Luso-Françaises (2006, 2007)
- (10) CEPA (ONG) : with E. Quéméré (2006)
- (11) Idea Wild (ONG) : with E. Quéméré (2006)
- (12) European Science Foundation : Workshop dans le cadre du programme ConGen (2007)
- (13) Fundação para a Ciência e a Tecnologia (2007): Fragmentation de l'habitat à Bornéo, impact sur les grands mammifères.
- (14) Institut Français de la Biodiversité (2007) : Fragmentation de l'habitat à Madagascar, impact sur les lémuriens.
- (15) Fundação para a Ciência e a Tecnologia (2009): Modelling spatial population genetics of lemurs in Madagascar.
- (16) PEPS 2012 (Programmes Exploratoires Pluridisciplinaires) : Genomic data and demographic history
- (17) Fundação para a Ciência e a Tecnologia (2012): Vertebrate comparative study on fragmentation in Madagascar using modelling and NGS (next generation sequencing).
- (18) ERA-NET COFUND Biodiversa 2015. INFRAGECO (inference, fragmentation, genomics and conservation)

Field work experience :

1991-1992: Field and Lab work in Côte d'Ivoire, Congo, Senegal, Ghana (< 1 y.)
Personal Experience in Mali and Burkina Faso (2 weeks).
1993: Field and Lab work in Côte d'Ivoire, and Ghana (2 months).
1994: Field and Lab work in Côte d'Ivoire (2 months).
1995: Personal Experience in Côte d'Ivoire and Burkina Faso (1 month).
2001: Personal Experience in South and Central Mozambique (2 weeks)
2008- 2017: Field Work in Madagascar (organization, field work, 3 weeks/y.)

FULL LIST OF PUBLICATIONS

1. Richard-Yris, M.A., **Chikhi L.**, (1991). Maternal behaviour in domestic hens (*Gallus gallus domesticus*): cues from chicks and maintenance of maternal responsiveness. *Int. J. Comp.Psychology*, **4** (4): 275-286.
2. Garcia de Leon, F.J., **Chikhi L.**, Bonhomme, F., (1997). Microsatellite polymorphism and population subdivision in natural populations of sea bass *Dicentrarchus labrax* (Linnaeus, 1759), Perciformes : serranidae. *Molecular Ecology*, **6** : 51-62.
3. **Chikhi, L.**, Agnèse, J.-F., Bonhomme, F., (1997). Fortes différences des ADN mitochondriaux de populations de *Sardinella aurita* de la mer Méditerranée et de l'Atlantique Est. *C. R. Acad. Sci. III*, **320** : 289-297.
4. Borsa, P., Naciri, M., Bahri, L., **Chikhi, L.**, Garcia de Leon, F.J., Kotoulas, G., Bonhomme, F. (1997). Zoogéographie infraspécifique de la mer Méditerranée. *Vie et Milieu*, **47** (4) : 295-305.
5. **Chikhi, L.**, Bonhomme, F., Agnèse, J.-F., (1998). Low genetic variability in a widely distributed and abundant clupeid species, *Sardinella aurita*. New empirical results and interpretations. *Journal of Fish Biology*, **52** : 861-878.
6. **Chikhi, L.**, Destro-Bisol, G., Bertorelle, G., Pascali, V., Barbujani, G. (1998). Clines of nuclear DNA suggest a largely Neolithic ancestry of the European gene pool. *Proc. Natl. Acad. Sci, USA*, **95** : 9053-9058.
7. Barbujani, G., Bertorelle, G., **Chikhi, L.** (1998). Evidence for Palaeolithic and Neolithic gene flow in Europe. *American Journal of Human Genetics*, **62** :488-491.
8. **Chikhi, L.**, Destro-Bisol, G., Pascali, V., Baravelli V., Dobosz, M., Barbujani, G. (1998). Clinal variation in the nuclear DNA of Europeans. *Human Biology*, **70** : 643-657.
9. Bickham, J.W., Sandhu, S., Hebert, P.D.N., Chikhi, L., Anthwal, R. (2000). Effects of chemical contaminants on genetic diversity in natural populations: implications for biomonitoring and ecotoxicology. *Reviews in Mutation Research*, **463**: 33-51.
10. Goossens, B., **Chikhi, L.**, Utami, S.S., de Ruiter, J., Bruford, M.W. (2000). Multiple-samples, multiple-extracts approach for microsatellite analysis of faecal samples in an arboreal ape. *Conservation Genetics*, **1**(2): 157-162.
11. Goossens, B., **Chikhi, L.**, Taberlet, P., Waits, L. P., Allainé, D. (2001). Microsatellite analysis of genetic variation among Alpine marmot populations in the French Alps. *Molecular Ecology*, **10** (1): 41-52.
12. **Chikhi, L.**, Bruford M.W. Beaumont M.A. (2001). Estimating admixture : a likelihood-based method using Markov chain Monte Carlo. *Genetics*, **158** : 1347-62.
13. Langella, O., **Chikhi, L.**, Beaumont M.A. (2001). LEA (Likelihood-based estimation of admixture) : a program to simultaneously estimate admixture and the time since admixture. *Molecular Ecology Notes*.1(4) : 357-358.
14. Goldstein, D.B., **Chikhi, L.** (2002). Human migrations and population structure : what we know and why it matters. *Annual Review of Genomics and Human Genetics.*, **3**: 129-152.
15. **Chikhi, L.**, Nichols, R.A., Barbujani G., Beaumont M.A. (2002) Y genetic data support the Demic diffusion model. . *Proc. Natl. Acad. Sci, USA*, **98**: 11007-11013.
16. Bentley, R. A., **Chikhi, L.**, Price, T. D (2003). The Neolithic transition in Europe: comparing broad scale genetic and local scale isotopic evidence. *Antiquity*.Vol. **77** (295): 63-66.
17. **Chikhi, L.*.**, Goossens*, B., Treanor, A., Bruford, M.W. (2004). Population genetic structure of and inbreeding in an insular cattle breed, the Jersey, and its implications for genetic resource management. *Heredity*, **92**: 396-401. ***Shared first authorship**
18. Laitung, B., Chauvet, E., Feau, N., Feve, K., **Chikhi, L.**, Gardes, M. (2004). Genetic diversity in *Tetrachaetum elegans*, a mitosporic aquatic fungus. *Molecular Ecology* **13**(6): 1679-1692.
19. Dupanloup, I., Bertorelle, G., **Chikhi, L.**, Barbujani, G. (2004) Estimating the impact of prehistoric admixture on the genome of Europeans. *Molecular Biology and Evolution*, **31**(7): 1361-1372
20. Bortolini, M.C., Thomas, M., **Chikhi, L.**, Aguilar, J.A., Castro-de-guerra, D., Salzano, F.M., Ruiz-Linares, A. (2004). Ribeiro's typology, genomes and Spanish colonialism, as viewed from Gran Canaria and Colombia. *Genet. Mol. Biol.*, **27** (1): 1-8.
21. Goossens, B., **Chikhi, L.**, Jalil, M.F., Ancrenaz, M., Lackman-Ancrenaz, I., Mohamed, M., Andau, P., Bruford, M.W. (2005). Patterns of genetic diversity and migration in increasingly fragmented and declining orang-utan populations from Sabah, Malaysia. *Molecular Ecology* **14**: 441-456.
22. Altunok, V, Koban, E., **Chikhi, L.**, Schaffer, A, Pedersen, NC, Nizamlioglu, M., Togan, İ.. Genetic evidence for the genetic distinctness of Kangal dogs. (2005) *Bull. Vet. Inst. Pulawy* **49**: 249-254.
23. Goossens, B.*, **Chikhi, L.*.**, Ancrenaz, M., Lackman-Ancrenaz, I., Andau, M., Bruford, M.W. (2006). Genetic signature of anthropogenic population collapse in orang-utans. *PLoS, Biology*, **4**(2): 285-291. ***Shared first authorship.**
24. Goossens, B., Setchell, J., James, S., Funk, S.M., **Chikhi, L.**, Abulani, A., Ancrenaz, M., Lackman-Ancrenaz, I., Bruford, M.W. (2006). Philopatry and reproductive success in Bornean orang-utans (*Pongo Pygmaeus*). *Molecular Ecology* **15**: 2577-2588.
25. Barbujani, G., **Chikhi, L.** (2006). DNAs from the European Neolithic. *Heredity*, **97**: 84-85.
26. Amaral, A.J., Silva,A.B., Grosso,A.R., **Chikhi,L.**, Bastos-Silveira,C. Dias,D. (2007) Detection of hybridization and species identification in domesticated and wild quails using genetic markers. *Folia Zoologica* **56**(3):285-300.
27. Adepo-Gourène, B., **Chikhi, L.**, Agnèse, J.-F., Gourène, G., Hervé, A. (2007) A preliminary study of allozyme differences amongst *Carcharhinus* sharks disembarked at Abidjan, Côte d'Ivoire. *African J. Aquatic Sciences* **32**(3): 305-310.

28. Sousa, V., Penha, F., Collares-Pereira, M.J., **Chikhi, L.** Coelho, M.M. (2008) Genetic structure and signature of population decrease in the critically endangered freshwater cyprinid *Chondrostoma lusitanicum*. **Conservation Genetics**, **4**: 791-805.
29. Bonhomme, M., Blancher, A., Cuartero S., **Chikhi, L.**, Crouau-Roy, B. (2008) Origin and demographic history of the Mauritius macaque (*M. fascicularis*): new insights from microsatellite data. **Molecular Ecology**, **17**: 1009-1019.
30. Radespiel, U., Rakotondravony, R., **Chikhi, L.**, (2008) Natural and anthropogenic determinants of genetic structure in the largest remaining metapopulation of the endangered golden-brown mouse lemur, *Microcebus ravelobensis*. **American Journal of Primatology**, **70**: 1-11.
31. Olivieri, G., Sousa, V., **Chikhi, L.**, Radespiel, U., (2008) From genetic diversity and structure to conservation: genetic signature of recent population declines in three mouse lemur species (*Microcebus* spp.) **Biological Conservation**, **141**: 1257-1271.
32. **Chikhi, L.** (2008). How accurate can genetic data be? **Heredity**, **101**, 471-472.
33. Parreira, B., Trussart, M., Sousa, V., Hudson, R., **Chikhi, L.**, (2009). SPAMs : A user-friendly software to simulate population genetics data under complex demographic models. **Molecular Ecology Resources**. **9** : 749-753.
34. Rasteiro, R., **Chikhi, L.** (2009). Revisiting the peopling of Japan: an admixture perspective. **Journal of Human Genetics**, **54**,349-354.
35. Sousa, V., Fritz, M., Beaumont, M.A., **Chikhi, L.** (2009) Approximate Bayesian Computation without summary statistics: the case of admixture. **Genetics**, **181**, 187-197.
36. Giovannini , A., Zanghirati, G., Beaumont, M.A., **Chikhi, L.**, Barbujani, G., (2009) A novel parallel approach to the likelihood-based estimation of admixture in population genetics. **Bioinformatics**, **25**, 1440-1441
37. Bray, T.C., **Chikhi, L.**, Sheppy, A.J., Bruford, M.W., (2009) The population genetics effects of ancestry and admixture in a subdivided cattle population. **Animal Genetics**, **40**, 393-400.
38. Quéméré, E., Louis, E., Ribéron, A., **Chikhi, L.** Crouau-Roy, B. (2009). Non-invasive conservation genetics of the critically endangered golden-crowned sifaka (*Propithecus tattersalli*): high diversity and significant genetic differentiation over a small range **Conservation Genetics**, **11(7)** 675-68.
39. Bray, T.C., Sousa, V., Parreira, B., Bruford, M.W., **Chikhi, L.**, (2010) 2BAD: an application to estimate the parental contributions during two independent admixture events. **Molecular Ecology Resources**, **3**, 538-541.
40. Sousa, V., Penha, F., Pala, I., **Chikhi, L.** Coelho, M.M. (2009) Conservation genetics of a critically endangered Iberian minnow: evidence of population decline and extirpations. **Animal Conservation**, **13**, 162-171.
41. Craul, M., **Chikhi, L.**, Sousa, V., Olivieri, G., Rabesandratana, A., Zimmermann, E., Radespiel, U. (2009). Influence of forest fragmentation on an endangered large-bodied lemur in northwestern Madagascar. **Biological Conservation**, **142 (12)**, 2862-2871.
42. **Chikhi L** (2009) Genetic data and story-telling: from Archeogenetics to Astrologenetics? An update to "Clinal variation in the nuclear DNA of Europeans" By Chikhi, L., Destro-Bisol, G., Pascali, V., Baravelli V., Dobosz, M., Barbujani, G. Published in 1998 in Human Biology. **Human Biology**, **81**, (5-6), 639-643.
43. Quéméré, E., Champeau J, Besolo, A, Rasolondraibe, E Rabarivola, C, Crouau-Roy, B **Chikhi, L** (2010) Spatial variation in density and total size estimates in fragmented primate populations: the golden-crowned sifaka (*Propithecus tattersalli*). **American Journal of Primatology**, **72**,72-80.
44. Beaumont M, Nielsen R, Robert C, Hey J, Gaggiotti O, Knowles L, Estoup A, Panchal M, Corander J, Hickerson M, Sisson SA, Fagundes N, **Chikhi L**, Beerli P, Vitalis R, Cornuet JM, Huelsenbeck J, Foll M, Yang, Rousset F, Balding D, Excoffier L (2010) In defense of model-based inference in phylogeography. **Molecular Ecology**, **19** (3), 436-446.
45. Quéméré E, Crouau-Roy B, Rabarivola C, Louis EE Jr., **Chikhi L** (2010) Landscape genetics of an endangered lemur (*Propithecus tattersalli*) within its entire fragmented range. **Molecular Ecology**, **19**, 1606-1621.
46. Schneider, N, **Chikhi, L**, Currat, M, Radespiel, U (2010) Signals of recent spatial expansions in the grey mouse lemur (*Microcebus murinus*). **BMC Evolutionary Biology**, **10**, 105-121.
47. Salmona J., Dawson D.A., Fouillot D., Ghestemme, T., Thebaud, T., **Chikhi, L.**, Salamolard (2010) The utility of existing passerine microsatellite markers for genetic studies in endangered species – as demonstrated for a critically endangered forest bird endemic to Réunion Island, the Réunion cuckooshrike (*Coracina newtoni*). **Conservation Genetics Resources**, **2**, 361-364.
48. Bruford, M.W., Ancrenaz, M., **Chikhi, L.**, Lackman-Ancrenaz, I., Andau, M., Ambu, L., Goossens, B. (2010) Projecting genetic diversity and population viability for the fragmented orang-utan population in the Kinabatangan floodplain, Sabah, Malaysia. **Endangered Species Research**, **12**: 249–261.
49. **Chikhi, L.**, Sousa, V., Luisi, P., Goossens, B., Beaumont, M.A., (2010) The confounding effects of population structure, genetic diversity and the sampling scheme on the detection and quantification of population size changes. **Genetics**, **186**: 983-995.
50. Sousa, V., Beaumont M., Fernandes, P., Coelho MM, **Chikhi L** (2012) Population divergence with or without admixture: selecting models using an ABC approach. **Heredity**, **108**, 521-530..
51. Gamba C, Fernández E, Tirado M, Deguilloux MF, Pemonge MH, Utrilla P, Edo M, Molist M, Rasteiro R, **Chikhi L**, Arroyo-Pardo E (2012) Ancient DNA from an Early Neolithic Iberian population supports a pioneer colonization by first farmers. **Molecular Ecology**, **21**: 45-56.
52. Viana S, Salmona J., Ibouroi MT, Besolo A., Rasolondraibe E. , Radespiel U., Rabarivola C., **Chikhi L.** (2012) Density estimates of two endangered nocturnal lemur species from northern Madagascar: new results and a comparison of commonly-used methods . **Am. J. Primatology**, **74**: 414–422.

53. Rasteiro, R, Bouttier P.-A, , Sousa, V, Chikhi L, (2012) Investigating sex-biased migration during the Neolithic transition in Europe, using an explicit spatial simulation framework. *Proc. Roy Soc. B*, **279**, 2409-2416.
54. Quéméré, E., Amelot, X., Pierson, J., Crouau-Roy, B., Chikhi, L (2012). Genetic data suggest a natural pre-human origin of open habitats in northern Madagascar and question the deforestation narrative in this region. *Proc. Natl. Acad. Sci, USA*, **109**: 13028-33.
55. Salmons J., Salamolard, M. Fouillot, D., Ghestemme, T., Larose, J., Centon, J.-F., Sousa, V., Dawson, D., Thebaud, C., Chikhi L., (2012) Signature of a pre-human population decline in the critically endangered Reunion Island endemic forest bird *Coracina newtoni*. *PLoS ONE*, **7**(8): e43524. doi:10.1371/journal.pone.0043524.
56. Sharma, R, Arora, N, Goossens, B, Nater, A, Morf, N, Salmons, J, Bruford, MW, Van Schaik, CP, Krützen, M, Chikhi, L (2012). Effective population size dynamics and the demographic collapse of Bornean orang utans. *PLoS ONE*, **7**(11): e49429. doi:10.1371/journal.pone.0049429
57. Sharma R, Goossens B, Kun-Rodrigues C, Teixeira T, Othman N, Boone JQ, Jue NK, Obergfell C, O'Neill RJ, Chikhi L (2012) Two different high throughput sequencing approaches identify thousands of de novo genomic markers for the genetically depleted Bornean elephant. *PLoS ONE* **7**(11): e49533. doi:10.1371/journal.pone.0049533
58. Alves JM, Lopes AM, Chikhi L, Amorim A (2012) On the structural plasticity of the human genome: Chromosomal inversions revisited. *Current Genomics*, **13**: 623-632.
59. Vanpé C, Salmons J, Pais I, Kun-Rodrigues C, Pichon C, Viana Meyler S, Rabarivola C, Lewis RJ, Mohamed-Thani I, Chikhi L (2013) Non-invasive molecular sexing: an evaluation and validation of the SRY- and amelogenin-based method in three new lemur species. *Am. J. Phys. Anthropology*, **150**(3):492-503 DOI 10.1002/ajpa.22222.
60. Quéméré E, Hibert F, Miquel C, Lhuillier E, Rasolondraibe E, Champeau J, Rabarivola C, Nusbaumer L, Chatelain C, Gautier L, Ranirison P, Crouau-Roy B, Taberlet P, Chikhi L (2013) A DNA metabarcoding study of a primate dietary diversity and plasticity across its entire fragmented range. *PLoS ONE* **8** (3): e58971. doi:10.1371/journal.pone.0058971
61. Salmons, J., Rasolondraibe, E., Jan, F., Besolo, A., Rakotoarisoa, H., Viana Meyler, S., Wohlhauser, S., Rabarivola, C, Chikhi, L. (2013) Conservation status and abundance of the crowned sifaka (*Propithecus coronatus*). *Primate Conservation*.
62. Paz-Viñas I, Quéméré, E., Chikhi, L., Loot, G., Blanchet, S. (2013) The demographic history of populations experiencing asymmetric gene flow: combining simulated and empirical data. *Molecular Ecology* **22**(12) 3279-91
63. Heller, R., Chikhi, L., Sigismund H.R. (2013). The confounding effect of population structure on bayesian skyline plot inferences of demographic history. *PLoS ONE* **8**(5): e62992. doi:10.1371/journal.pone.0062992
64. Rasteiro, R, Chikhi L, (2013) Female and male perspectives on the neolithic transition in europe: clues from ancient and modern genetic data. *PLoS ONE* **8**(4): e60944. doi:10.1371/journal.pone.0060944
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