



## Professional Background

Cheikh Sokhna is a biologist specializing in Malariology in the University Cheikh Anta Diop of Dakar in Senegal (UCAD) under the close collaboration with IRD. After having obtained both Master and PhD degrees at the Sciences and Technologies Faculty of UCAD, he was a post-doctoral fellow at the Unit Research of Tropical Malariology of IRD in Dakar. This Unit pursues a research program whose objectives are the study of targets, methods and strategies according to the levels of chemo-resistance and the eco-epidemiological and socio-economic conditions. He is intensively participate to the implementation of this program whose scientific, financial and administrative management he is partly in charge of. Since 2000, his have closely collaborated with the Steering Scientific Committee of the national Malaria Control Program of which his is a founding member. His have extensive experience working with epidemiological field studies in Senegal. He is currently the leader of the Persisting and Emerging Infectious Diseases in West Africa Team in the Research Unit VITROME (IHU Méditerranée Infection). He is co-author of more than a 160 publications on malaria and Tropical infectious diseases, has also written 4 book chapters and as co-author of one book.

## Research

His current scientific program of research is malaria and emerging pathogens in West Africa: detection, epidemiology and fight. This scientific program is based on six Health and Demographic Surveillance Systems (HDSS) in Senegal (Bambey/Mbour/Fatick 602 000 inhabitants, Niakhar 48 000, Mlomp 8 200, Bandafassi 13 600 and Dielmo/Ndiop 950) and a regional network in Western Africa. His research focused several tasks including 1) Studies of identifications, measurement and epidemiological analysis of determinants for human resistance to malaria, 2) Studies of trends in mortality rates attributable to malaria and their relationship to the malaria control interventions, 3) Studies of vector-borne infectious tropical diseases and medical entomology, 4) Studies of causes of fever and emerging pathogens biodiversity in Senegal, 5) Studies of urogenital schistosomiasis by *Schistosoma haematobium*. His work provides the Ministry of Health and the scientific community with new data regarding the etiology, diagnosis, and treatment of infectious tropical diseases.

## Director

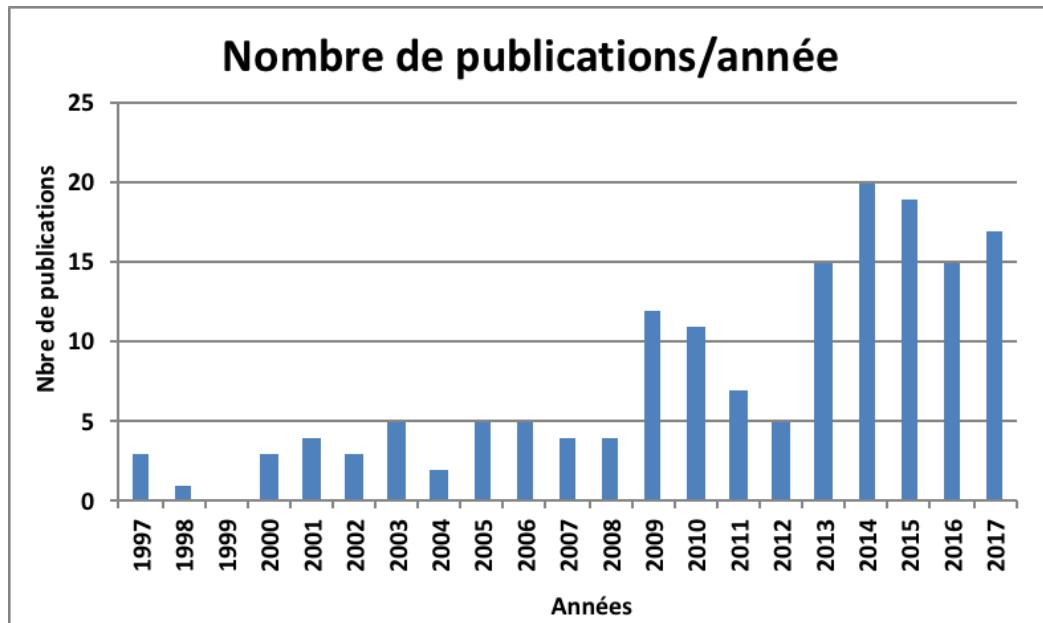
Cheikh Sokhna is the Director of the Six Health and Demographic Surveillance System (HDSS) of IRD in Senegal and Director of VITROME Unit of Senegal, the biggest of the 18 Unit of IRD present in Senegal.

## Awards

- WHO Certificate of Appreciation to IRD 198-URMITE for efforts and commitment to the Meningitis Vaccine Project that ensure the control and near elimination of Group A meningococcal epidemic in sub-Saharan Africa. Awarded 24 February 2016 in Adis Abeba.
- “**Jambar Prize 2013**” from the Senegalese National Malaria Control Program to URMITE-Senegal for efforts to fight against malaria in Senegal, 3) creation of a the first MOOC dedicated to malaria.

## List of Indexed 160 indexed Publications by January, 2017

<http://www.ncbi.nlm.nih.gov/pubmed?term=Sokhna+>.



<i>h-index = 34</i>	<i>Average citations per item = 18,74</i>	<i>Sum of Times Cited = 3 242</i>
<i>Without self citations = 2 858</i>	<i>Citing articles = 2 340</i>	<i>Without self citations = 2 207</i>

### 2017

- Perraut R, Varela ML, Joos C, Diouf B, **Sokhna C**, Mbengue B, Tall A, Loucoubar C, Touré A, Mercereau-Puijalon O. Association of antibodies to Plasmodium falciparum merozoite surface protein-4 with protection against clinical malaria. *Vaccine*. 2017 Oct 14. pii: S0264-410X(17)31391-9. doi:10.1016/j.vaccine.2017.10.012.
- Guilhot E, Alou MT, Lagier JC, Labas N, Couderc C, Delerce J, Diallo A, **Sokhna C**, Fournier PE, Raoult D, Khelaifia S. Genome sequence and description of *Anaeromassilibacillus senegalensis* gen. nov., sp. nov., isolated from the gut of patient with kwashiorkor. *New Microbes New Infect*. 2017 Feb 2; 17:54-64. doi: 10.1016/j.nmni.2017.01.009. eCollection 2017 May.
- Niass O, Saint-Pierre P, Niang M, Diop F, Diouf B, Faye MM, Sarr FD, Faye J, Diagne N, **Sokhna C**, Trape JF, Perraut R, Tall A, Diongue AK, Toure Balde A. Modelling dynamic change of malaria transmission in holoendemic setting (Dielmo, Senegal) using longitudinal measures of antibody prevalence to Plasmodium falciparum crude schizonts extract. *Malar J*. 2017 Oct 11;16(1):409. doi: 10.1186/s12936-017-2052-0.
- Sokhna C**, Gaye O, Doumbo O. Developing Research in Infectious and Tropical Diseases in Africa: The Paradigm of Senegal. *Clin Infect Dis*. 2017 Aug 15;65(suppl\_1):S64-S69. doi: 10.1093/cid/cix347.
- Sokhna C**, Mboup BM, Sow PG, Camara G, Dieng M, Sylla M, Gueye L, Sow D, Diallo A, Parola P, Raoult D, Gautret P. Communicable and non-communicable disease risks at the Grand Magal of Touba: The largest mass gathering in Senegal. *Travel Med Infect Dis*. 2017 Aug 26. pii: S1477-8939(17)30127-8. doi: 10.1016/j.tmaid.2017.08.005. [Epub ahead of print]
- Sougoufara S, **Sokhna C**, Diagne N, Doucouré S, Sembène PM, Harry M. The implementation of long-lasting insecticidal bed nets has differential effects on the genetic structure of the African malaria vectors in the *Anopheles gambiae* complex in Dielmo, Senegal. *Malar J*. 2017 Aug 15;16(1):337. doi: 10.1186/s12936-017-1992-8.
- Cooper LV, Boukary RM, Aseffa A, Mihret W, Collard JM, Daugla D, Hodgson A, **Sokhna C**, Omotara B, Sow S, Quaye SL, Diallo K, Manigart O, Maiden MCJ, Findlow H, Borrow R, Stuart JM, Greenwood BM, Trotter CL. Investigation of correlates of protection against pharyngeal carriage of *Neisseria meningitidis* genogroups W and Y in the African meningitis belt. *PLoS One*. 2017 Aug 10;12(8):e0182575. doi: 10.1371/journal.pone.0182575. eCollection 2017.
- Niang M, Thiam LG, Sane R, Diagne N, Talla C, Doucoure S, Faye J, Diop F, Badiane A, Diouf B, Camara D, Diene-Sarr F, **Sokhna C**, Richard V, Toure-Balde A. Substantial asymptomatic submicroscopic Plasmodium carriage during dry season in low transmission areas in Senegal: Implications for malaria control and elimination. *PLoS One*. 2017 Aug 3;12(8):e0182189. doi: 10.1371/journal.pone.0182189. eCollection 2017.

9. Niang M, Niass O, Diagne N, Sarr FD, Faye MM, Diop F, Diouf B, Faye J, Badiane A, Perraut R, **Sokhna C**, Trape JF, Tall A, Toure-Balde A. Temporal analysis of IgG antibody responses to Plasmodium falciparum antigens in relation to changing malaria epidemiology in a West African setting. *Malar J*. 2017 Jul 11;16(1):283. doi: 10.1186/s12936-017-1928-3.
10. Wotodjo AN, Doucoure S, Gaudart J, Diagne N, Diene Sarr F, Faye N, Tall A, Raoult D, **Sokhna C**. Malaria in Dielmo, a Senegal village: Is its elimination possible after seven years of implementation of long-lasting insecticide-treated nets? *PLoS One*. 2017 Jul 5;12(7):e0179528. doi: 10.1371/journal.pone.0179528. eCollection 2017.
11. Perraut R, Varela ML, Loucoubar C, Niass O, Sidibé A, Tall A, Trape JF, Wotodjo AN, Mbengue B, **Sokhna C**, Vigan-Womas I, Touré A, Richard V, Mercereau-Puijalon O. Serological signatures of declining exposure following intensification of integrated malaria control in two rural Senegalese communities. *PLoS One*. 2017 Jun 13;12(6):e0179146. doi: 10.1371/journal.pone.0179146. eCollection 2017.
12. Lagier JC, Diagne N, Fenollar F, Tamalet C, **Sokhna C**, Raoult D. Vaginal self-sampling as a diagnosis tool in low-income countries and potential applications for exploring the infectious causes of miscarriage. *Future Microbiol*. 2017 Jun;12:609-620. doi: 10.2217/fmb-2016-0179. Epub 2017 Jun 12.
13. Tidjani Alou M, Million M, Traore SI, Mouelhi D, Khelaifia S, Bachar D, Caputo A, Delerce J, Brah S, Alhousseini D, **Sokhna C**, Robert C, Diallo BA, Diallo A, Parola P, Golden M, Lagier JC, Raoult D. Gut Bacteria Missing in Severe Acute Malnutrition, Can We Identify Potential Probiotics by Culturomics? *Front Microbiol*. 2017 May 23;8:899. doi: 10.3389/fmicb.2017.00899. eCollection 2017.
14. Sougoufara S, Doucouré S, Backé Sembéne PM, Harry M, **Sokhna C**. Challenges for malaria vector control in sub-Saharan Africa: Resistance and behavioral adaptations in Anopheles populations. *J Vector Borne Dis*. 2017 Jan-Mar;54(1):4-15. Review.
15. Alou MT, Rathored J, Michelle C, Dubourg G, Andrieu C, Armstrong N, **Sokhna C**, Diallo A, Raoult D, Fournier PE. *Inediibacterium massiliense* gen. nov., sp. nov., a new bacterial species isolated from the gut microbiota of a severely malnourished infant. *Antonie Van Leeuwenhoek*. 2017 Jun;110(6):737-750. doi: 10.1007/s10482-017-0843-5. Epub 2017 Feb 11.
16. Diallo A, Sié A, Sirima S, Sylla K, Ndiaye M, Bountogo M, Ouedraogo E, Tine R, Ndiaye A, Coulibaly B, Ouedraogo A, Faye B, Ba EH, Compaore G, Tiono A, **Sokhna C**, Yé M, Diarra A, Bahmanyar ER, De Boer M, Pirçon JY, Usuf EA. An epidemiological study to assess Plasmodium falciparum parasite prevalence and malaria control measures in Burkina Faso and Senegal. *Malar J*. 2017 Feb 6;16(1):63. doi: 10.1186/s12936-017-1715-1.
17. Lagier JC, **Sokhna C**, Raoult D. Motorcycles, Cell Phones, and Electricity Can Dramatically Change the Epidemiology of Infectious Disease in Africa. *Am J Trop Med Hyg*. 2017 May;96(5):1009-1010.

## 2016

18. SENGHOR B, DIAW OT, DOUCOURE S, SEYE M, DIALLO A, TALLA I, BA CT, **SOKHNA C**. Impact of annual Praziquantel treatment on urogenital Schistosomiasis in a seasonal transmission focus in Central Senegal. 2016. *PLoS Negl Trop Dis* 10(3): e0004557.
19. SOUGOUFARA S, HARRY M, DOUCOURE S, SEMBENE PM & **SOKHNA C**. Shift in species composition in the Anopheles gambiae complex after implementation of long-lasting insecticidal nets in Dielmo, Senegal. *Medical and Veterinary Entomology*. 2016 Apr 5. doi: 10.1111/mve.12171.
20. TIDJANI M, LAGIER JC, KHELAIFA S, LABAS N, **SOKHNA C**, DIALLO A, RAOULT D & DUBOURG D. *Massilibacterium senegalense* gen.nov., so.nov., a new bacterial genus isolated from the human gut. *New Microbes and New Infections*, Volume 10, March 2016, pages 101-111.
21. Tidjani Alou M, Khelaifia S, Michelle C, Andrieu C, Armstrong N, Bittar F, **Sokhna C**, Diallo A, Fournier PE, Raoult D, Million M. *Anaerococcus rubiinfantis* sp. nov., isolated from the gut microbiota of a Senegalese infant with severe acute malnutrition. *Anaerobe*. 2016 Aug;40:85-94. doi: 10.1016/j.anaerobe.2016.06.007. Epub 2016 Jun 18.
22. Tidjani Alou M, Rathored J, Lagier JC, Khelaifia S, Michelle C, **Sokhna C**, Diallo A, Diallo AB, Fournier PE, Raoult D, Edouard S. *Rubeoparvulum massiliense* gen. nov., sp. nov., a new bacterial genus isolated from the human gut of a Senegalese infant with severe acute malnutrition. *New Microbes New Infect*. 2016 Nov 17;15:49-60. doi: 10.1016/j.nmni.2016.11.003. eCollection 2017 Jan.
23. MANIGART O, TROTTER C, FINDLOW H, ASSEFA A, MIHRET W, LOTI DEMISSE T, YESHITELA B, OSEI I, HODGSON A, QUAYE SL, SOW S, COULIBALY M, DIALLO K, TRAORE A, COLLARD JM, MOUSTAPHA BOUKARY R, DJERMAKOYE O, MAHAMANE AE, JUSOT JF, **SOKHNA C**, ALAVO S, DOUCOURE S, BA el H, DIENG M, DIALLO A, DAUGLA DM, OMOTTARA B, CAHNDRAMOHAN D, HASSAN-KING M, NASCIMENTO M, WOUKEU A, BORROW R, STUART JM & GREENWOOD B. A Seroepidemiological Study of Sero-group A Meningococcal Infection in the African Meningitis Belt. *PLoS One*. 2016 Feb 12; 11(2):e0147928.
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25. Seck EH, Sankar SA, Khelaifia S, Croce O, Robert C, Couderc C, Di Pinto F, **Sokhna C**, Fournier PE, Raoult D, Lagier JC. Noncontiguous finished genome sequence and description of *Planococcus massiliensis* sp. nov., a moderately halophilic bacterium isolated from the human gut. *New Microbes New Infect.* 2015 Dec 31;10: 36-46. doi: 10.1016/j.nmni.2015.12.006. eCollection 2016 Mar.
26. Leulmi H, Diatta G, **Sokhna C** et al. (2016). Assessment of oral ivermectin versus shampoo in the treatment of pediculosis (head lice infestation) in rural areas of Sine-Saloum, Senegal. *International journal of antimicrobial agents.* (48)6. p.627 - 632.
27. Cissé B, Ba El, **Sokhna C** et al. (2016). Effectiveness of Seasonal Malaria Chemoprevention in Children under Ten Years of Age in Senegal: A Stepped-Wedge Cluster-Randomised Trial. *PLoS medicine.* (13)11. p.e1002175.
28. NDiaye JL, Cissé B, Ba, El, Gomis JF, Ndour CT, Molez JF, Fall FB, **Sokhna C** et al. (2016). Safety of Seasonal Malaria Chemoprevention (SMC) with Sulfadoxine-Pyrimethamine plus Amodiaquine when Delivered to Children under 10 Years of Age by District Health Services in Senegal: Results from a Stepped-Wedge Cluster Randomized Trial. *PLoS one.* (11)10. p.e0162563.
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31. Diatta G, Abat C, **Sokhna C** et al. (2016). Head lice probably resistant to ivermectin recovered from two rural girls in Dielmo, a village in Sine-Saloum, Senegal.. *International journal of antimicrobial agents.* (47)6. p.501 - 502.
32. Million M, Tidjani A, Saber K, Bachar D, Lagier JC, Dione N, Brah S, Hugon P, Lombard V, Armougom F, Fromnot J, Robert C, Micelle C, Diallo A, Fabre A, Guieu R, **Sokhna C**, Henrissat B, Parola P & Raoult D. Increased Gut Redox and Depletion of Anaerobic and Methanogenic Prokaryotes in Severe Acute Malnutrition.. *Scientific reports.* (6)1. p.26051.

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33. Lo CI, Padhmanabhan R, Mediannikov O, Caputo A, Michelle C, Faye N, **Sokhna C**, Raoult D, Fournier PE, Fenollar F. High-quality genome sequence and description of *Bacillus ndiopicus* strain FF3(T) sp. nov. *New Microbes New Infect.* 2015 Oct 19;8:154-63.
34. GRANGE L, LOUCOUBAR C, TELLE O, TALLA, FAYE J, **SOKHNA C**, TRAPE JF, SAKUNTABHAI A, BUREAU JF, PAUL R. Risk Factors for *Plasmodium falciparum* Gametocyte Positivity in a Longitudinal Cohort. *PLoS One.* 2015;10(4):e0123102.
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36. GAYE A, BOUSEMA T, GADIAGA L, NDIATH MO, KONATE L, JAWARA M, FAYE O & **SOKHNA C**. Infectiousness of the Human Population to *Anopheles arabiensis* by Direct Skin Feeding in an Area Hypoendemic for Malaria in Senegal. *American Journal of Tropical Medicine and Hygiene*, 2015, 92(3) : 648-52.
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38. WOTODJO AN, TRAPE J-F, RICHARD V, DOUCOURE S, DIAGNE N, TALL A, NDIATH O, FAYE N, GAUDART J, ROGIER C & **SOKHNA C**. (2015). No Difference in the Incidence of Malaria in Human-Landing Mosquito Catch Collectors and Non-Collectors in a Senegalese Village with Endemic Malaria. *PLoS ONE.* 2015, 10(5): e0126187.
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41. GRANGE L, LOUCOUBAR C, TELLE O, TALL A, FAYE J, **SOKHNA C**, TRAPE JF, SAKUNTABHAI A, BUREAU JF, PAUL R. Risk Factors for *Plasmodium falciparum* Gametocyte Positivity in a Longitudinal Cohort. *PLoS One.* 2015; 10(4): e0123102.
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43. SENGHOR B, DIAW OT, DOUCOURE S, SYLLA SN, SEYE M, TALLA I, BA CT, DIALLO A, **SOKHNA C**. Efficacy of praziquantel against urinary schistosomiasis and reinfection in Senegalese school children where there is a single well-defined transmission period. *Parasit Vectors.* 2015,10;8: 362.
44. HELLERINGER S, PISON G, MASQUELIER B, KANTE AM, DOUILLOT L, NDIAYE CT, DUTHE G, **SOKHNA C** & DELAUNAY V. Improving survey data on pregnancy-related deaths in low-and middle-income countries: a validation study in Senegal. *Trop Med Int Health.* 2015; 20(11): 1415-1423.

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## 2014

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53. SENGHOR B, DIALLO A, SYLLA SN, DOUCOURE S, NDIATH MO, GAAYEB L, DJUIKWO-TEUKENG, BA CT & **SOKHNA C**. Prevalence and intensity of urinary schistosomiasis among school children in the district of Niakhar, region of Fatick, Senegal. *Parasites & Vectors* 2014, 7:5.
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