
BIOGRAPHICAL SKETCH

NAME: Doumbo Safiatou Niare

POSITION TITLE: Full Professor at the Malaria research and Training Center/

USTTB/Mali

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
Baccalaureate in Science	MD	1999	
National school of Medicine and Pharmacy	CES	2007	Medicine
University of Cheick Anta Diop, Dakar	MSc	07/2009	Parasitology and entomology
High Institute of training and applied research University of Bamako	DU	04/2012	Medical Parasitology and entomology
Institut Pasteur of Paris	PhD	12/2015	Mycology
High Institute of training and applied research University of Bamako	Assistant Professor	2009-2017	Medical Parasitology and Entomology
University of Science, Technics and technologies of Bamako	Research associate	2014-2019	Parasitology – Mycology
Malaria research and training center	Professor	11/2018 - to now	Parasitology- Immunology Parasitology Mycology
University of Science, Technics and technologies of Bamako			

A. Personal Statement

I'm a research associate in Malaria Research and Training Center and I have been nominated Professor of Parasitology and Mycology at the Faculty of Medicine and Odontostomology at University of Science, Technics, and technologies of Bamako. I work on schistosomiasis in person at risk to characterize the risk factors in human and to evaluate the coinfection with *P.falciparum* in an endemic area. I use urine filtration technique for microscopic detection of Schistosoma egg excretion from human. I have been associated to identify the sociodemographic factors and the evaluation of the presence the human and animal schistosoma hybrid responsible of the persistence of the disease in Mali. As the responsible of the laboaratory of Helmininth diseases, I'm conducted with the team the conduct a clinical trial by using the plants using by population to treat the disease.

B. Positions and Honors

1999-2003: Researcher at the Department of Epidemiology of Parasitic Diseases, National School of Medicine and Pharmacy, Bamako, Mali^[1]_[SEP]

2004- 2009: lab investigator / Malaria and pregnancy unit at Malaria research and Training Center

2009 – 2018: Professor assistant in parasitology-mycology at faculty of Medicine and Odontostomatology/USTTB

2014-2018: Research associate to Malaria Research and Training center Bamako/ Mali

11/2018 - to now: Professor in parasitology-mycology at faculty of Medicine and Odontostomatology/ USTTB

Other Experience and Professional Memberships

2003 – present member of national physician order in Mali **No37/03/D**

2009-present: member Malian scientist women association:

2012- present: member of American Association of Tropical Medicine and Hygiene (ASTMH)

2012- present: member of African society of parasitology

2013- present: member of Malian society of Immunology

2014- present: member of Ivory Coast society of parasitology

2016- present: member of Malian society of parasitology

C. Contributions to Science

Risk factors of Schistosomiasis

Schistosomiasis represents a health problem in Mali, people are exposed to the disease due to the lack of clean water source in many areas. School age Children are more exposed despite of praziquantel use in Mass drug administration annually. To describe the risk factor, we conducted several studies in different parts of Mali. Urine and stool samples were collected to detect the presence of *Schistosoma* eggs. In Kalifabougou the same age group were the exposed group. The results showed the coinfection with *P.falciparum* was associated to the reduction of malaria, the proximity of the natural water source (Marigot) was an important risk factor (**Safiatou Doumbo**, and al. Coinfection of Long-Term Carriers of *Plasmodium falciparum* with *Schistosoma haematobium* Enhances Protection from Febrile Malaria: A Prospective Cohort Study in Mali. *PLoS Negl Trop Dis* (2014) *Dis* 8(9): e3154). Despite the use of PZQ, *Schistosoma*, persist in the same village and elsewhere. **Doumbo Safiatou Niaré***, et al Dynamique de l'excrétion ovulaire de *Schistosoma haematobium* dans une cohorte de Kalifabougou (Mali) sous traitement par le praziquantel durant cinq ans : Bull. Soc. Path. Exot DOI 10.3166/bspe-2018-0018. *Tandina F., Doumbo S.N., Kone´ A.K., Guindo D.2, Goita S.2, Sissoko M., Konate´ S., Dabo A. Doumbo O.K. Épidémiologie des schistosomoses dans le village périurbain de Sotuba, dix années après la mise à échelle du traitement de masse au Mali. Médecine et Santé Tropicales* 2016 ; 26 : 51-56) few years later we describe the presence of the hybrid between Human and animal schistosomiasis parasites (Agniwo Privat, Boissier Jérôme , Sidibé Bakary , Dembélé Laurent , Diakité Assitan , Doumbo Safatou Niaré , Akplogan Ahristode , Guindo Hassim, Blin Manon , Dametto Sarah, Ibikounlé Moudachirou , Spangenberg Thomas and Dabo Abdoulaye. *Genetic*

profiles of Schistosoma haematobium parasites from Malian transmission hotspot areas. Parasites & Vectors (2023) 16:263).

1. Agniwo Privat, Boissier Jérôme, Sidibé Bakary, Dembélé Laurent, Diakité Assitan, **Doumbo Safiatou Niaré .**, Akplogan Ahristode, Guindo Hassim, Blin Manon, Dametto Sarah, Ibikounlé Moudachirou, Spangenberg Thomas and Dabo Abdoulaye. **Genetic Profiles of Schistosoma haematobium parasites from Malian transmission hotspot areas.** *Parasites & Vectors*, DOI : 10.1186/s13071-023-05860-8
2. Agniwo, P., Sidibé, B., Diakité, A., Niaré, S. D., Guindo, H., Akplogan, A. **Doumbo Safiatou Niaré....**, & Dabo, A. (2023). Ultrasound aspects and risk factors associated with urogenital schistosomiasis among primary school children in Mali. *Infectious Diseases of Poverty*, 12(1), 1-12.
3. Abdoulaye Dabo, Privat Koba Agniwo, Bakary Sidibe, Assitan Diakite, Mouctar **Diallo, Safiatou Niare**, Laurent Dembélé, Abdoulaye Djimde. Impact of the development of water points, an effective alternative for the fight against schistosomiasis: the case of the city of Bamako; Cahiers de l'observatoire Hommes-Milieus international Téssékéré, 2022, n°11: 88-91
4. Assitan Traoré Diakité, Privat Agniwo, Bakary Sidibé, **Safiatou Doumbo Niaré**, Hassim Guindo, Ahristode Akplogan., Moudachirou Ibikounlé, Jérôme Boissier., Abdoulaye Dabo. Genetic study of animal Schistosomes in Mali (West Africa): Population genetics (*In press*).
5. Assitan Diakité, Privat Agniwo, Abdoulaye Dabo, Bakary Sidibé, Boris A.E.S. Savassi, Ahristode Akplogan, Hassim Guindo, Laurent Dembélé, Moudachirou Ibikounlé, **Safiatou Doumbo Niaré**, Saidou Tembely, Jérôme Boissier Population genetic structure of Schistosoma spp. collected from cattle in Mali, *parasite (In press)*
6. Privat Agniwo, Bakary Sidibé, Abdoulaye Koné, Ahristode Akplogan, Hassim Guindo, Ornela Dossa, Oumar Coulibaly, Laurent Dembélé, Mahamadou Traoré, Mahamadou Thera, Abdoulaye A. Djimdé, Abdoulaye Dabo, **Safiatou Niare Doumbo**, Prevalence and schistosomiasis maintenance risk factors in the district of Bamako, Mali, *AJPAM (In press)*
7. Bakary Sidibé, Privat Agniwo, Assitan Diakité, B.A.E.S. Savassi, **Doumbo Safiatou Niaré**, Ahristode Akplogan, Hassim Guindo, Moudachirou Ibikounlé, Laurent Dembélé, Abdoulaye Djimdé, Jérôme Boissier Abdoulaye Dabo, Assessing the Relationship Between Human Water Contact Activities and Schistosome Infection Risk in Two Endemic Communities in Mali, *Acta Tropica (In press)*

Risks factors of fungi disease

Most of my works on fungi are based on identification of risk factors of these diseases in Our population. The aspergillosis study aimed to describe the inpatients upper- airway fungal flora and the environmental airborne fungal contamination in the Onco-Haematology ward at the National Teaching hospital of Bamako, Mali. In overall, airborne fungal contamination rates were most important in rainy season compared to dry season in patient and on the hospital ward. Concerning the dermatophytosis study the aim was to assess the prevalence, risk factors and etiological agents of tinea capitis, the most frequent dermatophytosis subtype, among primary schoolchildren in three eco-climatic zones in Mali. Two anthropophilic dermatophytes species, *Trichophyton soudanense* and *Microsporum audouinii*, were the most frequent species associated with tinea capitis among primary schoolchildren in Mali. Tinea capitis risk increased with increasing climate humidity in this relatively homogenous schoolchild population, which strongly suggests that climatic factors play a significant role in the epidemiology of dermatophytosis.

1. **Safiatou Niare Doumbo**, Anne Cecile Normand, Yacouba Lazzarre Diallo, Abdoul Karim Dembele, Mahamadou A. Thera, Dapa Diallo, Renaud Piarroux, Ogobara Doumbo, Stephane Ranque. Preliminary Study of the Fungal Ecology at the Haematology and Medical-Oncology Ward in Bamako, Mali *Mycopathologia* (2014) 178 DOI 10.1007/s11046-014-9760-6
2. Oumar Coulibaly, Abdoulaye K. Kone, **Safiatou Niaré-Doumbo**, Siaka Goïta, Jean Gaudart, Abdoulaye A. Djimdé, Renaud Piarroux, Ogobara K. Doumbo, Mahamadou A. Thera, Stéphane Ranque, Dermatophytosis among School children in three Eco-climatic Zones of Mali.(2016). *PLoS Negl Trop Dis* 10 (4): e0004675. doi:10.1371/journal.pntd.0004675
3. **Safiatou Niare Doumbo**, Yacouba Cissoko, Souleymane Dama, Amadou Niangaly, Adam Garango, Ahmed Konate , Abdoulaye Kone , Boubacar Traore , Mahamadou Thera, Abdoulaye Djimde, David W. Denning The estimated burden of fungal diseases in Mali *Journal of Medical Mycology* 33 (2023) 101333
4. **Safiatou Niaré Doumbo** *, Niawalou Jacob Dara¹, Amadou Bamadio¹, Amatigue Zeguime¹, Nana Diarra², Adam Garango¹, Bintou Diarra¹, Ahmed Konaté¹; Abdoulaye Koné¹, Ibrahim Tegueté², Boubacar Traoré¹, Abdoulaye Djimde¹, Mahamadou A Thera¹, Profil épidémiologique et étiologique des candidoses vulvovaginales chez les femmes en consultation dans le service de gynécologie-

Malaria and Pregnancy

Malaria during pregnancy is a major public health problem. Malaria parasite is responsible of high morbidity and mortality in the fetus and new born. The high level of parasite responsible of chloroquine allowed to compare different regimes of Sulfadoxine pyrimethamine (SP). I assessed the SP sensibility on malaria parasite and its effects on the pregnancy. The listed papers found that SP is responsible of an increasing of low birth weight and reduction of maternal anemia. It is still efficacy on malaria parasite form Pregnant women.

1. Diakite OS Maiga, Kayentao K, Traoré BT, Djimde A, Traoré B, Diallo M, Ongoiba A, Doumtabé D, **Doumbo S**, Traoré MS, Dara A, Guindo O, Karim DM, Coulibaly S, Bougoudogo F, Ter Kuile FO, Danis M, Doumbo OK. Superiority of 3 over 2 doses of intermittent preventive treatment with sulfadoxine-pyrimethamine for the prevention of malaria during pregnancy in Mali: a randomized controlled trial. *Clin Infect Dis.* 2011 Aug 1;53(3):215-23.
2. **S. Doumbo**, O.A. Ongoiba, D. Doumtabé, A. Dara, T.D. Ouologuem, K. Kayentao, A. Djimdé, B. Traoré, O.K. Doumbo. Prévalence de *Plasmodium falciparum*, de l'anémie et des marqueurs moléculaires de la résistance à la chloroquine et à la sulfadoxine-pyriméthamine chez les femmes accouchées à Fana, Mali. *Bull. Soc. Pathol. Exot.* (2013) 106:188-192

Malaria and immunity

Despite the knowledge on malaria epidemiology, pathophysiology, immunology, the development of a public health usable malaria vaccine is still a challenge. It has been necessary to understand the *Plasmodium* host interactions in a context of co-infection. Infection *Plasmodium falciparum* malaria, generates immune responses within the host. These immune responses are regulated by both the non-specific innate immune system known by the specific immune system, or acquired by environmental factors. I assessed the interaction between parasites and volunteer exposed to malaria in endemic area (Kalifabougou/Mali). The papers bellow showed the results of our study suggesting that

the acquisition of antimalarial protective immunity is multifactorial and complex. This was related to the host-parasite interaction and the presence of co-infection with *S. haematobium*.

1-Weiss GE, Traore B, Kayentao K, Ongoiba A, **Doumbo S**, Doumtabe D, Kone Y, Dia S, Guindo A, Traore A, Huang CY, Miura K, Mircetic M, Li S, Baughman A, Narum DL, Miller LH, Doumbo OK, Pierce SK, Crompton PD. The *Plasmodium falciparum*-specific human memory B cell compartment expands gradually with repeated malaria infections. *PLoS Pathog.* 2010 20;6(5):e1000912

2- Tuan M. Tran, Shanping Li, **Safiatou Doumbo**, Didier Doumtabe, Chiung Yu Huang Seydou Dia, Aboudramane Bathily, Jules Sangala, Younoussou Kone, Abdrahamane Traore, Moussa Niangaly, Charles Dara, Kassoum Kayentao, Aissata Ongoiba, Ogobara K. Doumbo, Boubacar Traore, and Peter D.Crompton. An Intensive Longitudinal Cohort Study of Malian Children and Adults Reveals No Evidence of Acquired Immunity to *Plasmodium falciparum* Infection.

Clinical Infectious Diseases, March 13, 2013: P11-8.

3- Tuan M. Tran, Shanping Li, **Safiatou Doumbo**, Didier Doumtabe, Chiung Yu Huang Seydou Dia, Aboudramane Bathily, Jules Sangala, Younoussou Kone, Abdrahamane Traore, Moussa Niangaly, Charles Dara, Kassoum Kayentao, Aissata Ongoiba, Ogobara K. Doumbo, Boubacar Traore, and Peter D.Crompton. An Intensive Longitudinal Cohort Study of Malian Children and Adults Reveals No Evidence of Acquired Immunity to *Plasmodium falciparum* Infection.

Clinical Infectious Diseases, March 13, 2013: P11-8.

4- **Safiatou Doumbo**, Tuan Tran, Jules Sangala, Shanping Li, Didier Doumtabe, Younoussou Kone, Abdrahamane Traoré, Aboudramane Bathily, Aissata Ongoiba, Kassoum Kayentao, Mouctar Diallo, Zongo Dramane, Peter Crompton, Ogobara Doumbo, Boubacar Traore. Co-infection of Long-Term Carriers of *Plasmodium falciparum* with *Schistosoma haematobium* Enhances Protection from Febrile Malaria: A Prospective Cohort Study in Mali. *PLoS Negl Trop Dis* (2014) Dis 8(9): e3154.

5- Klara Sondén, **Safiatou Doumbo**, Ulf Hammar, Manijeh Vafa Homann, Aissata Ongoiba, Boubacar Traoré, Matteo Bottai, Peter D. Crompton, and Anna Färnert Asymptomatic

Multiclonal *Plasmodium falciparum* Infections Carried Through the Dry Season Predict Protection Against Subsequent Clinical Malaria. *J Infect* (2015) *Dis* doi: 10.1093/infdis/jiv088

- 6- Tuan M. Tran, Rajan Guha, Silvia Portugal, Jeff Skinner, Aissata Ongoiba, Jyoti Bhardwaj, Marcus Jones, Jacqueline Moebius, Pratap Venepally, Safiatou Doumbo, Elizabeth A. DeRiso, Shanping Li, Kamalakannan Vijayan, Sarah L. Anzick, Geoffrey T. Hart, Elise M. O'Connell, Ogobara K. Doumbo, Alexis Kaushansky, Galit Alter, Phillip L. Felgner, Hernan Lorenzi, Kassoum Kayentao, Boubacar Traore, Ewen F. Kirkness, and Peter D. Crompton. A Molecular Signature in Blood Reveals a Role^[1]for p53 in Regulating Malaria-Induced Inflammation. *Immunity* 51, 1–16, October 15, 2019 Published by Elsevier Inc. 1
7. Rajan Guha, Anna Mathioudaki, **Safiatou Doumbo**, Didier Doumtabe, Jeff Skinner, Gunjan Arora, Shafiuddin Siddiqui, Shanping Li, Kassoum Kayentao, Aissata Ongoiba, _View ORCID Profile Judith Zaugg, Boubacar Traore, Peter D. Crompton. *Plasmodium falciparum* malaria drives epigenetic reprogramming of human monocytes toward a regulatory phenotype. doi: <https://doi.org/10.1101/2020.10.21.346197>

Intestinal and urogenital parasitic infection

As parasitologist, I'm interesting to assess parasite in differents context of immunological status in patient. I investigated the dynamic of opportunistes parasitics (OP) infection for 10 years starting before the introduction antiretroviral traitment in Mali and the schistosomiasis during MDA for PZQ. The reuslts show that the ARV and the PZQ allowed to reduce excretion of the OP and the schistosomiasis respectively. Papers below are related the these results.

- 1- **S. N. Doumbo**, A. Ouattara, M. Diallo, D. Minta, B. Traoré, A. Dolo, I.I. Maiga, M. Maiga, H.A. Traoré, O.K. Ogobara : Evolution des Infections opportunistes digestives au cours du VIH SIDA au Mali de 1988 à 2009.

Médecine d'Afrique Noire. Janvier 2013 ;60(1): 31-37

- 2- Tandina F., **Doumbo S.N.**, Kone´ A.K., Guindo D.2, Goita S.2, Sissoko M., Konate´ S., Dabo A. Doumbo O.K. Épidémiologie des schistosomoses dans le village périurbain de

Sotuba, dix années après la mise à échelle du traitement de masse au Mali. *Médecine et Santé Tropicales* 2016 ; 26 : 51-56.

- 3- A. Camara, S. Konate, C. I. Lo, E. Kuete, M. Sarr, N. Amsrtong, **S. Niare**, M. A. Thera, F. Fenollar, D. Raoult and M. Million *Virgibacillus ihumii* sp. nov., a new bacterium isolated from the stool of healthy African children. *New Microbe and New Infect* 2020; 38: 100790
- 4- S. Konate, A. Camara, C. I. Lo, M. Tidjani Alou, A. Hamidou Togo, **S. Niare**, N. Armstrong, A. Djimdé, M. A. Thera, F. Fenollar, D. Raoult and M. Million. *Virgibacillus dumboii* sp. nov., a halophilic bacterium isolated from the stool of a healthy child in Mali . *New Microbe and New Infect* 2021; 42: 100890
- 5- Agniwo Privat, Boissier Jérôme, Sidibé Bakary, Dembélé Laurent, Diakité Assitan, **Doubo Safiatou Niaré** ., Akplogan Ahristode, Guindo Hassim, Blin Manon, Dametto Sarah, Ibikounlé Moudachirou, Spangenberg Thomas and Dabo Abdoulaye. **Genetic Profiles of *Schistosoma haematobium* parasites from Malian transmission hotspot areas.** *Parasites & Vectors*, DOI : 10.1186/s13071-023-05860-8
- 6- Agniwo, P., Sidibé, B., Diakité, A., Niaré, S. D., Guindo, H., Akplogan, A. **Doubo Safiatou Niaré**...., & Dabo, A. (2023). Ultrasound aspects and risk factors associated with urogenital schistosomiasis among primary school children in Mali. *Infectious Diseases of Poverty*, 12(1), 1-12.
- 7- Abdoulaye Dabo, Privat Koba Agniwo, Bakary Sidibe, Assitan Diakite, Mouctar **Diallo, Safiatou Niare**, Laurent Dembélé, Abdoulaye Djimde. Impact of the development of water points, an effective alternative for the fight against schistosomiasis: the case of the city of Bamako; *Cahiers de l'observatoire Hommes-Milieux international Téssékéré*, 2022, n°11: 88-91
- 8- Assitan Traoré Diakité, Privat Agniwo, Bakary Sidibé, **Safiatou Doubo Niaré**, Hassim Guindo, Ahristode Akplogan., Moudachirou Ibikounlé, Jérôme Boissier., Abdoulaye Dabo. Genetic study of animal Schistosomes in Mali (West Africa): Population genetics (*In press*).
- 9- Assitan Diakité, Privat Agniwo, Abdoulaye Dabo, Bakary Sidibé, Boris A.E.S. Savassi, Ahristode Akplogan, Hassim Guindo, Laurent Dembélé, Moudachirou Ibikounlé, **Safiatou Doubo Niaré**, Saidou Tembely, Jérôme Boissier Population genetic structure of *Schistosoma* spp. collected from cattle in Mali, *parasite (In press)*
- 10- Privat Agniwo, Bakary Sidibé, Abdoulaye Koné, Ahristode Akplogan, Hassim Guindo, Ornela Dossa, Oumar Coulibaly, Laurent Dembélé, Mahamadou Traoré, Mahamadou Thera,

Abdoulaye A. Djimdé, Abdoulaye Dabo, **Safiatou Niare Doumbo**, Prevalence and schistosomiasis maintenance risk factors in the district of Bamako, Mali, *AJPAM (In press)*

11- Bakary Sidibé, Privat Agniwo, Assitan Diakité, B.A.E.S. Savassi, **Doumbo Safiatou Niaré**, Ahristode Akplogan, Hassim Guindo, Moudachirou Ibikounlé, Laurent Dembélé, Abdoulaye Djimdé, Jérôme Boissier Abdoulaye Dabo, Assessing the Relationship Between Human Water Contact Activities and Schistosome Infection Risk in Two Endemic Communities in Mali, *Acta Tropica (In press)*

D. Additional Information: Research Support and/or Scholastic Performance

Ongoing Study:

2016- 2021: Etude pilote pour estimer le poids et la distribution du paludisme à *Plasmodium falciparum* à Kalifabougou, Mali, en prélude d'une étude de cohorte portant sur l'acquisition de l'immunité naturelle contre le paludisme (Projet NIAID/NIH : Investigateur de Laboratoire).

2011-2016 Evaluation de la réponse immunitaire au cours de la coïnfection paludisme et schistosomose chez des volontaires exposés dans le village de Kalifabougou (Projet NIAID/NIH : Investigateur de Laboratoire)

Publications

1. Nadege Nziza, Tuan M. Tran, Elizabeth A. DeRiso, Sepideh Dolatshahi, Jonathan D. Herman, Luna de Lacerda, Caroline Junqueira, Judy Lieberman, Aissata Ongoiba, **Safiatou Doumbo**, Kassoum Kayentao, Boubacar Traore, Peter D. Crompton, and Galit Alter Accumulation of Neutrophil Phagocytic Antibody Features Tracks With Naturally Acquired Immunity Against Malaria in Children. *The Journal of Infectious Diseases*® 2023;228:759–68
2. Agniwo Privat, Boissier Jérôme, Sidibé Bakary , Dembélé Laurent , Diakité Assitan , Doumbo Safatou Niaré , Akplogan Ahristode , Guindo Hassim, Blin Manon , Dametto Sarah, Ibikounlé Moudachirou , Spangenberg Thomas and Dabo Abdoulaye. Genetic profiles of *Schistosoma haematobium* parasites from Malian transmission hotspot areas. *Parasites & Vectors* (2023) 16:263
3. .Eva Stadler, Deborah Cromer, Samson Ogunlade, Aissata Ongoiba, **Safiatou Doumbo**, Kassoum Kayentao, Boubacar Traore, Peter D. Crompton, Silvia Portugal, Miles P. Davenport and David S. Khoury Evidence for exposure

dependent carriage of malaria parasites across the dry season: modelling analysis of longitudinal data. *Malaria Journal* (2023) 22:42 <https://doi.org/10.1186/s12936-023-04461-1> \

4. Privat Agniwo , Bakary Sidibé , Assitan Diakité , Safatou Doumbo Niaré , Hassim Guindo , Ahristode Akplogan , Moudachirou Ibikounlé , Jérôme Boissier and Abdoulaye Dabo. Ultrasound aspects and risk factors associated with urogenital schistosomiasis among primary school children in Mali . *Infectious Diseases of Poverty* (2023) 12:40
5. Kassoum Kayentao,, Aissata Ongoiba, Anne . Preston, R.N., Sara A. Healy, ,Safiatou Doumbo,, Didier Doumtabe,, Abdrahamane Traore,, Hamadi Traore, Adama Djiguiba, Shanping,, Mary E. Peterson, Shinyi Telscher,, Azza H. Idris,, Neville K. Kisalu,, Kevin Carlton., Leonid Serebryanny., Sandeep Narpala,, Adrian B. McDermott, Martin Gaudinski,, Siriman Traore, M.S., Hamidou Cisse, ., Mamadou Keita., Jeff Skinner,, Zonghui Hu,, Amatigué Zéguimé, ., Adama Ouattara, M’Bouye Doucoure, Amagana Dolo, Abdoulaye Djimé,, Boubacar Traore., Robert A. Seder, and Peter D. Crompton, Safety and Efficacy of a Monoclonal Antibody against Malaria in Mali. **New England Journal of Medecine**
6. Safiatou Niare Doumbo, Yacouba Cissoko, Souleymane Dama, Amadou Niangaly, Adam Garango, Ahmed Konate , Abdoulaye Kone , Boubacar Traore , Mahamadou Thera, Abdoulaye Djimde, David W. Denning The estimated burden of fungal diseases in Mali *Journal of Medical Mycology* 33 (2023) 101333
7. Safiatou Niaré Doumbo *, Niawalou Jacob Dara1, Amadou Bamadio1, Amatigue Zeguime1, Nana Diarra2, Adam Garango1, Bintou Diarra1, Ahmed Konaté1; Abdoulaye Koné1, Ibrahim Tegueté2, Boubacar Traoré1, Abdoulaye Djimde1, Mahamadou A Thera1, Profil épidémiologique et étiologique des candidoses vulvovaginales chez les femmes en consultation dans le service de gynécologie-obstétrique, CHU Gabriel TOURE Bamako - Mali: *Med medical* 2022, 37(3): 36-40
8. Matilda Aberese-Ako , Phidelia Doegah, Evelyn Acquah, Pascal Magnussen, Evelyn Ansah,^[1]Gifty Ampofo1, Dominic Dankwah Agyei, Desmond Klu, Elsie Mottey, Julie Balen, Safiatou Doumbo, Wilfred Mbacham, Ouma Gaye, Margaret Gyapong, Seth Owusu-Agyei and Harry Tagbor. Motivators and demotivators to accessing malaria in pregnancy interventions^[1]in sub-Saharan Africa: a meta-ethnographic review (2022) 21:170 <https://doi.org/10.1186/s12936-022-04205-7>
9. Christine S. Hopp, Jeff Skinner, Sarah L. Anzick, Christopher M. Tipton, Mary E. Peterson, Shanping Li, Safiatou Doumbo, Kassoum Kayentao, Aissata Ongoib a, Craig Martens, Boubacar Traore, Peter D. Crompton Atypical B cells upregulate co-stimulatory molecules during malaria and secrete antibodies with follicular

10. Richard Thomson-Luque , Lasse Votborg-Novél, Wanangwa Ndovie, Carolina M. Andrade, Moussa Niangaly, Charalampos Attipa, Nathalia F. Lima, Drissa Coulibaly, Didier Doumtabe, Bouréïma Guindo, Bourama Tangara, Fayçal Maiga, Abdoulaye Kassoum Kone, Karim Traore, Kassoum Kayentao, Aissata Ongoïba, Safiatou Doumbo, Mahamadou A. Thera, Karl Seydel, Nuno S. Osório & Silvia Portugal *Plasmodium falciparum* transcription in different clinical presentations of malaria associates with circulation time of infected erythrocytes .Jul 2021 NATURE COMMUNICATIONS | <https://doi.org/10.1038/s41467-021-25062-z>
11. S. Konate, A. Camara, C. I. Lo, M. Tidjani Alou, A. Hamidou Togo, S. Niare, N. Armstrong, A. Djimé, M. A. Thera, F. Fenollar, D. Raoult and M. Million. *Virgibacillus doumbonii* sp. nov., a halophilic bacterium isolated from the stool of a healthy child in Mali . *New Microbe and New Infect* 2021; 42: 100890 .
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