

Curriculum Vitae

PERSONAL

Name Momodou W. Jallow
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Nationality Gambian

PROFILE

I have over ten years of research experience ranging from experimental laboratory to field coordination and research data collection, with excellent critical appraisal skills and evidence synthesis ability. I just completed my PhD at the London School of Hygiene & Tropical Medicine (LSHTM). My PhD thesis is on the effects of genetic variants on the hepcidin and iron regulatory genes on anaemia and iron absorption in Gambians. I have a keen interest in understanding the genetic determinants of human diseases, to enable the development of precision medicine approached for disease treatment and prevention. I am an enthusiastic person who enjoys being part of, and as well as leading a successful and productive team. I have excellent communication and interpersonal skills that enable me to work well in a highly collaborative and multidisciplinary environment. I have a strong passion for learning new knowledge, and I quickly grasp new ideas and concepts, develop innovative and creative solutions to problems. I possess a high level of self-motivation required to achieve best results even under significant pressure.

EDUCATION AND QUALIFICATIONS

Apr 2016 – Feb 2021 **PhD (Human Genetics and Nutrition)**

London School of Hygiene & Tropical Medicine, London

Thesis title: The impact of single nucleotide polymorphisms in human genes that regulate hepcidin and iron on oral iron absorption and the risk of anaemia in Africans

Sep 2014 - Jun 2015 **BSc (Hons) Biomedical Science (First Class)**

Kingston University London, London

This is a full-time, one-year top-up BSc degree (Level 6) after completing 4-year Foundation Degree in Biomedical Science.

Sep 2010 - Jun 2014 **Foundation Degree in Biomedical Science (Distinction)**

St. Georges University of London, London

WORK EXPERIENCE

- Jul 2021 to Present **Postdoctoral Fellow**
*Regeneron Genetic Center, Regeneron Pharmaceuticals, Inc.
Old Saw Mill River Road, Tarrytown, New York.*
- Feb 2020 to Jul 2021 **Research Project Coordinator**
*MRC Unit The Gambia at London School of Hygiene & Tropical
Medicine. Atlantic Road, Fajara, The Gambia*
- Apr 2016 to Dec 2019 **PhD Student**
*MRC Unit The Gambia at London School of Hygiene & Tropical
Medicine, The Gambia*
- Jul 2015 to Apr 2016 **Scientific Officer**
MRC Unit The Gambia, The Gambia
- Aug 2013 to Sep 2014 **Senior laboratory Technician**
MRC Unit The Gambia, The Gambia
- Sep 2008 to Jul 2013 **Laboratory Technician**
MRC Unit The Gambia, The Gambia

PROFESSIONAL DEVELOPMENT COURSES

- Nov-20 Introduction to Genomic Technologies
Johns Hopkins University and offered through Coursera
- Sep-20 Researcher Management and Leadership Training Certificate, University of
Colorado, Online through Coursera
This a 6 weeks online course on research management and leadership
- May 2020 - Jul 2020 HEALTH SYSTEMS STRENGTHENING, *THE UNIVERSITY OF MELBOURNE ,
THE NOSSAL INSTITUTE FOR GLOBAL HEALTH AND UNICEF.*
- Feb-19 ADVANCE R TRAINING COURSE
MRCG at LSHTM Statistics Department
This is two-day course on the use of R for statistical analysis organised by the MRCG at
LSHTM, Statistics
Department
- Sep 2018 - Nov 2018 MOLECULAR BIOLOGY, LSHTM MSC MODULE (CODE: 3333)
London School of Hygiene & Tropical Medicine
This is an MSc module that teaches advanced molecular biology concepts and
practices
- Sep 2018 - Dec 2018 FOUNDATIONS OF MEDICAL STATISTICS (CODE: 2038)
London School of Hygiene & Tropical Medicine
LSHTM MSc Module
- Sep 2018 - Oct 2018 INTRODUCTION TO TEACHING FOR RESEARCH DEGREE STUDENTS
London School of Hygiene & Tropical Medicine
This course prepares research degree students for teaching.
- Aug 2018 - Oct 2018 INTRODUCTION TO BIOCONDUCTOR: ANNOTATION AND ANALYSIS OF GENOMES AND
GENOMIC ASSAYS
Harvard University via EdX online
This course introduces the methods and concepts of genomics data analysis using
Bioconductor on R

Jun 2018 - Jul 2018	STATISTICS AND R, EdX online. This is a self-placed online course that introduced the basic of how to use the R statistical software
Mar 2017 - May 2017	FUNDAMENTALS OF EPIDEMIOLOGY (EPM101) AND GENETIC EPIDEMIOLOGY (EPM301) <i>London School of Hygiene & Tropical Medicine</i> These are LSHTM distance learning MSc modules that can be done by research degree students. modules introduces the basic concepts of epidemiology and genetic epidemiology.
Aug-16	GOOD CLINICAL PRACTICE CERTIFICATE <i>MRC Unit The Gambia</i> This a one-day face-to-face course on the importance of GCP on biomedical research. All individual working on research projects at the MRC Unit the Gambia are required to do this course.
Jun-16	STATISTICAL COMPUTING WITH R - A GENTLE INTRODUCTION <i>University College London, online</i> This is an online self-place course on the basics of R

SKILLS

Skill Name	Competency level
Genetic and genomic data analysis	Experienced
PCR incl. qRT-PCR	Experienced
DNA and RNA extraction and quantification	Expert
Research proposal and protocol development	Experienced
Managing laboratory operations and workflow	Experienced
Laboratory quality management systems, ISO15189	Intermediate
R statistical software, STATA and PRISM	Experienced
Quantitative data analysis	Experienced
Manuscript writing and preparation for publication	Experienced
ELISA assays, incl. assay validation	Experienced
Supervision of BSc and MSc student projects	Experienced
Flow Cytometry	Intermediate
PBMC separation and cryopreservation	Experienced
Operating heamtology and biochemistry analyzers	Experienced
Use of liquid nitrogen storage facilities	Experienced
Managing biological sample storage & transport	Experienced
Research ethics involving human involving human subjects	Experienced

SCIENTIFIC TALKS AND PRESENTATIONS

1. Poster presentation: International Genetic Epidemiology Society Annual Meeting, 2019 2. Poster Presentation: American Society of Human Genetics Annual Meeting, 2019
2. Oral presentation: African Society of Human Genetics, Annual Meeting, 2019
3. Oral Presentation: MRCG at LSHTM Academic Journal Club, April 2019
4. Poster presentation: MRC Executive Chair visit, April 2019, MRC Fajara, The Gambia 6. Oral and poster presentation: American Society for Nutrition Meeting, 2018
5. Oral presentation: MRCG at LSHTM, Nutrition Theme Retreat, April 2018
6. Oral Presentation: MRCG at LSHTM Unit-Wide Seminar, October 2017
7. Oral Presentation: MRCG at LSHTM, Nutrition Theme Science Meeting, October 2017
8. Poster presentation: MRC Unit, The Gambia - 70th Anniversary Symposium: 27-29th November 2017
9. Poster presentation: MRC Scientific Advisory Board Meeting March 2016, MRC Keneba, The Gambia.
10. Poster presentation: IUIS-FAIS-ImmunoGambia December 2016, MRCG at LSHTM, The Gambia 13.
11. Oral Presentation: MRCG at LSHTM, Nutrition Theme Retreat, April 2016

AWARDS

1. **Developing Country Travel Fellowship:** American Society of Human Genetics Annual Meeting 2019 (15 – 19 October 2019), Houston, Texas, USA
2. **Global Junior Researcher Travel Award:** International Genetic Epidemiology Society Annual Meeting 2019 (12 – 14 October), Houston, Texas, USA
3. **Young Investigators Award:** African Society of Human Genetics Meeting 2019, Bamako, Mali
4. **Graduate Student Best Poster Award:** American Society for Nutrition Meeting (June 2018), Boston, MA, USA

MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS

1. African Society of Human Genetics, 2016 to Date.
2. American Society of Human Genetics, 2019 to Date.
3. International Genetic Epidemiology, 2019 to Date.
4. American Society for Nutrition, 2017 to Date.

LIST OF PUBLICATIONS

1. **Jallow MW**, Campino S, Prentice AM and Cerami C. Association of common *TMPRSS6* and *TF* gene variants with hepcidin and iron status in healthy rural Gambians, Under review at *Nature Scientific Reports*
2. **Jallow MW**, Campino S, Saidykhan A, Prentice AM and Cerami C (2021). 'Common variants in the transmembrane protease serine 6 (*TMPRSS6*) gene alter hepcidin but not oral iron absorption in healthy Gambian adults: a recall-by-genotype study', *Current Developments in Nutrition*, *nzab014*.
3. **Jallow MW**, Cerami C, Clark TG, Prentice AM and Campino S (2020). 'Differences in the frequency of genetic variants associated with iron imbalance among global populations'. *PLoS ONE* 15(7): e0235141.
4. Prentice S, Jallow AT, Sinjanka E, **Jallow MW**, Sise EA, Kessler N, Wegmuller R, Cerami C and Prentice AM (2019). 'Hepcidin mediates hypoferrremia and reduces the growth potential of bacteria in the immediate post-natal period in human neonates', *Nature Scientific Reports*. 9, 16596.
5. **Jallow MW**, Campino S, Prentice AM and Cerami C. (2019) 'A recall-by-genotype study on polymorphisms in the *TMPRSS6* gene and oral iron absorption: a study protocol [version 1; peer review: 2 approved with reservations]'. *F1000Research*, 8:701.

6. Prentice AM, Bah A, **Jallow MW**, Jallow AT, Sanyang S, Sise EA, Ceesay K, Danso E, Armitage AE, Pasricha S-R, Drakesmith H, Wathuo M, Kessler N, Cerami C and Wegmüller R (2019) 'Respiratory infections drive hepcidin-mediated blockade of iron absorption leading to iron deficiency anemia in African children'. *Sci. Adv.* 5, eaav9020
7. Armitage, AE, Agbla, SC, Betts, M., Sise, EA, **Jallow MW**, Sambou, E, Darboe B, Worwui A, Weinstock GM, Antonio M, Pasricha S-R, Prentice AM, Drakesmith H, Darboe MK and Kwambana-Adams BA. (2018) 'Rapid growth is a dominant predictor of hepcidin suppression and declining ferritin in Gambian infants', *Haematologica*, p. haematol.2018.210146.
8. Corbin LJ, Tan VY, Hughes DA, Wade KH, Paul DS, Tansey KE, Butcher F, Dudbridge F, Howson JM, **Jallow MW**, John C, Kingston N, Lindgren CM, O'Donovan M, O'Rahilly S, Owen MJ, Palmer CNA, Pearson ER, Scott RA, van Heel DA, Whittaker J, Frayling T, Tobin MD, Wain LV, Smith GD, Evans DE, Karpe F, McCarthy MI, Danesh J, Franks PW and Timpson NJ (2018) 'Formalising recall by genotype as an efficient approach to detailed phenotyping and causal inference'. *Nature Communications*, 9(1), p.711.
9. Bah A, Sant-Rayn Pasricha S-R, **Jallow MW**, *et al.* (2017) 'Serum Hepcidin Concentrations Decline during Pregnancy and May Identify Iron Deficiency: Analysis of a Longitudinal Pregnancy Cohort in The Gambia'. *J. Nutr.* jn245373.
10. Prentice S, **Jallow MW** and Prentice AM (2015) 'The effect of BCG on iron metabolism in the early neonatal period: A controlled trial in Gambian neonates'. *Vaccine* **33**, 2963–7.
11. Minchella PA, Armitage AE, Darboe B, **Jallow MW**, *et al.* (2015) 'Elevated Hepcidin Is Part of a Complex Relation That Links Mortality with Iron Homeostasis and Anemia in Men and Women with HIV Infection. *J Nutr*, 145:1194–201.
12. Minchella PA, Armitage AE, Darboe B, **Jallow MW**, *et al.* (2014) 'Elevated hepcidin at HIV diagnosis is associated with incident tuberculosis in a retrospective cohort study'. *Int. J. Tuberc. Lung Dis.* **18**, 1337–1339.

REFEREES: Available on request