

# Hamdi Mbarek, PhD

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Dept Biological Psychology  
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## Academic & Research Experience

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- January 2012 - Present: Postdoctoral Fellow** with **Prof. Dorret Boomsma** at the Department of Biological Psychology of the Faculty of Psychology and Education of the VU University, **Amsterdam, the Netherlands**. Genetic analyses of complex behavioural disorders and genetics of twinning.
- October 2015:** **Teaching Human Molecular Genetics course** to Bachelor students at the VU University,
- January 2010 - Dec 2011: Postdoctoral Fellow** with **Prof. Yusuke Nakamura** at the Human Genome Centre, Institute of Medical Science, the University of Tokyo, **Tokyo, Japan**. Genetic and Molecular studies of Complex Diseases (Cancers and Chronic Hepatitis B).
- 2007 – 2009:** **Teaching position** “Moniteur” (Genetics, Molecular Biology, Cellular Biology, Animal Physiology, Animal Biology) at the University of Evry Val d’Essonne, Evry, France.
- 2006 – 2009:** **PhD Thesis** with **Prof. François Cornélis** at Genopole® Evry, European Laboratory of Research on Rheumatoid Arthritis, **Evry, France**. Identification of genes involved in rheumatoid arthritis. This work was supported by a PhD studentship from the French Ministry of Research and Technology.
- 2004:** **Internship** with Dr. Hamamdi Arbia at Centre of Reproductive Medicine and Prenatal Diagnosis, Tunis, Tunisia. Initiation to In Vitro Fertilization method (IVF).
- 2003:** **Internship** with Prof. Habiba Chaabouni at the Laboratory of congenital and hereditary diseases at Charles Nicolle Hospital, Tunis, Tunisia. Initiation to the karyotyping of human chromosomes (G-banding).
- 2003:** **Internship** with Prof. Assia Ben Hassen at the National Bone Marrow Transfer Centre, Tunis, Tunisia. Initiation to several bacteria typing methods.
- 2002:** **Internship** with Prof. Henda. Triki at Institut Pasteur, Laboratory of Clinical Virology, Tunis, Tunisia. Initiation to several virus typing methods.

## Training

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**2016: Member of the American Society of Human Genetics**

**2013: The Avera Institute for Human Genetics, Sioux Falls, SD, USA**

Exchange program: sharing experience and performing laboratory work

**2013: Institute for Behavioural Genetics, University of Colorado at Boulder, Colorado USA**

The 2013 International Workshop on Statistical Genetic Methods For Human Complex Traits

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**2012: The 3<sup>rd</sup> OpenGENE Young Investigator Workshop in the Baltic Region, Tartu, Estonia**  
Biobanking, New Technologies, Complex Genetic Traits and Personalized Medicine

**2010: Institute of Medical Science, the University of Tokyo, Japan**  
Medical statistics course

**2008: EMBO (The European Molecular Biology Organization), Singapore**  
Practical Course on Computational Biology: From genomes to cells and systems

**2007: EMBO (The European Molecular Biology Organization), Helsinki, Finland**  
Practical Course on Genome-wide SNP Association Studies at Biomedicum

**2007: Harvard School of Public Health, Boston USA**  
Short Course on Family Based Association Testing (FBAT-PBAT)

## Student Supervision

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**2014 – 2015:** Supervision of Master Degree student. Vu University Amsterdam. Netherlands

**2009:** Supervision of Master Degree student. Evry Val d'Essonne University. Evry. France

**2006 - 2008:** Supervision of several technicians and undergraduate students during their internship in the European Laboratory of Research on Rheumatoid Arthritis, Evry. France

## Scientific Communications

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*Published articles in 2016 (for a full list see:*

<http://hamdimbarek.com/#publications>

**1) Mbarek H**, Steinberg S, Nyholt DR, Gordon SD, Miller MB, McRae AF, Hottenga JJ, Day FR, Willemsen G, de Geus EJ, Davies GE, Martin HC, Penninx BW, Jansen R, McAloney K, Vink JM, Kaprio J, Plomin R, Spector TD, Magnusson PK, Reversade B, Harris RA, Aagaard K, Kristjansson RP, Olafsson I, Eyjolfsson GI, Sigurdardottir O, Iacono WG, Lambalk CB, Montgomery GW, McGue M, Ong KK, Perry JR, Martin NG, Stefánsson H, Stefánsson K, Boomsma DI. Identification of common genetic variants influencing spontaneous dizygotic twinning and female fertility. *Am J Hum Genet.* 2016 May 5;98(5):898-908. doi: 10.1016/j.ajhg.2016.03.008.

**2) Najaf Amin N**, Allebrandt KV, van der Spek A, Müller-Myhsok B, Hek K, Teder-Laving M, Hayward C, Esko T, van Mill JG, **Mbarek H**, [...], Watson NF, Melville SA, Franke L, Roenneberg T, van Duijn CM. Genetic variants in RBFOX3 are associated with sleep latency. *Eur J Hum Genet.* 2016 May 4. doi: 10.1038/ejhg.2016.31.

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**3)** Minica CC, **Mbarek H**, Pool R, Dolan CV, Boomsma DI, Vink JM. Pathways to smoking behaviors: biological insights from the Tobacco and Genetics Consortium meta-analysis. *Molecular Psychiatry*. 2016 Mar 29. doi: 10.1038/mp.2016.20.

**4)** Stringer S, Minică CC, Verweij KJ, **Mbarek H**, Bernard M, Derringer J, van Eijk KR, Isen JD, Loukola A, [...], Snieder H, Spector T, Munafò MR, Metspalu A, Gelernter J, Boomsma DI, Iacono WG, Martin NG, Gillespie NA, Derks EM, Vink JM. Genome wide association study of lifetime cannabis use based on a large meta-analytic sample of 32,330 subjects from the International Cannabis Consortium. *Translational Psychiatry*. 2016 Mar 29;6:e769. doi: 10.1038/tp.2016.36

**5)** van Leeuwen EM, Sabo A, Bis JC, Huffman JE, Manichaikul A, Smith AV, Feitosa MF, Demissie S, Joshi PK, Duan Q, Marten J, van Klinken JB, Surakka I, Nolte IM, Zhang W, **Mbarek H**, [...], Borecki IB, Boerwinkle E, Rotter JI, Cupples LA, van Duijn CM. Meta-analysis of 49,549 individuals imputed with the 1000 Genomes Project reveals an exonic damaging variant in ANGPTL4 determining fasting TG levels. *J Med Genet*. 2016 Apr 1. pii: jmedgenet-2015-103439. doi: 10.1136/jmedgenet-2015-103439

**6)** Nivard MG, Verweij KJ, Minică CC, Treur JL; International Cannabis Consortium, Vink JM, Boomsma DI. Connecting the dots, genome-wide association studies in substance use. *Mol Psychiatry*. 2016 Jun;21(6):733-5. doi: 10.1038/mp.2016.14

## Oral presentations

**2011:** Japan Society of Human Genetics meeting, Tokyo, Japan.

## Poster presentations

**2011:** Human Genome Meeting 2011, Dubai, UAE.

**2010:** Japan Society of Human Genetics meeting, Tokyo, Japan.

**2009:** Annual European Congress of Rheumatology, Copenhagen, Denmark.

**2009:** European Workshop for Rheumatology Research, Warsaw, Poland.

**2008:** Annual European Congress of Rheumatology, Paris, France.

**2007:** Tunisian Association of Biological Sciences, Hammamet, Tunisia.

## Education

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**2006 – 2009:** PhD (Cellular and Molecular Biology), Evry Val d'Essonne University, Evry, France.

**2005 – 2006:** Postgraduate Degree (Genomics), Paris Sud XI University, Orsay, France.

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- 2004 – 2005:** Master's Degree (Genomics), Paris Sud XI University, Orsay, France.
- 2003 – 2004:** Master's Degree (Biotechnology), Tunis El Manar University, Tunis, Tunisia.
- 2001 – 2002:** Bachelor's Degree (Biotechnology), Tunis El Manar University, Tunis, Tunisia.
- 1999 – 2000:** High school's degree (Sciences), High School Chebbi, Gabès, Tunisia.

## Technical skills

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DNA extraction, conventional PCR, real time PCR, RFLP, Protein extraction, Western Blot, ELISA.

Single nucleotide polymorphism (SNP) technology, High Throughput genotyping, Bioinformatics analysis (sequence alignments, R packages, and sequence analysis), Statistical analysis (GRR, TDT, FBAT, Haploview, PLINK, METAL...), Imputation analysis (1000 genomes and HapMap database), SNPs Database.

## Language proficiency

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- English
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- Arabic

## References

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Available upon request.