CURRICULUM VITAE
ANDRES RUIZ-LINARES

1. Personal details:
D.O.B. August 20th 1961 (Bogotá, Colombia)
Citizenships: British and Colombian
Civil status: Married (four children).
Languages: English, Spanish and French.

2. Education/Qualifications:
- M.D., Universidad del Rosario, Bogotá, Colombia. 1984.
- M. Sc., Université de Paris 7, Paris, France. 1987.
- Ph. D., University of Cambridge, Cambridge, England. 1992.

3. Professional History
- 1986-1988 Graduate Student. Laboratoire de Virologie Moleculaire, Institut Pasteur (mentor: Dr. Marc Girard), Paris, France.
- 1988-1991 Graduate Student. Department of Genetics, University of Cambridge (mentor: Dr. Gabriel Dover) Cambridge, UK.
- 1992-1994 Postdoctoral Fellow. Department of Genetics, Stanford University Medical School (mentor: Dr. Luigi Luca Cavalli-Sforza), Stanford, California, U.S.A.
- 1994-1998 Assistant Professor, Department of Biochemistry, Universidad de Antioquia Medical School, Medellín, Colombia.
- 1998-2000 Lecturer. Department of Medical and Community Genetics. Imperial College School of Medicine, London, UK.
- 2000-2004: Lecturer. Department of Biology (Galton Laboratory), University College London, UK.
- 2004-2006: Senior Lecturer. Department of Biology (Galton Laboratory), University College London, UK.
- 2006-2015 : Professor of Human Genetics. Department of Genetics, Evolution and Environment (formerly Department of Biology) , University College London, UK.
- 2015-current: Honorary Professor of Human Genetics. Department of Genetics, Evolution and Environment, University College London, UK.
- 2018-current: Professor of Genomic Anthropology, Aix-Marseille University, UFR de Médecine, ADES (Anthropologie bio-culturelle, droit, éthique et santé), Marseille, France.

5. Grants received since moving to the UK in 1998. AR-L sole principal investigator unless stated otherwise.

1. 1999-2000 "Genetic Demography of Antioquia". The Royal Society. £10,000
2. 1999-2001 "A search for genetic loci involved in predisposition to Bipolar mood disorder in the population of Antioquia, Colombia: collection of the study sample". The Wellcome Trust. £132,537 with a supplement of £18,188 awarded in January 2000).
3. 2000-2001 "The evolution of Native American populations as seen from Y chromosome markers". The Wellcome Trust. £57,563.
4. 2002-2003 "Genetic analysis of patients with distal renal tubular acidosis (dRTA)" St. Peter's Trust for Kidney, Bladder and Prostate Research. £46,863

5. 2001-2004 "A search for genetic loci involved in predisposition to Bipolar mood disorder in the population of Antioquia, Colombia: genetic analyses". The Wellcome Trust. £224,948.
6. 2002-2004 "Linkage Disequilibrium Mapping of Bipolar Disorder in Antioquia, Colombia" The National Alliance for Research on Schizophrenia and Depression (USA) $ 60,000
7. 2005 Royal Society International Incoming Short Visit for Prof. M.C. Bortolini (Brazil).
8. 2002-2005 "Sequence Variation and Haplotype Structure at the DRD2 gene and Parkinson's Disease" The Parkinson's Disease Society £34,044
9. 2004-2006 "A population genetic study of autism in a founder population". Cure Autism Now Foundation (USA) $120,000.
10. 2005-2006 "A genetic study of Tourette Syndrome in a founder population" Tourette Syndrome Association (USA) $74,500.
11. 2005-2008 Natural Environment Research Council (Infrastructure grant). Centre for Comparative Genomics. (Co-PI) £337,737.
12. 2005-2006 ""Structure of genetic diversity in Native Americans and Hispanics" Marshfield Foundation (USA). This grant funds the collection of ~ 2,000,000 genotypes at the Marshfield Foundation.
13. 2005-2007 "Finding genetic risk factors for Parkinson's disease in genetically isolated populations" (Co-investigator; Prof. Peter Heutink, U. Amsterdam PI) Michael J. Fox Foundation for Parkinson's Research. (USA) $200,000
14. 2005-2010 "Mapping Tourette Syndrome in a population isolate" (PI) (2005-2009) National Institute of Neurological Disorders and Stroke NINDS/NIH (USA). $1,076,200.
15. 2006-2012"Bipolar endophenotypes in population isolates" Funding body: NINDS/NIH (USA). Co-investigator (PI: Nelson Freimer, UCLA). (UCL contribution $60,000).
16. 2010-2012 "International Network for the Study of the Evolution of Latin American Populations" £122,000 Funding body: Leverhulme Trust (UK).
17. 2012-2015 The genetics of human physical appearance. (2012-2015). Funding Body: BBSRC £878,045 (BB/I021213/1)
18. 2012-2015 "Detecting signatures of natural selection in the human genome with geographically explicit models" (2012-2015) Co-PI with Francois Balloux. Funding body: BBSRC (UCL contribution £12,000).
19. 2013-2017 "Developing an European American Next Generation Sequence Network" (co-PI) FP7-PEOPLE-2013-2017 IRSES EUROPEAN COMMISSION FP7 € 109,200
20. 2016-2019 "The genetics of baseline and sensitised pain sensibility in humans". Co-PI with David Bennett (Oxford University). The British Council Newton Fund. £130,480
21. 2018-2021. "Human Diversity in South Eastern France". Fondation A*Midex Excellence Chair 2017.

6. Academic supervision *(in the UK):*

Graduated Ph.D. students (Year of graduation in parenthesis)

1. Luis Carvajal-Carmona (2003): "Genetic demography of Antioquia: A geographic isolate in North-West Colombia".
2. Nicolas Pineda (2005):" Genetic analysis of Mendelian forms of complex disorders in a South American population isolate".
3. Daniel White (2005):" Sequence diversity of serotonin receptors and the genetic basis of mood disorders".
4. Sijia Wang (2007): "Population structure and natural selection in Native American populations".
5. Barbara Kremeyer (2008): "Genetics of brain disorders in a South American population isolate".
6. Ning Ning Yang (2010): "Population history and genetic diversity in the Americas"

7. Ripudaman Bains (2012): "Molecular diversity and population structure at the CYP3A5 gene in Africa"

Current Ph D. students at UCL (expected year of graduation in parenthesis):

1. Juan C Chacón-Duque: "Genetic diversity in Latin America: Regional population structure, demographic history and association mapping." (2017)
2. Javier Mendoza "Genetic determinants of pigmentation and selection in Latin Americans" (2018)
3. Victor Acuña-Alonso "Mapping Complex Traits in admixed populations: metabolic and morphological traits in Latin American populations" (2018)
4. Macarena Fuentes "Identification of genes responsible for the variation in facial and tooth morphology in Latin Americans" (2018)

MSc project students at UCL: total of 15

Undergraduate project students at UCL: total of 29

7. Summary of teaching career:

I have been involved in teaching throughout my entire academic career, always combining undergraduate and graduate teaching. During the four years I spent at Universidad de Antioquia (1994-1998) I was responsible for delivering a set of lectures on human molecular genetics to second year medical students, within their biochemistry course. I also delivered a set of advanced lectures on the same topic to graduate students of the Basic Biomedical Sciences program. Similarly, when at Imperial College (1998-2000) I delivered a set of lectures (and practicals) on human genetics to undergraduate medical students and advanced human genetics to students of Imperial College's MSc in Human Molecular Genetics (https://www.imperial.ac.uk/medicine/study/postgraduate/masters-programmes/msc-human-molecular-genetics/). When I moved to UCL, in 2000, I developed my teaching activity considerably. After a year of contributing human genetics lectures in various courses, from September 2001 I took over the organization of an entire course focused on the genetic analysis of Mendelian diseases ("Disease, to gene, to therapy"). This course comprised ~20 hours of lectures and 8 hours of practicals. I took care of the organization of the course, delivered 6-8 hours of lectures, led the practicals and prepared all assessments. This course was a requirement for last year biology students and third year medical students doing an intercalated BSc. From 2003 onwards I took over the organization of a second human genetics course focused on the analysis of complex disorders ("Advanced human genetics"). This second course had a similar structure as the one on Mendelian disorders and I had the same responsibilities in both courses. The total number of undergraduate and graduate students taking each of my courses reached about 70 students. In due

course, these two courses served as the core for the establishment of a new MSc at UCL from 2008 ("Genetics of Human Disease", https://www.ucl.ac.uk/biosciences/study/masters/ghd). I was involved in setting up this MSc from the outset and was overall course co-organizer until 2013 (with Profs. Steve Humphries and Gudrun Moore).

8. Prizes, awards and other markers of esteem

- CESTA fellow of the French Ministry of Research (1986-1988).
- Overseas Research Student (ORS) Award from the Vice-Chancellors and Principals of the Universities of the United Kingdom (1988-1991).
- Genetics Society of America travel award 1993.
- Ciba (now Novartis) Foundation Fellow 1995.
- Young Investigator Award. The National Alliance for Research on Schizophrenia and Depression (USA) 2002.
- 2002-2005. Editorial board member. Annals of Human Genetics.
- 2005-2007. Senior Editor. Annals of Human Genetics.
- 2008-2015. Editor in Chief. Annals of Human Genetics.
- 2014-2016. Nominations Committee member. American Society of Human Genetics.

9. Summary of research career

I started my career working on the molecular biology of yellow fever virus. As a result, I became interested in the analysis of molecular genetic variation and a substantial part of my PhD dealt with molecular evolution (in *Drosophila*). During my post-doc (1992-1994) I initiated a major theme of research in which I have worked ever since: human population genetics. My early work focused on the use of a then (1990's) novel type of genetic marker: microsatellites. I analysed the first world-wide microsatellite datasets and participated in the development of novel analytical methods for this type of marker (including measures of genetic diversity and distance). Other than providing strong support for the recent African origin of modern humans, we provided one the first examples of individual-based population genetic analyses, an approach now current with high-density SNP data. After my post-doc, a strong focus of my research has been the analysis of the evolution of Native Americans. My group carried out some of the first studies comparing patterns of Native American population structure using autosomal, mtDNA and Y-chromosome data. We were able to demonstrate that the controversial proposal of a higher migration rate of women throughout human evolution did not apply to the Americas. We went on to perform what are to date the largest surveys of genetic diversity in Native populations across the Western Hemisphere, first using genome-wide microsatellite scans and more recently high-density SNP chip genotyping and whole-genome sequencing. Broadly, these studies have

provided a range of detailed insights into the initial settlement of the Americas and the process of population dispersal on the continent, as well as evidenced complex patterns of gene flow with East Asia.

My work on the genetics of populations of the Americas has also included urban groups of mixed Native American, European and African ancestry. We carried out one of the first studies contrasting mtDNA and Y-chromosome data to examine the early demographic history of Latin American populations. These data allowed us to demonstrate a strong sex-bias in historical admixture in that population founders in certain regions where almost exclusively European men and Native women. This observation has since been extended (by us and others) to populations across the Americas, also using high-density autosomal and X-chromosome data. Our early mtDNA and Y-chromosome analyses also provided evidence that the Native ancestry of urban Latin Americans stemmed mainly from local Native populations and that the male ancestry included a possible Sephardic component. We subsequently extended this kind of sub-continental ancestry analyses through genome-wide diversity surveys, first using microsatellites and more recently high-density SNP chip data and whole-genome/exome sequences (data unpublished). In addition to refining our historical analyses these data are allowing us to make a range of other population genetic inferences, including dating admixture events and evaluating signals of selection along the genome.

In parallel to my evolutionary research I have been interested in the mapping of genes underlying human phenotypes, including disease. In developing this work I have sought to exploit aspects of the demographic history of Latin America that empower genetic mapping, in particular genetic isolation and admixture. For instance, the population of Antioquia (Colombia) presents distinct advantages for such studies, including historical isolation and a recent demographic expansion driven by a high fertility rate. Large pedigrees are still a relatively common occurrence in this population, as illustrated by our early work reporting the largest pedigrees in the world with Early Onset Alzheimer's disease and the largest cluster of families bearing the same mutation in the *Presenilin-1* gene. We went on to perform similar combined family and population studies for other neurological disorders, in the process documenting a number of founder effects in the population of Antioquia, attesting to its historical isolation. A particularly interesting output of this work was our identification of *TRPA1* as a novel gene for pain perception, a finding made through the study of a single Antioquian family with a previously unknown Mendelian pain syndrome.

The admixture history of Latin America in a sense represents a "natural experiment" facilitating association mapping of traits differentiated between Africans, Europeans and Native Americans and, for a number of years, I have sought to exploit this opportunity. Part of my work in this area focused on

developing genetic mapping tools for these populations, including tools for "admixture mapping" and contributing to the development of the 1000 Genomes Project (e.g. the inclusion in that project of admixed populations from Latin America (CLM, PEL). My initial work on association mapping focused mostly on neuro-psychiatric and metabolic disorders, as a complement to my work on Mendelian disorders. More recently, synthesising my long-standing interest in human evolution and genetic mapping, in 2010 I embarked in a large program of research focused on the genetic analysis of physical appearance traits in Latin American populations, which is ongoing. We are currently publishing the findings stemming from this research, including a large crop of novel trait genes/loci of high biomedical, forensic and social interest. According to Altmetric, a paper on the genetics of variation in hair appearance we published last March (refereed article #3 below) was among the top 100 papers of 2016 in terms of media coverage (https://www.altmetric.com/top100/2016).

10. Publications

A. Book chapters

1. Dover,G.A., Ruiz Linares,A., Bowen, T. and Hancock,J.M. Detection and quantification of concerted evolution and molecular drive. (1993) In Methods in Enzymology vol. 224, Molecular Evolution: Producing the Biochemical Data (Eds. E.A. Zimmer, T.J. White, R.L. Cann and A.C. Wilson) Academic Press, San Diego.
2. Ruiz Linares, A., Minch, E., Meyer, D., and Cavalli-Sforza, L.L. (1995) Analysis of classical and DNA markers for reconstructing human population history. in The origin and past of Homo sapiens sapiens as viewed from DNA pp. 123-148 (S. Brenner and K. Hanihara eds., World Scientific Publishing Co., Singapore).
3. Langaney A., Cohen D., Ruiz Linares A. (1997) Genetic Polymorphism. In Encyclopedia of Human Biology 2nd Edition. pp 269-275 (R. Dulbecco Ed.) Academic Press, San Diego.
4. Ruiz Linares A. (1999) Microsatellites and the reconstruction of the history of human populations. In Microsatellites: Evolution and Applications. pp 183-197 (D. Goldstein and C. Schlotterer Eds.) Oxford University Press, Oxford.
5. Ruiz Linares A. (2001) Y-chromosomes and Evolution. In International Encyclopedia of the Social and Behavioral Sciences pp 16653-16657 (N. J. Smelser and P. B. Baltes Eds.) Pergamon Press, Oxford.
6. Ruiz Linares A. (2014) How genes have illuminated the history of early Americans and Latino Americans. In Human Diversity and Race from a Contemporary Genetics Perspective. (Aravinda Chakravarti, Editor) Cold Spring Harb Perspect Biol. 7(6).

B. Refereed articles (*h*-index 42 as of June 2016)

1. Juan C. Chacón-Duque, Kaustubh Adhikari, Macarena Fuentes-Guajardo, Javier Mendoza-Revilla, Victor Acuña-Alonzo, Rodrigo Barquera Lozano, Mirsha Quinto-Sánchez, Jorge Gómez-Valdés, Paola Everardo Martínez, Hugo Villamil-Ramírez, Tábita Hünemeier, Virginia Ramallo, Caio C. Silva de Cerqueira, Malena Hurtado, Valeria Villegas, Vanessa Granja, Mercedes Villena, René Vásquez, Elena Llop, José R. Sandoval, Alberto A. Salazar-Granara, Maria-Laura Parolin, Karla

Sandoval, Rosenda I. Peñaloza-Espinosa, Hector Rangel-Villalobos, Cheryl Winkler, William Klitz, Claudio Bravi, Julio Molina, Daniel Corach, Ramiro Barrantes, Verónica Gomes, Carlos Resende, Leonor Gusmão, Antonio Amorim, Yali Xue, Jean-Michel Dugoujon, Pedro Moral, Rolando Gonzalez-José, Lavinia Schuler-Faccini, Francisco M. Salzano, Maria-Cátira Bortolini, Samuel Canizales-Quinteros, Giovanni Poletti, Carla Gallo, Gabriel Bedoya, Francisco Rothhammer, David Balding, Garrett Hellenthal and **Andrés Ruiz-Linares**. Population history, sub-continental ancestry and physical appearance in Latin-Americans *Nature Comm* (submitted)

2. Kaustubh Adhikari, Javier Mendoza-Revilla, Anood Sohail, Macarena Fuentes-Guajardo, Jodie Lampert, Juan Camilo Chacón-Duque, Malena Hurtado, Valeria Villegas, Vanessa Granja, Victor Acuña-Alonzo, Claudia Jaramillo, William Arias, Rodrigo Barquera Lozano, Gastón Macín Pérez , Jorge Gómez-Valdés, Hugo Villamil-Ramírez, Caio C. Silva de Cerqueira, Tábita Hunemeier, Virginia Ramallo, Lavinia Schuler-Faccini, Francisco M. Salzano, Rolando Gonzalez-José, Maria-Cátira Bortolini, Samuel Canizales-Quinteros, Carla Gallo, Giovanni Poletti, Gabriel Bedoya, Francisco Rothhammer, Desmond J. Tobin, Matteo Fumagalli, David Balding and **Andrés Ruiz-Linares**. A genome-wide association scan in Latin Americans underlines the convergent evolution of lighter skin pigmentation in Eurasia. *Nat Comm* (submitted).
3. Quinto-Sánchez M, Muñoz-Muñoz F, Gomez-Valdes J, Cintas C, Navarro P, Cerqueira CCS, Paschetta C, de Azevedo S, Ramallo V, Acuña-Alonzo V, Adhikari K, Fuentes-Guajardo M, Hünemeier T, Everardo P, de Avila F, Jaramillo C, Arias W, Gallo C, Poletti G, Bedoya G, Bortolini MC, Canizales-Quinteros S, Rothhammer F, Rosique J, **Ruiz-Linares A**, Gonzalez-Jose R. (2018) Developmental pathways inferred from modularity, morphological integration and fluctuating asymmetry patterns in the human face. Sci Rep. 8:963. doi: 10.1038/s41598-018-19324-y.
4. Fan Liu, Yan Chen, Gu Zhu, Pirro G. Hysi, Sijie Wu, Kaustubh Adhikari, Krystal Breslin, Ewelina Pośpiech, Merel A. Hamer, Fuduan Peng, Charanya Muralidharan, Victor Acuna-Alonzo, Samuel Canizales-Quinteros, Gabriel Bedoya, Carla Gallo, Giovanni Poletti, Francisco Rothhammer, Maria Catira Bortolini, Rolando Gonzalez-Jose, Changqing Zeng, Shuhua Xu, Li Jin, André G. Uitterlinden, M. Arfan Ikram, Cornelia M. van Duijn, Tamar Nijsten, Susan Walsh, Wojciech Branicki, Sijia Wang, **Andrés Ruiz-Linares**, Timothy D. Spector, Nicholas G. Martin, Sarah E. Medland and Manfred Kayser (2018) Meta-analysis of genome-wide association studies identifies 8 novel loci involved in shape variation of human head hair. *Human Molecular Genetics* Hum Mol Genet. 27:559-575.
5. John R. Shaffer, Jinxi Li, Myoung Keun Lee, Jasmien Roosenboom, Ekaterina Orlova, Kaustubh Adhikari, 23andMe Research Team, Carla Gallo, Giovanni Poletti, Lavinia Schuler-Faccini, Maria-Cátira Bortolini, Samuel Canizales-Quinteros, Francisco Rothhammer, Gabriel Bedoya, Rolando González-José, Paige E. Pfeffer, Christopher A. Wollenschlaeger, Jacqueline T. Hecht, George L. Wehby, Lina M. Moreno, Anan Ding, Li Jin, Yajun Yang, Jenna C. Carlson, Elizabeth J. Leslie, Eleanor Feingold, Mary L. Marazita, David Hinds, Timothy C. Cox, Sijia Wang, **Andrés Ruiz-Linares**, Seth M. Weinberg (2017) Multiethnic GWAS reveals polygenic architecture of earlobe attachment. *American journal of human genetics* 101:913-924.
6. Adhikari K, Chacon-Duque JC, Mendoza-Revilla J, Fuentes-Guajardo M & **Ruiz-Linares A** (2017) The Genetic Diversity of the Americas. *Annual Review of Genomics and Human Genetics* 18:277-296.
7. Fortes-Lima C, Gessain A, **Ruiz-Linares A**, Bortolini MC, Migot-Nabias F, Bellis G, Moreno-Mayar JV, Restrepo BN, Rojas W, Avendano-Tamayo E, Bedoya G, Orlando L, Salas A, Helgason A, Gilbert MTP, Sikora M, Schroeder H & Dugoujon JM (2017) Genome-wide Ancestry and Demographic History of African-Descendant Maroon Communities from French Guiana and Suriname. *American Journal of Human Genetics* 101(5):725-736.

8. Lorenzo Bermejo J, Boekstegers F, Gonzalez Silos R, Marcelain K, Baez Benavides P, Barahona Ponce C, Muller B, Ferreccio C, Koshiol J, Fischer C, Peil B, Sinsheimer J, Fuentes Guajardo M, Barajas O, Gonzalez-Jose R, Bedoya G, Catira Bortolini M, Canizales-Quinteros S, Gallo C, **Ruiz Linares A** & Rothhammer F (2017) Subtypes of Native American ancestry and leading causes of death: Mapuche ancestry-specific associations with gallbladder cancer risk in Chile. *PLoS genetics* 13(5):e1006756.
9. Quinto-Sanchez M, Cintas C, Silva de Cerqueira CC, Ramallo V, Acuna-Alonzo V, Adhikari K, Castillo L, Gomez-Valdes J, Everardo P, De Avila F, Hunemeier T, Jaramillo C, Arias W, Fuentes M, Gallo C, Poletti G, Schuler-Faccini L, Bortolini MC, Canizales-Quinteros S, Rothhammer F, Bedoya G, Rosique J, **Ruiz-Linares A** & Gonzalez-Jose R (2017) Socioeconomic Status Is Not Related with Facial Fluctuating Asymmetry: Evidence from Latin-American Populations. *PloS one* 12(1):e0169287.
10. Adhikari K, Mendoza-Revilla J, Chacon-Duque JC, Fuentes-Guajardo M & **Ruiz-Linares** A (2016) Admixture in Latin America. Current opinion in genetics & development 41:106-114.
11. Adhikari K, Fuentes-Guajardo M, Quinto-Sanchez M, Mendoza-Revilla J, Camilo Chacon-Duque J, Acuna-Alonzo V, Jaramillo C, Arias W, Lozano RB, Perez GM, Gomez-Valdes J, Villamil-Ramirez H, Hunemeier T, Ramallo V, Silva de Cerqueira CC, Hurtado M, Villegas V, Granja V, Gallo C, Poletti G, Schuler-Faccini L, Salzano FM, Bortolini MC, Canizales-Quinteros S, Cheeseman M, Rosique J, Bedoya G, Rothhammer F, Headon D, Gonzalez-Jose R, Balding D & **Ruiz-Linares** A (2016) A genome-wide association scan implicates DCHS2, RUNX2, GLI3, PAX1 and EDAR in human facial variation. Nat Commun 7:11616.
12. Adhikari K, Fontanil T, Cal S, Mendoza-Revilla J, Fuentes-Guajardo M, Chacon-Duque JC, Al-Saadi F, Johansson JA, Quinto-Sanchez M, Acuna-Alonzo V, Jaramillo C, Arias W, Barquera Lozano R, Macin Perez G, Gomez-Valdes J, Villamil-Ramirez H, Hunemeier T, Ramallo V, Silva de Cerqueira CC, Hurtado M, Villegas V, Granja V, Gallo C, Poletti G, Schuler-Faccini L, Salzano FM, Bortolini MC, Canizales-Quinteros S, Rothhammer F, Bedoya G, Gonzalez-Jose R, Headon D, Lopez-Otin C, Tobin DJ, Balding D & **Ruiz-Linares** A (2016) A genome-wide association scan in admixed Latin Americans identifies loci influencing facial and scalp hair features. Nat Commun 7:10815.
13. Pagani L, St Clair PA, Teshiba TM, Service SK, Fears SC, Araya C, Araya X, Bejarano J, Ramirez M, Castrillon G, Gomez-Makhinson J, Lopez MC, Montoya G, Montoya CP, Aldana I, Navarro L, Freimer DG, Safaie B, Keung LW, Greenspan K, Chou K, Escobar JI, Ospina-Duque J, Kremeyer B, **Ruiz-Linares** A, Cantor RM, Lopez-Jaramillo C, Macaya G, Molina J, Reus VI, Sabatti C, Bearden CE, Takahashi JS & Freimer NB (2016) Genetic contributions to circadian activity rhythm and sleep pattern phenotypes in pedigrees segregating for severe bipolar disorder. Proceedings of the National Academy of Sciences of the United States of America 113(6):E754-761.
14. Morantes S, Evans CJ, Valencia AV, Davidson AE, Hardcastle AJ, **Ruiz Linares** A, Tuft SJ & Cuevas M (2016) Spectrum of Clinical Signs and Genetic Characterization of Gelatinous Drop-Like Corneal Dystrophy in a Colombian Family. Cornea 35(8):1141-1146.
15. Mallick S, Li H, Lipson M, Mathieson I, Gymrek M, Racimo F, Zhao M, Chennagiri N, Nordenfelt S, Tandon A, Skoglund P, Lazaridis I, Sankararaman S, Fu Q, Rohland N, Renaud G, Erlich Y, Willems T, Gallo C, Spence JP, Song YS, Poletti G, Balloux F, van Driem G, de Knijff P, Romero IG, Jha AR, Behar DM, Bravi CM, Capelli C, Hervig T, Moreno-Estrada A, Posukh OL, Balanovska E, Balanovsky O, Karachanak-Yankova S, Sahakyan H, Toncheva D, Yepiskoposyan L, Tyler-Smith C, Xue Y, Abdullah MS, **Ruiz-Linares** A, Beall CM, Di Rienzo A, Jeong C, Starikovskaya EB, Metspalu E, Parik J, Villems R, Henn BM, Hodoglugil U, Mahley R, Sajantila A, Stamatoyannopoulos G, Wee JT, Khusainova R, Khusnutdinova E, Litvinov S, Ayodo G, Comas D, Hammer MF, Kivisild T, Klitz W, Winkler CA, Labuda D, Bamshad M, Jorde LB, Tishkoff SA, Watkins WS, Metspalu M, Dryomov S, Sukernik R, Singh L, Thangaraj K, Paabo S,

Kelso J, Patterson N & Reich D (2016) The Simons Genome Diversity Project: 300 genomes from 142 diverse populations. Nature 538(7624):201-206.

16. Deng L, **Ruiz-Linares** A, Xu S & Wang S (2016) Ancestry variation and footprints of natural selection along the genome in Latin American populations. Scientific reports 6:21766.
17. Amorim CE, Hofer T, Ray N, Foll M, **Ruiz-Linares** A & Excoffier L (2016) Long-distance dispersal suppresses introgression of local alleles during range expansions. Heredity.
18. Yu D, Mathews CA, Scharf JM, Neale BM, Davis LK, Gamazon ER, Derks EM, Evans P, Edlund CK, Crane J, Fagerness JA, Osiecki L, Gallagher P, Gerber G, Haddad S, Illmann C, McGrath LM, Mayerfeld C, Arepalli S, Barlassina C, Barr CL, Bellodi L, Benarroch F, Berrio GB, Bienvenu OJ, Black DW, Bloch MH, Brentani H, Bruun RD, Budman CL, Camarena B, Campbell DD, Cappi C, Silgado JC, Cavallini MC, Chavira DA, Chouinard S, Cook EH, Cookson MR, Coric V, Cullen B, Cusi D, Delorme R, Denys D, Dion Y, Eapen V, Egberts K, Falkai P, Fernandez T, Fournier E, Garrido H, Geller D, Gilbert DL, Girard SL, Grabe HJ, Grados MA, Greenberg BD, Gross-Tsur V, Grunblatt E, Hardy J, Heiman GA, Hemmings SM, Herrera LD, Hezel DM, Hoekstra PJ, Jankovic J, Kennedy JL, King RA, Konkashbaev AI, Kremeyer B, Kurlan R, Lanzagorta N, Leboyer M, Leckman JF, Lennertz L, Liu C, Lochner C, Lowe TL, Lupoli S, Macciardi F, Maier W, Manunta P, Marconi M, McCracken JT, Mesa Restrepo SC, Moessner R, Moorjani P, Morgan J, Muller H, Murphy DL, Naarden AL, Nurmi E, Ochoa WC, Ophoff RA, Pakstis AJ, Pato MT, Pato CN, Piacentini J, Pittenger C, Pollak Y, Rauch SL, Renner T, Reus VI, Richter MA, Riddle MA, Robertson MM, Romero R, Rosario MC, Rosenberg D, Ruhrmann S, Sabatti C, Salvi E, Sampaio AS, Samuels J, Sandor P, Service SK, Sheppard B, Singer HS, Smit JH, Stein DJ, Strengman E, Tischfield JA, Turiel M, Valencia Duarte AV, Vallada H, Veenstra-VanderWeele J, Walitza S, Wang Y, Weale M, Weiss R, Wendland JR, Westenberg HG, Shugart YY, Hounie AG, Miguel EC, Nicolini H, Wagner M, **Ruiz-Linares** A, Cath DC, McMahon W, Posthuma D, Oostra BA, Nestadt G, Rouleau GA, Purcell S, Jenike MA, Heutink P, Hanna GL, Conti DV, Arnold PD, Freimer NB, Stewart SE, Knowles JA, Cox NJ & Pauls DL (2015) Cross-disorder genome-wide analyses suggest a complex genetic relationship between Tourette's syndrome and OCD. The American journal of psychiatry 172(1):82-93.
19. Sudmant PH, Mallick S, Nelson BJ, Hormozdiari F, Krumm N, Huddleston J, Coe BP, Baker C, Nordenfelt S, Bamshad M, Jorde LB, Posukh OL, Sahakyan H, Watkins WS, Yepiskoposyan L, Abdullah MS, Bravi CM, Capelli C, Hervig T, Wee JT, Tyler-Smith C, van Driem G, Romero IG, Jha AR, Karachanak-Yankova S, Toncheva D, Comas D, Henn B, Kivisild T, **Ruiz-Linares** A, Sajantila A, Metspalu E, Parik J, Villems R, Starikovskaya EB, Ayodo G, Beall CM, Di Rienzo A, Hammer MF, Khusainova R, Khusnutdinova E, Klitz W, Winkler C, Labuda D, Metspalu M, Tishkoff SA, Dryomov S, Sukernik R, Patterson N, Reich D & Eichler EE (2015) Global diversity, population stratification, and selection of human copy-number variation. Science 349(6253):aab3761.
20. Quinto-Sanchez M, Adhikari K, Acuna-Alonzo V, Cintas C, Silva de Cerqueira CC, Ramallo V, Castillo L, Farrera A, Jaramillo C, Arias W, Fuentes M, Everardo P, de Avila F, Gomez-Valdes J, Hunemeier T, Gibbon S, Gallo C, Poletti G, Rosique J, Bortolini MC, Canizales-Quinteros S, Rothhammer F, Bedoya G, **Ruiz-Linares** A & Gonzalez-Jose R (2015) Facial asymmetry and genetic ancestry in Latin American admixed populations. Am J Phys Anthropol 157(1):58-70.
21. Fernandes-Lima ZS, Paixao-Cortes VR, Andrade AK, Fernandes AS, Coronado BN, Monte Filho HP, Santos MJ, Omena Filho RL, Biondi FC, **Ruiz-Linares** A, Ramallo V, Hunemeier T, Schuler-Faccini L & Monlleo IL (2015) Ocular and craniofacial phenotypes in a large Brazilian family with congenital aniridia. Clin Genet 87(1):68-73.
22. Adhikari K, Reales G, Smith AJ, Konka E, Palmen J, Quinto-Sanchez M, Acuna-Alonzo V, Jaramillo C, Arias W, Fuentes M, Pizarro M, Barquera Lozano R, Macin Perez G, Gomez-Valdes J, Villamil-Ramirez H, Hunemeier T, Ramallo V, Silva de Cerqueira CC, Hurtado M, Villegas V,

Granja V, Gallo C, Poletti G, Schuler-Faccini L, Salzano FM, Bortolini MC, Canizales-Quinteros S, Rothhammer F, Bedoya G, Calderon R, Rosique J, Cheeseman M, Bhutta MF, Humphries SE, Gonzalez-Jose R, Headon D, Balding D & **Ruiz-Linares** A (2015) A genome-wide association study identifies multiple loci for variation in human ear morphology. Nat Commun 6:7500.

23. Genomes Project C, Auton A, Brooks LD, Durbin RM, Garrison EP, Kang HM, Korbel JO, Marchini JL, McCarthy S, McVean GA & Abecasis GR (2015) A global reference for human genetic variation. Nature 526(7571):68-74.
24. **Ruiz-Linares** A, Adhikari K, Acuna-Alonzo V, Quinto-Sanchez M, Jaramillo C, Arias W, Fuentes M, Pizarro M, Everardo P, de Avila F, Gomez-Valdes J, Leon-Mimila P, Hunemeier T, Ramallo V, Silva de Cerqueira CC, Burley MW, Konca E, de Oliveira MZ, Veronez MR, Rubio-Codina M, Attanasio O, Gibbon S, Ray N, Gallo C, Poletti G, Rosique J, Schuler-Faccini L, Salzano FM, Bortolini MC, Canizales-Quinteros S, Rothhammer F, Bedoya G, Balding D & Gonzalez-Jose R (2014) Admixture in Latin America: geographic structure, phenotypic diversity and self-perception of ancestry based on 7,342 individuals. PLoS Genet 10(9):e1004572.
25. **Ruiz-Linares** A (2014) How genes have illuminated the history of early Americans and Latino Americans. Cold Spring Harb Perspect Biol 7(6).
26. Rieux A, Eriksson A, Li M, Sobkowiak B, Weinert LA, Warmuth V, **Ruiz-Linares** A, Manica A & Balloux F (2014) Improved calibration of the human mitochondrial clock using ancient genomes. Mol Biol Evol 31(10):2780-2792.
27. Moreno-Estrada A, Gignoux CR, Fernandez-Lopez JC, Zakharia F, Sikora M, Contreras AV, Acuna-Alonzo V, Sandoval K, Eng C, Romero-Hidalgo S, Ortiz-Tello P, Robles V, Kenny EE, Nuno-Arana I, Barquera-Lozano R, Macin-Perez G, Granados-Arriola J, Huntsman S, Galanter JM, Via M, Ford JG, Chapela R, Rodriguez-Cintron W, Rodriguez-Santana JR, Romieu I, Sienra-Monge JJ, del Rio Navarro B, London SJ, **Ruiz-Linares** A, Garcia-Herrera R, Estrada K, Hidalgo-Miranda A, Jimenez-Sanchez G, Carnevale A, Soberon X, Canizales-Quinteros S, Rangel-Villalobos H, Silva-Zolezzi I, Burchard EG & Bustamante CD (2014) Human genetics. The genetics of Mexico recapitulates Native American substructure and affects biomedical traits. Science 344(6189):1280-1285.
28. McGrath LM, Yu D, Marshall C, Davis LK, Thiruvahindrapuram B, Li B, Cappi C, Gerber G, Wolf A, Schroeder FA, Osiecki L, O'Dushlaine C, Kirby A, Illmann C, Haddad S, Gallagher P, Fagerness JA, Barr CL, Bellodi L, Benarroch F, Bienvenu OJ, Black DW, Bloch MH, Bruun RD, Budman CL, Camarena B, Cath DC, Cavallini MC, Chouinard S, Coric V, Cullen B, Delorme R, Denys D, Derks EM, Dion Y, Rosario MC, Eapen V, Evans P, Falkai P, Fernandez TV, Garrido H, Geller D, Grabe HJ, Grados MA, Greenberg BD, Gross-Tsur V, Grunblatt E, Heiman GA, Hemmings SM, Herrera LD, Hounie AG, Jankovic J, Kennedy JL, King RA, Kurlan R, Lanzagorta N, Leboyer M, Leckman JF, Lennertz L, Lochner C, Lowe TL, Lyon GJ, Macciardi F, Maier W, McCracken JT, McMahon W, Murphy DL, Naarden AL, Neale BM, Nurmi E, Pakstis AJ, Pato MT, Pato CN, Piacentini J, Pittenger C, Pollak Y, Reus VI, Richter MA, Riddle M, Robertson MM, Rosenberg D, Rouleau GA, Ruhrmann S, Sampaio AS, Samuels J, Sandor P, Sheppard B, Singer HS, Smit JH, Stein DJ, Tischfield JA, Vallada H, Veenstra-VanderWeele J, Walitza S, Wang Y, Wendland JR, Shugart YY, Miguel EC, Nicolini H, Oostra BA, Moessner R, Wagner M, **Ruiz-Linares** A, Heutink P, Nestadt G, Freimer N, Petryshen T, Posthuma D, Jenike MA, Cox NJ, Hanna GL, Brentani H, Scherer SW, Arnold PD, Stewart SE, Mathews CA, Knowles JA, Cook EH, Pauls DL, Wang K & Scharf JM (2014) Copy number variation in obsessive-compulsive disorder and tourette syndrome: a cross-disorder study. Journal of the American Academy of Child and Adolescent Psychiatry 53(8):910-919.
29. Lazaridis I, Patterson N, Mittnik A, Renaud G, Mallick S, Kirsanow K, Sudmant PH, Schraiber JG, Castellano S, Lipson M, Berger B, Economou C, Bollongino R, Fu Q, Bos KI, Nordenfelt S, Li H, de Filippo C, Prufer K, Sawyer S, Posth C, Haak W, Hallgren F, Fornander E, Rohland N, Delsate

D, Francken M, Guinet JM, Wahl J, Ayodo G, Babiker HA, Bailliet G, Balanovska E, Balanovsky O, Barrantes R, Bedoya G, Ben-Ami H, Bene J, Berrada F, Bravi CM, Brisighelli F, Busby GB, Cali F, Churnosov M, Cole DE, Corach D, Damba L, van Driem G, Dryomov S, Dugoujon JM, Fedorova SA, Gallego Romero I, Gubina M, Hammer M, Henn BM, Hervig T, Hodoglugil U, Jha AR, Karachanak-Yankova S, Khusainova R, Khusnutdinova E, Kittles R, Kivisild T, Klitz W, Kucinskas V, Kushniarevich A, Laredj L, Litvinov S, Loukidis T, Mahley RW, Melegh B, Metspalu E, Molina J, Mountain J, Nakkalajarvi K, Nesheva D, Nyambo T, Osipova L, Parik J, Platonov F, Posukh O, Romano V, Rothhammer F, Rudan I, Ruizbakiev R, Sahakyan H, Sajantila A, Salas A, Starikovskaya EB, Tarekegn A, Toncheva D, Turdikulova S, Uktveryte I, Utevska O, Vasquez R, Villena M, Voevoda M, Winkler CA, Yepiskoposyan L, Zalloua P, Zemunik T, Cooper A, Capelli C, Thomas MG, **Ruiz-Linares** A, Tishkoff SA, Singh L, Thangaraj K, Villems R, Comas D, Sukernik R, Metspalu M, Meyer M, Eichler EE, Burger J, Slatkin M, Paabo S, Kelso J, Reich D & Krause J (2014) Ancient human genomes suggest three ancestral populations for present-day Europeans. Nature 513(7518):409-413.

30. Fuentes M, Pulgar I, Gallo C, Bortolini MC, Canizales-Quinteros S, Bedoya G, Gonzalez-Jose R, **Ruiz-Linares** A & Rothhammer F (2014) [Gene geography of Chile: regional distribution of American, European and African genetic contributions]. Rev Med Chil 142(3):281-289.
31. Fears SC, Service SK, Kremeyer B, Araya C, Araya X, Bejarano J, Ramirez M, Castrillon G, Gomez-Franco J, Lopez MC, Montoya G, Montoya P, Aldana I, Teshiba TM, Abaryan Z, Al-Sharif NB, Ericson M, Jalbrzikowski M, Luykx JJ, Navarro L, Tishler TA, Altshuler L, Bartzokis G, Escobar J, Glahn DC, Ospina-Duque J, Risch N, **Ruiz-Linares** A, Thompson PM, Cantor RM, Lopez-Jaramillo C, Macaya G, Molina J, Reus VI, Sabatti C, Freimer NB & Bearden CE (2014) Multisystem component phenotypes of bipolar disorder for genetic investigations of extended pedigrees. JAMA Psychiatry 71(4):375-387.
32. Chacon-Duque JC, Adhikari K, Avendano E, Campo O, Ramirez R, Rojas W, **Ruiz-Linares** A, Restrepo BN & Bedoya G (2014) African genetic ancestry is associated with a protective effect on Dengue severity in colombian populations. Infection, genetics and evolution : journal of molecular epidemiology and evolutionary genetics in infectious diseases 27:89-95.
33. Cerqueira CC, Hunemeier T, Gomez-Valdes J, Ramallo V, Volasko-Krause CD, Barbosa AA, Vargas-Pinilla P, Dornelles RC, Longo D, Rothhammer F, Bedoya G, Canizales-Quinteros S, Acuna-Alonzo V, Gallo C, Poletti G, Gonzalez-Jose R, Salzano FM, Callegari-Jacques SM, Schuler-Faccini L, **Ruiz-Linares** A, Catira Bortolini M & for C (2014) Implications of the admixture process in skin color molecular assessment. PLoS One 9(5):e96886.
34. Scharf JM, Yu D, Mathews CA, Neale BM, Stewart SE, Fagerness JA, Evans P, Gamazon E, Edlund CK, Service SK, Tikhomirov A, Osiecki L, Illmann C, Pluzhnikov A, Konkashbaev A, Davis LK, Han B, Crane J, Moorjani P, Crenshaw AT, Parkin MA, Reus VI, Lowe TL, Rangel-Lugo M, Chouinard S, Dion Y, Girard S, Cath DC, Smit JH, King RA, Fernandez TV, Leckman JF, Kidd KK, Kidd JR, Pakstis AJ, State MW, Herrera LD, Romero R, Fournier E, Sandor P, Barr CL, Phan N, Gross-Tsur V, Benarroch F, Pollak Y, Budman CL, Bruun RD, Erenberg G, Naarden AL, Lee PC, Weiss N, Kremeyer B, Berrio GB, Campbell DD, Cardona Silgado JC, Ochoa WC, Mesa Restrepo SC, Muller H, Valencia Duarte AV, Lyon GJ, Leppert M, Morgan J, Weiss R, Grados MA, Anderson K, Davarya S, Singer H, Walkup J, Jankovic J, Tischfield JA, Heiman GA, Gilbert DL, Hoekstra PJ, Robertson MM, Kurlan R, Liu C, Gibbs JR, Singleton A, North American Brain Expression C, Hardy J, Database UKHBE, Strengman E, Ophoff RA, Wagner M, Moessner R, Mirel DB, Posthuma D, Sabatti C, Eskin E, Conti DV, Knowles JA, **Ruiz-Linares** A, Rouleau GA, Purcell S, Heutink P, Oostra BA, McMahon WM, Freimer NB, Cox NJ & Pauls DL (2013) Genome-wide association study of Tourette's syndrome. Mol Psychiatry 18(6):721-728.
35. Nag A, Bochukova EG, Kremeyer B, Campbell DD, Muller H, Valencia-Duarte AV, Cardona J, Rivas IC, Mesa SC, Cuartas M, Garcia J, Bedoya G, Cornejo W, Herrera LD, Romero R, Fournier

E, Reus VI, Lowe TL, Farooqi IS, Tourette Syndrome Association International Consortium for G, Mathews CA, McGrath LM, Yu D, Cook E, Wang K, Scharf JM, Pauls DL, Freimer NB, Plagnol V & **Ruiz-Linares** A (2013) CNV analysis in Tourette syndrome implicates large genomic rearrangements in COL8A1 and NRXN1. PLoS One 8(3):e59061.

36. Moreau C, Lefebvre JF, Jomphe M, Bherer C, **Ruiz-Linares** A, Vezina H, Roy-Gagnon MH & Labuda D (2013) Native American admixture in the Quebec founder population. PLoS One 8(6):e65507.
37. Gravel S, Zakharia F, Moreno-Estrada A, Byrnes JK, Muzzio M, Rodriguez-Flores JL, Kenny EE, Gignoux CR, Maples BK, Guiblet W, Dutil J, Via M, Sandoval K, Bedoya G, Genomes P, Oleksyk TK, **Ruiz-Linares** A, Burchard EG, Martinez-Cruzado JC & Bustamante CD (2013) Reconstructing Native American migrations from whole-genome and whole-exome data. PLoS Genet 9(12):e1004023.
38. Gomez-Valdes JA, Hunemeier T, Contini V, Acuna-Alonzo V, Macin G, Ballesteros-Romero M, Corral P, **Ruiz-Linares** A, Sanchez-Mejorada G, Canizales-Quinteros S, Martinez-Abadias N, Salzano FM, Gonzalez-Jose R & Bortolini MC (2013) Fibroblast growth factor receptor 1 (FGFR1) variants and craniofacial variation in Amerindians and related populations. American journal of human biology 25(1):12-19.
39. Davis LK, Yu D, Keenan CL, Gamazon ER, Konkashbaev AI, Derks EM, Neale BM, Yang J, Lee SH, Evans P, Barr CL, Bellodi L, Benarroch F, Berrio GB, Bienvenu OJ, Bloch MH, Blom RM, Bruun RD, Budman CL, Camarena B, Campbell D, Cappi C, Cardona Silgado JC, Cath DC, Cavallini MC, Chavira DA, Chouinard S, Conti DV, Cook EH, Coric V, Cullen BA, Deforce D, Delorme R, Dion Y, Edlund CK, Egberts K, Falkai P, Fernandez TV, Gallagher PJ, Garrido H, Geller D, Girard SL, Grabe HJ, Grados MA, Greenberg BD, Gross-Tsur V, Haddad S, Heiman GA, Hemmings SM, Hounie AG, Illmann C, Jankovic J, Jenike MA, Kennedy JL, King RA, Kremeyer B, Kurlan R, Lanzagorta N, Leboyer M, Leckman JF, Lennertz L, Liu C, Lochner C, Lowe TL, Macciardi F, McCracken JT, McGrath LM, Mesa Restrepo SC, Moessner R, Morgan J, Muller H, Murphy DL, Naarden AL, Ochoa WC, Ophoff RA, Osiecki L, Pakstis AJ, Pato MT, Pato CN, Piacentini J, Pittenger C, Pollak Y, Rauch SL, Renner TJ, Reus VI, Richter MA, Riddle MA, Robertson MM, Romero R, Rosario MC, Rosenberg D, Rouleau GA, Ruhrmann S, **Ruiz-Linares** A, Sampaio AS, Samuels J, Sandor P, Sheppard B, Singer HS, Smit JH, Stein DJ, Strengman E, Tischfield JA, Valencia Duarte AV, Vallada H, Van Nieuwerburgh F, Veenstra-Vanderweele J, Walitza S, Wang Y, Wendland JR, Westenberg HG, Shugart YY, Miguel EC, McMahon W, Wagner M, Nicolini H, Posthuma D, Hanna GL, Heutink P, Denys D, Arnold PD, Oostra BA, Nestadt G, Freimer NB, Pauls DL, Wray NR, Stewart SE, Mathews CA, Knowles JA, Cox NJ & Scharf JM (2013) Partitioning the heritability of Tourette syndrome and obsessive compulsive disorder reveals differences in genetic architecture. PLoS Genet 9(10):e1003864.
40. Caro-Gomez MA, Carrizosa J, Moreno JT, Cabrera D, Bedoya G, **Ruiz-Linares** A, Franco A, Gomez-Castillo C, Cornejo W & Pineda-Trujillo N (2013) Segregation of a haplotype encompassing FEB1 with genetic epilepsy with febrile seizures plus in a Colombian family. Epileptic disorders : international epilepsy journal with videotape 15(2):128-131.
41. Reich D, Patterson N, Campbell D, Tandon A, Mazieres S, Ray N, Parra MV, Rojas W, Duque C, Mesa N, Garcia LF, Triana O, Blair S, Maestre A, Dib JC, Bravi CM, Bailliet G, Corach D, Hunemeier T, Bortolini MC, Salzano FM, Petzl-Erler ML, Acuna-Alonzo V, Aguilar-Salinas C, Canizales-Quinteros S, Tusie-Luna T, Riba L, Rodriguez-Cruz M, Lopez-Alarcon M, Coral-Vazquez R, Canto-Cetina T, Silva-Zolezzi I, Fernandez-Lopez JC, Contreras AV, Jimenez-Sanchez G, Gomez-Vazquez MJ, Molina J, Carracedo A, Salas A, Gallo C, Poletti G, Witonsky DB, Alkorta-Aranburu G, Sukernik RI, Osipova L, Fedorova SA, Vasquez R, Villena M, Moreau C, Barrantes R, Pauls D, Excoffier L, Bedoya G, Rothhammer F, Dugoujon JM, Larrouy G, Klitz W,

Labuda D, Kidd J, Kidd K, Di Rienzo A, Freimer NB, Price AL & **Ruiz-Linares** A (2012) Reconstructing Native American population history. Nature 488(7411):370-374.

42. Pardo LM, Piras G, Asproni R, van der Gaag KJ, Gabbas A, **Ruiz-Linares** A, de Knijff P, Monne M, Rizzu P & Heutink P (2012) Dissecting the genetic make-up of North-East Sardinia using a large set of haploid and autosomal markers. European journal of human genetics : EJHG 20(9):956-964.
43. Genomes Project C, Abecasis GR, Auton A, Brooks LD, DePristo MA, Durbin RM, Handsaker RE, Kang HM, Marth GT & McVean GA (2012) An integrated map of genetic variation from 1,092 human genomes. Nature 491(7422):56-65.
44. Hunemeier T, Amorim CE, Azevedo S, Contini V, Acuna-Alonzo V, Rothhammer F, Dugoujon JM, Mazieres S, Barrantes R, Villarreal-Molina MT, Paixao-Cortes VR, Salzano FM, Canizales-Quinteros S, **Ruiz-Linares** A & Bortolini MC (2012) Evolutionary responses to a constructed niche: ancient Mesoamericans as a model of gene-culture coevolution. PLoS One 7(6):e38862.
45. Campbell DD, Parra MV, Duque C, Gallego N, Franco L, Tandon A, Hunemeier T, Bortolini C, Villegas A, Bedoya G, McCarthy MI, Price A, Reich D & **Ruiz-Linares** A (2012) Amerind ancestry, socioeconomic status and the genetics of type 2 diabetes in a Colombian population. PLoS One 7(4):e33570.
46. Cuartas Arias JM, Palacio Acosta CA, Valencia JG, Montoya GJ, Arango Viana JC, Nieto OC, Florez AF, Camarena Medellin BE, Montoya WR, Lopez Jaramillo CA, Achury JG, Fuentes CC, Berrio GB & **Ruiz-Linares** A (2011) Exploring epistasis in candidate genes for antisocial personality disorder. Psychiatr Genet 21(3):115-124.
47. Cuartas Arias JM, Palacio Acosta CA, Valencia JG, Montoya GJ, Arango Viana JC, Nieto OC, Florez AF, Camarena Medellin BE, Montoya WR, Lopez Jaramillo CA, Achury JG, Fuentes CC, Berrio GB & **Ruiz-Linares** A (2011) Exploring epistasis in candidate genes for antisocial personality disorder. Psychiatr Genet 21(3):115-124.
48. Amorim CE, Wang S, Marrero AR, Salzano FM, **Ruiz-Linares** A & Bortolini MC (2011) X-chromosomal genetic diversity and linkage disequilibrium patterns in Amerindians and non-Amerindian populations. American journal of human biology 23(3):299-304.
49. Yang NN, Mazieres S, Bravi C, Ray N, Wang S, Burley MW, Bedoya G, Rojas W, Parra MV, Molina JA, Gallo C, Poletti G, Hill K, Hurtado AM, Petzl-Erler ML, Tsuneto LT, Klitz W, Barrantes R, Llop E, Rothhammer F, Labuda D, Salzano FM, Bortolini MC, Excoffier L, Dugoujon JM & **Ruiz-Linares** A (2010) Contrasting patterns of nuclear and mtDNA diversity in Native American populations. Ann Hum Genet 74(6):525-538.
50. Wang S, Bedoya G, Labuda D & **Ruiz-Linares** A (2010) Brief communication: patterns of linkage disequilibrium and haplotype diversity at Xq13 in six Native American populations. Am J Phys Anthropol 142(3):476-480.
51. Rojas W, Parra MV, Campo O, Caro MA, Lopera JG, Arias W, Duque C, Naranjo A, Garcia J, Vergara C, Lopera J, Hernandez E, Valencia A, Caicedo Y, Cuartas M, Gutierrez J, Lopez S, **Ruiz-Linares** A & Bedoya G (2010) Genetic make up and structure of Colombian populations by means of uniparental and biparental DNA markers. Am J Phys Anthropol 143(1):13-20.
52. Ray N, Wegmann D, Fagundes NJ, Wang S, **Ruiz-Linares** A & Excoffier L (2010) A statistical evaluation of models for the initial settlement of the american continent emphasizes the importance of gene flow with Asia. Mol Biol Evol 27(2):337-345.
53. Pineda-Trujilo N, Uribe F, Montoya F, Alfaro JM, Latorre G, Villegas A, Ceron J, Perez AF, Ospina M, Naranjo A, Serrano A, Duque I, Castrillon D, Abad A, Bedoya G, Balthazar V & **Ruiz-Linares** A (2010) Chromosome region 2p25 is linked and associated with type 1 diabetes in Colombia. J Genet 89(4):457-461.
54. Moreno SB, O.; Franco, A.;Pineda, N.; Arias, W.; Sepulveda, D.; Aguirre, C; Tamayo, W.; Uribe, S.; Bedoya, G.; **Ruiz-Linares**, A.; Lopera, F. (2010) Cognitive alterations in juvenile Parkinson´ s

disease caused by the C212Y mutation in the Parkin gene. International Journal of Psychological Research 3(2):55-62.
55. Kremeyer B, Lopera F, Cox JJ, Momin A, Rugiero F, Marsh S, Woods CG, Jones NG, Paterson KJ, Fricker FR, Villegas A, Acosta N, Pineda-Trujillo NG, Ramirez JD, Zea J, Burley MW, Bedoya G, Bennett DL, Wood JN & **Ruiz-Linares** A (2010) A gain-of-function mutation in TRPA1 causes familial episodic pain syndrome. Neuron 66(5):671-680.
56. Kremeyer B, Garcia J, Muller H, Burley MW, Herzberg I, Parra MV, Duque C, Vega J, Montoya P, Lopez MC, Bedoya G, Reus V, Palacio C, Lopez C, Ospina-Duque J, Freimer NB & **Ruiz-Linares** A (2010) Genome-wide linkage scan of bipolar disorder in a Colombian population isolate replicates Loci on chromosomes 7p21-22, 1p31, 16p12 and 21q21-22 and identifies a novel locus on chromosome 12q. Hum Hered 70(4):255-268.
57. Hunemeier T, **Ruiz-Linares** A, Silveira A, Paixao-Cortes VR, Salzano FM & Bortolini MC (2010) Brief communication: Population data support the adaptive nature of HACNS1 sapiens/neandertal-chimpanzee differences in a limb expression domain. Am J Phys Anthropol 143(3):478-481.
58. Herzberg I, Valencia-Duarte AV, Kay VA, White DJ, Muller H, Rivas IC, Mesa SC, Cuartas M, Garcia J, Bedoya G, Cornejo W, **Ruiz-Linares** A & Kremeyer B (2010) Association of DRD2 variants and Gilles de la Tourette syndrome in a family-based sample from a South American population isolate. Psychiatr Genet 20(4):179-183.
59. Vergara C, Caraballo L, Mercado D, Jimenez S, Rojas W, Rafaels N, Hand T, Campbell M, Tsai YJ, Gao L, Duque C, Lopez S, Bedoya G, **Ruiz-Linares** A & Barnes KC (2009) African ancestry is associated with risk of asthma and high total serum IgE in a population from the Caribbean Coast of Colombia. Hum Genet 125(5-6):565-579.
60. Kremeyer B, Garcia J, Kymalainen H, Wratten N, Restrepo G, Palacio C, Miranda AL, Lopez C, Restrepo M, Bedoya G, Brzustowicz LM, Ospina-Duque J, Arbelaez MP & **Ruiz-Linares** A (2009) Evidence for a role of the NOS1AP (CAPON) gene in schizophrenia and its clinical dimensions: an association study in a South American population isolate. Hum Hered 67(3):163-173.
61. Jasinska AJ, Service S, Jawaheer D, DeYoung J, Levinson M, Zhang Z, Kremeyer B, Muller H, Aldana I, Garcia J, Restrepo G, Lopez C, Palacio C, Duque C, Parra M, Vega J, Ortiz D, Bedoya G, Mathews C, Davanzo P, Fournier E, Bejarano J, Ramirez M, Araya Ortiz C, Araya X, Molina J, Sabatti C, Reus V, Ospina J, Macaya G, **Ruiz-Linares** A & Freimer NB (2009) A narrow and highly significant linkage signal for severe bipolar disorder in the chromosome 5q33 region in Latin American pedigrees. American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics 150B(7):998-1006.
62. Franco-Hincapie L, Duque CE, Parra MV, Gallego N, Villegas A, **Ruiz-Linares** A & Bedoya G (2009) [Association between polymorphism in uncoupling proteins and type 2 diabetes in a northwestern Colombian population]. Biomedica 29(1):108-118.
63. Florez JC, Price AL, Campbell D, Riba L, Parra MV, Yu F, Duque C, Saxena R, Gallego N, Tello-Ruiz M, Franco L, Rodriguez-Torres M, Villegas A, Bedoya G, Aguilar-Salinas CA, Tusie-Luna MT, **Ruiz-Linares** A & Reich D (2009) Strong association of socioeconomic status with genetic ancestry in Latinos: implications for admixture studies of type 2 diabetes. Diabetologia 52(8):1528-1536.
64. Bourgeois S, Yotova V, Wang S, Bourtoumieu S, Moreau C, Michalski R, Moisan JP, Hill K, Hurtado AM, **Ruiz-Linares** A & Labuda D (2009) X-chromosome lineages and the settlement of the Americas. Am J Phys Anthropol 140(3):417-428.
65. Wang S, Ray N, Rojas W, Parra MV, Bedoya G, Gallo C, Poletti G, Mazzotti G, Hill K, Hurtado AM, Camrena B, Nicolini H, Klitz W, Barrantes R, Molina JA, Freimer NB, Bortolini MC, Salzano FM, Petzl-Erler ML, Tsuneto LT, Dipierri JE, Alfaro EL, Bailliet G, Bianchi NO, Llop E, Rothhammer F, Excoffier L & **Ruiz-Linares** A (2008) Geographic patterns of genome admixture in Latin American Mestizos. PLoS Genet 4(3):e1000037.

66. Price AL, Butler J, Patterson N, Capelli C, Pascali VL, Scarnicci F, **Ruiz-Linares** A, Groop L, Saetta AA, Korkolopoulou P, Seligsohn U, Waliszewska A, Schirmer C, Ardlie K, Ramos A, Nemesh J, Arbeitman L, Goldstein DB, Reich D & Hirschhorn JN (2008) Discerning the ancestry of European Americans in genetic association studies. PLoS Genet 4(1):e236.
67. Nikali K, Vanegas JJ, Burley MW, Martinez J, Lopez LM, Bedoya G, Wrong OM, Povey S, Unwin RJ & **Ruiz-Linares** A (2008) Extensive founder effect for distal renal tubular acidosis (dRTA) with sensorineural deafness in an isolated South American population. American journal of medical genetics. Part A 146A(20):2709-2712.
68. Wang S, Lewis CM, Jakobsson M, Ramachandran S, Ray N, Bedoya G, Rojas W, Parra MV, Molina JA, Gallo C, Mazzotti G, Poletti G, Hill K, Hurtado AM, Labuda D, Klitz W, Barrantes R, Bortolini MC, Salzano FM, Petzl-Erler ML, Tsuneto LT, Llop E, Rothhammer F, Excoffier L, Feldman MW, Rosenberg NA & **Ruiz-Linares** A (2007) Genetic variation and population structure in native Americans. PLoS Genet 3(11):e185.
69. Price AL, Patterson N, Yu F, Cox DR, Waliszewska A, McDonald GJ, Tandon A, Schirmer C, Neubauer J, Bedoya G, Duque C, Villegas A, Bortolini MC, Salzano FM, Gallo C, Mazzotti G, Tello-Ruiz M, Riba L, Aguilar-Salinas CA, Canizales-Quinteros S, Menjivar M, Klitz W, Henderson B, Haiman CA, Winkler C, Tusie-Luna T, **Ruiz-Linares** A & Reich D (2007) A genomewide admixture map for Latino populations. Am J Hum Genet 80(6):1024-1036.
70. Marrero AR, Silva-Junior WA, Bravi CM, Hutz MH, Petzl-Erler ML, **Ruiz-Linares** A, Salzano FM & Bortolini MC (2007) Demographic and evolutionary trajectories of the Guarani and Kaingang natives of Brazil. Am J Phys Anthropol 132(2):301-310.
71. Marrero AR, Bravi C, Stuart S, Long JC, Pereira das Neves Leite F, Kommers T, Carvalho CM, Pena SD, **Ruiz-Linares** A, Salzano FM & Catira Bortolini M (2007) Pre- and post-Columbian gene and cultural continuity: the case of the Gaucho from southern Brazil. Hum Hered 64(3):160-171.
72. Torres MM, Bravi CM, Bortolini MC, Duque C, Callegari-Jacques S, Ortiz D, Bedoya G, Groot de Restrepo H & **Ruiz-Linares** A (2006) A revertant of the major founder Native American haplogroup C common in populations from northern South America. American journal of human biology : the official journal of the Human Biology Council 18(1):59-65.
73. Service S, DeYoung J, Karayiorgou M, Roos JL, Pretorious H, Bedoya G, Ospina J, **Ruiz-Linares** A, Macedo A, Palha JA, Heutink P, Aulchenko Y, Oostra B, van Duijn C, Jarvelin MR, Varilo T, Peddle L, Rahman P, Piras G, Monne M, Murray S, Galver L, Peltonen L, Sabatti C, Collins A & Freimer N (2006) Magnitude and distribution of linkage disequilibrium in population isolates and implications for genome-wide association studies. Nat Genet 38(5):556-560.
74. Pineda-Trujillo N, Apergi M, Moreno S, Arias W, Lesage S, Franco A, Sepulveda-Falla D, Cano D, Buritica O, Pineda D, Uribe CS, de Yebenes JG, Lees AJ, Brice A, Bedoya G, Lopera F & **Ruiz-Linares** A (2006) A genetic cluster of early onset Parkinson's disease in a Colombian population. American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics 141B(8):885-889.
75. Pereira TV, Salzano FM, Mostowska A, Trzeciak WH, **Ruiz-Linares** A, Chies JA, Saavedra C, Nagamachi C, Hurtado AM, Hill K, Castro-de-Guerra D, Silva-Junior WA & Bortolini MC (2006) Natural selection and molecular evolution in primate PAX9 gene, a major determinant of tooth development. Proceedings of the National Academy of Sciences of the United States of America 103(15):5676-5681.
76. Miranda A, Garcia J, Lopez C, Gordon D, Palacio C, Restrepo G, Ortiz J, Montoya G, Cardeno C, Calle J, Lopez M, Campo O, Bedoya G, **Ruiz-Linares** A & Ospina-Duque J (2006) Putative association of the carboxy-terminal PDZ ligand of neuronal nitric oxide synthase gene (CAPON) with schizophrenia in a Colombian population. Schizophr Res 82(2-3):283-285.
77. Kremeyer B, Herzberg I, Garcia J, Kerr E, Duque C, Parra V, Vega J, Lopez C, Palacio C, Bedoya G, Ospina J & **Ruiz-Linares** A (2006) Transmission distortion of BDNF variants to bipolar

disorder type I patients from a South American population isolate. American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics 141B(5):435-439.
78. Herzberg I, Jasinska A, Garcia J, Jawaheer D, Service S, Kremeyer B, Duque C, Parra MV, Vega J, Ortiz D, Carvajal L, Polanco G, Restrepo GJ, Lopez C, Palacio C, Levinson M, Aldana I, Mathews C, Davanzo P, Molina J, Fournier E, Bejarano J, Ramirez M, Ortiz CA, Araya X, Sabatti C, Reus V, Macaya G, Bedoya G, Ospina J, Freimer N & **Ruiz-Linares** A (2006) Convergent linkage evidence from two Latin-American population isolates supports the presence of a susceptibility locus for bipolar disorder in 5q31-34. Hum Mol Genet 15(21):3146-3153.
79. Glatt CE, Wahner AD, White DJ, **Ruiz-Linares** A & Ritz B (2006) Gain-of-function haplotypes in the vesicular monoamine transporter promoter are protective for Parkinson disease in women. Hum Mol Genet 15(2):299-305.
80. Garcia-Ceren JJ, Valencia-Duarte AV, Cornejo JW, Carrizosa J, Cuartas JM, Zuluaga-Espinosa NA, Bedoya G & **Ruiz-Linares** A (2006) [Genetic linkage analysis of Gilles de la Tourette Syndrome in a Colombian family]. Rev Neurol 42(4):211-216.
81. Choo KE, Nicoli TK, Bruce LJ, Tanner MJ, **Ruiz-Linares** A & Wrong OM (2006) Recessive distal renal tubular acidosis in Sarawak caused by AE1 mutations. Pediatr Nephrol 21(2):212-217.
82. Bedoya G, Montoya P, Garcia J, Soto I, Bourgeois S, Carvajal L, Labuda D, Alvarez V, Ospina J, Hedrick PW & **Ruiz-Linares** A (2006) Admixture dynamics in Hispanics: a shift in the nuclear genetic ancestry of a South American population isolate. Proceedings of the National Academy of Sciences of the United States of America 103(19):7234-7239.
83. Bedoya G, Garcia J, Montoya P, Rojas W, Amezquita ME, Soto I, Lopez MC, Ospina-Duque J & **Ruiz-Linares** A (2006) [Isonymy analysis between 2 populations in northwestern Colombia]. Biomedica 26(4):538-545.
84. Pineda-Trujillo N, Cornejo W, Carrizosa J, Wheeler RB, Munera S, Valencia A, Agudelo-Arango J, Cogollo A, Anderson G, Bedoya G, Mole SE & **Ruiz-Linares** A (2005) A CLN5 mutation causing an atypical neuronal ceroid lipofuscinosis of juvenile onset. Neurology 64(4):740-742.
85. Pineda-Trujillo N, Carrizosa J, Cornejo W, Arias W, Franco C, Cabrera D, Bedoya G & **Ruiz-Linares** A (2005) A novel SCN1A mutation associated with severe GEFS+ in a large South American pedigree. Seizure 14(2):123-128.
86. Marrero AR, Das Neves Leite FP, De Almeida Carvalho B, Peres LM, Kommers TC, Da Cruz IM, Salzano FM, **Ruiz-Linares** A, Da Silva Junior WA & Bortolini MC (2005) Heterogeneity of the genome ancestry of individuals classified as White in the state of Rio Grande do Sul, Brazil. American journal of human biology : the official journal of the Human Biology Council 17(4):496-506.
87. **Ruiz-Linares** A (2004) Juvenile Parkinson disease and the C212Y mutation of parkin. Arch Neurol 61(3):444; author reply 444.
88. Rana NA, Ebenezer ND, Webster AR, **Linares** AR, Whitehouse DB, Povey S & Hardcastle AJ (2004) Recombination hotspots and block structure of linkage disequilibrium in the human genome exemplified by detailed analysis of PGM1 on 1p31. Hum Mol Genet 13(24):3089-3102.
89. Bortolini MC, Thomas MG, Chikhi L, Aguilar JA, Castro-De-Guerra D, Salzano FM & **Ruiz-Linares** A (2004) Ribeiro's typology, genomes, and Spanish colonialism, as viewed from Gran Canaria and Colombia. Genetics and Molecular Biology 27(1):01-08.
90. Carvajal-Carmona LG, Ophoff R, Service S, Hartiala J, Molina J, Leon P, Ospina J, Bedoya G, Freimer N & **Ruiz-Linares** A (2003) Genetic demography of Antioquia (Colombia) and the Central Valley of Costa Rica. Hum Genet 112(5-6):534-541.
91. Carvajal-Carmona LG, Bermudez N, Olivera-Angel M, Estrada L, Ossa J, Bedoya G & **Ruiz-Linares** A (2003) Abundant mtDNA diversity and ancestral admixture in Colombian criollo cattle (Bos taurus). Genetics 165(3):1457-1463.

92. Bortolini MC, Salzano FM, Thomas MG, Stuart S, Nasanen SP, Bau CH, Hutz MH, Layrisse Z, Petzl-Erler ML, Tsuneto LT, Hill K, Hurtado AM, Castro-de-Guerra D, Torres MM, Groot H, Michalski R, Nymadawa P, Bedoya G, Bradman N, Labuda D & **Ruiz-Linares** A (2003) Y-chromosome evidence for differing ancient demographic histories in the Americas. Am J Hum Genet 73(3):524-539.
93. Ramirez-Castro JL, Pineda-Trujillo N, Valencia AV, Muneton CM, Botero O, Trujillo O, Vasquez G, Mora BE, Durango N, Bedoya G & **Ruiz-Linares** A (2002) Mutations in FOXL2 underlying BPES (types 1 and 2) in Colombian families. Am J Med Genet 113(1):47-51.
94. Bortolini MC, Salzano FM, Bau CH, Layrisse Z, Petzl-Erler ML, Tsuneto LT, Hill K, Hurtado AM, Castro-De-Guerra D, Bedoya G & **Ruiz-Linares** A (2002) Y-chromosome biallelic polymorphisms and Native American population structure. Ann Hum Genet 66(Pt 4):255-259.
95. Pineda-Trujillo N, Carvajal-Carmona LG, Buritica O, Moreno S, Uribe C, Pineda D, Toro M, Garcia F, Arias W, Bedoya G, Lopera F & **Ruiz-Linares** A (2001) A novel Cys212Tyr founder mutation in parkin and allelic heterogeneity of juvenile Parkinsonism in a population from North West Colombia. Neurosci Lett 298(2):87-90.
96. Ospina-Duque J, Duque C, Carvajal-Carmona L, Ortiz-Barrientos D, Soto I, Pineda N, Cuartas M, Calle J, Lopez C, Ochoa L, Garcia J, Gomez J, Agudelo A, Lozano M, Montoya G, Ospina A, Lopez M, Gallo A, Miranda A, Serna L, Montoya P, Palacio C, Bedoya G, McCarthy M, Reus V, Freimer N & **Ruiz-Linares** A (2000) An association study of bipolar mood disorder (type I) with the 5-HTTLPR serotonin transporter polymorphism in a human population isolate from Colombia. Neurosci Lett 292(3):199-202.
97. Mesa NR, Mondragon MC, Soto ID, Parra MV, Duque C, Ortiz-Barrientos D, Garcia LF, Velez ID, Bravo ML, Munera JG, Bedoya G, Bortolini MC & **Ruiz-Linares** A (2000) Autosomal, mtDNA, and Y-chromosome diversity in Amerinds: pre- and post-Columbian patterns of gene flow in South America. Am J Hum Genet 67(5):1277-1286.
98. Cuellar-Ambrosi F, Mondragon MC, Figueroa M, Prehu C, Galacteros F & **Ruiz-Linares** A (2000) Sickle cell anemia and beta-globin gene cluster haplotypes in Colombia. Hemoglobin 24(3):221-225.
99. Carvajal-Carmona LG, Soto ID, Pineda N, Ortiz-Barrientos D, Duque C, Ospina-Duque J, McCarthy M, Montoya P, Alvarez VM, Bedoya G & **Ruiz-Linares** A (2000) Strong Amerind/white sex bias and a possible Sephardic contribution among the founders of a population in northwest Colombia. Am J Hum Genet 67(5):1287-1295.
100. **Ruiz-Linares** A, Ortiz-Barrientos D, Figueroa M, Mesa N, Munera JG, Bedoya G, Velez ID, Garcia LF, Perez-Lezaun A, Bertranpetit J, Feldman MW & Goldstein DB (1999) Microsatellites provide evidence for Y chromosome diversity among the founders of the New World. Proceedings of the National Academy of Sciences of the United States of America 96(11):6312-6317.
101. Arcos-Burgos M, Palacio LG, Jimenez I, Pineda N, Mora O, Sanchez JL, Jimenez M, Munoz A, Brancolini V, Devoto M & **Ruiz-Linares** A (1998) [Antiochian genealogies in which idiopathic epilepsy presents familial conglomeration. Simulations of power for the detection of genetic linkage]. Rev Neurol 26(149):50-52.
102. Lopera F, Ardilla A, Martinez A, Madrigal L, Arango-Viana JC, Lemere CA, Arango-Lasprilla JC, Hincapie L, Arcos-Burgos M, Ossa JE, Behrens IM, Norton J, Lendon C, Goate AM, **Ruiz-Linares** A, Rosselli M & Kosik KS (1997) Clinical features of early-onset Alzheimer disease in a large kindred with an E280A presenilin-1 mutation. JAMA 277(10):793-799.
103. **Ruiz Linares** A, Nayar K, Goldstein DB, Hebert JM, Seielstad MT, Underhill PA, Lin AA, Feldman MW & Cavalli Sforza LL (1996) Geographic clustering of human Y-chromosome haplotypes. Ann Hum Genet 60(Pt 5):401-408.
104. Lemere CA, Lopera F, Kosik KS, Lendon CL, Ossa J, Saido TC, Yamaguchi H, **Ruiz A**, Martinez A, Madrigal L, Hincapie L, Arango JC, Anthony DC, Koo EH, Goate AM, Selkoe DJ &

Arango JC (1996) The E280A presenilin 1 Alzheimer mutation produces increased A beta 42 deposition and severe cerebellar pathology. Nature medicine 2(10):1146-1150.

105. Goldstein DB, Zhivotovsky LA, Nayar K, **Linares AR**, Cavalli-Sforza LL & Feldman MW (1996) Statistical properties of the variation at linked microsatellite loci: implications for the history of human Y chromosomes. Mol Biol Evol 13(9):1213-1218.
106. Goldstein DB, **Ruiz Linares** A, Cavalli-Sforza LL & Feldman MW (1995) An evaluation of genetic distances for use with microsatellite loci. Genetics 139(1):463-471.
107. Goldstein DB, **Ruiz Linares** A, Cavalli-Sforza LL & Feldman MW (1995) Genetic absolute dating based on microsatellites and the origin of modern humans. Proceedings of the National Academy of Sciences of the United States of America 92(15):6723-6727.
108. **Linares** AR, Bowen T & Dover GA (1994) Aspects of nonrandom turnover involved in the concerted evolution of intergenic spacers within the ribosomal DNA of Drosophila melanogaster. Journal of molecular evolution 39(2):151-159.
109. Bowcock AM, **Ruiz-Linares** A, Tomfohrde J, Minch E, Kidd JR & Cavalli-Sforza LL (1994) High resolution of human evolutionary trees with polymorphic microsatellites. Nature 368(6470):455-457.
110. **Ruiz-Linares** A (1993) Dinucleotide repeat polymorphism in the interferon-gamma (IFNG) gene. Hum Mol Genet 2(9):1508.
111. Dover GA, **Linares AR**, Bowen T & Hancock JM (1993) Detection and quantification of concerted evolution and molecular drive. Methods in enzymology 224:525-541.
112. **Ruiz Linares** A, Hancock JM & Dover GA (1991) Secondary structure constraints on the evolution of Drosophila 28 S ribosomal RNA expansion segments. Journal of molecular biology 219(3):381-390.
113. Despres P, **Ruiz-Linares** A, Cahour A, Girard M, Wychowski C & Bouloy M (1990) The 15 amino acid residues preceding the amino terminus of the envelope protein in the yellow fever virus polyprotein precursor act as a signal peptide. Virus Res 16(1):59-75.
114. **Ruiz-Linares** A, Cahour A, Despres P, Girard M & Bouloy M (1989) Processing of yellow fever virus polyprotein: role of cellular proteases in maturation of the structural proteins. J Virol 63(10):4199-4209.
115. **Ruiz-Linares** A, Bouloy M, Girard M & Cahour A (1989) Modulations of the in vitro translational efficiencies of Yellow Fever virus mRNAs: interactions between coding and noncoding regions. Nucleic Acids Res 17(7):2463-2476.