

## Servicio de Huellas Digitales Genéticas

### Trabajos Publicados

#### 2023

Detection of a novel 16.3 variant allele at locus DYS533 in R1b males inhabiting southern South America: a 19-nucleotide insertion explains its origin based on Sanger sequencing results. Andrea Sala, Miguel Marino, Alejandra Guinudinik, Valeria Marcucci, Hortensia Cano, Silvia Vannelli Rey, Cecilia Bobillo, Josefina Castagnola, Lucía Garrigós Calivares, Santiago Ginart, Mariela Caputo, Daniel Corach. *Forensic Science International: Genetics*. Volume 62, January 2023, 102789. <https://doi.org/10.1016/j.fsigen.2022.102789>

Three mutations at a Y-STR haplotype defy a paternal half-brothers kinship case analysis. Sala, A., Caputo, M. & Corach, D.. *Int J Legal Med* (2023). <https://doi.org/10.1007/s00414-023-03027-9>

Reference population database for 24 STR loci of selected provinces of Argentina Caputo M, Sala A, Corach D.. *Mol Biol Rep*. 2023 May 23. doi: 10.1007/s11033-023-08497-z. Epub ahead of print. PMID: 37219673.

#### 2022

Social injustice unveiled by genetic analysis: Argentina as a case study. Corach, D., & Caputo, M. (2022).

*American journal of human biology : the official journal of the Human Biology Council*, e23820. Advance online publication. <https://doi.org/10.1002/ajhb.23820>

#### 2021

Ancestral genetic legacy of the extant population of Argentina as predicted by autosomal and X-chromosomal DIPs. Caputo M, Amador MA, Sala A, Riveiro Dos Santos A, Santos S, Corach D. *Mol Genet Genomics*. 2021 May;296(3):581-590. doi: 10.1007/s00438-020-01755-w. Epub 2021 Feb 13. PMID: 33580820.

#### 2020

DNA commission of the International Society of Forensic Genetics (ISFG): Recommendations on the interpretation of Y-STR results in forensic analysis. Roewer, L.aEmail Author, Andersen, M.M.b,c, Ballantyne, J.d, Butler, J.M.e, Caliebe, A.f, Corach, D.g,h, D'Amato, M.E.i, Gusmão, L.j,k,l, Hou, Y.m, de Knijff, P.n, Parson, W.o,p, Prinz, M.q, Schneider, P.M.r, Taylor, D.s,t, Vennemann, M.u, Willuweit, S.Forensic Science International: Genetics Volume 48, September 2020, Article number 102308

#### 2019

Human DNA degradation assessment and male DNA detection by quantitative-PCR followed by high-resolution melting analysis. S. Ginart, M. Caputo, D. Corach, A. Sala. *Forensic Science International* 295 (2019) 1–7.

Demand for larger Y-STR reference databases in ethnic melting-pot countries: Argentina as a test case. Mariela Caputo, A. Sala, D. Corach. *International Journal of Legal Medicine*. 2019

<https://doi.org/10.1007/s00414-019-02012-5>.

Genetic structure of Mataco-Guaycurú speakers from Argentina and the extent of their genetic admixture with neighbouring urban populations. Sala A, Caputo M, Corach D.. *Sci Rep*. 2019 Nov 26;9(1):17559. doi: 10.1038/s41598-019-54146-6. PubMed PMID: 31772268

Reply to comment “A DNA extraction method of small quantities of bone for high-quality genotyping”. Caputo, M.a, Corach, D. “*Forensic Science International: Genetics* Volume 41, July 2019, Pages e18-e19.

Salty or sweet? Alternatives for bone preservation along extended periods of time. Caputo, M., Garrigós, L., Ginart, S., Corach, D. *Forensic Science International: Genetics Supplement Series* 2019.

Q1a3a native-American Y-haplogroup detection in DNA quantification step: A quick diagnosis for Y-chromosome database selection. Ginart, S. , Caputo, M., Corach, D., Sala, A. *Forensic Science International: Genetics Supplement Series* 2019.

Inferring the genetic structure of Northwestern Argentina by uniparental SNP typing  
Castagnola, J, Cano, H., Hulaniuk, M.L., Trinks, J., Corach, D., Caputo, M..*Forensic Science International: Genetics Supplement Series* 2019.

Species identification in routine casework samples using the SPInDel kit. Pereira, F., Alves, C., Couto, C., Díaz, L.L., Parra, D., Furfuro, S.d Aler, M.e Borrego, L.B., Olekšáková, T., Balsa, F., Sampaio, L., Porto, M.J.A., Costa, H.A., Voss, C.A., Caputo, M., Corach, D., García, Ó., Moro, S.P., Pereira, R., Amorim, A. *Forensic Science International: Genetics Supplement Series* 2019.

Single step strategy for estimating unknown STR allele frequencies in a population. Garrigós, L., Caputo, M. Corach, D. *Forensic Science International: Genetics Supplement Series* Volume 7, Issue 1, December 2019, Pages 732-734. [https://www.fsigeneticssup.com/article/S1875-1768\(19\)30016-2/fulltext](https://www.fsigeneticssup.com/article/S1875-1768(19)30016-2/fulltext)

## **2018**

Historical records under the genetic evidence: “Chiriguano” tribe genesis as a test case.  
Andrea Sala, Mariela Caputo, Santiago Ginart, Graciela Theiler, María Laura Parolin,

A GHEP-ISFG collaborative study on the genetic variation of 38 autosomal indels for human identification in different continental populations R. Pereira, C. Alves, M. Aler, A. Amorim, C. Aréval, E. Betancor, D. Braganholi, M.L. Bravo, P. Brito, J.J. Builes, G. Burgos, E.F. Carvalho, A. Castillo, C.I. Catanesi, R.M.B. Cicarelli, P. Coufalova, P. Dario, M.E. D'Amato, S. Davison, J. Ferragut, M. Fondevila, S. Furfuro, O. García, A. Gaviria, I. Gomes, E. González, A. Gonzalez-Liñan, T.E. Gross, A. Hernández, Q. Huang, S. Jiménez, L.F. Jobim, A.M. López-Parra, M. Marino, S. Marques, G. Martínez-Cortés, V. Masciovecchio, D. Parra, G. Penacino, M.F. Pinheiro, M.J. Porto, Y. Posada, C. Restrepo, T. Ribeiro, L. Rubio, **A. Sala**, A. Santurtún, L.S. Solís, L. Souto, E. Streitemberger, A. Torres, C. Vilela-Lamego, J.J. Yunis, I. Yurrebaso, L. Gusmão. DOI: <http://dx.doi.org/10.1016/j.fsigen.2017.09.012> Reference: *Forensic Science International: Genetics* 32 (2018) 18–25.

GHEP-ISFG collaborative exercise on mixture profiles (GHEP-MIX06). Reporting conclusions: Results and evaluation. Barrio PA, Crespillo M, Luque JA, Aler M, Baeza-Richer C, Baldassarri L, Carnevali E, Coufalova P, Flores I, García O, García MA, González R, Hernández A, Inglés V, Luque GM, Mosquera-Miguel A, Pedrosa S, Pontes ML, Porto MJ, Posada Y, Ramella MI, Ribeiro T, Riego E, **Sala A**, Saragoni VG, Serrano A, Vannelli S. *Forensic Sci Int Genet.* 2018 Jul;35:156-163. doi: 10.1016/j.fsigen.2018.05.005. Epub 2018 May 18.

Reconstructing the Deep Population History of Central and South America. Posth, C.a, bEmail Author, Nakatsuka, N.c, dEmail Author, Lazaridis, I.c, Skoglund, P.c, e, Mallick, S.c, f, g, Lamnidis, T.C.a, Rohland, N.c, Nägele, K.a, Adamski, N.c, g, Bertolini, E.h, Broomandkhoshbacht, N.c, g, Cooper, A.i, Culleton, B.J.j, k, Ferraz, T.a, l, Ferry, M.c, g, Furtwängler, A.b, Haak, W.a, Harkins, K.m, Harper, T.K.j, Hünemeier, T.l, Lawson, A.M.c, g, Llamas, B.i, Michel, M.c, g, Nelson, E.a, b, Oppenheimer, J.c, g, Patterson, N.f, Schiffels, S.a, Sedig, J.c, Stewardson, K.c, g, Talamo, S.n, Wang, C.-C.a, o, Hublin, J.-J.n, Hubbe, M.p, q, Harvati, K.r, s, Nuevo Delaunay, A.t, Beier, J.r, Francken, M.r, Kaulicke, P.u, Reyes-Centeno, H.r, s, Rademaker, K.v, Trask, W.R.w, Robinson, M.x, Gutierrez, S.M.y, Prufer, K.M.z, aa, Salazar-García, D.C.n, ab, Chim, E.N.ac, Müller Plumm Gomes, L.l, Alves, M.L.ac, Liryo, A.ad, Inglez, M.l, Oliveira, R.E.l, ae, Bernardo, D.V.af, Barioni, A.ag, Wesolowski, V.ac, Scheifler, N.A.ah, Rivera, M.A.ai, aj, ak, Plens, C.R.al, Messineo, P.G.ah, Figuti, L.ac, Corach, D.am, Scabuzzo, C.an, Eggers, S.l, ao, DeBlasis, P.ac, Reindel, M.ap, Méndez, C.t, Politis, G.ah, Tomasto-Cagigao, E.u, Kennett, D.J.j, k, Strauss, A.l, r, ac, aq, Fehren-Schmitz, L.m, ar, Krause, J.a, b, Reich, D.c, f, g. *Cell* Volume 175, Issue 5, 15, Pages 1185-1197. e22. November 2018.

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## 2017

Optimizing direct amplification of forensic commercial kits for STR determination. Caputo M, Bobillo MC, Sala A, Corach D(2017).. J Forensic Leg Med., 47:17-23. doi: 10.1016/j.jflm.2017.01.003. Epub 2017 Jan 25. PMID: 28235677.

Using long ssDNA polynucleotides to amplify STRs loci in degraded DNA samples. Mautner ME, Pérez Santángelo A, Corti Bielsa RM, Sala A, Ginart S, Corach D. (2017). PLoS One. P: e0187190. doi: 10.1371/journal.pone.0187190

Degraded DNA samples made informative by using superprimers. Mautner, M.E., Caputo, M., Corach, D. (2017). Forensic Science International: Genetics Supplement Series Volume 6, . Pages e448-e450

Measuring human DNA degradation and gender detection in forensic DNA samples by q-PCR/HRM analysis. Ginart, S., Caputo, M., Corach, D., Sala, A. (2017).. Forensic Science International: Genetics Supplement Series Volume 6, .Pages e552-e554

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Analysis of locus D9S1120 and its genetic admixture correlation in seven argentina native american ethnic groups. Caputo, M, Corach, D.(2016) American Journal of Human Biology. Volume 28, Issue 1, 1 .Pages 57-66

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Letter to the Editor: Hypothesis: Somatic Mosaicism and Parkinson Disease. Perandones C, Pellene LA, Giugni JC, Calvo DS, Raina GB, Cuevas SM, Mata IF, Zabetian CP, Caputo M, Corach D, Micheli FE, Radrizzani M. (2015) Exp Neurobiol. 24(2):173-5.

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Admixture and genetic relationships of Mexican mestizos regarding Latin American and Caribbean populations based on 13 CODIS-STRs. Salazar-Flores, F. Zuñiga-Chiquete, R. Rubi-Castellanos, J.L. Alvarez-Miranda, A. Zetina-Hernández, V.M. Martínez-Sevilla, F. González-Andrade, D. Corach, C. Vullo, J.C. Alvarez, J.A. Lorente, P. Sanchez-Diz, R.J. Herrera, Ricardo M. Cerda-Flores, Hector Rangel-Villalobos. (2015). HOMO - Journal of Comparative Human Biology / 66(1):44-59.

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A global analysis of Y-chromosomal haplotype diversity for 23 STR loci. Josephine Purps (+35), Daniel Corach, Mariela Caputo et. al. Lutz Roewer. *Forensic Science International Genetics* Accepted manuscript (unedited version) available online: 28-APR-2014 DOI information: 10.1016/j.fsigen.2014.04.008

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