

Publications of Ornella Semino (January 2022)

A) Research Articles *in extenso* on ISI journals with referee

- 107- Rambaldi Migliore N, Colombo G, Capodiferro MR, Mazzocchi L, Chero Osorio AM, Raveane A, Tribaldos M, Perego UA, Mendizábal T, García MA, Lombardo G, Grugni V, Garofalo M, Ferretti L, Cereda C, Gagliardi S, Cooke R, Smith-Guzmán N, Olivieri A, Aram B, Torroni A, Motta J, Semino O, Achilli A (2021). Weaving Mitochondrial DNA and Y-Chromosome Variation in the Panamanian Genetic Canvas. *Genes*. (Basel) 12: 2073-4425. [IF: 4,096]
- 106- Capodiferro MR, Aram B, Raveane A, Rambaldi Migliore N, Colombo G, Ongaro L, Rivera J, Mendizábal T, Hernández-Mora I, Tribaldos M, Perego UA, Li H, Scheib CL, Modi A, Gómez-Carballa A, Grugni V, Lombardo G, Hellenthal G, Pascale JM, Bertolini F, Grieco G, Cereda C, Lari M, Caramelli D, Pagani L, Metspalu M, Friedrich R, Knipper C, Olivieri A, Salas A, Cooke R, Montinaro F, Motta J, Torroni A, Martín JG, **Semino O**, Malhi RS, Achilli A. (2021). Archaeogenomic distinctiveness of the Isthmo-Colombian Area. *Cell*. 184: 1706-1723. [IF: 41.582]
- 105- Mutti G, Raveane A, Pagano A, Bertolini F, **Semino O**, Balestrazzi A, Macovei A. (2020) Plant TDP1 (Tyrosyl-DNA Phosphodiesterase 1): A Phylogenetic Perspective and Gene Expression Data Mining. *Genes*. (Basel) 11:E1465. [IF: 3.759]
- 104- Modi A, Lancioni H, Cardinali I, Capodiferro MR, Rambaldi Migliore N, Hussein A, Strobl C, Bodner M, Schnaller L, Xavier C, Rizzi E, Bonomi Ponzi L, Vai S, Raveane A, Cavadas B, **Semino O**, Torroni A, Olivieri A, Lari M, Pereira L, Parson W, Caramelli D, Achilli A. (2020) The mitogenome portrait of Umbria in Central Italy as depicted by contemporary inhabitants and pre-Roman remains. *Sci Rep*. 10:10700. [IF: 3.998]
- 103- Santagostino M, Piras FM, Cappelletti E, Del Giudice S, **Semino O**, Nergadze SG, Giulotto E. Insertion of Telomeric Repeats in the Human and Horse Genomes: An Evolutionary Perspective. *Int J Mol Sci*. 2020 Apr 18;21:2838. [IF: 4.556]
- 102- Alladio E, Della Rocca C, Barni F, Dugoujon J-M, Garofano P, **Semino O**, Berti A, Novelletto A, Vincenti M, Cruciani F. (2020) A multivariate statistical approach for the estimation of the ethnic origin of unknown genetic profiles in forensic genetics. *FSI Genet*, accepted [IF: 4.884]
- 101- Grugni V, Raveane A, Colombo G, Nici C, Crobu F, Ongaro L, Battaglia V, Sanna D, Al-Zahery N, Fiorani O, Lisa A, Ferretti L, Francalacci P, Olivieri A, Achilli A, Piazza A, Torroni A. **Semino O**. (2019) Y-chromosome and surname analyses for reconstructing past population structures: Sardinian population as a test case. *Int J Med Sci*. 20:5763. [IF: 4.183]
- 100- Ongaro L, Scliar MO, Flores R, Raveane A, Marnetto D, Sarno S, Gnechchi-Ruscione GA, Alarcon-Riquelme M, Patin E, Wangkumhang P, Hellenthal G, Gonzalez-Santos M, King RJ, Kouvatsi A, Balanovsky O, Balanovska E, Atramentova L, Turdikulova S, Mastana S, Marjanovic D, Kovacevic L, Leskovac A, Lima-Costa MF, Pereira AC, Barreto ML, Horta BL, Mabunda N, May CA, Moreno-Estrada A, Achilli A, Olivieri A, **Semino O**, Tambets K, Kivisild T, Luiselli D, Torroni A, Capelli C, Tarazona-Santos E, Metspalu M, Pagani L, Montinaro F (2019) The genomic impact of European colonization of the Americas. *Curr. Biol*. 29:1-13. [IF: 9.193]
- 99 - Tamm E, Di Cristofaro J, Mazières S, Pennarun E, Kushniarevich A, Raveane A, **Semino O**, Chiaroni J, Pereira L, Metspalu M, Montinaro F. (2019) Genome-wide analysis of Corsican population reveals a close affinity with Northern and Central Italy. *Sci Rep* 9:13581. [IF: 4.525 – 5y]
- 98- Raveane A, Aneli S, Montinaro F, Athanasiadis G, Barlera S, Birolo G, Boncoraglio G, Di Blasio AM, Di Gaetano C, Pagani L, Parolo S, Paschou P, Piazza A, Stamatoyannopoulos G, Angius A, Brucato N, Cucca F, Hellenthal G, Mulas A, Peyret-Guzzon M, Zoledziewska M, Baali A, Bycroft C, Cherkaoui M, Chiaroni J, Di Cristofaro J, Dina C, Dugoujon JM, Galan P, Gienza J, Kivisild T, Mazieres S, Melhaoui M, Metspalu M, Myers S, Pereira L, Ricaut FX, Brisighelli F, Cardinali I, Grugni V, Lancioni H, Pascali VL, Torroni A, Semino O, Matullo G, Achilli A, Olivieri A, Capelli C. (2019) Population structure of modern-day Italians reveals patterns of ancient and archaic ancestries in Southern Europe. *Sci Adv*. 5(9):eaaw3492. [IF: 12.804]
- 97 - Grugni V, Raveane A, Ongaro L, Battaglia V, Trombetta B, Colombo G, Capodiferro MR, Olivieri A, Achilli A, Perego UA, Motta J, Tribaldos M, Woodward SR, Ferretti L, Cruciani F, Torroni A, Semino O. (2019) Analysis of the human Y-chromosome haplogroup Q characterizes ancient population movements in Eurasia and the Americas. *BMC Biol*. 17(1):3.
- 96 - Achilli A, Olivieri A, **Semino O**, Torroni A. (2018) Ancient human genomes-keys to understanding our past. *Science*. 360:964-965. [IF: 41.058]
- 95 - Grugni V, Raveane A, Mattioli F, Battaglia V, Sala C, Toniolo D, Ferretti L, Gardella R, Achilli A, Olivieri A, Torroni A, Passarino G, **Semino O**. (2018) Reconstructing the genetic history of Italians: new insights from a male (Y-chromosome) perspective. *Ann Hum Biol*. 45:44-56. [IF: 1.24]

- 94 - Brandini S, Bergamaschi P, Cerna MF, Gandini F, Bastaroli F, Bertolini E, Cereda C, Ferretti L, Gómez-Carballa A, Battaglia V, Salas A, **Semino O**, Achilli A, Olivieri A, Torroni A. (2018) The Paleo-Indian entry into South America according to mitogenomes. *Mol Biol Evol.* 35:299-311. [IF: 10.217] **Selected for journal cover**
- 93 - Sahakyan H, Hooshiar Kashani B, Tamang R, Kushniarevich A, Francis A, Costa MD, Pathak AK, Khachatryan Z, Sharma I, van Oven M, Parik J, Hovhannisyanyan H, Metspalu E, Pennarun E, Karmin M, Tamm E, Tambets K, Bahmanimehr A, Reisberg T, Reidla M, Achilli A, Olivieri A, Gandini F, Perego UA, Al-Zahery N, Houshmand M, Sanati MH, Soares P, Rai E, Šarac J, Šarić T, Sharma V, Pereira L, Fernandes V, Černý V, Farjadian S, Singh DP, Azakli H, Üstek D, Ekomasova Trofimova N, Kutuev I, Litvinov S, Bermisheva M, Khusnutdinova EK, Rai N, Singh M, Singh VK, Reddy AG, Tolk HV, Cvjetan S, Lauc LB, Rudan P, Michalodimitrakis EN, Anagnou NP, Pappa KI, Golubenko MV, Orekhov V, Borinskaya SA, Kaldma K, Schauer MA, Simionescu M, Gusar V, Grechanina E, Govindaraj P, Voevoda M, Damba L, Sharma S, Singh L, Semino O, Behar DM, Yepiskoposyan L, Richards MB, Metspalu M, Kivisild T, Thangaraj K, Endicott P, Chaubey G, Torroni A, Villems R. (2017) Origin and spread of human mitochondrial DNA haplogroup U7. *Sci Rep.* 7:46044. [IF: 4.122]
- 92 - Balanovsky O, Gurianov V, Zaporozhchenko V, Balaganskaya O, Urasin V, Zhabagin M, Grugni V, Canada R, Al-Zahery N, Raveane A, Shao-Qing W, Yan S, Wang X, Zalloua P, Marafi A, Koshel S, **Semino O**, Tyler-Smith C, Balanovska E. (2017) Phylogeography of human Y-chromosome haplogroup Q3-L275 from an academic/citizen science collaboration. *BMC Evol Biol.* 17:18. [IF: 3.027]
- 91 - Olivieri A, Sidore C, Achilli A, Angius A, Posth C, Furtwängler A, Brandini S, Rosario Capodiferro M, Gandini F, Zoledziewska M, Pitzalis M, Maschio A, Busonero F, Lai L, Skeates R, Giuseppina Gradoli M, Beckett J, Marongiu M, Mazzarello V, Marongiu P, Rubino S, Rito T, Macaulay V, **Semino O**, Pala M, Abecasis GR, Schlessinger D, Conde-Sousa E, Soares P, Richards MB, Cucca F, Torroni A. (2017) Mitogenome diversity in Sardinians: a genetic window onto an Island's past. *Mol Biol Evol.* 34:1230-1239. [IF: 10.217]
- 90 - Battaglia V, Gabrieli P, Brandini S, Capodiferro MR, Javier PA, Chen X-G, Achilli A, **Semino O**, Gomulski LM, Malacrida AR, Gasperi G, Torroni A, Olivieri A. (2016) The worldwide spread of the tiger mosquito as revealed by mitogenome haplogroup diversity. *Front Genet.* 7: 208 [IF: 3.92]
- 89 - Lazaridis I, Nadel D, Rollefson G, Merrett DC, Rohland N, Mallick S, Fernandes D, Novak M, Gamarra B, Sirak K, Connell S, Stewardson K, Harney E, Fu Q, Gonzalez-Fortes G, Jones ER, Roodenberg SA, Lengyel G, Bocquentin F, Gasparian B, Monge JM, Gregg M, Eshed V, Mizrahi A-S, Meiklejohn C, Gerritsen F, Bejenaru L, Blueher M, Campbell A, Cavalleri G, Comas D, Froguel P, Gilbert E, Kerr SM, Kovacs P, Krause J, McGettigan D, Merrigan M, Merriwether DA, O'Reilly S, Richards MB, **Semino O**, Shamoon-Pour M, Stefanescu G, Stumvoll M, Tonjes A, Torroni A, Wilson JF, Yengo L, Hovhannisyanyan NA, Patterson N, Pinhasi R, Reich D. (2016) Genomic insights into the origin of farming in the ancient Near East. *Nature.* 536, 419–424. [IF: 38.138]
- 88 - Gandini F, Achilli A, Pala M, Bodner M, Brandini S, Huber G, Egyed B, Ferretti L, Salas A, Scozzari R, Cruciani F, Coppa A, Parson W, **Semino O**, Soares P, Torroni A, Richards MB, Olivieri O. (2016) Mapping human dispersals into the Horn of Africa from Arabian Ice Age refugia using whole mitogenomes. *Sci Rep.* 6:25472. [IF: 4.259]
- 87 - Lancioni H, Di Lorenzo P, Cardinali I, Ceccobelli S, Capodiferro MR, Fichera A, Grugni V, **Semino O**, Ferretti L, Gruppetta A, Attard G, Achilli A, Lasagna E. (2016) Survey of uniparental genetic markers in the Maltese cattle breed reveals a significant founder effect, but does not indicate local domestication. *AnimGenetics.* 47:267-269. [IF: 1.779]
- 86 - Grugni V, Battaglia V, Perego UA, Raveane A, Lancioni H, Olivieri A, Ferretti L, Woodward SR, Pascale JM, Cooke R, Myres N, Motta J, Torroni A, Achilli A, **Semino O**. (2015) Exploring the Y-Chromosomal Ancestry of Modern Panamanians. *PLoS One.* 10:e0144223. [IF: 3.057]
- 86 - Olivieri A, Gandini F, Achilli A, Fichera A, Rizzi E, Bonfiglio S, Battaglia V, Brandini S, De Gaetano A, El-Beltagi A, Lancioni H, Agha S, **Semino O**, Ferretti L, Torroni A. (2015) Mitogenomes from Egyptian Cattle Breeds: New Clues on the Origin of haplogroup Q and the early spread of *Bos taurus* from the Near East. *PLoS One.*10:e0141170. [IF: 3.057]
- 85 - Underhill PA, Poznik GD, Rootsi S, Järve M, Lin AA, Wang J, Passarelli B, Kanbar J, Myres NM, King RJ, Di Cristofaro J, Sahakyan H, Behar DM, Kushniarevich A, Sarac J, Saric T, Rudan P, Pathak AK, Chaubey G, Grugni V, **Semino O**, Yepiskoposyan L, Bahmanimehr A, Farjadian S, Balanovsky O, Khusnutdinova EK, Herrera RJ, Chiaroni J, Bustamante CD, Quake SR, Kivisild T, Villems R. (2015) The phylogenetic and geographic structure of Y-chromosome haplogroup R1a. *Eur J Hum Genet.* 23:124-131. [IF: 4.349]
- 84 - Behar DM, Metspalu M, Baran Y, Kopelman NM, Yunusbayev B, Gladstein A, Tzur S, Sahakyan H, Bahmanimehr A, Yepiskoposyan L, Tambets K, Khusnutdinova EK, Kushniarevich A, Balanovsky O, Balanovsky E, Kovacevic L, Marjanovic D, Mihailov E, Kouvatsi A, Triantaphyllidis C, King RJ, **Semino O**, Torroni A, Hammer MF, Metspalu E, Skorecki K, Rosset S, Halperin E, Villems R, Rosenberg NA. (2013) No evidence from genome-wide data of a Khazar origin for the Ashkenazi Jews. *Hum Biol.* 85:859-900. [IF: -]
- 83 - Rootsi S, Behar DM, Järve M, Lin AA, Myres NM, Passarelli B, Poznik GD, Tzur S, Sahakyan H, Pathak AK, Rosset S, Metspalu M, Grugni V, **Semino O**, Metspalu E, Bustamante CD, Skorecki K, Villems R, Kivisild T, Underhill PA.

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- 82 - Battaglia V, Grugni V, Perego UA, Angerhofer N, Gomez-Palmieri JE, Woodward SR, Achilli A, Myres N, Torroni A, **Semino O.** (2013) The first peopling of South America: new evidence from Y-chromosome haplogroup Q. *PLoS One.* 8:e71390. [IF: 3.534]
- 81 - Achilli A, Perego UA, Lancioni H, Olivieri A, Gandini F, Hooshiar Kashani B, Battaglia V, Grugni V, Angerhofer N, Rogers MP, Herrera RJ, Woodward SR, Labuda D, Smith DG, Cybulski JS, **Semino O,** Malhi RS, Torroni A. (2013) Reconciling migration models to the Americas with the variation of North American native mitogenomes. *Proc Natl Acad Sci U S A.* 110:14308-14313. [IF: 9.809]
- 80 - Olivieri A, Pala M, Gandini F, Hooshiar Kashani B, Perego UA, Woodward SR, Grugni V, Battaglia V, **Semino O,** Achilli A, Richards MB, Torroni A. (2013) Mitogenomes from two uncommon haplogroups mark late glacial/postglacial expansions from the Near East and Neolithic dispersals within Europe. *PLoS One.* 8:e70492. [IF: 3.534]
- 79 - Karachanak S, Grugni V, Fornarino S, Nesheva D, Al-Zahery N, Battaglia V, Carossa V, Yordanov Y, Torroni A, Galabov AS, Toncheva D, **Semino O.** (2013) Y-chromosome diversity in modern Bulgarians: new clues about their ancestry. *PLoS One.* 8:e56779. [IF: 3.534]
- 78 - de Saint Pierre M, Gandini F, Perego UA, Bodner M, Gómez-Carballa A, Corach D, Angerhofer N, Woodward SR, **Semino O,** Salas A, Parson W, Moraga M, Achilli A, Torroni A, Olivieri A. (2012) Arrival of Paleo-Indians to the southern cone of South America: new clues from mitogenomes. *PLoS One.* 7:e51311. [IF: 3.534]
- 77- Bonfiglio S, De Gaetano A, Tesfaye K, Grugni V, Semino O, Ferretti L. (2012) A novel USP9Y polymorphism allowing a rapid and unambiguous classification of *Bos taurus* Y chromosomes into haplogroups. *Anim Genet.* 43:611-613. [IF: 1.779]
- 76 - Grugni V, Battaglia V, Hooshiar Kashani B, Parolo S, Al-Zahery N, Achilli A, Olivieri A, Gandini F, Houshmand M, Hossein Sanati M, Torroni A, **Semino O.** (2012) Ancient migratory events in the Middle East: new clues from the Y-chromosome variation of modern Iranians. *PLoS One.* 7:e41252. [IF: 3.730]
- 75 - Rootsi S, Myres MN, Lin AA, JärveM, King RJ, Kutuev I, Cabrera VM, Khusnutdinova EK, Varendi K, Sahakyan H, Behar D, Khusainova R, Balanovsky O, Balanovska E, Rudan P, Yepiskoposyan L, Bahmanimehr A, Farjadian S, Kushniarevich A, Herrera RJ, Grugni V, Battaglia V, Nici C, Crobu F, Karacanak S, Hooshiar Kashani B, Houshmand M, Sanati HM, Toncheva D, Lisa A, **Semino O,** Chiaroni J, Di Cristofaro J, Villems R, Kivisild K, Underhill PA. (2012) Distinguishing co-ancestries of European and Caucasian human Y-chromosomes within haplogroup G. *Eur J Hum Genet.* 20:1275-1282. [IF 4.319]
- 74 - Pala M, Olivieri A, Achilli A, Accetturo M, Metspalu E, Reidla M, Tamm E, Karmin M, Reisberg T, Hooshiar Kashani B, Perego UA, Carossa V, Gandini F, Pereira JB, Soares P, Angerhofer N, Rychkov S, Al-Zahery N, Carelli V, Sanati MH, Houshmand M, Hatina J, Macaulay V, Pereira L, Woodward SR, Davies W, Gamble C, Baird D, **Semino O,** Villems R, Torroni A, Richards MB. (2012) Mitochondrial DNA signals of late glacial recolonization of Europe from Near Eastern refugia. *Am J Hum Genet.* 90:915-924. [IF: 11.202]
- 73 - Keller A, Graefen A, Ball B, Matzas M, Boisguerin V, Maixner F, Leidinger P, Backes C, Khairat R, Forster M, Stade B, Franke A, Mayer J, Spangler J, McLaughlin S, Shah M 7, Lee C . Harkins TT, Sartori A, Moreno-Estrada A, Henn B, Sikora M, **Semino O,** Chiaroni J, Rootsi S, Myres NM, Cabrera VM, Underhill PA, Bustamante CD, Vigl EE, Samadelli M, Cipollini G, Haas J, Katus H, O' Connor BD, Marc Carlson R.J, Meder B, Blin N, Meese E, Pusch CM, Zink A (2012) New insights into the Tyrolean Iceman's origin and phenotype as inferred by whole-genome sequencing. *Nature Comm.* 3:698. [IF: 10.015]
- 72 - Achilli A, Olivieri A, Soares P, Lancioni H, Kashani BH, Perego UA, Nergadze SG, Carossa V, Santagostino M, Capomaccio S, Felicetti M, Al-Achkar W, Penedo MC, Verini-Supplizi A, Houshmand M, Woodward SR, **Semino O,** Silvestrelli M, Giulotto E, Pereira L, Bandelt HJ, Torroni A. (2012) Mitochondrial genomes from modern horses reveal the major haplogroups that underwent domestication. *Proc Natl Acad Sci U S A.* 109:2449-2454. [IF: 9.737]
- 71 - Hooshar Kashani B, Perego UA, Olivieri A, Angerhofer N, Gandini F, Carossa V, Lancioni H, **Semino O,** Woodward SR, Achilli A, Torroni A. (2012) Mitochondrial haplogroup C4c: a rare lineage entering America through the ice-free corridor? *Am J Phys Anthropol.* 147:35-39. [IF: 2.481]
- 70 - Al-Zahery N, Pala M, Battaglia V, Grugni V, Hamod MA, Kashani BH, Olivieri A, Torroni A, Santachiara-Benerecetti AS, **Semino O.** (2011) In search of the genetic footprints of Sumerians: a survey of Y-chromosome and mtDNA variation in the Marsh Arabs of Iraq. *BMC Evol Biol.* 11:288. [IF: 3.521] **Selected for journal cover**
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- 68 - Achilli A, Olivieri A, Pala M, Hooshiar Kashani B, Carossa V, Perego UA, Gandini F, Santoro A, Battaglia V, Grugni V, Lancioni H, Sirolla C, Bonfigli AR, Cormio A, Boemi M, Testa I, **Semino O,** Ceriello A, Spazzafumo L, Gadaleta

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- 66 - Perego UA, Angerhofer N, Pala M, Olivieri A, Lancioni H, Kashani BH, Carossa V, Ekins JE, Gómez-Carballa A, Huber G, Zimmermann B, Corach D, Babudri N, Panara F, Myres NM, Parson W, **Semino O**, Salas A, Woodward SR, Achilli A, Torroni A. (2010) The initial peopling of the Americas: A growing number of founding mitochondrial genomes from Beringia. *Genome Res*. 20:1174-1179. [IF: 13.588] **Selected for journal cover**
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- 64 - Soares P, Achilli A, **Semino O**, Davies W, Macaulay V, Bandelt HJ, Torroni A, Richards MB. (2010) The Archaeogenetics of Europe. *Curr Biol*. 20:R174-R183. [IF: 10.025]
- 63 - Achilli A, Bonfiglio S, Olivieri A, Malusà A, Pala M, Hooshiar Kashani B, Perego UA, Ajmone-Marsan P, Liotta L, Semino O, Bandelt HJ, Ferretti L, Torroni A. (2009) The multifaceted origin of taurine cattle reflected by the mitochondrial genome. *PLoS One*. 4:e5753. [IF: 4.351]
- 62 - Underhill PA, Myres NM, Rootsi S, Metspalu M, Zhivotovsky LA, King RJ, Lin AA, Chow CE, **Semino O**, Battaglia V, Kutuev I, Järve M, Chaubey G, Ayub Q, Mohyuddin A, Mehdi SQ, Sengupta S, Rogaev EI, Khusnutdinova EK, Pshenichnov A, Balanovsky O, Balanovska E, Jeran N, Augustin DH, Baldovic M, Herrera RJ, Thangaraj K, Singh V, Singh L, Majumder P, Rudan P, Primorac D, Villems R, Kivisild T. (2010) Separating the post-Glacial coancestry of European and Asian Y chromosomes within haplogroup R1a. *Eur J Hum Genet*. 18:479-484. [IF: 3.564]
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