

## **Dr. Carlo Robino – Curriculum vitae (23 settembre 2015)**

Nationality: Italian

Place/date of birth: Turin, 01.05.1970

### **Current position**

- 2011- Assistant Professor of Forensic Medicine, Department of Public Health Sciences and Pediatrics, University of Turin

### **Education**

- 2001 Medical specialist (Forensic Medicine), University of Turin
- 2003-2011 Post-Doctoral Research Scientist, Department of Anatomy, Pharmacology and Legal Medicine, University of Turin

### **Main research activity**

- study of DNA polymorphisms for personal identification purposes
- applications of DNA haploid markers (Y and X chromosomes, mitochondrial DNA) in forensic casework and kinship testing
- development of multiplex PCR assays for the rapid detection of forensically relevant STR/SNP loci

### **Research Performance**

- Publications: 29 publications in refereed international journals (subject categories "Legal Medicine" and "Genetics & Heredity") with over 450 citations, numerous publications in refereed conference proceedings and oral presentations at national and international meetings and conferences.
- Currently supervising 1 postdoctoral researcher

### **Funding ID**

#### **Individual grants**

- 2014- Principal Investigator in the project: "Analysis of coding SNPs to associate body fluids and donors in mixed forensic stains". Agency: CRT Foundation (Turin, Italy)
- 2013 Principal Investigator in the project: "Development of a forensic reference database of RM Y-STR loci in the Italian population". Agency: University of Turin
- 2012- Principal Investigator in the project: "A comprehensive study of the nature and persistence of forensic touch DNA" Agency: Compagnia di San Paolo Foundation/University of Turin
- 2012 Principal Investigator in the project: "Extended Y chromosomal haplotypes: potentialities for male lineage and male relative differentiation". Agency: University of Turin
- 2009 Principal Investigator in the project: "Development of an integrated psychological/medicolegal approach to paternity testing requests from private parties": Agency: Piedmont regional agency for finalized health research
- 2008 Principal Investigator in the project: "Evaluation of an immunochromatographic test for the detection of perpetrator's saliva in intimate samples of sexual assault victims": Agency: Piedmont regional agency for finalized health research
- 2007-2011 Post-doctoral grant. Agency: Compagnia di San Paolo Foundation (Turin, Italy)
- 2003-2006 Post-doctoral grant. Agency: Biomedical Research Foundation (Turin, Italy)

## **Grants as member of research group**

*Grants in which I had a major role in writing the project include:*

- 2008-2009 “Analysis of forensic X-STRs in an Algerian population sample” (principal investigator C Torre) Agency: CRT Foundation/University of Turin (Turin, Italy)
- 2007 “Development of a genetic traceability system for the epidemiological surveillance of swine infectious diseases” (principal investigator C Torre) Agency: Piedmont regional agency for finalized health research

*Other grants obtained as member of research group:*

- 2012- Member of research unit in the project : “Moral judgements, criminal behaviour, and assessment of criminal responsibility (2010RP5RNM\_004)” (principal investigator G Zara) Agency: Italian Ministry of University and Research

## **International cooperation**

- 2015- Visiting Researcher at the University of Mekelle, Ethiopia, project “Towards an Ethiopian population database of forensic markers”
- 2013-2015 National coordinator of the 2013 study of the Italian Working Group (GEFI) of the International Society for Forensic Genetics (ISFG) on rapidly mutating Y-chromosomal STRs in collaboration with the Department of Forensic Molecular Biology, Erasmus MC University Medical Center Rotterdam, Rotterdam, The Netherlands (Prof. M Kayser)
- 2011-2014 International RM Y-STR Study Group
- 2008-2010 Cooperation agreement on the project “Study of human variation in the Algerian population for anthropogenetic and forensic purposes” with the Department of Biotechnologies University of Oran Es-Senia, Algeria (Prof. S Benhamamouch)
- 2001- Contributing member to Y Haplotype Reference Database (YHRD) and EDNAP forensic mtDNA population database (EMPOP) projects

## **List of recent publications**

1. Robino C, Pazzi M, Di Vella G, Martinelli D, Mazzola L, Ricci U, Testi R, Vincenti M. Evaluation of DNA typing as a positive identification method for soft and hard tissues immersed in strong acids. *Legal Medicine* (Tokyo), 2015; doi: 10.1016/j.legalmed.2015.07.004.
2. Robino C, Ralf A, Pasino S, De Marchi MR, Ballantyne KN, Barbaro A, Bini C, Carnevali E, Casarino L, Di Gaetano C, Fabbri M, Ferri G, Giardina E, Gonzalez A, Matullo G, Nutini AL, Onofri V, Piccinini A, Piglionica M, Ponzano E, Previderè C, Resta N, Scarnicci F, Seidita G, Sorçaburu-Cigliero S, Turrina S, Verzeletti A, Kayser M. Development of an Italian RM Y-STR haplotype database: Results of the 2013 GEFI collaborative exercise. *Forensic Science International Genetics*. 2015;15:56-63.
3. Fattorini P, Previdere C, Sorçaburu-Cigliero S, Marrubini G, Alù M, Barbaro A, Carnevali E, Carracedo A, Casarino L, Consoloni L, Corato S, Domenici R, Fabbri M, Giardina E, Grignani P, Baldassarra SL, Moratti M, Pelotti S, Piccinini A, Pitacco P, Plizza L, Resta N, Ricci U, Robino C, Salvaderi L, Scarnicci F, Schneider PM, Seidita G, Trizzino L, Turchi C, Turrina S, Vatta P, Vecchiotti C, Verzeletti A, Stefano FD. The molecular characterisation of a depurinated trial DNA sample can be a model to understand the reliability of the results in forensic genetics. *Electrophoresis*, 2014;35:3134-44.
4. Ballantyne KN, Ralf A, Aboukhalid R, Achakzai NM, Anjos MJ, Ayub Q, Balažić J, Ballantyne J, Ballard DJ, Berger B, Bobillo C, Bouabdellah M, Burri H, Capal T, Caratti S, Cárdenas J, Cartault F, Carvalho EF, Carvalho M, Cheng B, Coble MD, Comas D, Corach D, D'Amato ME, Davison S, de Knijff P, De Ungria MC, Decorte R, Dobosz T, Dupuy BM, Elmrgħni S, Gliwiński M, Gomes SC, Grol L, Haas C, Hanson E, Henke J, Henke L, Herrera-Rodríguez F, Hill CR, Holmlund G, Honda K, Immel UD, Inokuchi S, Jobling MA, Kaddura M, Kim JS, Kim SH, Kim W, King TE, Klausriegler E, Kling D, Kovačević L, Kovatsi L,

- Krajewski P, Kravchenko S, Larmuseau MH, Lee EY, Lessig R, Livshits LA, Marjanović D, Minarik M, Mizuno N, Moreira H, Morling N, Mukherjee M, Munier P, Nagaraju J, Neuhuber F, Nie S, Nilasitsataporn P, Nishi T, Oh HH, Olofsson J, Onofri V, Palo JU, Pamjav H, Parson W, Petlach M, Phillips C, Ploski R, Prasad SP, Primorac D, Purnomo GA, Purps J, Rangel-Villalobos H, Rębała K, Rerkamnuaychoke B, Gonzalez DR, Robino C, Roewer L, Rosa A, Sajantila A, Sala A, Salvador JM, Sanz P, Schmitt C, Sharma AK, Silva DA, Shin KJ, Sijen T, Sirker M, Siváková D, Skaro V, Solano-Matamoros C, Souto L, Stenzl V, Sudoyo H, Syndercombe-Court D, Tagliabracci A, Taylor D, Tillmar A, Tsybovsky IS, Tyler-Smith C, van der Gaag KJ, Vanek D, Völgyi A, Ward D, Willemse P, Yap EP, Yong RY, Pajnič IZ, Kayser M. Toward male individualization with rapidly mutating y-chromosomal short tandem repeats. *Human Mutation*, 2014;35:1021-32.
5. Purps J, Siegert S, Willuweit S, Nagy M, Alves C, Salazar R, Angustia SM, Santos LH, Anslinger K, Bayer B, Ayub Q, Wei W, Xue Y, Tyler-Smith C, Bafalluy MB, Martínez-Jarreta B, Egyed B, Balitzki B, Tschumi S, Ballard D, Court DS, Barrantes X, Bäßler G, Wiest T, Berger B, Niederstätter H, Parson W, Davis C, Budowle B, Burri H, Borer U, Koller C, Carvalho EF, Domingues PM, Chamoun WT, Coble MD, Hill CR, Corach D, Caputo M, D'Amato ME, Davison S, Decorte R, Larmuseau MH, Ottoni C, Rickards O, Lu D, Jiang C, Dobosz T, Jonkisz A, Frank WE, Furac I, Gehrig C, Castella V, Grskovic B, Haas C, Wobst J, Hadzic G, Drobnic K, Honda K, Hou Y, Zhou D, Li Y, Hu S, Chen S, Immel UD, Lessig R, Jakovski Z, Ilievska T, Klann AE, García CC, de Knijff P, Kraaijenbrink T, Kondili A, Miniati P, Vouropoulou M, Kovacevic L, Marjanovic D, Lindner I, Mansour I, Al-Azem M, Andari AE, Marino M, Furfuro S, Locarno L, Martín P, Luque GM, Alonso A, Miranda LS, Moreira H, Mizuno N, Iwashima Y, Neto RS, Nogueira TL, Silva R, Nastainczyk-Wulf M, Edelmann J, Kohl M, Nie S, Wang X, Cheng B, Núñez C, Pancorbo MM, Olofsson JK, Morling N, Onofri V, Tagliabracci A, Pamjav H, Volgyi A, Barany G, Pawlowski R, Maciejewska A, Pelotti S, Pepinski W, Abreu-Glowacka M, Phillips C, Cárdenas J, Rey-Gonzalez D, Salas A, Brisighelli F, Capelli C, Toscanini U, Piccinini A, Piglionica M, Baldassarra SL, Ploski R, Konarzewska M, Jastrzebska E, Robino C, Sajantila A, Palo JU, Guevara E, Salvador J, Ungria MC, Rodriguez JJ, Schmidt U, Schlauderer N, Saukko P, Schneider PM, Sirker M, Shin KJ, Oh YN, Skitsa I, Ampati A, Smith TG, Calvit LS, Stenzl V, Capal T, Tillmar A, Nilsson H, Turrina S, De Leo D, Verzeletti A, Cortellini V, Wetton JH, Gwynne GM, Jobling MA, Whittle MR, Sumita DR, Wolańska-Nowak P, Yong RY, Krawczak M, Nothnagel M, Roewer L. A global analysis of Y-chromosomal haplotype diversity for 23 STR loci. *Forensic Science International: Genetics*, 2014;12:12-23.
  6. Nothnagel M, Szibor R, Vollrath O, Augustin C, Edelmann J, Geppert M, Alves C, Gusmão L, Vennemann M, Hou Y, Immel UD, Inturri S, Luo H, Lutz-Bonengel S, Robino C, Roewer L, Rolf B, Sanft J, Shin KJ, Sim JE, Wiegand P, Winkler C, Krawczak M, Hering S. Collaborative genetic mapping of 12 forensic short tandem repeat (STR) loci on the human X chromosome. *Forensic Science International: Genetics*, 2012;6:778-784.
  7. Inturri S, Menegon S, Amoroso A, Torre C, Robino C. Linkage and linkage disequilibrium analysis of X-STRs in Italian families. *Forensic Science International: Genetics*, 2011;5:152-154.
  8. Pasino S, Caratti S, Del Pero M, Santovito A, Torre C, Robino C. Allele and haplotype diversity of X-chromosomal STRs in Ivory Coast. *International Journal of Legal Medicine*, 2011;125:749-752.
  9. Bekada A, Benhamamouch S, Boudjema A, Fodil M, Menegon S, Torre C, Robino C. Analysis of 21 X-chromosomal STRs in an Algerian population sample. *International Journal of Legal Medicine*, 2010;124:287-294.
  10. Caratti S, Rossi L, Sona B, Origlia S, Viara S, Martano G, Torre C, Robino C. Analysis of 11 tetrameric STRs in wild boars for forensic purposes. *Forensic Science International: Genetics*, 2010;4:339-42.