

Curriculum Vitae et Studiorum of  
**Marco Pellegrini**

Istituto di Informatica e Telematica del C.N.R.  
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**MACRO-AREA OF INTEREST**

Information and Communication Technology (ICT)

**RESEARCH INTERESTS**

Applications of Algorithmic Techniques in Computational Biology, Information Retrieval, Computer Graphics, Computational Physics, and Networking. Design and Analysis of Algorithms, Computational Geometry, Computational Complexity.

**EDUCATION**

1986-1991	<b>New York University</b> Ph.D. in Computer Science. February 1991. Thesis title: "Combinatorial and Algorithmic Analysis of Stabbing and Visibility Problems in 3-Dimensional Space". Subjects: Computational Geometry, Combinatorial Geometry, Analysis of algorithms. Thesis Advisor Prof. Richard Pollack.	New York, NY
1986-1988	<b>New York University</b> M.Sc. in Computer Science.	New York, NY
1980-1986	<b>Politecnico of Milano</b> Laurea in Electronic Engineering (Magna cum Laude) Major Software Engineering. Thesis Advisor Prof. Carlo Ghezzi.	Milan, Italy

**CURRENT ACADEMIC/RESEARCH EMPLOYMENT**

1999-	<b>C.N.R.</b> National Research Council (C.N.R.). Senior Researcher. From 1999 to 2002 at the Institute for Computational Mathematics (I.M.C). From 2002 to present at the Institute of Informatics and Telematics (I.I.T.)	Pisa, Italy
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**PAST ACADEMIC/RESEARCH EMPLOYMENT**

1995-1999	<b>C.N.R.</b> National Research Council (C.N.R.), Researcher	Pisa, Italy
1991-1995	<b>King's College</b> Lecturer in Computer Science	London, U.K.
1991-1992	<b>International Computer Science Institute</b>	Berkeley, CA

		Post Doctoral Researcher (September 1991-February 1992)	
1988-1991	<b>Courant Institute of Mathematical Sciences</b>		New York, NY
<b>PROJECT MANAGEMENT</b>			
2017-2019	<b>MIUR - Ministero dell'Istruzione, dell'Università e della Ricerca</b>		
	Project: "The role of tandem repeats in neurodegenerative diseases: a genomic and proteomic approach". Total Budget 300,000 Euro. Unit PI. (call PRIN - Research Projects of National Relevance)		
2017-2020	<b>Istituto Toscano Tumori</b>		
	Project "Eligibility of miRNAs modified by docetaxel in prostate cancer cells to plasma biomarkers in patients responsive and no more responsive to docetaxel". Total Budget 245,000 Euro. Unit PI.		
2013-2016	<b>Istituto Toscano Tumori</b>		
	Project "The isolation and validation of miRNA/mRNA complexes to identify genes and pathways targeted by tumor suppressor miRNAs in prostate cancer cells". Total Budget 440,000 Euro. Unit PI.		
2014-2016	<b>Arisla - Fondazione Italiana di Ricerca per la Sclerosi Laterale Amiotrofica</b>		
	Project <i>RepeataLS</i> - Genome-wide analysis of DNA tandem repeats in ALS: the role of Repeatome. Total Budget 170,000. Unit PI.		
2012-2016	<b>MIUR Flag Project InterOmics</b>		
	Principal Investigator for the IIT Research unit. Financed by MIUR - Ministry of Education, University and Research. Budget for IIT 300,000 Euro in 2012. Unit PI.		
2012-	<b>Laboratory LISIM (Laboratory for Integrative System Medicine)</b>		Pisa
	Joint Laboratory financed by the Istituto di Informatica e Telematica of CNR and by the Istituto di Fisiologia Clinica of CNR (Research Agreement prot. IIT 0001696 of 14-March-2012). Principal Investigator for IIT. Initial Endowment 350,000 Euro.		
2010-2012	<b>Regional Project POR Toscana 'BINET: Business Intelligence through Social Networks'</b>		Pisa
	Principal Investigator of the IIT Research Unit. Budget IIT 160,000 Euro.		
2008-2011	<b>European Network of Excellence Virtual Physiological Human (VPH)</b>		
	Network of Excellence Virtual Physiological Human (VPH), contract n. 223920, VII PQ. Coordinator of the CNR unit in partnership with ERCIM (European Research Consortium for Informatics and Mathematics). Budget for CNR: 37,065 Euro		

2002-2006	<b>European Research and Training Network COMBSTRU</b> Coordinator of IIT activities in the EU Project COMBSTRU “Combinatorial Structure of Intractable Problems” (EU HPRN-CT-2002-00278). Budget IIT: 125,000 Euro. (PI CNR Dr. Bruno Codenotti)
1998	<b>CNR Coordinated Projects</b> Principal co-Investigator for IMC in the project: “Libreria per applicazioni in modellazione geometrica”. Budget IMC: Lire 15,000,000. (equiv. 7,500 Euro)
1997	<b>CNR Coordinated Projects</b> Principal co-Investigator for IMC in the project: “Modelli multirisoluzione per visualizzazione di campi multidimensionali”. Budget IMC: Lire 5,000,000. (equiv. 2,500 Euro)
1993-1994	<b>King's College Strategy and Equipment Funds</b>  “Principal co-investigator”. Total Budget 49,000 UK Pounds for the project “Sensor Guided Automated Path Planning for Robot Manipulators”, with Dr. L.D. Seneviratne (Dept. of Mechanical Engineering), Dr. S.A. Velastin and Mr. D.A. Fraser (Dept of Electronic Engineering)

#### **REVISION OF INTERNATIONAL AND NATIONAL PROJECTS**

2015-2016	<b>MISE - Italian Ministry for Economic Development</b>	Rome, Italy
	Project reviewer for the ”Italian Digital Agenda” Programme	
2009-2014	<b>European Commission (DG INFSO)</b>	Bruxelles, Belgium
	Periodic Review of project progress for several IP and STREP projects of the 7th FP for the years 2009-2014.	
2009	<b>European Commission (DG INFSO)</b>	Bruxelles, Belgium
	Review of several STREP project proposals for the 7th FP.	
2008	<b>University of Padova</b>	Padova, Italy
	Review of Research Proposals.	
2008	<b>Israel Science Foundation - ISF</b>	Tel Aviv, Israel
	Referee of Research proposals	
2004-2007	<b>FWF - Fonds zur Förderung der wissenschaftlichen Forschung</b>	Wien, Austria
	Member of the review committee for the project “Industrial Geometry” (2004 and 2007) .	
1997	<b>National Science Foundation USA</b>	Washington DC, USA
	Referee of the research proposal “Potential of mean force approach for modelling of protein-protein interactions”.	

## **LEADERSHIP OF RESEARCH GROUPS**

2012-	<b>CNR</b> Coordinator of the IIT-CNR unit of LISM (Laboratory for Integrative Systems Medicine) in partnership with IFC-CNR.	Pisa
2008-	<b>IIT-CNR</b> Coordinator of the WebAlgo Group of IIT <a href="http://webalgo.iit.cnr.it/">http://webalgo.iit.cnr.it/</a>	Pisa
2007-	<b>IIT-CNR</b> Coordinator of the BioAlgo Group of IIT. <a href="http://bioalgo.iit.cnr.it/">http://bioalgo.iit.cnr.it/</a>	Pisa
2005-2014	<b>IIT-CNR</b> Leader of the Activity: INT.P02.003.003 Algoritmica per Bioinformatica.	Pisa
2002-2004	<b>IIT-CNR</b> Coordinator of the Computational Mathematics Research Group of IIT (during Sabbatic of Dr. Bruno Codenotti.)	Pisa

## **OTHER MANAGERIAL TASKS**

2004-2010	<b>Research Consortium "Gran Sasso"</b> Representative of C.N.R. in the Technical Scientific Committee.	Gran Sasso, Italy
2003-	<b>Consortium DIMATIA (Discrete Mathematics Theoretical Computer Science and Applications)</b> Representative of IIT-CNR in the DIMATIA Consortium.	Prague, Check Rep.
2002-	<b>IIT-CNR</b> Member of the Institute Management Committee.	Pisa, Italy
1995-2002	<b>IMC-CNR</b> Member of the Scientific Committee of the Institute for Computational Mathematics of C.N.R.	Pisa, Italy
1992-1995	<b>King's College</b> Deputy Director of the Master in Advanced Computing (1992-1992), Member of the Library Committee of the School of Science and Engineering (1993-1994), Member of the Academic Policy Committee of the School of Science and Engineering (1995), Member of the Finance Committee of the school of Science and Engineering (1993-1994).	London, U.K.

## **SERVICE ACTIVITIES**

2017-	<b>BITS Società Italiana di Bioinformatica</b> Member of the Steering Committee	Rome, Italy
2017	<b>The 11th International AAAI Conference on Web and Social Media - ICWSM 2017</b> Member of the Program Committee	Montreal Canada

2017	<b>European Conference on Combinatorics, Graph Theory and Applications - EUROCOMB 2017</b> Member of the Program Committee	Vienna, Austria
2017	<b>BIOINFORMATICS 2017</b> Member of the Program Committee	Porto, Portugal
2016	<b>BIOINFORMATICS 2016</b> Member of the Program Committee	Rome, Italy
2015	<b>Frontiers</b> Associated Editor for "Frontiers in Bioinformatics and Computational Biology"	Lausanne, Switzerland
2015	<b>WWW2015 - 24th International World Wide Web Conference</b> Member of the Local Organizing Committee	Firenze, Italy
2015	<b>Eurocomb 2015 - European Conference on Combinatorics, Graph Theory and Applications</b> Member of the Program Committee	Bergen, Norway
2015	<b>BIOINFORMATICS 2015</b> Member of the Program Committee	Lisbon, Portugal
2014	<b>Frontiers</b> Guest Editor of Frontiers Research Topic on "Repetitive structures in biological sequences: algorithms and applications"	Lausanne, Switzerland
2014-	<b>Tuscany Bioinformatics Days - Bioinformatiha</b>  Member of steering committee. Local chair in 2014.	Pisa
2014	<b>8th International AAAI Conference on Weblogs and Social Media (ICWSM)</b> Member of the Program Committee	Ann Arbor, Michigan
2014	<b>BIOINFORMATICS 2014</b> Member of the Program Committee	Eseo, France
2014	<b>WWW2014 (Track on Social Networks and Graph Analysis)</b> Member of the Program Committee	Seoul, South Korea
2014	<b>Ph.D Committee of Beatrice Donati, Université Claude Bernard Lyon 1.</b> Member	Lyon, France

2013	<b>Eurocomb 2013 - European Conference on Combinatorics, Graph Theory and Applications</b> General Chair and Program Committee co-chair	Pisa
2012	<b>Workshop “Geometry, Structure and Randomness in Combinatorics” September 3-7, 2012</b> Co-organizer in partnership with “Centro di Ricerca Matematica Ennio De Giorgi” of Scuola Normale Superiore.	Pisa
2012	<b>Workshop BINet 2012: Workshop on Business Intelligence and Network Analysis. 26 January 2012</b> Co-Chair of the Organizing Committee	Pisa
2012	<b>SPIRE 2012: 19th International Symposium on String Processing and Information Retrieval, 21-25 Ottobre 2012.</b> Member of the Program Committee	Cartagena, Colombia
2011	<b>BITS 2011: 8th Annual Meeting of the Bioinformatics Italian Society. 20-22 Giugno 2011.</b>  Co-Chair of the Organizing Committee and Member of the Scientific Committee	Pisa
2011	<b>IC3 2011: 4th International Conference on Contemporary Computing, Jaypee Institute of Information Technology, 6-8 Agosto 2011</b> Member of the Program Committee	Uttar Pradesh, India
2011	<b>SPIRE 2011: 18th International Symposium on String Processing and Information Retrieval. 17-21 October 2011</b> Member of the Program Committee	Pisa
2011	<b>Eurocomb 2011: European Conference on Combinatorics, Graph Theory and Applications. 29 August - 2 September 2011</b> Member of the Program Committee	Budapest, Hungary
2011	<b>Bioinformatics 2011 - International Joint Conference on Biomedical Engineering Systems and Technologies 2011</b> Chair of the Programme Committee	Roma, Italy
2011	<b>Symposium on Theoretical Aspects of Computer Science (STACS 2011)</b>	Dortmund, Germany

	Program committee member.	
2010	<b>Future Media Internet Coordination Action of the 7th FP</b> Member of the Task Force on the Future Media Internet	
2009	<b>European Conference on Combinatorics, Graph Theory and Applications (Eurocomb 09)</b> Program committee member.	Bordeaux, France
2008	<b>Nettab 2008 - Bioinformatics Methods for Biomedical Complex System Applications</b> Member of the Scientific committee .	Varennna, Italy
2008	<b>Ph.D Committee of Libertad Tansini, Chalmers University of Technology</b> Opponent.	Goteborg, Sweden
2007	<b>European Conference on Combinatorics, Graph Theory and Applications (Eurocomb 07)</b> Program committee member.	Seville, Spain
2006	<b>COMBSTRU School in Computational Complexity (CSCC06)</b> Organizer.	Bertinoro, Italy
2006	<b>Workshop on Algorithmic and Numerical Aspects in Web Search (ANAW)</b> Organizer.	Pisa, Italy
2006	<b>Ph.D. Committee of Johan Karlsson at Lulea University</b> Opponent.	Lulea, Sweden
2005	<b>Association for Computing Machinery</b> 21st ACM Annual Symposium on Computational Geometry (ACM SoCG05). Organization Co-Chair.	Pisa, Italy
2005	<b>Workshop Massive 2005</b> Organizer.	Pisa, Italy
2004	<b>2nd COMBSTRU Workshop on Algorithms and Combinatorics</b> Organization Chair.	Venice, Italy
2000	<b>European Association for Theoretical Computer Science</b> European Symposium on Algorithms (ESA2000). Program Committee Member.	Saarbruecken, Germany

1994	<b>Association for Computing Machinery</b>	Saarbruecken, Germany
	12th ACM Annual Symposium on Computational Geometry (ACM SoCG94).	
	Program Committee Member.	
	Referee for "Plos One", "Bioinformatics", "ACM Transactions on Computer Graphic", "ACM Transactions on Computer Systems", "Algorithmica", "Applied Mathematics Letters", "Calcolo", "Computational Geometry, Theory and Applications", "Discrete & Computational Geometry", "Information Processing Letters", "Journal of Computational Physics", "Journal of Discrete Algorithms", "Nordic Journal of Computing". "Parallel algorithms and applications", "SIAM Journal on Computing", "The Computer Journal", "Theoretical Computer Science", "Journal of experimental Algorithm", "Computer & Graphics", "International Journal of Computational Geometry and Applications", "IEEE Transactions on Computing", "IEEE Journal on Selected Areas in Communications", "Journal of Computational Biology".	
	Referee for ACM SoCG 2001, ACM Solid Modelling 1999, ESA 2002, ESA 2004, ESA 2006, ESA 2007, Eurographics 1999, Eurographics 2002, ICALP 1998, Latin 2004, Pacific Graphics 2001, STACS 1996, STACS 1998, STACS 2004, SWAT 2000, WADS 1997, WADS 2001, WAE 2001, WOAO 2006.	
	Member of ACM and BITS (Bioinformatics Italian Society).	
	Member of the Italian Interuniversity Mathematical School (SMI).	

## TEACHING

2005-2008	<b>University of Pisa</b>	Pisa, Italy
	Dept. of Computer Science. Course in Computational Geometry	
2004	<b>University of Pisa</b>	Pisa, Italy
	Graduate Course in "Randomized methods in Computational Geometry".	
2004	<b>University of Parma</b>	Parma, Italy
	Undergraduate course in Operating Systems.	
2002-2003	<b>University of Parma</b>	Parma, Italy
	Undergraduate Course in Algorithms and Data Structures.	
2000	<b>University of Pisa</b>	Pisa, Italy
	Graduate Course in "Randomized methods in Computational Geometry".	
1999	<b>University of Florence</b>	Florence, Italy
	Dept. of Mathematics. Course in Computational Geometry	
1997-1998	<b>University of Pisa</b>	Pisa, Italy
	Dept. of Computer Science. Course in Computational Geometry	

1996	<b>Cornell University, Department of Computer Science</b>	Ithaca, NY
	Graduate course in Algorithms and Data Structures	
1995	<b>Scuola Matematica Interuniversitaria</b>	Cortona, Italy
	Summer Post-graduate school on Computational Complexity: Course on randomized methods in computational geometry	
1992-1995	<b>King's College</b>	London, U.K.
	Graduate courses in: Computational Geometry, Algorithms for VLSI, Design and Analysis of Algorithms. Undergraduate course in Design and Analysis of Algorithms	

#### OTHER PROFESSIONAL ACTIVITIES

1987	<b>Enidata</b>	Roma, Italia
	Development of a Prolog Interpreter in SETL.	

#### HONORS

1989-1991	<b>Courant Institute</b>	New York, USA
	Research Assistantship.	
1986	<b>IBM-Italia</b>	Roma, Italia
	IBM Prize for Best Thesis in the area Software Engineering and Programming Languages.	
1986-1990	<b>Enidata</b>	Milano, Italia
	Ph.D. Fellowship for the New York University.	

#### INVITED TALKS AND SEMINARS

*VISTO: VIvisual STOryboard for Web Video Browsing.* Universiy of Bologna, Workshop “SGM@BiCI Search goes Mobile” (April 2008). Andorra, Workshop “The future of web search” (April 2008).

*Extraction and Classification of Dense Communitites in the Web.* Pisa, Laboratories Ask Jeeves. (January 2008). University of Bologna, Workshop “The Future of Web Search” (June 2007). Praga, Sixth Czech-Slovak International Symposium on Combinatorics, Graph Theory, Algorithms and Applications (July 2006). Praga, COMBSTRU Spring Workshop (March 2006).

*FPF-SB and K-boost: scalable algorithms for high-quality microarray gene expression data clustering.* Milan, BioinfoGRID Symposium (December 2007). University of Bologna, ADS 2007 - 3rd Bertinoro Workshop on Algorithms and Data Structures (September 2007). University of Rome ”La sapienza” (January 2008).

*Meta-searching: fast and accurate clustering of web snippets with Armil.* Pisa, Workshop “Algorithmic and Numerical Aspects in Web Search” (ANAW)

(February 2006). Lulea University - Sveden (June 2006).

Introduction to proximity problems in high dimensional geometry. University of Siena (March 2005), University of Parma (December 2004) and University of Rome "La Sapienza" (January 2001).

Fast packet filtering on any number of attributes via point location. University of Bologna, Workshop on Algorithms and Data Structures (June 2003).

Application of Integral Geometry in the Boundary Element Method. University of Parma (May 1998), University of Texas at Austin (September 1998), University of Florence (April 1999) Purdue University (September 1997)

Electrostatics without singularities. AT&T Bell Laboratories (January 1996). New York University (January 1996). MPI Saarbrueken (August 1995).

Fast approximation of form factors. University of Warwick (October 1995), MPI Saarbrueken (August 1995), University of Minnesota (January 1995), New York University (January 1995).

Point location and motion planning among simplices. Polytechnic of Milano (December 1994), I.E.I-C.N.R. Pisa (December 1994), University of Padova (December 1994), University of Rome I, DIS (December 1994), University of Minnesota (May 1994).

Ray shooting and intersection of non convex polyhedra. ICSI Berkeley (June 1993) University of Rome "La Sapienza" (April 1992). University of L'Aquila (April 1992). I.E.I- C.N.R. Pisa (April 1992). New York University (February 1992). Stanford University (January 1991).

Finding Stabbing lines in 3-space. ICSI, Berkeley (October 1991), AT&T Bell Labs (March 1991).

## VISITING POSITIONS

### **Charles University**

Visiting Scientist (July 2001)

Prague, Check Rep.

### **Max Plank Institute fuer Informatik**

Visiting Scientist (August 1995)(September 2000)

Saarbrueken, Germany

### **University of Texas at Austin**

Visiting scientist (July 1999)

Austin, TX

### **Purdue University**

Visiting Scientist, (September 1998)

West Lafayette, IN

### **Cornell University**

Visiting lecturer (June-July 1997)

Ithaca, NY

### **Duke University**

Visiting Scientist (September 1996)

Durham, NC

**International Computer Science Institute** Berkeley, California  
Senior Visiting Scientist (July-August 1993) (August-September 1997) (July-August 1998)

## PUBLICATIONS

### Editorial activities

1. **Marco Pellegrini**, Alberto Magi, Costas Iliopoulos (eds.) Repetitive Structures in Biological Sequences: Algorithms and Applications. Lausanne: Frontiers Media. doi: 10.3389/978-2-88945-018-3, 2016. ISBN: 9782889450183
2. **Marco Pellegrini**, Alberto Magi, Costas Iliopoulos. Repetitive structures in biological sequences: open challenges. *Front. Bioeng. Biotechnol.* 4:66, July 2016. doi: 10.3389/fbioe.2016.00066
3. Jaroslav Nesetril, **Marco Pellegrini** (eds). Selected papers of Eurocomb 2013 Special Issue of the European Journal of Combinatorics. Volume 48, August 2015, pp 1-234. Elsevier. ISSN 0195-6698.
4. Jiri Matousek, Jaroslav Nesetril, **Marco Pellegrini** (eds). Geometry, Structure and Randomness in Combinatorics Publications of the Scuola Normale Superiore / CRM Series vol 18. 2015. ISBN-13: 9788876425240
5. Jaroslav Nesetril, **Marco Pellegrini** (eds). The Seventh European Conference on Combinatorics, Graph Theory and Applications: EuroComb 2013 Publications of the Scuola Normale Superiore / CRM Series. 2013. ISBN-13: 978-8876424748.
6. **M. Pellegrini**, A. L. N. Fred, J. Filipe e H. Gamboa (eds). BIOINFORMATICS 2011 - Proceedings of the International Conference on Bioinformatics Models, Methods and Algorithms, Rome, Italy, 26-29 January, 2011 SciTePress 2011. ISBN 978-989-8425-36-2.
7. F. Geraci, R. Marangoni, **M. Pellegrini** e M. Elena Renda (eds). Proceedings of the 8th Annual Meeting of the Bioinformatics Italian Society, BITS 2011, Pisa, Italy. June 2011. ISBN 978-884673069-5.

### Book Chapters

8. Francesco Russo, Kirstine Belling, Anders Boeck Jensen, Flavia Scoyni, Sren Brunak, **Marco Pellegrini** MicroRNAs, Regulatory Networks, and Comorbidities: Decoding Complex Systems In MicroRNA Detection and Target Identification: Methods and Protocols, 2017, Springer New York, ISBN 978-1-4939-6866-4

9. **M. Pellegrini.** Ray shooting and lines in space In Handbook of Discrete and Computational Geometry - third edition Csaba D. Toth, Jacob E. Goodman and Joseph O'Rourke (eds.). Chapman & Hall/CRC Press, Boca Raton, Florida. ISBN 9781498711395. 2017. Forthcoming.
10. Francesco Russo, Flavia Scovni, Alessandro Fatica, **Marco Pellegrini**, Alfredo Ferro, Alfredo Pulvirenti and Rosalba Giugno. Circulating Non-Coding RNAs as Clinical Biomarkers In **Epigenetic Biomarkers and Diagnostics** , Elsevier, 2015, ISBN 9780128018996
11. **M. Pellegrini.** Ray-shooting and Lines in Space. In **The CRC Handbook of Discrete and Computational Geometry - second edition**, editori J. O'Rourke e J. Goodman. CRC Press, Boca Raton, Florida, pp. 839-856, 2004.
12. **M. Pellegrini.** Measuring Lines in Space - a Collection of Results In Homenatge al professor Llus Santal , Carles Barcelo i Vidal (ed). University of Girona, Girona, Spain, pp. 99-111, 2002.
13. **M. Pellegrini.** Ray-shooting and Lines in Space. In **The CRC Handbook of Discrete and Computational Geometry**, editori J. O'Rourke e J. Goodman. CRC Press, Boca Raton, Florida, pp. 599-614, 1997.

## International Journals

14. Milena Rizzo, Gabriele Berti, Francesco Russo, Sofia Fazio, Monica Evangelista, Romina D'Aurizio, **Marco Pellegrini**, Giuseppe Rainaldi. Discovering the miR-26a-5p Targetome in Prostate Cancer Cells. *Journal of Cancer*. 2017; 8(14): 2729-2739. doi: 10.7150/jca.18396 (in print)
15. Lorenzo Bascetta, Arianna Oliviero, Romina D'Aurizio, Monica Evangelista, Alberto Mercatanti, **Marco Pellegrini**, Francesca Marrocolo, Sergio Bracarda, Milena Rizzo. The Prostate Cancer Cells Resistant to Docetaxel as in vitro Model for Discovering MicroRNAs Predictive of the Onset of Docetaxel Resistance. *Int. J. Mol. Sci.* 2017, 18(7), 1512; doi:10.3390/ijms18071512.
16. Marianna Vitiello, Andrea Tuccoli, Romina D'Aurizio, Samanta Sarti, Laura Giannecchini, Simone Lubrano, Andrea Marranci, Monica Evangelista, Silvia Peppicelli, Chiara Ippolito, Ivana Barravecchia, Elena Guzzolino, Valentina Montagnani, Michael Gowen, Elisa Mercoledi, Alberto Mercatanti, Laura Comelli, Salvatore Gurrieri, Lawrence W Wu, Omotayo Ope, Keith Flaherty, Genevieve M Boland, Marc R Hammond, Lawrence Kwong, Mario Chiariello, Barbara Stecca, Gao Zhang, Alessandra Salvetti, Debora Angeloni, Letizia Pitto, Lido Calorini, Giovanna Chiorino, **Marco Pellegrini**, Meenhard Herlyn, Iman Osman, Laura Poliseno. Context-dependent miR-204 and miR-211 affect the biological properties of amelanotic and melanotic melanoma cells. *Oncotarget*, vol 8, issue 15, pages 2539525417, 2017. doi: 10.18632/oncotarget.15915

17. R. D'Aurizio, T. Pippucci, L. Tattini, B. Giusti, **M. Pellegrini**, A. Magi. Enhanced copy number variants detection from whole-exome sequencing data using EXCAVATOR2. *Nucleic Acids Research* , 2016. doi: 10.1093/nar/gkw695. Aug. 2016.
18. Romina D'Aurizio, Francesco Russo, Elena Chiavacci, Mario Baumgart, Marco Groth, Mara D'Onofrio, Ivan Arisi, Giuseppe Rainaldi, Letizia Pitto, **Marco Pellegrini**. Discovering miRNA regulatory networks in Holt-Oram Syndrome using a Zebrafish model. *Front. Bioeng. Biotechnol.* 14 July 2016, 4:60. doi: 10.3389/fbioe.2016.00060
19. **M. Pellegrini**, M. Baglioni, F. Geraci. Protein complex prediction for large protein-protein interaction networks with the Core&Peel Method. *BMC Bioinformatics* 17(S-12): 37-58 (2016). doi: <http://dx.doi.org/10.1101/053876>.
20. Monica Evangelista, Mariama El Baroudi, Milena Rizzo, Andrea Tuccoli, Laura Poliseno, **Marco Pellegrini**, Giuseppe Rainaldi Alkaline Phosphatase-Positive Immortal Mouse Embryo Fibroblasts Are Cells in a Transitional Reprogramming State Induced to Face Environmental Stresses. In *Genetics & epigenetics* . Vol 7. pages 33-45, 2015
21. Elena Chiavacci, Romina DAurizio, Elena Guzzolino, Francesco Russo, Mario Baumgart, Marco Groth, Laura Mariani, Mara DOnofrio, Ivan Arisi, **Marco Pellegrini**, Alessandro Cellerino, Federico Cremisi, Letizia Pitto MicroRNA 19a replacement partially rescues fin and cardiac defects in zebrafish model of Holt Oram syndrome. *Scientific Reports* 5, art. num 18240 (2015). doi:10.1038/srep18240
22. **M. Pellegrini**. Tandem Repeats in Proteins: Prediction Algorithms and Biological Role. *Front Bioeng Biotechnol.* 2015; 3: 143. doi: 10.3389/fbioe.2015.00143. Sept 2015.
23. M Schirripa, F Loupakis, C Cremolini, L Poliseno, L Salvatore, A Tuccoli, C Antoniotti, R D'Aurzio, F Marmorino, B Borelli, D Rossini, A Saettini, S Gini, R Moretto, I Rizzo, E Dell'Aquila, **M. Pellegrini**, A Falcone P-198Circulating microRNAs in metastatic colorectal cancer (mCRC) patients treated with regorafenib. *Annals of Oncology* 26, suppl 4, pages iv57, June 2015
24. M. Baglioni, F. Russo, F. Geraci, M. Rizzo, G. Rainaldi and **M. Pellegrini**. A new method for finding disease-specific miRNA-target regulatory networks. *Plos One*. 10(4): e0122473. doi:10.1371/journal.pone.0122473 April 2015.
25. Andrea Marranci, Andrea Tuccoli, Marianna Vitiello, Elisa Mercoledi, Samanta Sarti, Simine Lubrano, Monica Evangelista, Antonella Fogli, Camilo Valdes, Francesco Russo, Massimo Dal Monte, Maria Adelaide Caligo, **Marco Pellegrini** , Enrico Capobianco, Nicholas Tsinoremas and Laura Poliseno. Identification of BRAF 3UTR isoforms in melanoma. *Journal of Investigative Dermatology*. 2015 Jun;135(6):1694-7. doi: 10.1038/jid.2015.47
26. M. Leoncini, M. Montangero, **M. Pellegrini**, K. P. Tillan. CMStalker: a combinatorial tool for composite motif discovery. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*. IEEE/ACM Transactions on Computational Biology and Bioinformatics Epub Nov 2014. doi: 10.1109/TCBB.2014.2359444

27. Francesco Russo, Sebastiano Di Bella, Vincenzo Bonnici, Alessandro Laganà; Giuseppe Rainaldi, **Marco Pellegrini**, Alfredo Pulvirenti, Rosalba Giugno, Alfredo Ferro. A knowledge base for the discovery of function, diagnostic potential and drug effects on cellular and extracellular miRNAs. *BMC Genomics* 15(Suppl 3), S4, 2014.
28. M. Baglioni, F. Geraci, **M. Pellegrini**, E. Lastres. Fast exact and approximate computation of betweenness centrality in social networks State of the Art Applications of Social Network Analysis. In the series Lecture Notes in Social Networks 2014, pages 53-73, Springer International Publishing.
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## Other Publications

93. F. Geraci, **M. Pellegrini**. Accurate Reconstruction of Single Individual Haplotypes for Personalized Medicine. *ERCIM News* 2010(81): 0 (2010).
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## Forthcoming publications

102. Gabriele Berti, Francesco Russo, Milena Rizzo, Giuseppe Rainaldi, Monica Evangelista, **Marco Pellegrini**. The miRNA pull out assay as a method to validate the miR-28-5p targets identified in other tumor contexts in prostate cancer. *International Journal of Genomics*. Hindawi. 2017 (accepted)

## SOFTWARE AND WEB-BASED SERVICES

**Core&Peel**. Protein Complex Prediction in Large protein Interaction Networks. <http://bioalgo.iit.cnr.it/index.php?pg=ppin>

**AST**. A data structure for IP Table lookups.  
<http://psp1.iit.cnr.it/~mcsoft/ast/ast.html>

**G-filter.** A data structure for Internet packet filtering.  
<http://psp1.iit.cnr.it/~mcsoft/g-filter/g-filter.html>

**AMIC@.** A tool for multi-clustering of microarray gene expression data.  
<http://bioalgo.iit.cnr.it/amica>.

**TReaDS.** A tool for meta-searching tandem Repeats in Biological sequences.  
<http://bioalgo.iit.cnr.it:8080/TRSearch/index.html>

**ReHap.** A Web application with a common interface over 5 algorithms for haplotype reconstruction from shotgun sequencing fragments data.  
<http://bioalgo.iit.cnr.it/rehap>

**Armil.** A Tool for meta-searching, clustering and labelling web snippets from Yahoo and Google. <http://armil.iit.cnr.it/>

**VISTO.** A demonstrative tool for producing on-line static storyboards of short videos. <http://visto.iit.cnr.it/>

**Community Watch.** A demonstrative tool for analyzing dense components of the Web Graph. <http://comwatch.iit.cnr.it/>

**CGTutorial.** An on-line java-based demo of several geometric algorithms in 2D and 3D for didactic purposes (Maintained by Massimo Bartoletti)  
<http://cgtutorial.sourceforge.net/>.

Place and date: Pisa, 30/8/2017

Signature: Marco Pellegrini