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Decreto Rettore Università di Roma "La Sapienza" n 765/2018 del 15/03/2018

**GIANFRANCO PICCIRILLO**  
**Curriculum Vitae**

Place Rome

Date 19-03-2018

**Part I – General Information**

Full Name	GIANFRANCO PICCIRILLO
E-mail	<a href="mailto:gianfranco.piccirillo@uniroma1.it">gianfranco.piccirillo@uniroma1.it</a>
Spoken Languages	Italian – English

**Part II – Education**

Type	Year	Institution	Notes (Degree, Experience,...)
University graduation	1986	La Sapienza	
Speciality	1992	Cardiologia –La Sapienza	
PhD in Cardiac Electrophysiology Research	2008	Krannert Institute, Indiana University, Indianapolis, USA	

**Part III – Appointments**

IIIA – Academic Appointments

Start	End	Institution	Position
1990	2001	La Sapienza	Funzionario Tecnico
2001		La Sapienza	Ricercatore Confermato
2005		La Sapienza	Professore Aggregato

IIIB – Other Appointments

Start	End	Institution	Position
1991		Policlinico Umberto Primo- Geriatria	Dirigente Primo livello

**Part IV – Teaching experience**

Year	Institution	Lecture/Course
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2000	Specializzazione Geriatria- La Sapienza	Geriatria
2003	Medicina e Chirurgia – La Sapienza C.L.C	Medicina Interna e Chirurgia II
2003	Medicina e Farmacologia – La Sapienza –Tecniche Ortopediche	Primo Soccorso
2016	Medicina e Chirurgia – La Sapienza C.L.F	Medicina Interna e Chirurgia II
2017	Medicina e Chirurgia – La Sapienza C.L.B	Medicina Interna e Chirurgia II

#### Part V - Society memberships, Awards and Honors

Year	Title
2000	Società Italiana di Cardiologia

#### Part VI - Funding Information [grants as PI-principal investigator or I-investigator]

Year	Title	Program
2002	<b>Variabilità della frequenza cardiaca e della fase di ripolarizzazione, nuovi markers di morte improvvisa</b>	Ricerche di Facoltà "La Sapienza"
2003	<b>Utilizzazione dell'analisi spettrale dell' HRV e della PAS nella riabilitazione di soggetti con sincope vasovagale maligna</b>	Ricerche di Facoltà "La Sapienza"
2004	<b>Influenza del sistema nervoso autonomo sulla progressione della malattia e sulla morte improvvisa nello scompenso cardiaco</b>	Ricerche di Ateneo "La Sapienza"
2005	<b>Stratificazione del rischio di morte improvvisa in soggetti affetti da scompenso cardiaco cronico: nuovi markers. Studio prospettico</b>	Ricerche di Facoltà "La Sapienza"
2006	<b>Perdite di coscienza di natura non epilettica: rilevanza dell'approccio multidisciplinare</b>	Ricerche di Ateneo "La Sapienza"
2006	<b>Influenza dei PUFA n-3 sulla variabilità dell'intervallo RR e sul QT Variability Index</b>	Ricerche di Facoltà "La Sapienza"
2007	<b>Profilassi primaria dell'evento morte cardiaca improvvisa nei pazienti con disfunzione sistolica sinistra di grado moderato: ruolo del QT Variability Index nell'indicazione all'impianto del</b>	Ricerche di Ateneo Federato "La Sapienza"

	<b>defibrillatore. Studio Prospettico"</b>	
2009	<b>QTVI nelle sindromi cerebrovascolari acute</b>	Progetti Universitarie "La Sapienza"
2010	<b>Valutazione dell'Indice della Variabilità del QT in Soggetti con Mutazioni Genetiche Correlate al QT lungo, al QT breve ed alla Sindrome di Brugada</b>	Ricerche Universitarie "La Sapienza"
2011	<b>Valutazione del QT variability index in pazienti con storm elettrico dopo impianto di defibrillatore</b>	Ricerche Universitarie "La Sapienza"
2012	<b>Autonomic Nervous System Influence On Cardiac Arrhythmias Evaluated By Means Direct Nerve Recordings In Human Model</b>	Ricerche Universitarie "La Sapienza"
2013	<b>Improving Sudden Death Risk Stratification in Hypertrophic Cardiomyopathy</b>	Ricerche Universitarie "La Sapienza"
2014	<b>Effects of testosterone replacement therapy on myocardial repolarization dynamic in patients with hypogonadism and mild or moderate heart failure (NYHA I-II)</b>	Ricerche Universitarie "La Sapienza"
2015	<b>Impact of Autonomic Nervous System Imbalance on Arrhythmic Risk in Patients with Hypertrophic Cardiomyopathy</b>	Ricerche Universitarie "La Sapienza"
2017	<b>Finanziamento delle attività base di ricerca</b>	ANVUR n.20/2017 del 15-06-2017

## Part VII – Research Activities

Keywords	Brief Description
Autonomic Nervous System	<p>Since 1990, he has concentrated his research interests on neuroautonomic cardiovascular control and cardiac repolarization (QT variability index in different pathological conditions (including neuro-mediated syncope, heart failure, arterial hypertension, myocardial infarction sudden cardiac death). For this reason, he developed a software for computer-assisted recording of oscillations in heart rate and arterial pressure that analyses the data in various power spectra and calculates baroreflex sensitivity using the classic technique (phenylephrine) or cross-spectral analysis.</p>
Arrhythmias	
Sudden Cardiac Death	
Heart failure	

## Part VIII – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers [international]	98	Google Scholar	1993	2018

Total Impact factor	418,317
Last 10 years Impact Factor	162,965
Total Citations	2630 Google Scholar
Average Citations per Product	26,84 Google Scholar
Hirsch (H) index	32 Google Scholar
Normalized H index*	1,06

\*H index divided by the academic seniority (30 yy).

### Part IX– Selected Publications

1. QT variability strongly predicts sudden cardiac death in asymptomatic subjects with mild or moderate left ventricular systolic dysfunction. Prospective study. Piccirillo G, Magri D, Matera S, Magnanti M, Torrini A, Pasquazzi E, Schifano E, Velitti S, Marigliano V, Quaglione R, Barilla F. *European Heart Journal* 2007 Jun;28(11):1344-1350. (IF: 20.212; cites: 157)
2. Increased QT variability in young asymptomatic patients with beta-thalassemia major. Magri D, Sciomer S, Fedele F, Gualdi G, Casciani E, Pugliese P, Losardo A, Ferrazza G, Pasquazzi E, Schifano E, Magnanti M, Matera S, Marigliano V, Piccirillo G. *Eur Journal Haematology*. 2007 Oct;79(4):322-9. (IF: 2.653; cites: 28)
3. Early impairment of myocardial function in young patients with beta-thalassemia major. Magri D, Sciomer S, Fedele F, Gualdi G, Casciani E, Pugliese P, Losardo A, Ferrazza G, Pasquazzi E, Schifano E, Mussino E, Quaglione R, V, Piccirillo G. *Eur Journal Haematology*. 2008 Jun; 80(6):515-22. (IF: 2.653; cites: 39)
4. Effect of pink grapejuice on QT variability in patients with dilatated or hypertensive cardiomyopathy and healty subjects. Piccirillo G, Magri D, Matera S, Magnanti M, Pasquazzi E, Schifano E, Velitti S, Mitra M, Marigliano V, Paroli E, Ghiselli A *Translational Research* 2008 May; 151(5):267-272. (IF: 4.652; cites: 17)
5. Increase QT variabilità in cerebral autosomal dominant arteriopathy with subcortical infarcs and leukoencephalopathy (CADASIL). Piccirillo G., Magri D, Mitra M, Rufa A, Zicari E, Stromillo ML, De Stefano N, Dotti MT. *European Journal Neurology*. 2008 Nov; 15(11):1216-21. (IF: 3.988; cites: 8)
6. Power Spectral Analysis of Heart Rate Variability and Autonomic Nervous System Activity Measured Directly in Healthy Dogs and Dogs with Tachycardia-Induced Heart Failure Piccirillo G, Ogawa G, Song J, Chong VJ, Joung B, Han S, Magri, Chen LS, Lin SF, Chen PS. *Heart Rhythm* 2009; 6: 546-552. (IF: 4.866; cites: 87)
7. Autonomic nervous system Activity Measured Directly and QT-Interval Variability in Normal and Pacing-Induced Tachycardia Heart Failure Dogs. Piccirillo G, Magri D, Ogawa M, Song J, Chong VJ, Han S, Joung B, Choi EK, Hwang S, Chen LS, Lin SF, Chen PS. *Journal*

American College of Cardiology 2009; vol 54, No.9, 840-850. (IF: 19.896; cites: 94)

8. Mechanisms of sinoatrial node dysfunction in a canine model of pacing-induced atrial fibrillation. Joung B, Lin S-F, Chen Z, Antoun PS, Maruyama M, Han S, Piccirillo G, Stucky M, Zipes DP, Chen PS, Das MK. *Heart Rhythm* 2010 Jan;7(1):88-95. (IF: 4.866; cites: 34)
9. Intrinsic cardiac nerve activity and paroxysmal atrial tachyarrhythmia in ambulatory dogs. Choi EK, Shen MJ, Han S, Kim D, Hwang S, Sayfo S, Piccirillo G, Fishbein MC, Hwang C, Lin SF, Chen PS *Circulation* 2010;121:2615-2623. (IF: 19.309; cites 139)
10. Tachybradycardia in Isolated Canine Right Atrium induced by Chronic Sympathetic Stimulation and Pacemaker Current Inhibition. Joung B, Shinohara T, Zhang H, Kim D, Choi E-K, On Y-K, Piccirillo G, Chen P-S, Lin S-F. *Am J Physiol Heart Circulation Physiology*. 2010 Sep;299(3):H634-42. (IF: 3.348; cites: 13)
11. Endocardial vagal AV node stimulation in humans: reproducibility on 18-month follow-up. P Rossi, S Bianchi, S Valsecchi, D Porcelli, F Sgreccia, A Luciferno, S Canonaco, M Campoli, M Malavasi, G Piccirillo, R Quaglione, P Azzolini. *Europace* 2010 Dec;12(12):1719-24. (IF: 4.530; cites 10)
12. Temporal Dispersion of Myocardial Repolarization and Arrhythmic Risk in Myotonic Dystrophy Type 1: Beyond the Cardiac Conduction System. Magri D, Piccirillo G, Antonini G, Bucci E, Cauti F M, Pignatelli G, Autore C, Volpe M, Testa M. *International Journal of Cardiology* 2012 May 3;156(3):259-64. (IF: 6.189; cites 34)
13. Intracellular Calcium and the Mechanism of Anodal Supernormal Excitability in Langendorff Perfused Rabbit Ventricles. Joung B, Park HW, Maruyama M, Tang L, Song J, Han S, Piccirillo G, Weiss JN, Lin SF, Chen PS. *Circulation Journal*. 2011 Apr;75(4):834-43. (IF: 3.544; cites: 14)
14. Epicardial ganglionated plexus stimulation decreases post-operative inflammatory response in humans. Rossi P, Ricci A, De Paulis R, Papi E, Pavaci H, Porcelli D, Monari G, Maselli D, Bellisario A, Turani F, Nardella S, Azzolini P, Piccirillo G, Quaglione R, Valsecchi S, Bianchi S. *Heart Rhythm*. 2012 Jun;9(6):943-50. (IF: 4.866; cites: 22)
15. Electroanatomic remodeling of the left stellate ganglion after myocardial infarction. Han S, Kobayashi K, Joung B, Piccirillo G, Maruyama M, Vinters HV, March K, Lin SF, Shen C, Fishbein MC, Chen PS, Chen LS. *Journal American College of Cardiology*. 2012 Mar 6;59(10):954-61. (IF: 19.896; cites: 59)
16. Autonomic Nerve Activity and the Short Term Variability of  $T_{peak}-T_{end}$  Interval in Dogs With Pacing-Induced Heart Failure. Piccirillo G, Magri D, Pappadà MA, Ogawa M, Han S, Joung B, Rossi P, BL Nguyen BL, Lin S-F, Chen P-S. *Heart Rhythm*. 2012 Dec; 9(12): 2044-50. (IF: 4.866; cites: 16)
17. Indexes of Temporal Myocardial Repolarization Dispersion and Sudden Cardiac Death in Heart Failure: Any Difference? Piccirillo G, Rossi P, Mitra M, Quaglione R, Dell'Armi A, Di Barba D, Maisto D, Lizio A, Barilla F, Magri D. *Annals of Noninvasive Electrocardiology*. 2013 Mar; 18(2):130-9. (IF:1.852; cites 30)

18. Influence of Aging and Chronic Heart Failure on Temporal Dispersion of Myocardial Repolarization. G Piccirillo, F Moscucci, M Pascucci, MA Pappadà, G D'Alessandro, P Rossi, R Quaglione, D Di Barba, F Barilla, D Magri, *Clinical Interventions in Aging* 2013; 8; 293-300. (IF: 2.581; cites 18)
19. Myocardial repolarization dispersion and autonomic nerve activity in a canine experimental acute myocardial infarction model. Piccirillo G, Moscucci F, D'Alessandro G, Pascucci M, Rossi P, Han S, Chen LS, Lin SF, Chen PS, Magri D. *Heart Rhythm*. 2014, Jan; 11(1):110-8. (IF: 4.866; cites: 20)
20. Myocardial repolarization dispersion and late Gadolinium enhancement in patients with hypertrophy cardiomyopathy. Magri D, De Cecco CN, Piccirillo G, Mastromarino V, Derdoz A, Muscogiuri G, Ricotta A, Gregori M, Marino L, Cauti FM, Pagannone, Musumeci MB, Maruotti A, Autore C. *Circulation Journal*. 2014, 78; No.5: 1216-1223. (IF: 3.544; cites: 13)
21. Intra-QT spectral coherence as a possible non-invasive marker of sustained ventricular tachycardia. G.Piccirillo, F. Moscucci, A.Persi, D.Di Barba, MA Pappadà, P.Rossi, R.Quaglione, BLNguyen, F.Barilla, M.Casenghi, D.Magri. *BioMed Research International*. 2014, Jul 15. (IF: 2.476; cites 5)
22. Effects of Weather on Neurally Mediated Syncope Tests. G. Piccirillo, F. Moscucci, M. Pascucci, D. Di Barba, D. Montesanti, D.Magri. *International Journal of Cardiology* 2014; 176 (3): 1411-3 (IF: 6.189; cites: 1)
23. Aldosterone and testosterone: two steroid hormones structurally related but with opposite electrophysiological properties during myocardial ischemia-reperfusion. J Alexandre, P Milliez, R Rouet, A Manrique, S Allouche, G Piccirillo, M Schiariti, PE Puddu, *Fundamental & Clinical Pharmacology*. 2015 Aug;29(4):341-51. (IF: 2.319; cites 6)
24. Spatial QT Dispersion Predicts Nonsustained Ventricular Tachycardia and Correlates with Confined Systodiastolic Dysfunction in Hypertrophic Cardiomyopathy. Magri D, Piccirillo G, Ricotta A, De Cecco CN, Mastromarino V, Serdoz A, Muscogiuri G, Gregori M, Casenghi M, Cauti FM, Oliviero G, Musumeci MB, Maruotti A, Autore C. *Cardiology*. 2015;131(2):122-9. (IF: 1.256; cites: 4).
25. QT interval variability in body surface ECG: measurement, physiological basis, and clinical value: position statement and consensus guidance endorsed by the European Heart Rhythm Association jointly with the ESC Working Group on Cardiac Cellular Electrophysiology. Baumert M, Porta A, Vos MA, Malik M, Couderc JP, Laguna P, Piccirillo G, Smith GL, Tereshchenko LG, Volders PG. *Europace*. 2016 Jun; 18(6):925-44. (IF: 4.530; cites 44)
26. Transcranial direct current stimulation improves the QT variability index and autonomic cardiac control in healthy subjects older than 60 years. Piccirillo G, Ottaviani C, Fiorucci C, Petrocchi N, Moscucci F, Di Iorio C, Mastropietri F, Parrotta I, Pascucci M, Magri D. *Clinical Interventions in Aging*. 2016 Nov 16;11:1687-1695. (IF: 2.581; cites 1)
27. Time- and frequency-domain analysis of beat to beat P-wave duration, PR interval and RR interval can predict asystole as form of syncope during head-up tilt. Piccirillo G, Moscucci F, Fiorucci C, Di Iorio C, Mastropietri F, Magri D. *Physiological Measurement*. Volume 37, Issue 11, 28 September 2016, Pages 1910-1924. (IF:2.058; cites: 0)

28. Transcranial direct current stimulation enhances soothing positive affect and vagal tone. Petrocchi N, Piccirillo G, Fiorucci C, Moscucci F, Di Iorio C, Mastropietri F, Parrotta I, Pascucci M, Magri D, Ottaviani C. *Neuropsychologia* Volume 96, 1 February 2017, Pages 256-261. (IF: 3.179; cites 3)
29. QT spatial dispersion and sudden cardiac death in hypertrophic cardiomyopathy: Time for reappraisal. Magri D., Santolamazza C, Limite L, Mastromarino V, Casenghi M, Orlando P, Pagannone E, Musumeci MB, Maruotti A, Ricotta A, Oliviero G, Piccirillo G, Volpe M, Autore C. *Journal of Cardiology* December Volume 70, Issue 4, October 2017, Pages 310-315. (IF: 2.452; cites:0)
30. Oscillatory behavior of P wave duration and PR interval in experimental congestive heart failure: a preliminary study. Piccirillo G, Magri D, D'Alessandro G, Fiorucci C, Moscucci F, Di Iorio C, Mastropietri F, Parrotta I, Ogawa M, Lin SF, Chen PS. *Physiol Meas.* 2018 Feb 2. [Epub ahead of print] (IF: 2.058; cites 0).

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