

## Brief CV

**NAME** PARINI Angelo

**DATE OF BIRTH** 13/03/54

### POSITION TITLE

- Professor of Physiology (PRE)- Faculty of Pharmacy – Hospital Practitioner (PH) – CHU Toulouse.
- Director of the U1048 Inserm – Institute of Metabolic and Cardiovascular Diseases, Toulouse
- Team Leader: “Stromal Microenvironment and Heart Failure

### EDUCATION/TRAINING (Master, PhD, Clinical Specialization ... only mention Institution, Degree, Year, Field)

**1980** M.D., University of Pavia (Italy)  
**1982-1983** Post-doctoral fellows, U7 INSERM/UA 318 CNRS, Dept of Vascular and Renal Physiology and Pharmacology, Necker Hospital, Paris (France)  
**1984** Residency in Cardiology, University of Pavia (Italy)  
**1990** Ph.D., University of Paris VI, Paris (France)  
**1992** Diploma of Research Supervisor University of Paris VI, Paris (France)  
**1985-1986** Post-doctoral fellow, Cellular and Molecular Research Laboratory, Massachusetts General Hospital and Harvard Medical School, Boston (U.S.A.).

### A. Positions and Honours

#### 1. Positions and Employment

**1986-1992** Established Investigator U7 INSERM/UA 318 CNRS Paris (France).  
**1993** Research Director CNRS, CNRS 1482, Necker Hospital, Paris (France).  
**1994-2006** Director of U388 INSERM, Toulouse (France).  
**Since 2002** Professor at the University of Pharmacy  
**2007-2010** Director of U858 Inserm - Ranguel Institute of Molecular Medicine – I2MR  
**Since 2011** Director of the U1048 Inserm – Institute of Metabolic and Cardiovascular Diseases, Toulouse

#### 2. Other Experience and Professional Memberships (since 2005)

**Since 2006** Coordinator of the Biomedical Committee of the Midi-Pyrénées Region  
**2006** Member of the National Research Agencies (ANR), Program: Physiopathology of Human Diseases  
**2007** President of the National Research Agencies (ANR), Program: Physiopathology of Human Diseases  
**2007** Member of the Scientific Board of the National Program of Renal Diseases  
**2008-2010** President of the Committee of the French Medical Foundation for the Mesclé Award  
**2008** Vice President of the National Research Agencies (ANR), Program: GENOPATH  
**2009** President of the National Research Agencies (ANR), Program: GENOPATH  
**Since 2010** Member of the Division of the Research Strategy of the Toulouse University  
**2010** Member of the Committee of the French Medical Foundation for the Translational Medicine Program  
**2010-2013** Member de la Direction Stratégique de la Recherche (DSR) UPS de Toulouse  
**Since 2010** Member of the Scientific Committee of Ile-De-France Region for the CORDDIM program.  
**2011** President of the Scientific Committee of the French Medical Foundation for the Cardiovascular Program  
**2011-2013** President of the AERES Scientific Board for evaluation of Research Unit projects.  
**2011** Member of the Advisory Committee for the National Hospital/Research DHU program.  
**2011-2012** Member of the Academic Senate– IDEX Program of Toulouse  
**2011-2013** President of the University Life Sciences Pole, Paul Sabatier University, Toulouse

Reviewer for the following journals :

*Circulation, Circulation Research, Cardiovascular Research, American Journal of Physiology, Journal of Molecular and Cell Cardiology, Journal of Molecular Medicine, Antioxidant and Redox Signalling, Biochemistry, Journal of Biological Chemistry, Oncotarget.*

*Associate Editor of "The Journal of Nutrition, Health and Ageing"*

**C. Research Support (over the last 10 years)**

<i>Academic fundings</i>					
Project name	Financing institution	Amount (euros)	Project title	Contribution of the team	Start and End dates
	UE-Star T REK	342000	Set up and comparison of multiple stem cell approaches for kidney repair	Partner	2008-11
	Région MP	86320	Role des adipokines dans les complications rénales	PI	2008-11
	Région MP	38000	Inflammation et insuffisance cardiaque : mécanismes et recherche de nouveaux marqueurs prédictifs	PI	2009-12
	EFSD	50000	Role of intestinal dendritic cells in the onset of high-fat diet-induced inflammation	PI	2010-12
	Région MP	66182	Rôle des adipokines dans les complications rénales et cardiaques associées à l'obésité - Année 2	PI	2010-2013
	Région MP	42000	Inflammation et insuffisance cardiaque - Année 2	PI	2010-13
	ANR	275000	Rôle des aldéhydes et du stress oxydant générés par la monoamine oxydase A dans l'insuffisance cardiaque liée au vieillissement	PI	2010-14
	Lefoulon	42000	Financement CDD 1 an pour Chiara Alfarano		2011-12
	Région	90000	Année 1 - Caractérisation des cellules souches/progénitrices des stroma adultes au cours du vieillissement	PI	2010-13
	CNRS/Région	38000	Année 1 - NANOTRACK	Partner	2012-13
	Région MP	90000	Année 2 - Caractérisation des cellules souches/progénitrices des stroma adultes au cours du vieillissement	PI	2012-13
	Région MP	59200	Financement doctorant		2012-16
	CNRS/Région MP	30000	Année 2 - NANOTRACK	Partner	2012-14
	AFM	126618	Financement Jeune Chercheur		2013-15
	Région MP	57600	Allocation Post-Doctorant		2013-2016
	Région MP	260450	Identification de biomarqueurs et mise au point de vecteurs recombinants pour l'identification phénomènes de vieillissement cardiaque	PI	2014-17
	FRM	80000	Single cell analysis of cardiomyocytes in obese mice	PI	2013-2015
	CARIPLO FOUNDATION	265000	Monoamine oxydases and cardiad ageing	PI	2015-2017

	ERA-CVD	240000	Cardiomyocyte - non myocyte interplay as a novel platform for mechanistic insights and therapeutic approaches in ACM heart failure		2017-2020
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### **LIST OF PUBLICATIONS 2003-2018**

ANDERSON R, LAGNADO A, MAGGIORANI D, WALASZCZYK A, DOOKUBN E, CHAPMAN J, BIRCH J, SALMONOWICZ H, OGRODNIK M, JURK D, PROCTOR C, CORREIA-MELO C, VICTORELLI S, FIELDER E, BERLINGUER-PALMINI R, OWENS A, GREAVES L, KOLSKY KL, PARINI A, DOUIN-ECINARD V, LEBRASSEUR NK, ARTHUR HM, TUAL-CHALOT S, SCHAFFER MJ, ROOS CM, MILLER J, ROBERTSON N, MANN J, ADAMS PD, TCHKONIA T, KIRKLAND JL, MIALET-PEREZ J, RICHARDSON GD, PASSOS JF. Length-independent telomere damage drives cardiomyocyte senescence. **EMBO J** (in press)

REIS J, MANZELLA N, CAGIDE F, MIALET-PEREZ J, URIARTE E, PARINI A, BORGES F, BINDA C ( Tight-Binding Inhibition of Human Monoamine Oxidase B by Chromone Analogs: A Kinetic, Crystallographic, and Biological Analysis. **J Med Chem** 61 2018 (9):4203-4212. doi:10.1021/acs.jmedchem.8b00357

SANTELLI J, LECHEVALLIER S, BAAZIZ H, VINCENT M, MARTINEZ C, MAURICOT R, PARINI A, VERELST M, CUSSAC D Multimodal gadolinium oxysulfide nanoparticles: a versatile contrast agent for mesenchymal stem cell labeling. **Nanoscale** 2018 10 (35):16775-16786. doi:10.1039/c8nr03263g

MIALET-PEREZ J, SANTIN Y, PARINI A. Monoamine oxidase-A, serotonin and norepinephrine: synergistic players in cardiac physiology and pathology. **J Neural Transm** (Vienna). 2018 Jul 24. doi: 10.1007/s00702-018-1908-y. [Epub ahead of print] Review. PubMed PMID: 30043181.

MANZELLA N, SANTIN Y, MAGGIORANI D, MARTINI H, DOUIN-ECHINARD V, PASSOS JF, LEZOUALC'H F, BINDA C, PARINI A, MIALET-PEREZ J. Monoamine oxidase-A is a novel driver of stress-induced premature senescence through inhibition of parkin-mediated mitophagy. **Aging Cell**. 2018 Jul 12:e12811. doi: 10.1111/acel.12811. [Epub ahead of print] PubMed PMID: 30003648.

REIS J, MANZELLA N, CAGIDE F, MIALET-PEREZ J, URIARTE E, PARINI A, BORGES F, BINDA C. Tight-Binding Inhibition of Human Monoamine Oxidase B by Chromone Analogs: A Kinetic, Crystallographic, and Biological Analysis. **J Med Chem**. 2018 May 10;61(9):4203-4212. Doi 10.1021/acs.jmedchem.8b00357. Epub 2018 Apr 20. PubMed PMID: 29648817.

MICELI C, SANTIN Y, MANZELLA N, COPPINI R, BERTI A, STEFANI M, PARINI A, MIALET-PEREZ J, NEDIANI C. Oleuropein Aglycone Protects against MAO-A-Induced Autophagy Impairment and Cardiomyocyte Death through Activation of TFEB. **Oxidative Medicine and Cellular Longevity** Volume 2018 (2018), Article ID 8067592

RENAUD-GABARDOS E, TATIN F, HANTELYS F, LEBAS B, CALISE D, KUNDUZOVA O, MASRI B, PUJOL F, SICARD P, VALET P, RONCALLI J, CHAUFOUR X, GARMY-SUSINI B, PARINI A, PRATS AC. Therapeutic Benefit and Gene Network Regulation by Combined GeneTransfer of Apelin, FGF2, and SERCA2a into Ischemic Heart. **Mol Ther**. 2018 Mar7;26(3):902-916. doi: 10.1016/j.ymthe.2017.11.007. Epub 2017 Nov 16. PubMed PMID: 29249393.

ABBADI D, LAROUMANIE F, BIZOU M, POZZO J, DAVIAUD D, DELAGE C, CALISE D, GAITS-IACOVONI F, DUTAUR M, TORTOSA F, RENAUD-GABARDOS E, DOUIN-ECHINARD V, PRATS, AC, RONCALLI J, PARINI A, PIZZINAT N. Local production of tenascin-C acts as a trigger for monocyte/macrophage recruitment that provokes cardiac dysfunction. **Cardiovasc Res**. 2018 Jan 1;114(1):123-137. doi: 10.1093/cvr/cvx221. PubMed PMID: 29136112.

GARMY-SUSINI B, PIZZINAT N, VILLENEUVE N, BRIL A, BRAKENHIELM E, PARINI A. [Cardiac lymphatic system]. **Med Sci (Paris)**. 2017 Aug-Sep;33(8-9):765-770. doi: 10.1051/medsci/20173308022. Epub 2017 Sep 18. French. PubMed PMID: 28945567.

CECCALDI C, BUSHKALOVA R, CUSSAC D, DUPLOYER B, TENAILLEAU C, BOURIN P, PARINI A, SALLERIN B, GIROD FULLANA S. Elaboration and evaluation of alginate foam scaffolds for soft

tissue engineering. **Int J Pharm.** 2017 May 30;524(1-2):433-442.  
doi: 10.1016/j.ijpharm.2017.02.060. Epub 2017 Mar 6. PubMed PMID: 28279740.

MAGGIORANI D, MANZELLA N, EDMONDSON DE, MATTEVI A, PARINI A, BINDA C, MIALET-PEREZ J. Monoamine Oxidases, Oxidative Stress, and Altered Mitochondrial Dynamics in Cardiac Ageing. *Oxid Med Cell Longev.* 2017;2017:3017947. doi: 10.1155/2017/3017947. Epub 2017 May 4. Review. PubMed PMID: 28546851; PubMed Central PMCID: PMC5435992.

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GUIJARRO D, LEBRIN M, LAIREZ O, BOURIN P, PIRIOU N, POZZO J, LANDE G, BERRY M, LE TOURNEAU T, CUSSAC D, SENSEBE L, GROSS F, LAMIRAULT G, HUYNH A, MANRIQUE A, RUIDAVET JB, ELBAZ M, TROCHU JN, PARINI A, KRAMER S, GALINIER M, LEMARCHAND P, RONCALLI J. Intramyocardial transplantation of mesenchymal stromal cells for chronic myocardial ischemia and impaired left ventricular function: Results of the MESAMI 1 pilot trial. **Int J Cardiol.** 2016 Apr 15;209:258-65.

MIALET-PEREZ J, DOUIN-ECHINARD V, CUSSAC D, BRIL A, PARINI A. [Ageing: a matter of heart?]. *Med Sci (Paris).* 2015 Nov;31(11):1006-13

BOAL F, ROUMEGOUX J, ALFARANO C, TIMOTIN A, CALISE D, ANESIA R, DROUGARD A, KNAUF C, LAGENTE C, RONCALLI J, DESMOULIN F, TRONCHERE H, VALET P, PARINI A, KUNDUZOVA O. Apelin regulates FoxO3 translocation to mediate cardioprotective responses to myocardial injury and obesity. **Sci Rep.** 2015 Nov 6;5:16104.

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AINAOUI N, HANTELYS F, RENAUD-GABARDOS E, BUNEL M, LOPEZ F, PUJOL F, PLANES R, BAHRAOUI E, PICHHEREAUX C, BURLET-SCHILTZ O, PARINI A, GARMY-SUSINI B, PRATS AC. Promoter-Dependent Translation Controlled by p54nrb and hnRNPM during Myoblast Differentiation. **PLoS One.** 2015 Sep 2;10(9):e0136466.

PISARENKO O, SHULZHENKO V, STUDNEVA I, PELOGEYKINA Y, TIMOSHIN A, ANESIA R, VALET P, PARINI A, KUNDUZOVA O. Structural apelin analogues: mitochondrial ROS inhibition and cardiometabolic protection in myocardial ischaemia reperfusion injury. **Br J Pharmacol.** 2015 Jun;172(12):2933-45.

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KALUDERCIC N, MIALET-PEREZ J, PAOLOCCI N, PARINI A, DI LISA F. Monoamine oxidases as sources of oxidants in the heart. **J Mol Cell Cardiol.** 2014 Jan 9. pii: S0022-2828(14)00010-8. doi: 10.1016/j.yjmcc.2013.12.032. [Epub ahead of print] Review. PubMed PMID: 24412580. (IF 5.03)

MIAS C, COATRIEUX C, DENIS C, GENET G, SEGUELAS MH, LAPLACE N, ROUZAUD-LABORDE C, CALISE D, PARINI A, CUSSAC D, PATHAK A, SENARD JM, GALES C. Cardiac fibroblasts regulate sympathetic nerve sprouting and neurocardiac synapse stability. **PLoS One.** 2013 Nov 14;8(11):e79068. doi: 10.1371/journal.pone.0079068. eCollection 2013. PubMed PMID: 24244423; PubMed Central PMCID: PMC3828385.

CECCALDI C, BUSHKALOVA R, ALFARANO C, LAIREZ O, CALISE D, BOURIN P, FRUGIER C, ROUZAUD-LABORDE C, CUSSAC D, PARINI A, SALLERIN B, FULLANA SG. Evaluation of polyelectrolyte complex-based scaffolds for mesenchymal stem cell therapy in cardiac ischemia treatment. **Acta Biomater.** 2014 Feb;10(2):901-11. doi: 10.1016/j.actbio.2013.10.027. Epub 2013 Nov 5. PubMed PMID: 24211733. (IF 5.378)

ROUZAUD LABORDE C, DELMAS C, MIALET-PEREZ J, PIZZINAT N, BIENDEL-PICQUET C, BOUDOU N, DUMONTEIL N, SPREUX-VAROUQUAUX O, CARRIE D, GALINIER M, PARINI A, LAIREZ O. First evidence of increased plasma serotonin levels in Tako-Tsubo cardiomyopathy. **Biomed Res Int.** 2013;2013:847069. doi: 10.1155/2013/847069. Epub 2013 Sep 23. PubMed PMID: 24175304; PubMed Central PMCID: PMC3794635. (IF 2.88)

LAIREZ O, LONJARET L, RUIZ S, MARCHAL P, FRANCHITTO N, CALISE D, FOURCADE O, MIALET-PEREZ J, PARINI A, MINVILLE V. Anesthetic regimen for cardiac function evaluation by echocardiography in mice: comparison between ketamine, etomidate and isoflurane versus conscious state. **Lab Anim.** 2013 Oct;47(4):284-90. doi: 10.1177/0023677213496236. Epub 2013 Jul 17. PubMed PMID: 23864007.

CARPENE C, PARINI A. Special Issue: 15th amine oxidase conference: re-examine the amines. **J Neural Transm.** 2013 Jun;120(6):845-6. doi: 10.1007/s00702-013-1022-0. PubMed PMID: 23563848. (IF 2.88)

LAIREZ O, COGNET T, SCHAACK S, CALISE D, GUILBEAU-FRUGIER C, PARINI A, MIALET-PEREZ J. Role of serotonin 5-HT<sub>2A</sub> receptors in the development of cardiac hypertrophy in response to aortic constriction in mice. **J Neural Transm.** 2013 Jun;120(6):927-35. doi: 10.1007/s00702-013-1011-3. Epub 2013 Mar 30. PubMed PMID: 23543114. (IF 3.52)

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ROUZAUD-LABORDE C, HANOUN N, BAYSAL I, RECH JS, MIAS C, CALISE D, FRUGIER C, SEGUELAS MH, PARINI A, PIZZINAT N. Role of endothelial AADC in cardiac synthesis of serotonin and nitrates accumulation. **Plos One,** 2012;7(7):e34893. (IF: 4.09)

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CECCALDI C, GIROD FULLANA S, ALFARANO C, LAIREZ O, CALISE D, CUSSAC D, PARINI A, SALLERIN B. Alginate Scaffolds For Mesenchymal Stem Cells Cardiac Therapy: Influence Of Alginate Composition **Cell Transplant,** 2012;21(9):1969-84 (IF 5.13)

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MIALET-PEREZ J, D'ANGELO R, VILLENEUVE C, ORDENER C, NEGRE-SALVAYRE A, PARINI A, VINDIS C. Serotonin 5-HT<sub>2A</sub> receptor-mediated hypertrophy is negatively regulated by caveolin-3 in cardiomyoblasts and neonatal cardiomyocytes. **J Mol Cell Cardiol.** Feb;52(2):502-10 (IF 5.16)

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