
CATERINA A. M. LA PORTA

CV, Research

June 2022

CURRICULUM VITAE

<p>Caterina A. M. La Porta Associate Professor, Abilitation as Full Professor since 2017 Department of Environmental Science and Policy, University of Milan, Group Leader: OncoLab Via Celoria 26, 20133 Milano</p> <p>CEO and Co-Founder of the Spin Off ComplexData S.R.L. (www.complexdata.it)</p>	<p>Phone +39-02 5031 4927 Fax: +39-02 5031 4932 e-mail: caterina.laporta@unimi.it web: http://www.oncolab.unimi.it http://www.complexitybiosystems.it www.complexdata.it www.ariadneweb.it</p> <p>Born in Milan 19 09 1966 Italian citizen</p>
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Education:

- 1995 Ph. D. in Physiology, University of Milan.
1989 Laurea (cum laude), University of Milan, Italy

Professional experience:

- 2017 *Abilitazione* Full Professor in General Pathology (MED/04) since 28/03/2017
- 2016-present Associate Professor in General Pathology, University of Milan
- 2002-2016 Tenured Research professor, University of Milan
- 1997-2001 Postdoctoral fellow University of Milan, Italy
- 1994-1997 Fellow AIRC (Italian Association for Cancer Research)
- 1995 Fellow Rockefeller University (NY, USA), 5 months
- 1993-1994 Fellow DKFZ, Heidelberg, Germany
- 1990 Fellow Karolinska Institute 1990 (nine months)
- 1990-1991 Fellow, Istituto for Pharmacology Research "Mario Negri", Milan,

Visiting positions and appointments:

- 2022 Visiting Aalto University (Espoo, Helsinki, Finland) 1 month
- 2021 Visiting Scientist LMU Munich (Germany) 6months
- 2020 Visiting Scientist LMU Munich (Germany) 7 months
- 2019 Visiting Scientist LMU Munich (Germany) 3 months
- 2019 Visiting Scientist Weizmann Institute (Israel) 1 week
- 2018 Visiting Scientist University of Liverpool (UK) 2 weeks
- 2017 Visiting Scientist Rice University Texas (USA) 2 weeks
2017. Visiting scientist Ecole Normale Superieure de Lyon (France) 3 weeks
- 2017 Visiting Scientist Aspen Physics Centre (USA) 3 weeks
- 2017 Visiting Scientist Weizmann Institute (Israel) 2 weeks
- 2016 Visiting Scientist University of Illinois Urbana-Champaign (USA) 2 weeks
- 2016 Visiting Scientist University of North Carolina (USA) 2 weeks
- 2016 Visiting Scientist Cornell University (USA) 2 weeks
- 2016 Visiting Scientist Aalto University (Espoo, Helsinki, Finland) 2 months
- 2015 Visiting Scientist Aalto University (Espoo, Helsinki, Finland) 3.5 months

- 2015 Visiting Scientist Weizmann Institute (Israel) 1 month
- 2014 Visiting Scientist Aalto University (Espoo, Helsinki, Finland) 1 month
- 2014 Visiting Scientist Ecole Normale Superieure (Paris France) 1 month
- 2014 Visiting Scientist Cornell University, LASSP, (USA) 1 week
- 2013 Visiting scientist Cornell University, LASSP, (USA) 1 month
- 2013 Visiting Professor Aalto University (Espoo, Helsinki, Finland) 1.5 months
- 2012 Visiting scientist Aspen Physics Centre (USA), 3 weeks
- 2012 Visiting scientist Cornell University, LASSP (USA), 2 weeks
- 2011 Visiting scientist Cornell University (USA), 2 months
- 2010 Visiting scientist Cornell University, LASSP (USA), 2 months
- 2009 Visiting scientist Cornell University, Department of Molecular Biology and Genetics Ithaca NY, USA, 1 month
- 2008 Visiting scientist Boston Biomedical Research Institute, Watertown (MA, USA) 4 months
- 2007 Visiting scientist Department of Biology, MIT, Cambridge (MA, USA), 3 months

Awards and Grants:

Personal Awards:

- 2009 Selected for Faculty of 1000 Biology for the paper published on Plos One on
- 2008 Nominated for the Genomic Pioneers Award 2008
- 2017 Award for the best Oral presentation: Society for Cutaneous Ultrastructure Research
- 2017 Nominated "100 Scientists" more significant in Italy (<https://100esperte.it/>)
- 2018 Premio Cenacolo della Cultura e delle Scienze "Premio Cultura 2018" "Il Valore dell'Eccellenza, le vie dell'innovazione nella ricerca", 20 Ottobre 2018 Locri, Palazzo della cultura
- 2019 Winner Outstanding Reviewer IOP Publishing
- 2019 Rita Levi Montalcini award: "Analisi di Big Data per i tumori" Prof. Eytan Domany Weizmann Institute
- 2020 ITWIIN Award for Higher Education (The Italian Association of Women Inventors and Innovators)

Grants (research and dissemination):

- 2021 PI Unit 10- Università degli Studi di Milano Piano Strategico dell'Università degli Studi di Milano 2020-2022, Linea strategica 8 Tema Salute, malattie non trasmissibili:
"Un approccio integrato per ridurre l'infiammazione (inflamm-aging) nei soggetti fragili"HEBE Project - Healthy aging versus inflamm-aging: the role of physical Exercise in modulating the Biomarkers of age-associated and Environmentally determined chronic diseases (150K, one year)
- 2021 Università degli studi di Milano Seed4Innovation2021: Digital monitoring of wine grapes (40K euro, one year)
- 2020 Ministero dell'Ambiente (bando MATTM): Integrazione modellistica a supporto della *governance* e della strategia regionale di sviluppo sostenibile - INTEGRA
- 2020-2025 PI AIRC2019: Artificial intelligence for a comprehensive approach predicting aggressiveness in pediatric diffuse medline glioma (834K euro).
- 2019-2024 Local PI AIRC2018: Volume regulated Cl and oxidation activated K Channels in

- invasiveness and immunotherapy efficiency in human melanoma (583000 euro).
- 2014-2017 PI Extra Bando Cariplo VALUTAZIONE DELLE VARIAZIONI NUTRIZIONALI E ALLERGENICHE IN SPECIE ITTICHE CONSERVATE IN ATMOSFERA MODIFICATA (MAP)
- 2013-2016 Local PI Bando Cariplo Nanoparticelle - 2013 VALUTAZIONE IN VITRO E IN VIVO DEL CONTRIBUTO DEL BENZO(A)PIRENE AGLI EFFETTI TOSSICI DELLE NANOPARTICELLE CARBONIOSE (250000 euro)
- 2011-2013 Local PI, University of Milan grant, PRIN 2010, Melanoma, tumor stem cells and microenvironment (147000 euro)
- 2012 Co-PI, CECAM (Centre Européen de Calcul Atomique et Moléculaire) workshop: Computational Physics Methods for Cancer, Lausanne, Switzerland June 27-29, 2012 (with Stefano Zapperi) (14400 CHF).
- 2012 Co-PI, European Science Foundation: Exploratory Workshop 2012: Physics of cancer Varenna 13-15 September 2012 (29 funded project on 250) (with Stefano Zapperi) (14000 euro).
- 2010-2015 Third partner, IDEAS Advanced Grant 2010: "Wnt for brain - Transcriptional regulation of endothelial blood brain barrier differentiation by Wnt signaling" (Euro 2.390.200).
- 2009 Local PI, University of Milan grant, PUR 2009, "Role of cytokines in neurodegenerative diseases (15000 euro)
- 2009-2010 Local PI, National Research project, PRIN 2008, " Cancer, stem/progenitor cells and the tumor microenvironment: new networks to target (450000euro).
- 2009 Coordinator, FP7-PEOPLE-NIGHT-2009, "A night in the laboratory" (29000 euro)
- 2008 Selected for the Exchange Visit Programme for the EFBC RED project of the European Community between Europe and Cina, 2008 (5000euro).
- 2008 Coordinator, FP7-PEOPLE-NIGHT-2008, "A night in the laboratory"(32000 euro)
- 2007-2008 Coordinator, "CARIPLO FOUNDATION and LANDAU NETWORK-CENTRO VOLTA", 2007-2008 (20000 euro)
- 2004-2006 Local PI, Fondazione Cariplo "Valutazione del potenziale terapeutico del trapianto di cellule staminali umane e murine in modelli animali di neuropatia, cardiomiopatia ed ischemia periferica associate a diabete di tipo 1".(20000 euro)
- 2003-2004 Coordinator, COFIN 2003 "Studio del processo angiogenico nel tessuto di granulazione di ratti giovani e anziani alimentati in condizioni dietetiche di restrizione calorica e secondo il modello P.I.S.A. (Pharmacological Intensification of Suppression of Ageing)" (150000 euro).
- 2002 Local PI, Ricerca Finalizzata 2002-Ministero della Salute "Definizione del potenziale pre-leuchemogenetico delle proteine di fusione associate alle leucemie acute mieloidi" (60000 euro)
- 2000-2001 Coordinator, "Giovani ricercatori" dell'Università degli Studi di Milano: "Studio di specifici inibitori della PKC in linee di melanoma murino e umano" (7000 euro)
- 1999-2000 Coordinator, "Giovani ricercatori" dell'Università degli Studi di Milano (1999-2000) "Ruolo delle isoforme della Proteina Chinasi C (PKC) nel processo metastatico in cellule di melanoma B16" (7000 euro)

Patents:

N. 102019000023946, 13/12/2019 Italia (released 26 November 2021) and PCT extension (2020) (Laporta, Zapperi, Font-Clos). Title: Metodo per determinare una prognosi di sopravvivenza a lungo termine di pazienti di cancro al seno, sulla base di algoritmi che modellizzano reti biologiche.

Professional services and memberships:*Academic services:*

2022-	Appointed by the Rector to the scientific committee for the centenary celebrations of the death of Alessandro Volta
2022-present.	Coordinator of the Integrative approach for Global Health Laboratory (IAGH) UniMI
2021-present.	Member of Gender Balance Coordination Group University of Milan
2019-present.	Co-founder and member steering committee Innovation For Well-Being and Environment (CRC-I-WE) UniMI
2015-present.	Co-founder and member steering committee Center for Complexity & Biosystems (CC&B) UniMI
2013-2019	Delegate of the Rector for the League of European Research University (LERU) EU Gender Panel
2013-2018	Member of the Directive board of the School of Journalism University of Milan
2011-2013	Member of the Executive board, Department of Bioscience University of Milan
2009-2012	Vice-President (elected) for Equal Opportunity Committee of University of Milan

Member of European Organization for Research and Treatment of Cancer (EORTC) since 2021

Society memberships:

Member International Society of Global health
 Member of Biophysical Society
 Member of the American Physical Society (APS)
 Member of the American Association for Cancer Research (AACR)
 Member of the International Society for stem cell research (ISSCR)
 Member of the (national) Società Italiana di Patologia (SIP)
 Member of the (national) Società Italiana di Gerontologia e Geriatria

Editorial boards:

Continuing Medical Education (CME) credit from American Association for Cancer Research
 F1000 Specialist
 Nature Scientific Reports (since September 2016)
 Antioxidants Journal (Topic board) since July 2020
 Organ Networks, Frontiers in Network Physiology (special section) since 2021 (Associate Editor)
 NCRI (non-coding RNA investigation) since 2021

Frontiers in Oncology Breast Cancer since 2021
Frontiers in Network Physiology since 2021

Referee:

Melanoma Research IF 3.599
British Journal of Cancer IF 7.64
European Journal of Cancer 9.162,
Apoptosis IF 4.677
Oncogene IF 9.867
Neoplasia IF 5.715
Journal of Pharmacy and Pharmacology IF 3.765
Cell Death and Differentiation IF 15, 83
The Journal of Pathology IF 6.253
Journal Cell Science IF 5.285
Thrombosis and Haemostasis IF 5.824
American Journal of Clinical Dermatology IF 7.403
International Journal of Cancer IF 7.396
Journal of Cellular and Molecular Medicine IF 5.31
Nanotechnology IF 3.874
Toxicology IF 4.221
The Archives of Dermatological Research IF 2.67
Neurochemistry Journal IF 5.372
Experimental Dermatology IF 3.96
BioDrugs IF 5.807
BBA-MCR IF 4.739
International Journal of Development Biology IF 1.753
Cancer Medicine IF 4.452
Cell Communication and Signaling IF 5.712
Molecular Cancer Research IF 2.273
Cancer Letters IF 8.679
Environmental Research IF 6.498
Nature Physics IF 21.797
Soft Matters IF 3.679
Cellular and Molecular Life Sciences IF 9.261
Archives of Dermatology Research IF 2.67
Physical Biology IF 2.583
Journal Oncotarget and Therapy IF 4.147
IUBMB Life IF 3.885
Advanced Science IF 16.806
Frontiers Molecular Biology
iScience IF 5.08
Cell Systems IF 10.304
Frontiers Oncology IF 2.358

Grant reviewer:

Referee for international grant proposals

The National Medical Research Council (NMRC), Singapore (2008), Austrian Science Fund (2011),

French National Research Agency: BIOMEDICAL INNOVATION IN PUBLIC-PRIVATE RESEARCH PARTNERSHIP (RPIB) 2011 Edition; North West Cancer Research (Registered Charity, UK), 2012; Czech Science Foundation 2013; “New Ventures Beyond Established Frontiers” Call 2013 of the Vienna Science and Technology Fund (<http://www.wwtf.at>).

Referee for HUMAN FRONTIERS SCIENCE PROGRAM (Career Development Award 2012)

Referee for Wellcome Trust /Royal Society Sir Henry Dale Fellowship 2014

Referee Cy-Tera and Eastern Mediterranean Production Call 2016

Referee KWF Kanker Bestrijding Holland 2016

BSF United States-Israel Binational Science Foundation 2018

Netherlands Organization for Scientific Research NOW 2018 Innovational Research

Israel Science Foundation 2019

Natural Sciences and Engineering Research Council of Canada (NSERC) 2020 for Discovery Grant

Referee for French National Research Agency (ANR) 2020

Referee for Human Frontiers Science program 2020

Referee for AAPG-2022 (France) for the evaluation panel « CE16 - Neurosciences moléculaires et cellulaires –Neurobiologie du développement

Referee for Marie Skłodowska Curie Action (MSCA) Dorothy Cofound Research programme Irish Research Council 2022

Referee for National Research Council (MIUR) for national grants

Prin 2009;

Prin 2021

PON 2010;

Programma Operativo Nazionale Ricerca e Competitività 2007-2013

Referee for regional grants

Alessandro Liberati Programme for young investigators,

Regione Emilia-Romagna, call 2012, 2013,

Futuro in Ricerca (FIRB) 2013

Fondazione Cariplo-Progetti biennali per Sardegna 2021

Conference organization:

Organization of international conferences/workshops/schools:

- 2020-till now Organizer of the Virtual Series on Complexity from 8 September 2020 till now (<https://sites.google.com/view/virtualeseminarsoncomplexity/home>)
- 2019 Organizer of the 5th workshop of the Center for Complexity & Biosystems (CC&B) Munich (Germany) 2 December
- 2019 Organizer of the 5th Workshop on Complex Systems @Unimi 31 October (Department of Physics, UniMI)
- 2019 Director of the third school on Advances in Complexity Systems, Como 22-26 July “From Ecology to Economy” (<http://acse.lakecomoschool.org/>).
- 2018 Organizer of the 4th workshop of the Center for Complexity & Biosystems (CC&B) Milan 2 October
- 2018 Co-Organizer of the workshop: “Physicists working on cancer” Weizmann Institute of Science July 1-12, Rehovot, Israel (<https://www.weizmann.ac.il/conferences/SRitp/July2018/>)

- 2017 Organizer of the 3th workshop of the Center for Complexity & Biosystems (CC&B) Milan 9 October
- 2017 Director of the second school on Advances in Complex Systems, Como 3-7 July 2017 (<http://lakecomoschool.org/>)
- 2016 Organizer of the 2nd Workshop Center for Complexity & Biosystems (CC&B) Milan 3 October
- 2015 Organizer of the workshop of the Center for Complexity & Biosystems (CC&B) Milan 21 September
- 2015 Organizer of the 2nd Workshop of the Complex System Group @ UniMi University of Milan 15 January (<http://sites.google.com/site/fisicounimi/home>)
- 2015 Director of the school on Advances in Complex Systems, Como 29 June-3 July (<http://acss.lakecomoschool.org/>)
- 2012 Organizer of the CECAM (Centre Européen de Calcul Atomique et Moléculaire) workshop 2012: Computational Physics Methods for Cancer, Lausanne, Switzerland June 27-29, 2012 (with Stefano Zapperi) <http://www.cecarn.org/>
- 2012 Organizer of the European Science Foundation: Exploratory Workshop 2012: Physics of cancer Varenna 13-15 September 2012 (29 founded projects over 250) (with Stefano Zapperi) <http://www.cancerphysics.unimi.it/>
- 2009 Workshop on Epidemic and pandemic influenzae in the globalization era. November 11-12, 2009 University of Milan, Italy (with E. Tanzi).

Organization of public events and outreach activities:

- 2022 G-Gravity Milan Via Lanzone 8, 14 June 4pm [ProgramONE](#), Roundtable on [OneHealth](#)
- 2021 G-Gravity Milan Via Lanzone 8, 10 November 2021 6pm Round Table- Healthcare Open innovation, we discuss with: Cimino Roberto -Vicepresidente Technology ClusterBlue Italian Growth, Caterina La Porta, Ph.D. – Professore Associato, Dipartimento di Scienze e Politiche Ambientali, Università di Milano, Michele Perrino - Presidente e Amministratore Delegato, Medtronic Italia, Marco Venturelli , Ambassador, MIND Milano
- 2021 Digital Week: Parliamo dell'acqua nell'era digitale: una visione interdisciplinare 20 Marzo 11am (video <https://www.youtube.com/watch?v=ZQKIL6gmVik>)
- 2021 Digital Week : La digitalizzazione: dalla medicina all'agricoltura attraverso la città. 18 Marzo 6pm (Video: <https://www.youtube.com/watch?v=Dnn7NIUIPCE>)
- 2020 Digital Week: Una Città aumentata "Civitas oriented" 29 maggio 6pm. (video: <https://www.youtube.com/watch?v=Hd078Z2vTYo&feature=youtu.be&t=83>).
- 2019 Digital Week : "DadaData: Ora che abbiamo I dati che cosa ne facciamo?" Sala Lauree Lettere Via Festa del Perdono 7, 14 Marzo 2019 4.30pm.
- 2018 Meet Me Tonight 27-28 September 2018 Laboratories activity for families on the cycle of water and impact on human health
- 2014 Scienza Under 18, 8-9 May 2014: Laboratory activities for middle schools.
- 2014 Workshop on "Food intolerance and allergy, second edition" 10 March 2014 (www.nitlab.unimi.it)
- 2012 EU-Researcher's nights 2012, Indro Montanelli Park "Gusto e Salute: latte pro e contro" in

- the Meet me tonight Researcher's night event (www.nitlab.unimi.it)
- 2011 Workshop on "Food intolerance and allergy". March 25, 2011 University of Milan (with GP Guzzi)
- 2011 Lecture Course: Stem cell biology and Bioengineering January 17-21 (James Sherley)
- 2009 EU-Researcher's nights 2009 Milan Indro Monatanelli Park "Una notte in laboratorio-2" University of Milan (www.nitlab.unimi.it)
- 2008 EU Researcher's nights 2008 Milan "Una notte in laboratorio", University of Milan (www.nitlab.unimi.it)
- 2007 EU Researcher's nights 2007 Milan: "Una vita per la ricerca, una ricerca per la vita" University of Milan and FAST.
- 2006 EU Researcher nights 2006 Milan: "Il magico mondo delle cellule staminali" University of Milan.

Selected Invited talks and conferences

Along with the following major speaking engagement I have given a large number of seminars and colloquia at major institutions and universities nationally and internationally.

Selected invited talks at national/international conferences:

- Joint Conference of the EACR and AEK on Hepatocarcinogenesis, Heidelberg (Germany), 12-15/9/93
- Fifth European Meeting on Experimental Hepatocarcinogenesis, Stockholm, 1-4/6/1996
- Anticancer Research conference Athens 17, 4042, 1997
- 4th International symposium on Molecular Medicine, 18-20/10/2001 Creta
- Meeting and pre-meeting of the 3rd European Congress of Biogerontology: Centro Studi "I Cappuccini" della Cassa di Risparmio di San Miniato, November 2002
- Shingolipid Club Third Meeting, Firenze 18-19 June, 2004.
- 4th Annual meeting on brain ageing and dementia, Perugia 5-7 October, 2006.
- Mediterranean School of Oncology, Kidney and melanoma: progress in clinical and translational research, Rome 23-24 November 2007
- KeyStone Symposium on Wnt/beta catenin signalling in developing: "Cancer stem cells and therapeutic perspectives", Keystone Symposium, 17-22 February Keystone, Colorado, USA 2008
- American Association for Investigative Pathology, 2008 Annual Meeting at Experimental Biology, 5-9 April San Diego CA speaker and chair of the minisymposium: "Genetics and epigenetics of cancer progression and angiogenesis".
- EHRlich II – 2nd World Conference on Magic Bullets Celebrating the 100th Anniversary of the Nobel Prize Award to Paul Ehrlich" Nürnberg, October 3-5, 2008: "Melanoma initiating cells: new perspectives for therapy".
- Wistar Institute, Philadelphia (USA) lecture November 19-2008: "Cancer stem cells: a lesson from melanoma".
- ÖGMBT Meeting, Innsbruck 20-23 September 2009: " Cancer stem cells: a lesson from melanoma".
- Congresso Annuale Intergruppo Melanoma Italiano, Genova 18-20 October 2009: "Identificazione di Cancer Stem Cells nel melanoma: una veduta critica".

- CMM Seminar Series, Cornell University, Ithaca Lecture August 11, 2010 11am – 12pm: “Cancer Stem Cells, a Lesson From Melanoma”
- Target Meeting: Molecular mechanism of angiogenesis in cancer therapy (<http://www.targetmeeting.com>) 28 May 2011 (11.35 NY time) : AQP1 is a new angiogenic/vasculogenic target for melanoma.
- International Conference and Exhibition on Cancer Science and therapy: “Cancer stem cells and melanoma” 15-17 August Las Vegas 2011
- CXCR6, a newly defined biomarker of tissue-specific stem cell asymmetric self-renewal, identifies more aggressive human melanoma cancer stem cells. Stem Cells, Development and Regenerative Medicine, ABCD 2011, Ravenna 8-10 September 2011.
- Senescent cells in growing tumors: population dynamics and cancer stem cells in: Stem cell Development and Regenerative Medicine ABCD Meeting Turin May 4-6 2012.
- Senescent cells in growing tumors: population dynamics and cancer stem cells Summer School in Cargese, Corsica from 9/21 July 2012: "From nonlinear Physics to Biology and Medicine" (<http://www.geomnat.com/Cargese12/>)
- Selected for summer program “Aspen Center For Physics Summer 2012”, From 29 July to 19 August 2012
- Mechanical properties of growing melanocytic nevi and the progression to melanoma. Condenser Matter in Paris 2014, August 24-29.
- Water transport in active cell deformation. Weizmann Institute 31 December 14.30
- Cancer stem cells and imperfect markers. Session 2: Cancer Stem Cells 11.30-12.00 (NY Time). TM’s 2015 Stem Cell Biology Online Conference January 27-28, 2015. Nature event: http://www.nature.com/natureevents/science/events/30769-Stem_Cell_Biology_and_Translational_Research_Online_Conference
- Physics of Cancer Avon Gorge Hotel Bristol 19-20 May 2015 (<http://www.physicsoflife.org.uk/events/the-physics-of-cancer/>) (invited speaker): Population dynamics of Cancer Stem Cells.
- Nordita 27-30 May 2015 Mariehamn, Åland Statistical Physics and Mechanics of Forms and Shapes: “Volume fluctuations in active cell deformations, <http://agenda.albanova.se/conferenceDisplay.py?confId=4814> (invited speaker)
- University of Montpellier: Volume Fluctuation during blebbing in zebrafish primordial germ cells, 8 June Montpellier University, 11.30, Guested by Andrea Parmigiani
- Advances in Complex System Summer School 2015, Volume fluctuations in active cell deformation, 2-07-2015 Cernobbio, Como, 2.30pm
- EMBO meeting Volume fluctuations during bleb formation in zebrafish primordial germ cells, Sunday 6 September, 2015, 15:00-17:00. Birmingham, UK
- Conference in Complex Systems CCS’15: Cancer Stem cells in melanoma: a complex problem, 28 September- 4.45pm Tempe Arizona <http://www.ccs2015.org/visit-arizona/> or <http://www.oncolab.unimi.it/?p=1338>
- Colloquium talk: Cancer Stem cells in melanoma: a complex problem, Department of Mathematical Science University of Liverpool 17 November 2015 4pm. <https://www.liv.ac.uk/mathematical-sciences/research/departamentalcolloquium/>
- -APS meeting 2016 Session A35: Active Matter: Collective Phenomena in Living Systems I Baltimore USA <http://meetings.aps.org/Meeting/MAR16/Session/A35> Volume change during active cell fluctuation room 338.

- Bristol Center of Complexity Sciences (CSS) University of Bristol: Cancer Stem cells in melanoma: a complex problem 26 April 2016 12am
<http://www.bristol.ac.uk/math/events/2016/caterina-la-porta.html>
- School of Medicine, University of North Carolina 3 August 2016 , Cancer stem cells and melanoma: a complex problem, Bioinformatics 1131 room, 1pm
- Cornell University, Ithaca, USA 11 August Cancer Stem cells and melanoma: a complex problem 12.20pm 4th floor LASSP
- Conference on Complex Systems 2017 Amsterdam 19-22 September 2016, Tackling neurodegenerative diseases by computational approaches,
- Urbana-Champaign University, CompGen meeting Wednesday 8/31/2016 from 9-10 am in 612 IGB: Cancer Stem Cells and melanoma: a complex problem.
- Cancer Stem Cells Impact on Treatment (December 7-11, 2016) Obergurgl, Tyrol, Austria (<http://transidee-conference.uibk.ac.at/CSC2016/index.php/registration>), Cancer stem cells in melanoma: a complex problem.
- American Physics Society: Physics of cellular organization: Burst of activity in collective cell migration, 2.30pm 16 March room 264, 13-17 March, New Orleans, USA 2017
- Cancer Stem Cells: a complex problem. Hebrew University, Israel, 14 May 2017
- Mechanical Properties of growing melanocytic nevi and the progression to melanoma. 44th SCUR Annual Meeting 2017, 9 June Milan
- Cancer stem cells: a complex problem First International Summer Institute on Network Physiology (ISINP), 24 July 11.30, 24-29 July 2017, Como, Italy.
- Tackling complexity in Biosystems, 21 September INFOLIFE2017 CINI InfoLife Laboratory Workshop 21-23 September Ca Foscari, Venezia
- Tackling cell deformation, division and migration by a combination of experiments and computational models, Cell Physics 2017 11-13 October Saarbrücken German 2017
- Physics of cancer: mechanics of cell migration, IFOM Institute Milan 10 November 2017 2pm
- Physics of cancer: mechanics of cell migration, Pennsylvania Physical Sciences in Oncology Center (PSOC@Penn) Philadelphia 13 November 2017 12am
- The 20th European Conference on Mathematics for industry 18-22 June 2018 Budapest Hungary CAM La Porta, Stefano Zapperi Integrative analysis of pathway deregulation in obesity.
- Nanoengineering for mechanobiology 25-28 March Camogli 2018 , Cell deformation and migration: experiments and modeling
- Intelligenza artificiale e Big Data 2-3 marzo 2018, La ricerca Intelligente, Seminario Direzione Scientifica Istituto Nazionale dei Tumori Milano
- Roche Europe RWE Summit 17 April 2018: Artificial Intelligence in healthcare sector Budapest, Hungary
- Second International Conference on exaptation and inverse question-driven innovation, 26-28 April 2018 Palazzo Feltrinelli, Lake Garda, Italy: Caterina AM La Porta, Stefano Zapperi: Exaptation for the good and the bad: regeneration and cancer. 26 April 2018, 9.50am
- Physicists working on cancer, Weizmann Institute 4 July 2018, 2.30pm Caterina AM La Porta, Stefano Zapperi: Tackling cell plasticity in cancer
- Institute for Complex System, Ecole Normale Supérieure 24, Rue Lhomond Paris: Tackling cell plasticity in cancer 12pm 27 September 2018.

- E-Conference October 3rd 2018: UNITWIN Complex Systems-Digital Campus, ITN ImageInLife: 1pm Caterina AM la Porta: Tackling Complexity in Cancer.
- Cancer Stem Cells Seefeld, Tyrol, Austria 11-15 December 2018: Impact on treatment: 9.50am Caterina am LaPorta Crosstalk between cancer cells and cancer stem cells in view of new therapeutic strategies, 12 December 2018 9.30am.
- American Physics Society (APS) March Meeting 2019 Session B21: Exploring Free Energy Landscapes in Biology and Materials Science: Complex landscape of the epithelial-mesenchymal transition 11.51, Room: 157B Boston USA
- 40 Congresso Nazionale della Società Italiana di Medicina Estetica, 14 Congresso Nazionale della Accademia Italiana di Medicina Anti-Ageing 18 Maggio 17.00 Environmental and ageing in the era of big data: the new view of the network medicine (speaker and chairman) Sala J. Font Fiera Centro Congressi Roma Cavalieri, Italia
- CSS/Italy Italian regional Conference on Complex Systems 3 July 2019 Trento (Italy): invited Speaker: "Complexity in Biomedicine" 9.45-10.10.
- Politecnico of Milan: "Complexity in Biomedicine" 18 July 10am Department of Mathematics, Politecnico of Milan, 2019
- BigData in Health CNR Rome 4 October: Complexity in Biomedicine (invited speaker)
- Premio Rita Levi-Montalcini: Celebrating 70 years of diplomatic relations Italy-Israel "Side by Side" for innovation: BigData and Tumors" room "Aldo Moro", 5 November 2019
- Chromatin and cytoskeletal tethering determine nuclear morphology in progerin expressing cells The Nucleus Science Talks 12 May 4pm, 2020 zoom platform <https://lakecomoschool.org/blog/2020/05/11/new-the-nucleus-science-talk-online-talks/>
- Metamaterials architecture from a self-shaping carnivorous plant. Istituto Lombardo Accademia di Scienze e Lettere 24 giugno 2020 (http://www.istitutolombardo.it/Stream/Metamaterial_architecture_from_a_self-shaping_carnivorous_plant.html).
- Special Colloquium LiveMats University of Freiburg 16 September 2020, 1pm Metamaterial architecture from a self-shaping carnivorous plant (zoom platform)
- Virtual FISV Symposium on SARS-Cov-2 Biology and COVID-19: current research and perspectives 16 September 2020, 11am: Heterogeneity of coronavirus peptide binding across human haplotypes (zoom platform)
- Virtual Seminar UCL London: 19 October 2020 (zoom) 12am (London time): Estimating the binding of Sars-CoV-2 peptides to HLA class I in human subpopulations using artificial neural networks.
- Virtual Seminar IRE e Istituto Regina Elena: 9 November 2020 2pm: Estimating the binding of Sars-Cov2 peptides to HLA class I in human subpopulations using artificial neural networks.
- CSC 2020 /Cancer Stem Cells: Impact on treatment) Virtual Conference 2020. 3 December 9am: Melanoma plasticity and miRNAs. Zoom platform
- Virtual Seminar the series of EXTRO-Lab Seminars, Innsbruck Austria 22 April 2021, 9am zoom platform guested by Prof. Ira Skvortsova: *Explaining the dynamics of aggressiveness: at the crossroad between biology and artificial intelligence* (<https://www.extro-lab.at/extro-lab-seminars/>)
- Virtual Society for Mathematical Biology (OncoMS-18, SMB) Measuring and modeling

the cell-state transitions in cancer progression and treatment Annual Meeting SMB 17 June 2021: *Explaining the dynamics of melanoma aggressiveness: at the crossroads between biology and artificial intelligence* (<http://schedule.smb2021.org/MS18/ONCO-MS18.html>).

- Virtual International Summer school Food Safety and Health living 5 June 2021 : BigData analysis and land monitoring for one health approach. University of Medicine and Pharmacy, Carol Davila, Romania (<https://www.fshl.ro/>).
- Rosetrees Interdisciplinary workshop: Metastasis. 2 November 2021 Phase transitions in cell migration. (<https://www.physicsoflife.org.uk/metastasis-workshop.html>).
- Webinar Live December 2nd-3rd, 2021 - h 15.00-19.00. MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE: WHICH APPLICATION IN INFECTIOUS DISEASES. RoundTable 2 December 17.10: New technologies for data management and computer science for the building of network Conductor: C. Giovenzana- Speakers: N. Briante, F. Cabitza, A. Damiani, C. Fiorini, S. Lanini, C. La Porta (<https://sciterionfad.it/>).
- Seminars in Biological Physics (BiPAS CDT Biological Physics across the scale) 26 April 2022, 12.00am; King's College London: Phase transition in cell migration www.kcl.ac.uk/biophys.
- Third International Summer Institute on Network Physiology (ISINP) Lake Como School of Advanced Studies 25 July 9.50 am Classification of triple-negative breast cancers through a Boolean network model of the epithelial-mesenchymal transition 2022 (<https://isinp-3.lakecomoschool.org/program/>)
- Italy-Israel Symposium: INNOVATIVE MULTIDISCIPLINARY APPROACHES TO HUMAN HEALTH AND SOCIAL WELL BEING Newe Shalom Israele 5 e 6 Settembre 2022: 5 settembre : Digital approaches to pathologies for human well being h3.30pm
- International Summer School- FOOD SAFETY AND HEALTHY LIVING FSHL – 2022 Brasov, Romania, September 5-8, 2022. 7 September: HEAVY METALS IN LOMBARDY WATERS: BIGDATA APPROACH FOR MONITORING WATER POLLUTION AND IMPACT ON HEALTH h2.30pm

PUBLICATIONS

Editor of 4 books, co-author of 1 book for Cambridge University Press, author of 1 book review (Trends in Pharmacology), 12 book chapters, 22 Reviews, 6 Commentaries and views. I published more than 140 journal papers and 140 proceedings. Among those: 2 articles in *Glia*, 2 articles in *Faseb Journal*, 3 articles in *Carcinogenesis*, 1 article in *British Journal of Cancer*, 1 article in *Plos Computational Journal*, 5 articles in *Scientific Reports*, 1 *Nature Communication*, 3 *Nature Publishing Journal Systems Biology and Applications*, 2 papers on *Biophysical Journal*, 1 *Physical Review Letters*, 3 *PNAS*, 1 *Nature Cell Biology*, 1 *iScience*, 2 *Cell Systems*, 1 *Nature Reviews Physics*, 1 *Computational and Structural Biotechnology Journal*.

Books

1. CAM La Porta, S. Zapperi, *The Physics of Cancer*, Cambridge University Press, 2017 (ISBN: 9781107109599)
2. CAM La Porta, S Zapperi (editors) *Cell migrations: causes and functions*, *Advances in Experimental Medicine and Biology* Springer 2019 (ISBN 9783030175924)
3. CAM La Porta, L. Pilotti, S. Zapperi (editors) *Understanding innovation through exaptation*, Springer 2020 (ISBN 978-3-030-45783-9).
4. CAM La Porta (editor) *Skin Cancers - Risk Factors, Prevention and Therapy* ISBN 978-953-307-722-2, Hardcover, 272 pages Publisher: InTech; Publication date: November 2011

Book chapters:

5. C.A.M. La Porta *Cancer stem cells and cancer*. Chapter of the book: *Stem cells and cancer*, edited by S. Majumder, Springer. pag. 251, 2009 DOI: 10.1007/978-0-387-89611-3.
6. CAM La Porta *New perspectives in the treatment of melanoma: anti-angiogenic and anti-lymphangiogenic strategies*. Chapter of the e-book: *Frontiers in anti-cancer drug discovery*. Edited by Atta-ur-Rahman and Iqbal Choudhary, Bentham Science Publication, 1, pag.158-167 ISSN: 1879-6656 eISBN: 978-1-60805-161-8, 2010.
7. CAM La Porta *Cancer Stem Cells: Light and Shadows*, In: *Stem Cell, Regenerative Medicine and Cancer*, Editor: Shree Ram Singh, Chapter 19: pp.513-525 Chapter, Nova Science Publisher, 2010
8. Stefano Zapperi, C.A.M. La Porta *Cancer stem cells in melanoma: biomarkers and mathematical models* Chapter 10, pag. 133-142, *Cancer Stem Cells*, Wiley Press edited by V.K. Rajasekhar 2014.
9. Stefano Zapperi, CAM La Porta *Cancer Stem Cells Biomarkers* Chapter 15 pag.305-316 in: *Principles of Stem Cell Biology and Cancer: Future Applications and Therapeutics*, By Tarik Regad, Thomas Sayers, Robert Rees, John Wiley & Sons, Ltd 2015.
10. Caterina AM La Porta, Stefano Zapperi *Statical features of collective cell migration*. Chapter 5 pag 67-78 in: *Cell Migration: Causes and functions* by CAM La Porta & S Zapperi *Advances in Experimental Medicine and Biology* 1146, 2019.
11. Caterina AM La Porta, Stefano Zapperi *Phenotypic plasticity: the emergence of cancer stem cells and collective migration*. Chapter 25, pag.639-646 in: *Phenotypic switching: implication*

- in biology and medicine. Edited by Herbert Levine, Mohit Kumar Jolly, Prakash Kulkarni, Vidyanand Nanjundiah Academic Press ISBN-10: 0128179961, ISBN-13: 978-0128179963; ISBN-10: 0128179961, 2020.
12. Caterina AM La Porta, Stefano Zapperi Statistical features of collective cell migration Chapter 5 pag. 67 in Cell Migration: causes and functions. Edited by CAM La Porta and S. Zapperi Advances in Experimental Medicine and Biology 1146 Springer Press ISBN: 978303017592, 2020
 13. Caterina AM La Porta Exaptation for the Good and the Bad: Regeneration and Cancer. Chapter 4 pag. 47 in: Understanding innovation through exaptation Edited by CAM La Porta, L Pilotti and S Zapperi The Frontiers Collection Spinger, ISBN 978-3-030-45783-9 ISBN 978-3-030-45784-6 (eBook), 2020.
 14. Caterina AM La Porta Phenotypic Plasticity: Phenotypic plasticity: The emergence of cancer stem cells, collective cell migration, and the impact on immune surveillance. Chapter 13 pag. 184 in: Successes and Challenges of NK Immunotherapy: Breaking Tolerance to Cancer resistance, by B. Bonavida and A. Jewett ISBN: 9780128243756 Academic Press June 2021.
 15. Caterina AM la Porta Environmental Alterations and Oncological Diseases: The Contribution of Network Medicine Chapter 7, pag. 165, in: Ingegnoli V., Lombardo F., La Torre G. (eds) Environmental Alteration Leads to Human Disease. Sustainable Development Goals Series. Springer, Cham. https://doi.org/10.1007/978-3-030-83160-8_7, ISBN: 978-3-030-83159-2, 2022.
 16. Maria C Lionetti, Caterina AM La Porta FLIM-FRET investigation of heterogeneous huntingtin aggregation in HeLa cells. Chapter 36 in: Protein Aggregation, by A. Cieplak Methods in Molecular Biology Springer in press 2022 (24/09/2022) 978-1-0716-2596-5, 490785_1_En in press (28 August 2022)

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17. C.A.M. La Porta, nPKC δ as a new therapeutic marker for melanoma metastasis? (Review) Int J Mol Medicine, 5:467-471, 2000
18. C.A.M. La Porta, Perspectives in melanoma treatment with signal transduction, (Review) Current Medicinal Chemistry-Anticancer Agents, 2002, 3, 371-385
19. C.A.M. La Porta, Cellular cancer targets for anticancer strategies. (Review) Current Drug Targets. 5:347-55, 2004.
20. E. Galmozzi, F. Facchetti, CAM La Porta Cancer stem cells and therapeutic perspectives. Current Medicinal Chemistry, 13, 603-607, 2006
21. Floriana Facchetti, Elena Monzani, Caterina A.M. La Porta New perspectives in the treatment of melanoma: anti-angiogenic and anti-lymphoangiogenic strategies Recent Patent on Anticancer-Drug Discovery, 2, 73-78, 2007
22. Caterina A.M. La Porta Drugs resistance in melanoma: new perspectives Current Medicinal Chemistry, 14, 387-391, 2007
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26. C.A. La Porta Cancer Stem cells: lessons from melanoma. *Stem Cell Reviews* 5:61-65, 2009.
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33. C.A.M. La Porta, S. Zapperi Complexity in cancer stem cells and tumor evolution: towards precision medicine. *Seminars in Cancer Biology* 44 (2017) 3–9 .
34. C.A.M. La Porta, S. Zapperi Explaining the dynamics of tumor aggressiveness: at the crossroads between biology, artificial intelligence and complex systems. *Seminars in Cancer Biology* (2018) 53, pp. 42-47.
35. M.C. Lionetti, M.R.Fumagalli C.A.M. La Porta Melanoma plasticity and drug resistance: building a precision medicine approach. *Cancer Drug Resistance* (2020) 3, DOI: 10.20517/cdr.2019.112.
36. M. Garavaglia, G. Colombo, E. Astori, M.C. Lionetti, C.A.M. La Porta, A. Santucci, R. Rossi, G. Daniela, A. Milzani, I DalleDonne Cigarette smoke and glutathione: Focus on in vitro cell models. *Toxicology in Vitro* (2020) 65 104818.
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38. Martini D, Ragone G, Cazzini F, Cheli F, Formici G, CAM La Porta, Pinotti L, Pomodoro L, Restani P, Scaffardi L, Tedeschi G, Riso P, Violini L. The Need for A Multidisciplinary Approach to Face Challenges Related to Food, Health, and Sustainability: The Contribution of CRC I-WE Sustainability 2021, 13, 13720.

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50. C.A.M. La Porta, R. Comolli, Membrane and nuclear protein kinase C activation in the early stages of diethylnitrosamine-induced rat hepatocarcinogenesis, *Carcinogenesis* 15:1743-1747, 1994.
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 105. Caterina AM La Porta, Volume Fluctuations in active cell deformations Nordita 27-30 May 2015 Mariehamn, Åland, <http://agenda.albanova.se/conferenceDisplay.py?confId=4814>
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 108. Caterina AM La Porta, Cancer Stem cells in melanoma: a complex problem, Conference in Complex Systems CCS'15: 28 September-2 October Tempe Arizona <http://www.ccs2015.org/visit-arizona/> (invited speaker)
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111. Caterina La Porta Tackling neurodegenerative diseases by computational approaches, Conference on Complex Systems 2017 Amsterdarm 19-22 September 2016.
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 113. Caterina La Porta Burst of activity in collective cell migration American Physics Society, 16 March 2017(invited) and press conference 15-03 2pm
 114. Caterina La Porta Mechanical Properties of growing melanocytic nevi and the progression to melanoma. 44° SCUR Annual Meeting June 9-2017 (winner of the best oral presentation)
 115. C.A.M. La Porta, S. Zapperi Cancer stem cells: a complex problem First International Summer Institute on Network Physiology (ISINP), 24-29 July 2017, Como, Italy (Invited speaker)
 116. CAM La Porta Tackling complex systems, 21 September INFOLIFE2017 CINI InfoLife Laboratory Workshop 21-23 September Ca Foscari, Venezia (Invited speaker) 2018.
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 118. CAM La Porta, S. Zapperi Integrative approach to cell deformation, division and migration, Nanoengineering for Mechanobiology 25-28 March 2018 Camogli (Invited speaker)
 119. Kishore Hari, Francesc Font-Clos, Stefano Zapperi, Caterina La Porta, Mohit Kumar Jolly Characterizing the epigenetic landscape of EpithelialMesenchymalPlasticity (EMP) Regulatory epigenomics: From large data to useful models, 10 – 13 March, Chennai, India 2019.
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 122. Michael Putsch et al Activation of two distinct potassium currents in melanoma cells by oxidation. Biophysical Society Annual Meeting 2021
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IMPACT AND MEDIA COVERAGE:*Impact of the publications*

One cover for the paper published on PNAS in 2019.

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