


UNESCO CHAIR REPORT FORM



TITLE OF THE CHAIR	<i>Training and empowering human resources for health development in resource-limited countries</i>
HOST INSTITUTION	University of Brescia, Italy Website: https://www.unibs.it/ricerca/unesco-chair-cattedra-unesco
DATE OF ESTABLISHMENT OF CHAIR	<ul style="list-style-type: none"> • Signature of the agreement is dated March 2014 • Renewed on July 11th, 2018 for the period 2018-2022
PERIOD OF ACTIVITY UNDER REPORT	January – December 2020
REPORT ESTABLISHED BY	Prof. Francesco CASTELLI – Chairholder  Professor of Infectious Diseases and Deputy Rector, University of Brescia (Italy)

EXECUTIVE SUMMARY

MAJOR OUTCOMES, RESULTS AND IMPACT OF THE CHAIR, INCLUDING ON NATIONAL POLICIES, IN RELATION TO ITS OBJECTIVES AS STATED IN ARTICLE 2 OF THE CHAIR AGREEMENT (BETWEEN THE INSTITUTION AND UNESCO)

(NOT EXCEEDING 300 WORD) D UNESCO) (NOT EXCEEDING 300 WORD)

Chair's objectives (article 2 of the Chair agreement) are:

A) To provide training on Global Health at the undergraduate and post graduate level to students, health professionals and representatives of NGO

1. The Graduate Course in Global Health has taken place at the University of Brescia from February to May, 2020;
2. The Master in Tropical Medicine and Global Health, co-organized by the Universities of Florence and Brescia, has delivered 60 credits in the Academic Year 2019-20;
3. COVID-19 E-Teaching Program for Somali medical doctors, co-organized by UNESCO Chairs of the Universities of Rome Tor Vergata, Naples Federico II and Brescia;
4. Course in medicine and surgery for the last year medical students of the Somali National University (SNU), co-organized by the three UNESCO Chairs of the Universities of Brescia, Naples, Rome Tor Vergata, and the Medical Schools of the Universities of Pavia, Milan and Rome "La Sapienza";
5. Course in International Cooperation, co-organized by the "Giuseppe Tovini Foundation" and "Museke ONLUS", in collaboration with the UNESCO Chairs of the Universities of Brescia and the Catholic University of the Sacred Heart (Brescia site)

Due to the Covid-19 pandemic, the usual stage of young Italian medical students to Makerere University (Kampala, Uganda) could not take place.

B) To develop and expand collaborations in the field of global health with higher education Institutions from resource-limited countries

1. Collaborative actions in the field of global health have taken place with Kwame N'Krumah University of Science and Technology (KNUST, Kumasi, Ghana)
2. ERASMUS Plus KA Program with Kwame N'Krumah University of Science and Technology (KNUST, Kumasi, Ghana)

C) To promote operational research on HIV/AIDS, tuberculosis and malaria in Europe and highly endemic countries

The Chair has continued its research, with a specific focus on:

- i. Migration Medicine
- ii. Health in developing countries
- iii. Poverty-related diseases including TB, HIV/AIDS and malaria

D) To foster networking, capacity development and sharing of knowledge and good practices

1. Contribution, support and promotion of the publication “Lecture notes on tropical medicine and global health” by the Società Italiana di Medicina Tropicale e Salute Globale (SIMET). The publication is finalized as a guide to study the main topics of development and health in those contexts where scarcity of resources make access to health services inequitable, with the final aim to contribute to the achievement of the Sustainable Development Goals of the UN 2030 Agenda;
2. The Chairholder has presented in many national and international conferences on topics related to the Chair’s mission

E) To closely cooperate with UNESCO

1. Active participation at the meetings of the Italian UNESCO Chairs Group 1 (CONIUS: Cultural Identity, Immigration, Human rights and Health), including 11 UNESCO Chairs from different Italian Universities;
2. Participation at the Workshop “*Dialoghi delle Cattedre UNESCO: un laboratorio di idee per il mondo che verrà*” (Dialogue among UNESCO Chairs: a laboratory of innovation for the future world”);
3. The Chair has been involved in the creation of UNITWIN networks together with other UNESCO Chairs

ACTIVITIES

OVERVIEW OF ACTIVITIES UNDERTAKEN BY THE CHAIR DURING THE REPORTING PERIOD, BY OBJECTIVE (SEE EXECUTIVE SUMMARY)
 OVERVIEW OF ACTIVITIES UNDERTAKEN BY THE CHAIR IN 2020, BY OBJECTIVE (SEE EXECUTIVE SUMMARY)

A) To provide training on Global Health at the undergraduate and post-graduate level to students, health professionals and representatives of NGO

<p>1. EDUCATION (LEADING TO CERTIFICATE) (ONGOING ACTIVITY)</p> <p>Graduate Course on Global Health</p>	<p>In 2020, the Chair has organized the XXIII edition of the Graduate Course on Global Health, coordinated by the Chairholder Prof. F. Castelli and by Prof. A. Matteelli. The Course is recognized as the Core Course of the TropEd European Master in International Health (www.troped.org).</p> <p>Many Professors from other Institutions belonging to the TropEd network and national and International Non-Governmental Organizations participated in the Course. A University certificate is issued at the end of the Course. The Program of the 2020 Course (February – May 2020) is attached (Annex 1). Despite the COVID-19 pandemic, the University was able to reorganize the course in distance learning modality. In 2020, 18 students (physicians, nurse, midwives, pharmacists) attended the Course and were awarded the final Certificate and 20 ECTS (European Credit Transfer System).</p> <p>Among those, Ms Aldorada Da Gloria Julio Andrè, a nurse from Mozambique, was supported by a full scholarship by the UNESCO Chair. She completed the Course and was awarded a high score (27/30) at the final exam.</p>
<p>2. EDUCATION (LEADING TO CERTIFICATE) (ONGOING ACTIVITY)</p>	<p>The Chair also organizes, together with the Universities of Florence and Brescia, the Italian Master in Tropical Medicine and Global Health, that delivers 60 CFU (Crediti Formativi Universitari) credits to graduated students willing to gain experience and skills to work in co-operation activities in</p>

<p>Italian Master in Tropical Medicine and Global Health</p>	<p>developing Countries. In 2020, 4 students attended the Master</p>
<p>3. EDUCATION (LEADING TO CERTIFICATE)</p> <p>COVID-19 E-Teaching Program for Medical personnel in Somalia</p>	<p>COVID-19 E-Teaching Program for Somali medical doctors, co-organized by UNESCO Chair “Interdisciplinary Biotechnology and Bioethics”, University of Rome Tor Vergata; UNESCO Chair “Health Education and Sustainable Development”, University of Naples Federico II; UNESCO Chair "Training and empowering human resources for health development in resource-limited countries", University of Brescia. The Course was also supported by the Italian Agency for Cooperation and Development (AICS)</p> <p>The Course took place from 18 May to 11 June, according to the program annexed (Annex 2)</p> <p>The course consisted of an 18-hour program on epidemiology, clinical and prevention management and therapy of SARS-CoV-2. The registration and the educational material is done in English, and is provided free. Overall, 70 Medical Doctors attended the course and were awarded with the final certification of participation.</p>
<p>4. EDUCATION (LEADING TO CERTIFICATE)</p> <p>Course in medicine and surgery for the last year medical students of the Somali National University</p>	<p>The 2020 online Course in medicine and surgery for the last year medical students of the Somali national university was organized by the Faculty of Medicine of the Somali National University; the Medical School of the University of Brescia and the UNESCO Chair of University of Brescia; the Medical School of the University of Palermo; the Medical School of the University of Pavia; the Medical School, University of Rome Tor Vergata, Italy. The Course was also supported by the Italian Agency for Cooperation and Development (AICS).</p> <p>The Online Update Course was organized in 4 weeks in the months of July, 2020 for a total of 40 hours. At the end of the Online Course a Certificate of Attendance was given to students.</p> <p>The Course took place from 6th to 31st of July 2021 according to the program annexed (Annex 3)</p>
<p>5. EDUCATION (LEADING TO CERTIFICATE)</p>	<p>The 2020 Course in International Cooperation, co-organized by the “Giuseppe Tovini Foundation” and “Museke ONLUS”, in collaboration with UNESCO Chairs of University of Brescia and</p>

<p>Summer Course in International Cooperation, co-organized by the “G. Tovini Foundation” and “Museke ONLUS”, in collaboration with UNESCO Chairs of University of Brescia and Catholic University of the Sacred Heart (Brescia site)</p>	<p>Università Cattolica, Brescia, was held from October 2020 to January 2021, for a total of 40 hours (Annex 4). The aim of the course is to increase the knowledge of international cooperation strategies in order to reflect on the pedagogical paradigm implemented for the promotion and integral development of people by acquiring skills and tools useful for the implementation of international cooperation activities. The 2020 Course was successfully held in distance-learning modality. Thirty students attended the course.</p>
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<p>B) To develop and expand collaborations in the field of global health with higher education Institutions from resource-limited countries</p>	
<p>1. Collaboration with Kwame N’Krumah University of Science and Technology (KNUST, Kumasi, Ghana) and HopeXChange Medical Centre (HXMC)</p>	<p>On 26th October 2017 the University of Brescia (UniBS) and KNUST signed an MoU for developing and enhancing health research activities on Tropical Diseases, and more generally, on Medicine. The UNESCO Chair and the Department of Tropical and Infectious Diseases of the University of Brescia started operating in Kumasi since May 2016. In line with this initial MoU, all along 2018 and 2019, a research project about “Malaria and Gender” has been conducted by a UniBS PhD student.</p> <p>The implementation of the study has been accompanied by multiple visit by the senior academic staff of UniBS – UNESCO Chair, who also has provided formal and informal trained activities to local staff and students. The study results have been already presented at the annual meeting of the Italian UNESCO Chairs (Quaresima V. et al. <i>Is Plasmodium falciparum</i> malaria incidence and severity in holo-endemic areas affected by gender? Good Health, Quality Education, Sustainable Communities, Human Rights, Florence University Press, 2019, pag. 57-68) and is now submitted to and international peer-reviewed Journal (Tropical Medicine and Infectious Diseases, submitted).</p>

<p>2. UNITWIN project "Education & Health: Innovating for Sustainable Development"</p>	<p>UNESCO Chair of University of Brescia signed a letter of full support regarding the UNITWIN - "EducationS & Health: Innovating for Sustainable Development" project. A UNITWIN network that strives to contribute to the common good through knowledge and capacity building, organized by the UNESCO Chair on Sexual health & Human Rights, Paris Diderot University and the UNESCO Chair on EducationS & Health, Clermont-Ferrand University France.</p>
<p>3. Inter-institutional agreement 2020-2023 between the University of Brescia and Kwame Nkrumah University of Science and Technology</p>	<p>The University of Brescia, Italy and Kwame Nkrumah University of Science and Technology, Ghana, agree to cooperate for the exchange of students and staff in the context of the Erasmus+ Program. The Program has been approved and funded and is expected to start in late 2021 due to the constraints in travel connected with the Covid-19 pandemic.</p>

C) To promote operational research on HIV/AIDS, tuberculosis and malaria in Europe and highly endemic countries

<p>1. Research</p>	<p>The Brescia UNESCO Chair carries out research in the following fields:</p> <ul style="list-style-type: none"> - Migration medicine - Poverty-related diseases including TB, malaria and HIV/AIDS - International health - Capacity building <p>See below for the list of peer-reviewed papers published in 2020 by the Chairholder prof. Francesco Castelli and other staff of the Chair</p>
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PUBLICATIONS/MULTIMEDIA MATERIALS (MAJOR PUBLICATIONS AND TEACHING/LEARNING MATERIALS)			
Please tick relevant fields of output and indicate volume of output		[TICK]	[No]
	BOOKS	X	1
	BOOKS (EDITED)		
	BOOKS (CHAPTERS)	X	8
	MONOGRAPHS		
	RESEARCH REPORTS		
	JOURNAL ARTICLES (REFEREED)	X	39
	CONFERENCE PROCEEDINGS (INT.L)	X	4
	OCCASIONAL PAPERS		
	TEACHING/LEARNING MATERIAL		
	MULTIMEDIA MATERIALS (CD-ROM)		
	MULTIMEDIA MATERIALS (VIDEO)		
	MULTIMEDIA MATERIALS (OTHER)		
Give details of major publications and materials including full citation			
1. THESIS (2020)	<u>Thesis by Medical Doctors</u>		
	TITLE	SUPERVISOR	CANDIDATE
	Sospensione di Abacavir in pazienti con infezione da HIV per tossicità: relazione con HLA-B*57:01	Prof. Quiros Roldan	Alessandro Marchi
	Polmonite da SARS-COV-2: caratteristiche clinico-strumentali e correlazione con gli indicatori di outcome in pazienti trattati con Tocilizumab	Prof. F. Castelli	Stefania Arsuffi
	Studio dei telomeri in un gruppo di giovani adulti con infezione da HIV: correlazione con marcatori immunologici	Prof. Quiros Roldan	Federica Cavalleri
	Analisi dell'outcome viro-immunologico e clinico dell'inizio immediato vs ritardo della terapia	Prof. F. Castelli	Giulio Faletti

	antiretrovirale nel paziente con nuova diagnosi di HIV		
	Evoluzione clinica ed immunologica di una coorte di pazienti affetti da HIV di tipo2: particolarità di un'infezione sottostimata	Prof. F. Castelli	Trocchia Riccardo Mario Renato
<u>Thesis by Residents in Infectious Diseases and Tropical Medicine</u>			
	TITLE	SUPERVISOR	CANDIDATE
	Epidemia di polmoniti da Legionella Pneumophila nella provincia di Brescia nel periodo settembre-ottobre 2018: caratteristiche cliniche, approccio terapeutico e fattori legati all'outcome	Prof. Matteelli	Dr Claudia Chirico
	Immunosenescence in hiv-infected young adults after durable efficient antiretroviral therapy	Prof. Matteelli	Dr Martina Properzi
	Effetti di un integratore a base di pomodoro e acqua di vegetazione delle olive (Lygprozen) sui markers dell'ossidazione lipidica e dell'infiammazione in pazienti HIV+ con ipertrofia prostatica benigna	Prof. Matteelli	Dr Canio Carriero
	Crioglobulinemia mista e sindrome crioglobulinemica HCV- correlate nell'era dei farmaci antivirali ad azione diretta: outcome clinico ed immunologico nei soggetti trattati periodo 2015-2019	Prof. Matteelli	Dr. Davide Coletto
	Infezioni da batteri MDR nei pazienti covid19 ricoverati in terapia intensiva	Prof. Matteelli	Dr Gianluca Zuglian
	Analysis of clinical and epidemiological characteristics associated with serological response to SARS-CoV-2 in health care workers employed at ASST Spedali Civili during the outbreak	Prof. Matteelli	Dr Agnese Comelli

<p>2. PUBLICATIONS (all the 2020 publications of the Brescia UNESCO Chairholder are listed in the box. Only international peer-reviewed publications are listed).</p> <p>(UNESCO Chair affiliation is mentioned where appropriated)</p>	<p><u>Books</u></p> <p>The UNESCO Chair has participated in the editing of the Book "Lecture notes on tropical medicine and global health", published by the Italian Society of Tropical Medicine and Global Health (Series: <i>Quaderni di Medicina Tropicale e Salute Globale</i>, number 5) and has partially contributed to the funding of its publication (Annex 5). The chapters written by the staff of the Chair are listed below.</p>				
	<p><u>Books' chapters</u></p>				
	Authors	Chapter's Title	Pages	Book	Publisher
	Castelli F., Magro P. (UNESCO affiliation)	Global Health and Globalization	1-3	Lecture notes on tropical medicine and global health, Quaderni di Medicina Tropicale e Salute Globale, n. V	Società Italiana di Medicina Tropicale e Salute Globale (SIMET),
	Castelli F., Quaresima V. (UNESCO affiliation)	Sustainable Development Goals	5-8	Lecture notes on tropical medicine and global health, Quaderni di Medicina Tropicale e Salute Globale, n. V	Società Italiana di Medicina Tropicale e Salute Globale (SIMET)
Marchese V., Magro P., Matteelli A.	Sexually Transmitted Infections (STI) epidemiology, classification and impact	53-58	Lecture notes on tropical medicine and global health, Quaderni di Medicina Tropicale e Salute Globale, n. V	Società Italiana di Medicina Tropicale e Salute Globale (SIMET)	
Matteelli A., Formenti B.	Tuberculosis – Ending the TB epidemic	59-63	Lecture notes on tropical medicine and global health, Quaderni di Medicina Tropicale e Salute Globale, n. V	Società Italiana di Medicina Tropicale e Salute Globale (SIMET)	

Formenti B., Comelli A., Caligaris S.	Malaria epidemiology, global impact and control strategy	77-81	Lecture notes on tropical medicine and global health, Quaderni di Medicina Tropicale e Salute Globale, n. V	Società Italiana di Medicina Tropicale e Salute Globale (SIMET)
Comelli A., Focà E.	HIV/AIDS in Africa	93-96	Lecture notes on tropical medicine and global health, Quaderni di Medicina Tropicale e Salute Globale, n. V	Società Italiana di Medicina Tropicale e Salute Globale (SIMET)
Sorlini S., Tonelini Pereira C., Vaccari M., Vinti G.	Safe Water for all	101- 102	“Quaderni di Medicina Tropicale e Salute Globale, number V”; Lecture notes on tropical medicine and global health	Società Italiana di Medicina Tropicale e Salute Globale (SIMET)
Gregori N., Crosato V., Castelli F.	Viral hemorrhagic fevers	77-106	Handbook on selected topics in Tropical Diseases	CESI Università Cattolica, 2020

Peer-reviewed journal articles by the Chairholder

#	Authors, Title, Journal, Pages	Impact Factor
1	Quiros-Roldan E., Castelli F. , Bonito A., Vezzoli M., Calza S., Biasiotto G., Zanella I, Inflammation in HIV Study Group. The impact of integrase inhibitor-based regimens on markers of inflammation among HIV naive patients. <i>Cytokine</i> 126 (2020) 154884 https://doi.org/10.1016/j.cyto.2019.154884	3,488
2	Zammarchi L., Gobbi F., Angheben A., Spinicci M., Buonfrate D., Calleri G., De Paola M., Bevilacqua N., Carrara S., Attard L., Vanino E., Gulletta M., Festa E., Iacovazzi T., Grimaldi A., Sepe A., Salomone Megna A., Gaiera G., Castagna A., Parodi P., Albonico M., Bisoffi Z., Castelli F. , Olliaro P., Bartoloni A. Schistosomiasis, strongyloidiasis and Chagas disease: the leading imported Neglected Tropical Diseases in Italy. <i>Journal of Travel Medicine</i> , taz100, https://doi.org/10.1093/jtm/taz100	4.155

	3	Properzi M., Quiros E., Castelli F. , Chiesa A., Gregori N., Mentasti S., Focà E. Low prevalence of symptomatic thyroid diseases and thyroid cancers in HIV-infected patients. <i>Scientific Reports Nature, Sci Rep.</i> 2019 Dec 19;9(1):19459. doi: 10.1038/s41598-019-56032-7	4.011	
	4	Lorenzin G., Gargiulo F., Caruso A., Caccuri F., Focà, E., Celotti A., Quiros-Roldan E., Izzo I., Castelli F. , De Francesco M.A. Prevalence of non-B HIV-1 subtypes in North Italy and analysis of transmission clusters based on sequence data analysis. <i>Microorganisms</i> 2020, 8, 36; doi:10.3390/microorganisms8010036	4,167	
	5	Gardini G, Tomasoni LR, Castelli F. Parasitic skin infections: neglected diseases or just challenging for diagnosis? <i>Curr Opin Infect Dis.</i> 2020 Jan 27. doi: 10.1097/QCO.0000000000000634. [Epub ahead of print] (UNESCO Affiliation)	3.752	
	6	Gori A., Antinori A., Vergori A., Cossu M.V., Menzaghi B., Sterrantino G., Rusconi S., Cattelan A., Castelli F. , Gianotti N., Orofino G., Ripamonti D., Savinelli S., Manzillo E., Santantonio T.A., Celesia B.M., Cauda R., Maserati R., d'Arminio Monforte A., Stingone C., Bonora S., Uglietti A., Termini R., Rucci F., Mancusi D. The effectiveness of switching to darunavir/cobicistat in HIV-positive stable patients receiving ritonavir- boosted protease inhibitors: the TMC114FD1HTX4003 - "ST.O.RE." study. <i>J Acquir Immune Defic Syndr.</i> 2020 Feb 24. doi: 10.1097/QAI.0000000000002331. [Epub ahead of print]	3.863	
	7	Chirico C, Tomasoni LR, Corbellini S, De Francesco MA, Caruso A, Scaltriti E, Buccino S, Gregori N, Caligaris S, Castelli F. The first Italian case of XDR <i>Salmonella</i> Typhi in a traveler returning from Pakistan, 2019: an alert for increased surveillance also in European countries? <i>Travel Med Infect Dis.</i> 2020 Feb 28:101610. doi: 10.1016/j.tmaid.2020.101610. [Epub ahead of print] No abstract available	4.868	
	8	Celotti A, Gargiulo F, Quiros-Roldan E, Properzi M, De Francesco M, Coletto D, Caccuri F, Izzo I, Caruso A, Castelli F , Focà E. Presence of V72I, G123S and R127K Integrase Inhibitors polymorphisms could reduce cART effectiveness: a retrospective longitudinal study. <i>HIV Research and Clinical Practice</i> , 2020 Feb;21(1):24-33. doi: 10.1080/25787489.2020.1734753. Epub 2020 Mar 6.	2.089	
	9	Lepore L, Vairo F, D'Abramo A, Grilli E, Corpolongo A, Scorzolini L, Nisii C, Calleri G, Castelli F , Chirianni A, Ippolito G, Nicastri E. Clinical management of imported malaria in Italy: results from a national cross-sectional survey in 2015. <i>New Microbiol.</i> 2020 Mar 1;43(1). [Epub ahead of print]	1.593	

10	Rizzi M, Castelli F , Latronico N, Focà E. SARS-CoV-2 invades the West. How to face a COVID-19 epidemic in Lombardy, Northern Italy? <i>Infez Med.</i> 2020 Ahead of print Jun 1;28(2):133-134	No IF
11	Alberici F., Delbarba E., Manenti C., Econimo L., Valerio F., Pola A., Maffei C., Possenti S., Piva S., Latronico N., Focà E., Castelli F. , Gaggia P., Movilli E., Bove S., Malberti F., Farina M., Bracchi M., Costantino E.M., Bossini E., Gaggiotti M., Scolari F. on behalf of the Brescia Renal COVID Task Force Management Of Patients On Dialysis And With Kidney Transplant During SARSCOV-2 (COVID-19) Pandemic In Brescia, Italy. <i>Kidney International Report</i> , PII: S2468-0249(20)31170-0	No IF
12	Zammarchi L., Lazzarotto T., Andreoni M., Campolmi I., Pasquini L., Di Tommaso M., Simonazzi, G., Tomasoni L., Castelli F. , Galli L., Borchi B., Clerici P., Bartoloni A., Tavio M., Trotta M. Management of cytomegalovirus infection in pregnancy: is it time for valgacyclovir? <i>Clinical Microbiology and Infection</i> , 2020 Apr 11;S1198-743X(20)30193-2. (UNESCO affiliation)	6.425
13	Piva S., Filippini M., Turla F. Catteneo S., Margola A., De Fulviis S., Nardiello I., Beretta S., Ferrari L., Trotta R., Erbici G., Focà E., Castelli F. , Rasulo F., Lanspa M.J., Latronico N. Clinical presentation and initial management critically ill patients with severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection in Brescia, Italy. <i>Journal of Critical Care</i> (2020), https://doi.org/10.1016/j.jcrc.2020.04.004	2.191
14	Toniati P., Piva S., Cattalini M., Garrafa E., Regola F., Castelli F. , Franceschini F., Focà E., Andreoli L., Latronico N. Tocilizumab for the treatment of severe covid-19 pneumonia with hyperinflammatory syndrome and acute respiratory failure: a single center study of 100 patients in Brescia, Italy. <i>Autoimmun Rev.</i> 2020 May 3:102568. doi: 10.1016/j.autrev.2020.102568. [Epub ahead of print]	7.716
15	Quiros-Roldan E., Gardini G., Properzi M., Ferraresi A., Carella G., Marchi A., Malagoli A., Focà E., Castelli F. Abacavir adverse reactions related with HLA-B*57:01 haplotype in a large cohort of HIV-infected patients" <i>Pharmacogenet Genomics.</i> 2020 May 22. doi: 10.1097/FPC.0000000000000409	2.693
16	Pilotto A., Odolini S., Masciocchi S., Comelli A., Volonghi I., Gazzina S., Nocivelli S., Pezzini A., Focà E., Caruso A., Leonardi M., Pasolini M.P., Gasparotti R., Castelli F. , Ashton N., Blennow K., Zetterberg H., Padovani A. Steroid-responsive encephalitis in Covid-19 disease. <i>Annals of Neurology</i> , 2020; 00:1–5. DOI:10.1002/ana.25783	9.496

17	Castelli F. SARS-Cov-2 pandemic in the western world. The lesson learned. <i>J R Coll Physicians Edinb.</i> 2020 Jun;50 (2):110-111. doi: 10.4997/JRCPE.2020.205. (UNESCO acknowledgment)	0.660
18	Garrafa E., Brugnoli D., Barbaro M., Andreoli L., Salvetti M., Foca E., Castelli F. , Franceschini F., Piva S., Muiesan M.L., Latronico N., Levaggi R. Laboratory considerations amidst the COVID-19 outbreak: the Spedali Civili in Brescia experience. <i>Byoanalysis</i> , 2020 Jun 23. doi: 10.4155/bio-2020-0109	2.321
19	Petersen E., Koopmans M., GO U., Hamer D.H., Petrosillo N., Castelli F. , Storgaard M., Al Khalili S., Simonsen L. Comparing SARS-CoV-1 and 2 with past influenza pandemics - how countries can learn from each other. <i>Lancet Infect Dis.</i> 2020 Jul 3:S1473-3099(20)30484-9. doi: 10.1016/S1473-3099(20)30484-9.	27.516
20	Quiros-Roldan E., Properzi M., Paghera S., Raffetti E., Castelli F. , Imberti L. Factors associated with immunosenescence during early adulthood in HIV-infected patients after durable efficient combination antiretroviral therapy. <i>Science Reports</i> , 2020 Jun 22;10(1):10057. doi: 10.1038/s41598-020-67100-8	4.011
21	Doglietto F., Vezzoli M., Gheza F., Lussardi G.L., Domenicucci M., Vecchiarelli L., Zanin L., Saraceno G., Signorini L., Panciani P.P., Castelli F. , Maroldi R., Rasulo F.A., Benvenuti M.R., Portolani N., Bonardelli S., Milano G., Casiraghi A., Calza S., Fontanella M.M. Factors Associated With Surgical Mortality and Complications Among Patients With and Without Coronavirus Disease 2019 (COVID-19) in Italy. <i>JAMA Surg.</i> 2020 Jun 12. doi: 10.1001/jamasurg.2020.2713. Online ahead of print. <i>JAMA Surg.</i> 2020. PMID: 32530453	10.668
22	Lori E.M., Cozzi-Lepri A., Tavelli A., Mercurio V., Ibba S.V., Lo Caputo S., Castelli F. , Castagna A., Gori A., Marchetti G., Venditti C., Clerici M., D'Arminio Monforte A., Biasin M. Evaluation of the Effect of Protective Genetic Variants on cART Success in HIV-1-infected Patients. <i>J Biol Regul Homeost Agents.</i> 2020 Aug 4;34(4). doi: 10.23812/19-527-L. Online ahead of print	1.170
23	Moratto D., Chiarini M., Giustini V., Serana F., Magro P., Roccaro A.M., Imberti L., Castelli F. , Notarangelo L.D. Quiros-Roldan E. Flow cytometric analysis identifies risk factors and dynamic changes in patients with COVID-19. <i>Journal of Clinical Immunology</i> , https://doi.org/10.1007/s10875-020-00806-6	4.227

	24	Bai F., Aldieri C., Cattelan A., Raumer F., Moioli M.C., Morelli P.I., Rizzi M., Van Hauwermeiren E., Castelli F. , Migliorino G., Puoti M., Menzaghi B., Rizzardini G., Saracino A., Cascio A., d'Arminio Monforte A., edm1984@gmail.com , Borghi F., Tordato F.M., Marchetti G. Efficacy and safety of Dalbavancin in the treatment of Acute Bacterial Skin and Skin Structure Infections (ABSISs) and other infections in a real-life setting: data from an Italian observational multicentric study (DALBITA Study). <i>Expert Review of Anti-Infective Therapy</i> , https://doi.org/10.1080/14787210.2020.1798227	3,5
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	32	Perrone F., Piccirillo M.C., Ascierto P.A., Salvarani C., Parrella R., Marata A.M., Popoli P., Ferraris L., Marrocco-Trischitta M.M., Ripamonti D., Binda F., Bonfanti P., Squillace N., Castelli F. , Muiesan M.L., Lichtner M., Calzetti C., Salerno N.D., Atripaldi L., Cascella M., Costantini M., Dolci G., Facciolongo N.C., Fraganza F., Massari M., Montesarchio V., Mussini C., Negri E.A., Botti G., Cardone C., Gargiulo P., Gravina A., Schettino C., Arenare L., Chiodini P., Gallo C. on behalf of the TOCIVID-19 investigators. Tocilizumab for patients with COVID-19 pneumonia. The TOCIVID-19 phase 2 trial. <i>Journal of Translational Medicine</i> 2020 Oct 21;18(1):405. doi: 10.1186/s12967-020-02573-9.	4.197
	33	Grobusch MP, Weld L, Goorhuis A, Hamer DH, Schunk M, Jordan S, Mockenhaupt FP, Chappuis F, Asgeirsson H, Caumes E, Jensenius M, van Genderen PJJ, Castelli F. López-Velez R, Field V, Bottieau E, Molina I, Rapp C, Díaz Ménendez M, Gkrania-Klotsas E, Larsen CS, Malvy D, Lalloo D, Gobbi F, Florescu SA, Gautret P, Schlagenhauf P. Travel-related infections presenting in Europe - a 20-year, time-trend analysis of EuroTravNet surveillance data. <i>The Lancet Regional Health</i> , accepted for publication	To be assigned
	34	Castelnuovo F., Marchese V., Cristini G., Crosato V., Pennati F., Izzo I., Parainfo G., Van Hauwermeiren E., Castelli F. DISCHARGE WARD DURING THE SARS-cov-2 PANDEMIC. An effective way to increase patients' turnover when human resources are scarce. <i>Infezioni in Medicina</i> , 2020 Dec 1;28(4):539-544.	0,748
	35	Magro P, Zanella I, Pescarolo M, Castelli F. , Quiros-Roldan E. Lopinavir/ritonavir: repurposing an old drug for HIV infection in COVID-19 treatment. <i>Biomed J.</i> 2020 Nov 10:S2319-4170(20)30203-1. doi: 10.1016/j.bj.2020.11.005	3.697

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	37	Abers M.S., Delmonte O.M., Ricotta E.E., Fink D.L., Almeida de Jesus A., Alehashemi S., Oikonomou V., Desai J.V., Canna S.W., Fintzi J., Shakoory B., Dobbs K., Imberti L., Sottini A., Quiros-Roldan E., Castelli F. , Rossi C., Biondi A., Bettini L.R., D'Angio' M., Bonfanti P., Castagnoli R., Montagna D., Marseglia G.L., Shaw E., Kahle D.E., Rastegar A.T., Bosticardo, M., Prevots R., Follmann D., Stack M., Myint-Hpu K., Chauvin S.D., Chertow D.W., Su H.C., Kuhns D.B., Goldbach-Mansky R., Lionakis M.S., Notarangelo L.D., An immune-based biomarker signature is associated with mortality in COVID-19 patients. <i>JCI Insight</i> . 2020 Nov 24:144455. doi: 10.1172/jci.insight.144455. Online ahead of print.	6,205
	38	Pezzaioli LC, Quiros-Roldan E, Paghera S, Porcelli T, Maffezzoni F, Delbarba A, Degli Antoni M, Cappelli C, Castelli F , Ferlin A. The importance of SHBG and calculated free testosterone for the diagnosis of symptomatic hypogonadism in HIV-infected men: a single-centre real-life experience. <i>Infection</i> . 2020 Dec 8. doi: 10.1007/s15010-020-01558-6.	3,040
	39	Fabbiani M, Lombardi A, Colaneri M, Del Poggio P, Perini P, D'Ambrosio R, Degaspero E, Dibenedetto C, Giorgini A, Pasulo L, Maggiolo F, Castelli F , Brambilla P, Spinelli O, Re T, Lleo A, Rumi M, Uberti Foppa C, Soria A, Aghemo A, Lampertico P, Baiguera C, Schiavini M, Faggioli S, Bruno R; NAVIGATORE-Lombardia Study Group. High rates of sustained virological response despite premature discontinuation of directly acting antivirals in HCV-infected patients treated in a real-life setting. <i>J Viral Hepat</i> . 2020 Dec 11. doi: 10.1111/jvh.13454. Online ahead of print	3,561
<p align="center"><u>Abstracts in Conference Proceedings (International only) by the Chairholder</u></p>			
	1.	Bandera A., Cozzi-Lepri A., Cingolani A., Ceccherini-Silberstein F., Marchetti G., Rusconi S., Svicher V., Cauda R., Castelli F. , Gori A., Antinori A., d'Arminio Monforte A. Impact of universal ART access on Kaposi Sarcoma: results from the ICONA cohort. CROI, Boston, 8-11 march 2020, Abs. n. 3025	

	<ol style="list-style-type: none"> 2. Antinori A., Vergori A., Esposito V., Carleo A., Andreoni M., Malagnino V., Rusconi S., Castelli F., Focà E., Manzillo, Pizzella T., Reale L., Cappuccio A., Marini M.G., Fiorencis A. <i>Narrative medicine as PROs to understand living with HIV from patients' experiences: TMC114FD1HTX4011 - DIAMANTE study.</i> <i>HIV Glasgow 2020</i> 3. Marchese V., Matteelli A., Comelli A., Gulletta M., Tomasoni L., Properzi M., Castelli F. Diagnostic challenges in tuberculosis/COVID-19 coinfection in two members of a Chinese family in Brescia. <i>ESCMID Conference on Coronavirus, 22-23 september 2020</i> 4. Quiros E, Magro P, Carriero C, Chiesa A, El Hamad I, Tratta E, Fazio R, Formenti B, Castelli F. Titolo: How SARS CoV2 infection manifests in HIV patients? Findings of a small cohort of HIV patients hospitalized for COVID19 pneumonia. <i>ESCMID Conference on Coronavirus, 22-23 september 2020</i>
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D) To foster networking, capacity development and sharing of knowledge and good practices

<p>1. Contribution, support and promotion of the publication “Lecture notes on tropical medicine and global health” by the Società Italiana di Medicina Tropicale e Salute Globale (SIMET).</p>	<p>The publication is finalized as a guide to study the main topics of development and health in those contexts where scarcity of resources make access to health services inequitable, with the final aim to contribute to the achievement of the sustainable development goals of the un 2030 agenda.</p> <p>The lecture notes will serve as the handbook of the students of the graduate course in global health.</p> <p>The preface of the booklet is as follows:</p> <p><i>The UNESCO chair “training and empowering human resources for health development in resource-limited countries” has been established at the university of Brescia in 2014, as a recognition of the long-standing tradition of the university of Brescia in training health personnel, both Italian and foreigner, on the critical topics of global health with particular regard to low-middle income countries.</i></p> <p><i>The UNESCO chair promotes the post-graduate course in global health at the university of Brescia, that is core course of the Troped European Master</i></p>
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	<p><i>in international health (www.troped.org) and structural component of the inter-university Italian master in tropical medicine and global health.</i></p> <p><i>Among the various activities of the UNESCO chair, besides offering scholarships to attend the post-graduate course in global health and the promotion of the cultural, scientific and educational values of UNESCO, the training of health workers in social contexts of marginalization, inequity and poverty is a priority and crucial task.</i></p> <p><i>It is then a pleasure for me, in line with the statutory mandate of the UNESCO chair, to promote and support this timely publication of the Italian society of tropical medicine and global health (SIMET).</i></p> <p><i>I hope that this lecture notes will serve as a guide to study the main topics of development and health in those contexts where scarcity of resources make access to health services inequitable, with the final aim to contribute to the achievement of the sustainable development goals of the un 2030 agenda</i></p> <p><i>Brescia, June 20th, 2020</i></p>			
<p>2. Other conferences or organizational activities undertaken by the Chairholder</p>	<p>NONE</p>			
<p>3. A selection of conference presentations by the Chairholder and other colleagues</p> <p>(Note: only presentations relevant to the chair's mission are reported)</p>	<p>Lecturer</p>	<p>Title (in the language the lecture has been delivered)</p>	<p>Congress/conference</p>	<p>Venue, date</p>
	<p>Castelli F</p>	<p><i>La lotta continua tra uomo e malattie infettive: il ruolo fondamentale delle vaccinazioni</i></p>	<p>Educational even at Secondary School "Antonietti"</p>	<p>Iseo,6 February 2020</p>
	<p>Castelli F.</p>	<p>Covid-19: preparedness and challenges. The lesson learned from the Lombardy Region</p>	<p>Webinar, International Society of Ultrasound in Obstetrics & Gynecology (ISUOG)</p>	<p>Brescia, 17 March 2020 (online)</p>

Castelli F.	Covid-19: preparedness and challenges. The lesson learned from Italy	Webinar of the Royal College of Physicians, Edinburgh	Edinburgh, 20 March 2020 (online)
Castelli F.	COVID-19 - Focus on Europe, The New Epicenter The experience from Italy	Webinar of the International Society of Travel Medicine (ISTM)	Brescia, 5 April 2020 (online)
Castelli F.	CORONAVIRUS – COVID-19	Educational event for teachers of Primary Schools	Bergamo, 18 September 2020 (online)
Castelli F.	Malaria e vaccini	Celebrations of the 50th anniversary of malaria eradication in Italy	Camerino, 17 November 2020 (online)
Castelli F.	Global health	Summer School on International Cooperation and Development	Brescia, 24 November 2020 (online)
Castelli F.	Severe malaria	National Congress of the Italian Society of Infectious and Tropical Diseases	Bologna, 6 December 2020 (online)
Castelli F.	Clinical management of patients with COVID-19	Fourth Conference of the Italian Society of Virology	Brescia, 11 December 2020 (online)
Castelli F.	Cure, vaccini.... tra speranza e realtà	Pomeriggi della Medicina	Brescia, 22 December 2020 (online)

E) To closely cooperate with UNESCO

(Principals exchanges/partnerships between the chair and other institutions, including UNESCO chairs/UNITWIN networks)

<p>1. Participation at Italian UNESCO Chairs network meetings</p>	<p>During 2020, the exchanges between the Chair and the other Italian UNESCO chairs listed below and belonging to the Italian group 1 UNESCO chairs (Cultural identity, migration, human rights and health”) have continued under the coordination of prof. Paolo Orefice from the UNESCO chair in Florence.</p> <p>Sviluppo umano e cultura di pace</p> <ul style="list-style-type: none"> • Training and empowering human resources for health development in resource-limited countries (Brescia, prof. F. Castelli) • Bioetica e diritti umani (Ateneo Pontificio Regina Apostolorum, prof. A. G. Garcia) • Antropologia della salute-biosfera e sistemi di cura (Genoa, prof. A. Guerci) • Popolazione, migrazioni e sviluppo (Rome La Sapienza, prof. R. Cagiano de Azevedo) • Social and spatial integration of international migrants: urban policies and practices (IUAV, Venice) • Cultural and comparative studies on imaginary (IULM Milan, prof. P. Proietti) • Pace, sviluppo culturale e politiche culturali (International Institute Jacques Maritain, Rome) • Diritti umani democrazia e pace (Padua, prof. M. Mascia) • Pluralismo religioso e la pace (Bologna, prof. A. Melloni) <p>Due to the travel restrictions prompted by covid-19 pandemic, all meetings were held remotely: 11 June 2020 and 9 July 2020.</p> <p>The notes of those meetings are attached as Annex 6</p>
<p>2. Workshop “Dialoghi delle Cattedre UNESCO: un laboratorio di idee per il mondo che verrà”</p>	<p>The UNESCO Chair has participated at the Workshop “<i>Dialoghi delle Cattedre UNESCO: un laboratorio di idee per il mondo che verrà</i>” (Dialogue among UNESCO Chairs: a laboratory of innovation for the future world”. A short video has been</p>

	produced to present the Chair at the event and is attached to this Report (Annex 7)
3. UNITWIN networks together with other UNESCO Chairs	<p>The UNESCO Chairs: Interdisciplinary Biotechnology and Bioethics”, University of Rome Tor Vergata; “Health Education and Sustainable Development”, University of Naples Federico II; and "Training and empowering human resources for health development in resource-limited countries", University of Brescia</p> <p>Signed and agreement (annex 8) engaging and committing to join their efforts:</p> <ul style="list-style-type: none"> - to increase University research and education around the world; - to build a large-scale distributed citizen-science actions, data and results repository that will enable to advance validation of the new clinically impactful insights supported through Citizen-Science solutions; - to support the creation in Italy of joint labs for Covid-19 research, networks public Italian institutions and citizen associations. <p>The UNESCO Chair of University of Brescia also signed a letter of fully support regarding the UNITWIN - "Education & Health: Innovating for Sustainable Development" project. A UNITWIN network that strives to contribute to the common good through knowledge and capacity building, organized by the UNESCO Chair on Sexual health & Human Rights, Paris Diderot University and the UNESCO Chair on EducationS & Health, Clermont-Ferrand University France.</p>
4. Co-operation with UNESCO Headquarters, Field Offices	<p>Due to the Covid-19 linked travel restrictions, no meeting at UNESCO Headquarters has taken place in 2020.</p>

OTHER ACTIVITIES OF THE UNESCO CHAIR

1. The Brescia UNESCO Chair actively interacted with the WHO Collaborating Centre (WHO-CC) on “TB/HIV joint activities and TB elimination strategy” (headed by Prof. Alberto Matteelli) which is hosted by the same Department at the University of Brescia.
2. The Chair is collaborating with the Italian NGO Medicus Mundi Italy in the following projects in Mozambique
 - *Care Evolution* - General Objective: To improve health conditions in the population of the Province of Inhambane (Mozambique). Specific Objective: To improve health coverage in the Districts of Morrumbene and Homoine (Province of Inhambane, Mozambique) through innovative practices, scientifically validated, with particular regard to HIV infection and children malnutrition.
 - *Till the end* - To improve access to detection and treatment of tuberculosis in the Province of Inhambane, Mozambique; To evaluate the effectiveness of using mobile Genexpert to detect active tuberculosis in a rural setting (Districts of Massinga, Funhalouro, Homoine e Morrumbene); To evaluate the prevalence of rifampicine resistance in a rural setting of the Province of Inhambane, Mozambique.
3. The Chairholder Prof. Francesco Castelli has been appointed Co-Chair (together with Prof. Christina Greenaway from Montreal) of the ISTM (International Society of Travel Medicine) Task Force for Migration Health.

FUTURE PLANS AND DEVELOPMENT PROSPECTS (outline of action plan for the next biennium and short/medium and long-term development prospects. please, do not hesitate to refer to difficulties that the chair has experienced)

Short-medium term action plan:

Due to the Covid-19 pandemic (that has hit particularly hard the area of Brescia, the first to be involved in the western world in late February 2020), the activities of the UNESCO Chair have slowed down, with particular regard to:

- field activities in Africa;
- migration medicine;
- Involvement of UNESCO secondary Schools.

Apart from continuing the traditional ongoing activities (Courses, research) described in the present report, the above-mentioned issues will therefore be the prioritized for the next biennium. In particular:

- new agreements with higher education institutions in the African continent will be pursued
- new educational activities in the field of migration health will be activated, in collaboration with other European institutions
- the educational projects involving primary and secondary UNESCO schools will be revitalized in collaboration with UNESCO Chair of the Catholic University of the Sacred Heart will be proposed again (as recommended by UNESCO Headquarters in the reaccreditation letter in 2018)

The new role of Prof. Castelli as deputy Rector of the University of Brescia will also be instrumental to continue the promotion of the Sustainable development Goals culture in the academic and student communities of the University of Brescia.

The Chair also intends to reinforce the ties with the newly created Italian University Network for Peace (Universities for Peace) that has been promoted in Italy by the Universities of Brescia and Pisa, now gathering more than 50 Italian Universities

Long term action plan

The Chair intends to broaden its spectrum of activities within the network of Italian UNESCO Chairs. Furthermore, due to its intrinsic vocation to an international frame of action, the Chairs to involve as much as possible other UNESCO Chairs in low-middle income countries (especially in those African countries where the Chairs operates) with the final aim to disseminate the culture of peace and development in the frame of the 2030 UN Agenda.

HUMAN RESOURCES

The following staff of the University of Brescia have contributed to the UNESCO Chair achievements:

1) At the School of Medicine

- Prof. Francesco Castelli, Professor of infectious diseases, UNESCO Chairholder, and Deputy Rector, University of Brescia
- Prof. Alberto Matteelli, Associate Professor of infectious diseases and Director, WHO collaborating Centre on “TB/HIV joint activities and TB elimination strategies”, University of Brescia
- Prof. Maria Eugenia Quiros Roldan, Associate Professor of Infectious Diseases, University of Brescia
- Dr Silvio Caligaris, Head, Unit for tropical diseases, Spedali Civili general hospital, Brescia
- Dr Lina R. Tomasoni, Unit for tropical diseases, Spedali Civili general hospital, Brescia
- Dr Emanuele Focà, Assistant professor of Infectious Diseases, University of Brescia
- Dr Virginia Quaresima, Brescia ASST Spedali Civili Hospital
- Dr Beatrice Formenti, scholar at the Chair
- Ms Claudia Binetti, Secretary, University of Brescia

2) At the School of Engineering

- Prof. Sabrina Sorlini, Associate Professor of health engineering, university of Brescia
- Prof. Roberto Ranzi, Professor of hydraulics and Rector’s Delegate for International Affairs

THE UNESCO CHAIR OF THE UNIVERSITY OF BRESCIA ALSO COLLABORATES WITH PROF. DOMENICO SIMEONE, UNESCO CHAIRHOLDER OF THE UNESCO CHAIR “EDUCATION FOR HUMAN DEVELOPMENT AND SOLIDARITY AMONG PEOPLES, CATHOLIC NIVERSITY OF THE SACRED HEART, BRESCIA

FINANCIAL RESOURCES			
<p>Please tick sources of financial contribution and specify the amount in US dollars</p> <p>(NOTE: pertinent to 2020 only)</p>		[TICK]	[AMOUNT (\$)]
	HOST INSTITUTION	<input type="checkbox"/>	in kind
	PARTNER INSTITUTION	<input type="checkbox"/>	
	GOVERNMENT BODY	<input type="checkbox"/>	
	OTHER PUBLIC INSTITUTION/BODY (including research councils)	<input type="checkbox"/>	
	UNESCO	<input type="checkbox"/>	
	OTHER UN AGENCIES	<input type="checkbox"/>	
	IGO	<input type="checkbox"/>	
	NGO	<input type="checkbox"/>	
	INDUSTRY	<input type="checkbox"/>	
	OTHER PRIVATE	<input type="checkbox"/>	
<p>At the end of the year 2019, the Brescia UNESCO Chairs' fund was € 53.952,76</p> <p>During the year 2020 none donations received.</p> <p>During the year 2020, the following expenses were done:</p> <ul style="list-style-type: none"> - Travel from Brescia (Italy) to Mozambique (Dott. Aldorada Da Gloria Julio Andre): € 1.692,03 - Scholarship (Dott. Aldorada Da Gloria Julio Andre): € 6.003,36 <p>Totaling: 7.695,39 euros</p> <p>At the end of 2020, the balance is € 46.257,37</p>			

Annexes

Annex 1. Program of the post-graduated Course on Global Health (Edition 2020)

Annex 2. COVID-19 E-Teaching Program for Medical personnel in Somalia

Annex 3. Course in medicine and surgery for the last year medical students of the Somali national university

Annex 4. Summer Course in International Cooperation, co-organized by the “G. Tovini Foundation” and “Museke ONLUS”, in collaboration with UNESCO Chairs of University of Brescia and Catholic University of the Sacred Heart (Brescia site)

Annex 5. “Lecture notes on tropical medicine and global health” by the Società Italiana di Medicina Tropicale e Salute Globale (SIMET)

Annex 6. Minutes of the Italian UNESCO Chairs network meetings

Annex 7. Chair Presentation Video Workshop “Dialoghi delle Cattedre UNESCO: un laboratorio di idee per il mondo che verrà”

Annex 8. Letter of Engagement UNITWIN Italy Covid19