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Research interests

I am currently a junior assistant professor at the University of Verona in Infectious Disease, Molecular Virology and anti-viral Immunity, while having an honorary position at the University of Liverpool. Since my first paper during my PhD in 2015, I have co-authored 37 papers with 11 first name and 2 last-name authorship: with h-index=13 and total citations=1300. My research area focuses on the definition of the interaction between human viruses (HIV, SARS-CoV2, HCV, HBV)/bacteria (*Mtb*) and host proteins using cell-based *in vitro* infection assays, *in vitro* cell stimulation assay, immune phenotyping using multiparameter flow cytometry, DNA and RNA sequencing, proteome profiling, studies on patients' cohorts. I also have a commitment towards publishing sector, not only in the function of reviewer for numerous journals, but also in the role of Guest Editor for IJMS-MDPI (Special Issue: "Viral Infection and Immune Responses"), Frontiers in Immunology (Special Issue: "Post-translational modifications and anti-virus immune response") and for Life-MDPI (Special Issue: "HIV & SARS-CoV-2: RNA virus on the lead"). At the moment, I am responsible for the module in "Gene and cellular Therapy" for the Master in Translational Research and Precision Medicine, I am part of the teaching staff of the PhD school in "APPLIED SCIENCES OF LIFE AND HEALTH", of the School of Specializations in Microbiology, in Pharmacology and in Genetics. I am already in possession of the National Scientific Qualifications (ASN) in Microbiology (Med07) and in applied methodology in medical studies (Med46/50) which are required to be promoted to associate professor in Italy.

EDUCATION

Teaching course and certificate	University of Liverpool. Certificate title: "Higher Education Academy Fellow".	2017
PhD	University of Liverpool. Thesis title: "HIV-1 persistence during ART". Supervisor: Prof Anna Maria Geretti.	2016
Master in Genetics and Molecular Biology (110 cum lode/110-highest honors)	"La Sapienza" University of Rome (IT). Thesis title: "CRM1 and the regulation of mitosis". Supervisor: Prof Maurizio Gatti.	2011
Bachelor in Genetics and Molecular Biology	"La Sapienza", University of Rome (IT). Thesis title: "An overview on HIV-1 vaccine strategies". Supervisor: Prof Milena Grossi.	2009

POST HELD

RTDA – Junior Assistant Professor , University of Verona (UNIVR, IT)	April 2021 - date
Senior research consultant , Ospedale pediatrico Bambino Gesù (OPBG, IT).	April 2021 – December 2021
Research associate , Ospedale pediatrico Bambino Gesù (OPBG, IT).	Dec 2018-April 2021
Honorary research associate , University of Liverpool (UK).	May 2018-date
MATERNITY LEAVE (Doc1 and Doc2)	Jan 2018-May 2018
Research associate , University of Liverpool (UK).	
Lab Manager , University of Science & Technology and Komfo Anokye Teaching Hospital, Kumasi (GH).	Nov 2015
Research Assistant , University of Verona (IT).	2008-2009

RESEARCH APPOINTMENTS

Research associate , University of Ghent (BL)-EFIS Short term fellowship	Feb – Apr 2017
PhD Fellow , University di Ghent (BL).	Jan 2014
Master student , Centro Nazionale delle Ricerche, CNR (IT).	Sept 2010 – Dec 2011
Master student , Istituto superiore di Sanità (IT).	Sept – Dec 2009
Bachelor student , Imperial College London (UK).	July – Sept 2009

PERSONAL DISTICTION

BHIVA best poster award	2023
SIMIT scholarship – oral presentation invitation	2022
ICAR-CROI award	2021

CROI scholarship investigator – (VIRTUAL CROI) - oral presentation	2021
IAS scholarship investigator – (VIRTUAL IAS) - poster presentation	2020
EPIICAL 15-20 grant (Fondazione PENTA) - Research associate	2018 - 2021
EFIS- Short-term Fellowship	2016-2017
European Community's FP7 - Research associate	2016-2018
SGM travel grant - meeting attendance (Keystone, USA)	2015
BHIVA – research grant (£10,000)	2013-2014
University of Liverpool – PhD studentship	2012-2015
Euoprise – Research assistant	2009

ADDITIONAL COURSES

Statistics – Software “R”, Roma (IT)	2019
Immunology- 10thHKU Pasteur Immunology course “Quantitative Immunology”, Hong Kong	2018
Project Management: PMP course	2018
Teaching course: “Associate Fellow” for the UK professional standard for teaching and learning support in higher education	2017
Management course at Liverpool Tropical School of Medicine: TROR 708	2015

TEACHING ACTIVITY

University of Verona

- Member of the Faculty board for the PhD school “Applied Biosciences”
- Member of the Faculty board for the School of Specialization in Microbiology
- Member of the Faculty board for the School of Specialization in Pharmacology
- Member of the Faculty board for the School of Specialization in Genetics
- **Main Lecturer** for the course entitled “MultiOmics: Molecular Biology tools for medicine” (PhD students in Bioscience, School of Specialization in Microbiology, in Pharmacology and in Genetics) = 24 hrs
- **Main Lecturer** for the course entitled “**HIV and retroviruses**” (PhD students in Bioscience) = 10 hrs
- **Main Lecturer** for the course entitled “Gene Therapy” (Master in Translational Research and Precision Medicine) = 45 hrs
- **Main Lecturer** for the course entitled “Molecular Biology” (master’s in medicine) = 48 hrs
- Co-teacher in Molecular Biology (master’s in medicine)
- Co-teacher in Gene Therapy (master’s in biotechnology)
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University of Liverpool (2017-2018)

- Instructor in Molecular Virology = 10 hrs

University of Liverpool (2013-2015)

- Teaching assistant for lab-based activity related to biology, biostatistics, molecular biology, and genetics (Bachelor in Biology) = 60 hrs

ACTIVITY as SUPERVISOR

University of Verona

Official Supervisor Master: Alessia Campese	2023-date
Official Supervisor Bachelor: Gaia Rossetto	2022-2023
Official Supervisor Master: Enes Thaci	2022-date
Official Supervisor Master: Alexandrina Dabija	2022-date
Co-Supervisor PhD in collaboration with Roche Pharma: Michele Bissoli	2022-2023
Official Supervisor bachelor: Federico Cubi	2023-2024
Official Supervisor Master: Michele Bissoli	2021-2022

Ospedale Pediatrico Bambino Gesù

Supervision/tutoring Research technician: Chiara Medri	2018-2022
Supervision/tutoring PhD student: Elena Morrocchi, Libera Sessa.	

University of Liverpool

2014-2018

Supervision/tutoring PhD student: Marion Pouget,
Lindsay McKay, Jordan Thomas. Master Student:
Lydia Ritter, Leigh Taggart.

EDITORIAL ACTIVITY

<i>Guest Editor for Special Issue in 'IJMS'</i>	2024-date
<i>Guest Editor for Special Issue in 'Frontiers in Immunology'</i>	2022-date
<i>Guest Editor for Special Issue in 'Life'</i>	2021-date
<i>Reviewer for the following journals</i>	2017-date
Reviews in Medical Virology AIDS research and therapy BMC Infectious Disease	
<i>Reviewer of grant application</i>	2017-date
Just Italia foundation	

PROFESSIONAL SOCIETY MEMBERSHIP

The Italian Society of Biophysics and Molecular Biology (SIBBM)	2023-date
Società Italiana Microbiologia (SIM)	2022-date
Società Italiana Virologia (SIV)	2022-date
British Society for Immunology (BSI)	2016- date
Society General Microbiology (SGM)	2014-date
International Association for Italian Researchers (AIRI)	2013-date
British Society Nanomedicine (BSN)	2016-date
British HIV Association (BHIVA)	2012-date

PROFESSIONAL SKILLS

Grants

Date	Funder	Title	Role	Value (€)
2023-2025	Italian Minster of Research – MIUR – PRIN grant	In vitro investigation of the effects of SARS-CoV-2 Spike post-translational modifications on virus infectivity and sensitivity to Neutralization – score 100/100 – 1st awarded of the category	PRINCIPAL INVESTIGATOR	€ 211.480,00
2023 - 2025	Roche - Diagnostics International Ltd Switzerland	Evolution of anti-SARS-CoV-2 neutralising antibodies in relation to anti-spike (S) and anti-nucleocapsid (NC) reactivity after infection or vaccination (EVAN-COV)	PRINCIPAL INVESTIGATOR	€ 106.000, 000
2022 - 2025	F. Hoffmann- La Roche Ltd - Borsa di Dottorato secondo lo schema ministeriale – DM 352	Study of innovative markers associated with Hepatitis B virus pathogenesis to guide the development of personalized medical approaches	CO-SUPERVISOR and CO-PI	€ 45.000, 000
2020 - 2025	PENTA foundation	EPIICAL 2020-2024 Novel Strategies to obtain long-term viral remission in Early Treated HIV infected children.	Collaborator (Palma P. OPBG group)	€ 9.000.000,00
2016 - 2020	European Union's Horizon 2020 Research and Innovation Programme	“European HIV Vaccine Alliance” (EHVA).	Collaborator (Prof. WA Paxton group)	£ 250.000,00 per l'unità Paxton

2012-2017	HEALTH-F3-2012-305578	PathCo	Collaborator (Prof. WA Paxton group)	£ 400.000,00 per l'unità Paxton
2013 - 2014	British Association HIV	Project: "Do antiretrovirals in nanoformulations improve control of HIV-1 persistence during ART?".	PRINCIPAL INVESTIGATOR	£ 10.000,00
2009	Europrise	HIV research	Collaborator	NA

Lab Skills

Infected specimens handling, infected cell culture, viral work (certified category 3 laboratory work)

Isolation and culture of cells from monkey, mouse, rabbit, and human tissue; growing, maintenance and quantification of HIV-1. Generation of hybridomas for antibodies production. HIV-1 and *Mtb* co-infection assays.

Molecular biology and biochemistry

Retroviral and lentiviral vectors design and production. DNA cloning and sequencing (Sanger, ultra-deep and Single Molecule, Real-Time (SMRT)); Western blotting; protein immuno-precipitation.

PCR

PCR/rPCR/qPCR/ddPCR

Immunology

Multiparameter flow cytometry, Immunofluorescence; ELISA assays, neutralization assay to test mono and polyclonal antibodies

Animal work

Mouse: retro-orbital eye bleed, intravenous tail injection
Rabbit: collection of blood via the marginal ear vein *or* eye, intravenous tail injection

Microscopy

Nikon Eclipse 50i – Nikon Eclipse 90i – Nikon Eclipse Ti – Leica DM6000 – Zeiss Axiovert 200 – Zeiss LSM710 – Zeiss LSM780. Software for analysis: Adobe Photoshop & Illustrator, ImageJ.

Bioinformatics

BLAST – ViroBLAST – ClustalW – ROBETTA – Phyre2 – Hhpred

Statistics

IBM SPSS, GraphPad Prism, Rstudio

Language skills

ITALIAN: Native

	Comprehension		Speaking		Writing	
ENGLISH	C2	C2	C2	C2	C2	C2
SPANISH	B1	B1	B1	B1	B1	B1
GERMAN	A1	A1	A1	A1	A1	A1
Levels: A1 / A2: Basic user - B1 / B2: Intermediate user - C1 / C2: Advanced user Common European Framework of Reference for Languages						

ORAL AND POSTER PRESENTATIONS

Oral Presentations

- 2023 British HIV Association (BHIVA).** 24-26 April. Gateshead (UK). Invited spaker – best poster oral presentation and award. Title: Rapid HIV progression in patients with increased prevalence of unstable HLA-C variants.
- 2022 SIMIT. INVITED TALK.** 20-23 November. Rome (IT). Title: Measuring SARS-CoV-2 neutralizing antibodies (NAbs) in immunocompromised people living with HIV: cPass as an alternative to gold-standard methods.
- 2021 CROI. INVITED TALK.** Virtual conference. Title: Characterisation of SARS-CoV-2-infected children developing neutralising antibodies.
- 2019 EPIICAL General Assembly. INVITED TALK.** 0-22 Novemb34 2019. Cape Town (Sud Africa). Title: B-cells characterization in the CARMA cohort.
- 2016 HIV Drug Therapy.** Villa G., Phillips R.O., Smith C., Stockdale A.J., Beloukas A., Appiah L.T., Chadwick D., Ruggiero A., Sarfo F.S., Post F., Geretti A.M. Oral Presentation Title: Renal health after long-term exposure to

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tenofovir disoproxil fumarate (TDF) in HIV/HBV co-infected individuals in sub-Saharan Africa: results from the HEPIK cohort. HIV Drug Therapy, 23-26 October 2016. Glasgow (UK).

6. 2015 SGM Annual Conference. **INVITED TALK**. Title: The burden of integrated HIV-1 DNA during suppressive ART is associated with levels of activated (HLA-DR+) CD8 T cells. SGM Annual Conference, 30 March – 2 April 2015. Birmingham (UK).

Posters

1. **2023 British HIV Association (BHIVA)**. 24-26 April. Gateshead (UK). Invited spaker – best poster oral presentation and award. **Alessandra Ruggiero**, Chiara Stefani, Antonella Sangalli, Elena Locatelli, Tania Federico, Giovanni Malerba, Maria Grazia Romanelli, GA. Argañaraz, BCM. Da Silva, AJ. Duarte Da Silva, J. Casseb, ER. Argañaraz, Donato Zipeto. Title: Rapid HIV progression in patients with increased prevalence of unstable HLA-C variants.
2. **2023 British HIV Association (BHIVA)**. 24-26 April. Gateshead (UK). **Alessandra Ruggiero**, Chiara Stefani, Ludovica Ferrari, Lorenzo Piermatteo, Francesco Bonfante, Matteo Pagliari, Marco Iannetta, Francesca Ceccherini-Silberstein, Massimo Andreoni, Loredana Sarmati, Anna Maria Geretti for the EVOTEC Study Group. Title: SARS-CoV-2 neutralization by cPass vs PRNT in previously advanced HIV infection.
3. **2022 World Vaccine Congress**. 11-14 October Barcellona (Spagna). **Alessandra Ruggiero**, Chiara Stefani, Ludovica Ferrari, Lorenzo Piermatteo, Federica Caldara, Francesco Bonfante, Marco Iannetta, Massimo Andreoni, Loredana Sarmati, Anna Maria Geretti for the PTVax Study Group. Titolo: Measuring SARS-CoV-2 neutralizing antibodies (NAbs) in immunocompromised people living with HIV: cPass as an alternative to gold-standard methods.
4. **2022 World Vaccine Congress**. 11-14 October Barcellona (Spagna). **Alessandra Ruggiero**, Chiara Piubelli, Lucia Calciano, Concetta Castilletti, Natalia Tiberti, Silvia Stefania Longoni, Simone Accordini, Zeno Bisoffi, Donato Zipeto. Title: Individuals who develop SARS-CoV-2 specific IgM-S following BNT162b2 vaccination showed longer humoral immunity and lower risk of infection
5. **2022 SIV**. 3-5 Luglio Napoli (Italia). **Alessandra Ruggiero**, Chiara Piubelli, Lucia Calciano, Gabriel Siracusano, Maria Teresa Valenti, Luca Giuseppe Delle Carbonare, Tobia Fantoni, Lucia Lopalco, Simone Accordini, Alberto Beretta, Bisoffi Zeno, Donato Zipeto. Title: Development of SARS-CoV-2 IgM after 1st vaccine dose predicts longer immunity.
6. **2022 ICAR**. 14-16 Giugno Bergamo (Italia). **Alessandra Ruggiero**, Chiara Piubelli, Lucia Calciano, Gabriel Siracusano, Maria Teresa Valenti, Luca Giuseppe Delle Carbonare, Tobia Fantoni, Lucia Lopalco, Simone Accordini, Alberto Beretta, Bisoffi Zeno, Donato Zipeto. Titolo: Development of SARS-CoV-2 IgM after 1st vaccine dose predicts longer immunity.
7. **2020 AIDS Conference**. **Alessandra Ruggiero**, Nicola Cotugno, Sara Domínguez-Rodríguez, Sonia Zicari, Stefano Rinaldi, Paola Zangari, Alfredo Tagarro, Caroline Foster, Anita De Rossi, Eleni Nastouli, Katherine Luzuriaga, Carlo Giaquinto, Paolo Rossi, Savita Pawha, Paolo Palma on behalf of the EPIICAL consortium. Title: Aging B-cells (ABC) and anti-Env humoral responses are associated with T-bet expression in B-cells of perinatally HIV infected children (PHIV) treated within 24 months (m) of life (the CARMA cohort).
8. **2018 British HIV Association (BHIVA)**. 17-20 April 2018, Edinburgh (UK). Villa G., Ruggiero A., Owen A., Geretti AM. Title: Antiretrovirals in nanoparticle formulation to improve control of HIV replication and prevent viral escape.
9. **2017 European meeting on HIV&Hepatitis**. 7-9 June 2017, Rome (Italy). **Alessandra Ruggiero**, Malatinkova E., De Spiegelaere W., Rutsaert S Geretti AM, Vandekerckhove L., Pollakis G., Paxton WA. Title: Development of a more sensitive integrated HIV-1 DNA quantification assay.
10. **2016 HIV Drug Therapy**, 23-26 October 2016. Glasgow (UK). Villa G., Phillips R.O., Smith C., Stockdale A.J., Beloukas A., Appiah L.T., Chadwick D., Ruggiero A., Sarfo F.S., Post F., Geretti A.M. Title: Long-term virological outcomes of replacing zidovudine or stavudine with tenofovir as part of ART in adults receiving HIV care in the absence of routine virological monitoring in Kumasi, Ghana.
11. **2015 Keystone Symposia**. 26 April – 1 May 2015, Boston (USA). **Alessandra Ruggiero**, De Spiegelaere W., Cozzi-Lepri A., Kiselinova M., Pollakis G., Beloukas A., Mackie N., Vandekerckhove L., Phillips A. and Geretti A.M. Title: The burden of integrated HIV-1 DNA during suppressive ART is associated with levels of activated (HLA-DR+) CD8 T cells.
12. **2015 British HIV Association (BHIVA)**. 21-24 April 2015. Brighton (UK). **Alessandra Ruggiero**, De Spiegelaere W., Cozzi-Lepri A., Kiselinova M., Pollakis G., Beloukas A., Mackie N., Vandekerckhove L., Phillips A. and Geretti A.M. Title: The burden of integrated HIV-1 DNA during suppressive ART is associated with levels of activated (HLA-DR+) CD8 T cells.

Podcasts

- Invited speaker at the Radio show “Non é la radio” to discuss SARS-CoV-2 (2019).

Other contributions

- ReadFiles. 2022 page 10. Title: Nuove frontiere dei test di resistenza genotipica. LINK: https://www.readfiles.it/download/rivista/2022/2022_1.pdf. **Alessandra Ruggiero** e Anna Maria Geretti.
- Zanichelli online 2020. Title: Le eccezioni alla regola dell'infezione. LINK: <https://sibbm.zanichelli.it/italiano/2020/08/23/eccezioni-covid-19/>. Barbara Illi, Silvia De Francia, Bianca Masturzo, **Alessandra Ruggiero**, Donato Amodio, Pierangela Totta, Tullia Todros e Sara Gandini.

PUBLICATIONS OVERVIEW

<https://www.scopus.com/authid/detail.uri?authorid=56665477200>

N = 37 since 2015 (academic age= 8 years)

H-index= 13

Total citations= 1300

PUBLICATIONS LIST

(* = equally contributing)

- 1- Bombieri C, Corsi A, Trabetti E, **Ruggiero A**, Marchetto G, Vattemi G, Valenti M.T., Zipeto D, Romanelli M.G. Advanced Cellular Models for Rare Disease Study: Exploring Neural, Muscle and Skeletal Organoids. *Int. J. Mol. Sci.* 2024, 25, 1014. <https://doi.org/10.3390/ijms25021014>.
- 2- Fantoni T, Bissoli M, Stefani C, Voi M, Dabija A, Casula R, Minafra DL, da Fonseca Palmeira J, Argañaraz ER, Mayora-Neto M, Temperton NJ, Zipeto D, **Ruggiero A**. Pseudotyped Viruses As a Molecular Tool to Monitor Humoral Immune Responses Against SARS-CoV-2 Via Neutralization Assay. *J Vis Exp.* 2023 Nov 21;(201). doi: 10.3791/65658. PMID: 38078607.
- 3- Donnellan S*, Pennington SH*, **Ruggiero A***, Martinez-Rodriguez C, Pouget M, Thomas J, Ward SA, Pollakis G, Biagini GA, Paxton WA. A quantitative method for the study of HIV-1 and Mycobacterium tuberculosis co-infection. *J Infect Dis.* 2023 Mar 1;227(5):708-713. doi: 10.1093/infdis/jiac491. PMID: 36537213; PMCID: PMC9978310.
- 4- Piubelli C*, **Ruggiero A***, Calciano L, Mazzi C, Castillett C, Tiberti N, Calderr S, Verzè M, Longoni SS, Accordini S, Bisoffi Z, Zipeto D. Subjects who developed SARS-CoV-2 specific IgM after vaccination show a longer humoral immunity and a lower frequency of infection. *EBioMedicine.* 2023 Feb 13;89:104471. doi: 10.1016/j.ebiom.2023.104471. Epub ahead of print. PMID: 36796232; PMCID: PMC9925293.
- 5- Stefani C, Fantoni T, Bissoli M, Thomas J, **Ruggiero A (last & corresponding)**. HIV and SARS-CoV-2 Co-Infection: From Population Study Evidence to In Vitro Studies. *Life (Basel).* 2022 Dec 13;12(12):2089. doi: 10.3390/life12122089. PMID: 36556453; PMCID: PMC9781275.
- 6- Stefani C, Sangalli A, Locatelli E, Federico T, Malerba G, Romanelli MG, Argañaraz GA, Da Silva BCM, Da Silva AJD, Casseb J, Argañaraz ER, **Ruggiero A**, Zipeto D. Increased Prevalence of Unstable HLA-C Variants in HIV-1 Rapid-Progressor Patients. *Int J Mol Sci.* 2022 Nov 27;23(23):14852. doi: 10.3390/ijms232314852. PMID: 36499177; PMCID: PMC9741376.
- 7- Siracusano G, **Ruggiero A**, Bisoffi Z, Piubelli C, Carbonare LD, Valenti MT, Mayora-Neto M, Temperton N, Lopalco L, Zipeto D. Different decay of antibody response and VOC sensitivity in naïve and previously infected subjects at 15 weeks following vaccination with BNT162b2. *J Transl Med.* 2022 Jan 8;20(1):22. doi: 10.1186/s12967-021-03208-3. PMID: 34998405; PMCID: PMC8742572.
- 8- Morrocchi E, Pighi C, Pascucci GR, Cotugno N, Medri C, Amodio D, Colagrossi L, **Ruggiero A**, Manno EC, Tumeo CC, Bernardi S, Smolen KK, Perno CF, Ozonoff A, Rossi P, Levy O, Palma P. Perinatally HIV-infected adolescents and young adults demonstrate distinct BNT162b2 mRNA COVID-19 vaccine immunogenicity. *Clin Infect Dis.* 2022 Jun 23:ciac408. doi: 10.1093/cid/ciac408. Epub ahead of print. PMID: 35738253; PMCID: PMC9278233.
- 9- Domínguez-Rodríguez S, Tagarro A, Foster C, Palma P, Cotugno N, Zicari S, **Ruggiero A**, de Rossi A, Dalzini A, Pahwa S, Rinaldi S, Nastouli E, Marcelin AG, Dorgham K, Sauce D, Gartner K, Rossi P, Giaquinto C, Rojo P. Clinical, Virological and Immunological Subphenotypes in a Cohort of Early Treated HIV-Infected Children. *Front Immunol.* 2022 May 3;13:875692. doi: 10.3389/fimmu.2022.875692. PMID: 35592310; PMCID: PMC9111748.
- 10- **Ruggiero A***, Pascucci GR*, Cotugno N*, Domínguez-Rodríguez S, Rinaldi S, Tagarro A, Rojo P, Foster C, Bamford A, De Rossi A, Nastouli E, Klein N, Morrocchi E, Fatou B, Smolen KK, Ozonoff A, Di Pastena M, Luzuriaga K, Steen H, Giaquinto C, Goulder P, Rossi P, Levy O, Pahwa S, Palma P; EPIICAL Consortium. Determinants of B-Cell Compartment Hyperactivation in European Adolescents Living With Perinatally Acquired HIV-1 After Over 10 Years of Suppressive Therapy. *Front Immunol.* 2022 Mar 31;13:860418. doi: 10.3389/fimmu.2022.860418. PMID: 35432380; PMCID: PMC9009387.
- 11- McKay LGA, Thomas J, Albalawi W, Fattaccioli A, Dieu M, **Ruggiero A**, McKeating JA, Ball JK, Tarr AW, Renard P, Pollakis G, Paxton WA. The HCV Envelope Glycoprotein Down-Modulates NF-κB Signalling and Associates With Stimulation of the Host Endoplasmic Reticulum Stress Pathway. *Front Immunol.* 2022 Mar 15;13:831695. doi: 10.3389/fimmu.2022.831695. PMID: 35371105; PMCID: PMC8964954.

- 12- **Ruggiero A**, Piubelli C, Calciano L, Accordini S, Valenti MT, Carbonare LD, Siracusano G, Temperton N, Tiberti N, Longoni SS, Pizzato M, Accordini S; A.M.S.L.V. group, Fantoni T, Lopalco L, Beretta A, Bisoffi Z, Zipeto D. SARS-CoV-2 vaccination elicits unconventional IgM specific responses in naïve and previously COVID-19-infected individuals. *EBioMedicine*. 2022 Mar;77:103888. doi: 10.1016/j.ebiom.2022.103888. Epub 2022 Feb 20. PMID: 35196644; PMCID: PMC8858081.
- 13- Cotugno N*, Pighi C*, Morrocchi E*, **Ruggiero A***, Amodio D, Medri C, Colagrossi L, Russo C, Di Cesare S, Santilli V, Manno EC, Zangari P, Giancotta C, Bernardi S, Nicolosi L, Ciofi Degli Atti M, Raponi M, Zaffina S, Alfieri S, Kirk R, Perno CF, Rossi P, Amodeo A, Palma P. BNT162B2 mRNA COVID-19 Vaccine in Heart and Lung Transplanted Young Adults: Is an Alternative SARS-CoV-2 Immune Response Surveillance Needed? *Transplantation*. 2022 Feb 1;106(2):e158-e160. doi: 10.1097/TP.0000000000003999. PMID: 34954734.
- 14- Malatinkova E, Thomas J, De Spiegelaere W, Rutsaert S, Geretti AM, Pollakis G, Paxton WA, Vandekerckhove L, **Ruggiero A (last and corresponding)**. Measuring Proviral HIV-1 DNA: Hurdles and Improvements to an Assay Monitoring Integration Events Utilising Human Alu Repeat Sequences. *Life (Basel)*. 2021 Dec 16;11(12):1410. doi: 10.3390/life11121410. PMID: 34947941
- 15- Dalzini A, Ballin G, Dominguez-Rodriguez S, Rojo P, Petrara MR, Foster C, Cotugno N, **Ruggiero A**, Nastouli E, Klein N, Rinaldi S, Pahwa S, Rossi P, Giaquinto C, Palma P, De Rossi A; EPIICAL Consortium. Size of HIV-1 reservoir is associated with telomere shortening and immunosenescence in early-treated European children with perinatally acquired HIV-1. *J Int AIDS Soc*. 2021 Nov;24(11):e25847. doi: 10.1002/jia2.25847. PMID: 34797948 Free PMC article.
- 16- Cotugno N*, **Ruggiero A***, Pascucci GR, Bonfante F, Petrara MR, Pighi C, Cifaldi L, Zangari P, Bernardi S, Cursi L, Santilli V, Manno EC, Amodio D, Linardos G, Piccioni L, Barbieri MA, Perrotta D, Campana A, Donà D, Giaquinto C, Concato C, Brodin P, Rossi P, De Rossi A, Palma P. Virological and immunological features of SARS-COV-2 infected children with distinct symptomatology. *Pediatr Allergy Immunol*. 2021 Nov;32(8):1833-1842. doi: 10.1111/pai.13585. Epub 2021 Jul 16. PubMed PMID: 34174102; PubMed Central PMCID: PMC8420243.
- 17- Amodio D*, **Ruggiero A***, Sgrulletti M, Pighi C, Cotugno N, Medri C, Morrocchi E, Colagrossi L, Russo C, Zaffina S, Di Matteo G, Cifaldi C, Di Cesare S, Rivalta B, Pacillo L, Santilli V, Giancotta C, Manno EC, Ciofi Degli Atti M, Raponi M, Rossi P, Finocchi A, Cancrini C, Perno CF, Moschese V, Palma P. Humoral and Cellular Response Following Vaccination With the BNT162b2 mRNA COVID-19 Vaccine in Patients Affected by Primary Immunodeficiencies. *Front Immunol*. 2021;12:727850. doi: 10.3389/fimmu.2021.727850. eCollection 2021. PubMed PMID: 34671350; PubMed Central PMCID: PMC8521226.
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Instructor: Heather Allison; Neil Blake; Jackie Bradshaw; Julie Clark; Gerard Corrigan; Julian Hiscox; Miren Iturriza-Gomara; Benjamin McGrae; Jill McIntosh; Sharon Mealey; Cheryl Mooney; Thomas Patrick; Bill Paxton; alan Radford; Daniel Robinson; Alessandra Ruggiero; James Stewart; Bex Woods; Marie Yang.

LIFE320-201617: 201617-LIFE320 - VIRAL DISEASE MECHANISMS

Instructor: Simon Abrams; Heather Allison; Marcus Blagrove; Neil Blake; Jackie Bradshaw; Rhianne Byrne; Julie Clark; John Dunleavy; Julian Hiscox; Miren Iturriza-Gomara; Sharon Mealey; Cheryl Mooney; Liz Moore; Thomas Patrick; Bill Paxton; alan Radford; Alessandra Ruggiero; James Stewart; Bex Woods;

LIFE320-201718: 201718-LIFE320 - VIRAL DISEASE MECHANISMS

Instructor: Heather Allison; Laura Barlow; Neil Blake; Bahram Ebrahimi; Graciela Isabel Garcia Dorival; Julian Hiscox; Miren Iturriza-Gomara; Stephanie Kennedy; Alan McCarthy; Bill Paxton; alan Radford; Alessandra Ruggiero; Mike Speed; James Stewart; Gemma Wattret;

Courses where you are: Teaching Assistant

LIFE223-201415: 201415-LIFE223 - Ess Skills for Life Sciences 2 *(not currently available)*

Instructor: Fabia Allen; Yvonne Allen; Heather Allison; Pete Alston; Svetlana Antonyuk; David Atkinson; Roger Barracough; Igor Barsukov; Andy Bates; Karl Bates; Daimark Bennett; Michael Berenbrink; Alan Boyd; Jackie Bradshaw; Rhianne Byrne; Dan Carr; Julie Clark; Ian Cople; Stephen Cornell; Trevor Cox; Michael Cross; Alistair Darby; Caroline Dart; Joao Pedro De Magalhaes; Bahram Ebrahimi; Claire Eyers; Pat Eyers; Andy Fenton; Michael Fisher; Jay-Louise Fox; Terry Gleave; Craig Goacher; Christopher Goldring; Blair Grubb; Kate Hammond; Jay Hinton; Jenny Hodgson; Mal Horaburgh; Jill Hudson-Brown; Andy Jones; Meriel Jones; Nigel Jones; Bernadette King; Raphael Levy; Zen Lewis; Lu-Yun Lian; Luning Liu; John Lycett; David MacEwan; Ben Makarewicz; Jill McIntosh; Sharon Mealey; David Montagnies; Cheryl Mooney; Stewart Plaistow; Thomas Price; Sudeep Pushpakorn; John Quayle; Peter Reed; Dan Rigden; Philip Rudland; Ilk Sacchari; Natasha Savage; Violaine See; Soraya Shirazi-Beechey; Marco Siccardi; Alec Simpson; Lynne Sneddon; Sarah Spalton; Mike Speed; Lisa Taylor; David Thompson; Sylvie Urbe; Olga Vasileva; Luciane Vieira de Melo; Susanne Voelkel; Ilona Walker; Raj Whitlock; Lindsey Wilkie; Helen Wright; Ed Yates; Iain Young; Lu-Gang Yu; Tobias Zech;

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