

La sottoscritta Ilaria Russo presenta ai fini concorsuali il presente Suo proprio curriculum vitae in lingua italiana (pp 2-10) ed inglese (pp 10-20).

Si fa gentilmente notare che sono state rimosse tutte le informazioni personali, come richiesto dalla procedura concorsuale, e che alcuni titoli, informazioni ed incarichi di lavoro, inclusi in questo Curriculum, sono necessariamente in lingua inglese in quanto intrinsecamente legati all'inglese scientifico, lingua globalmente accettata in ambito scientifico.

Ogni capitolo, introdotto da una freccia sulla sinistra, e' accompagnato dalla rispondenza alle voci relative concorsuali, come da bando, per facilitare l'accesso all'informazione fornita.

Inoltre si attesta che la Dott.ssa Russo, come richiesto dagli atti concorsuali di: **(i)** *partecipa alla procedura concorsuale in qualita' di esperta italiana di comprovata esperienza scientifica internazionale;* **(ii)** *ha un'ottima conoscenza e padronanza della lingua inglese (vedi anche attestati sottostanti);* **(iii)** *e' in possesso di laurea magistrale e di Dottorato di Ricerca entrambi rilasciati dalla Universita' degli Studi di Padova (Italia).*

Altresi' si dichiara che la Dott.ssa Russo, come richiesto dagli atti concorsuali, e' ammissibile al concorso poiche' (iv) *facente parte dell'elettorato politico italiano sino al 2013 nel comune di Corciano (Perugia) e dal 2013 in poi presso l'AIRE (associazione di Italiani residenti all'estero);* **(v)** *non e' stata mai destituita o dispensata dall'impiego presso una pubblica amministrazione (italiana o estera) per persistente insufficiente rendimento;* **(vi)** *non e' mai stata dichiarata decaduta da un altro impiego pubblico (italiano o estero) per aver conseguito l'impiego stesso mediante la produzione di documenti falsi o viziati da invalidita' insanabile;* e **(vii)** *non rientra nei casi previsti dagli artt. 3 e 4 del D. Lgs. 8 aprile 2013 n. 39.*

Si fa anche gentilmente notare che il portale 'selezionionline.iss.it' non ha permesso di inserire la corretta iscrizione all'elettorato AIRE (opzione non esistente), ragion per cui l'ultima iscrizione all'elettorato in comune italiano e' stata indicata. Qualora selezionata per il concorso la Dott.ssa Russo prevede un immediato rientro in Italia con conseguente cambio di residenza per adempiere le nuove funzioni ed incarichi lavorativi.

Versione Italiana

Curriculum Vitae della Dott.ssa Ilaria RUSSO, PhD

→ Educazione (capitolo rispondente alla voce concorsuale "titoli formativi e professionali")

- **02/2024 – Flebotomista certificato**
- **10/2021 - Advanced HE fellow della Higher Education Academy** (qualifica per l'insegnamento nelle universita')
- **2005 - Master in Malattie Infettive (Washington University in St Louis, USA)**
- **01/2002 – 12/2004** (Dissertazione della tesi 19/04/2005) **PhD (Dottorato di Ricerca) in Biologia e Patologia Cellulare e Molecolare** presso il Dip. di Scienze Biomediche, Universita' di Padova, Italia
- **10/1995 - 03/1998** Laurea Magistrale in **Chimica e Tecnologie Farmaceutiche** (110/110 cum laude) alla Faculta' di Farmacia, CRIBI Biotechnology Centre, Universita' di Padova, Italia
- **09/1992 - 10/1995** Studi Triennali in **Chimica e Tecnologie Farmaceutiche** alla Facolta' di Farmacia, Universita' di Palermo, Italia
- **1987 - 1992** Studi superiori classici presso il **Liceo Classico "Ancelle del Sacro Cuore"**, Palermo, Italia

→ Qualifiche professionali (capitolo rispondente alla voce concorsuale "titoli formativi e professionali")

- **Scholar in Climate Resilient Health Systems 2025**
- **Flebotomista Accreditato (UK), 2024**
- **Health and Safety Qualified Expert 2024**
- **Advance HE fellow of the Higher Education Academy (UK) 2021**
- **Professore associato (USA 2017)**
- **Infectious Diseases Scholar 2005**
- **Dottorato in Biologia e Patologia Cellulare e Molecolare (2005)**
- **Farmacista Qualificato in base alla legge Italiana – (1998)**
- **Laurea Magistrale in Chimica e Tecnologia Farmaceutiche con specializzazione in biotecnologie** (equivalente a BPharm & Mpharm in UK) (1998 – 110/110 cum laude)

→ **Incarichi di Lavoro professionale (in cronologia inversa) (capitolo rispondente alle voci concorsuali “titoli formativi e professionali”, “attività istituzionale”, “esperienza manageriale”)**

- **Posizione attuale – dal 01/2019 – ad oggi - Lecturer e Health and Safety Officer** della Facoltà di Medicina e scienze della salute, alla Università di Keele, UK
- **Posizione attuale privata – dal 06/2020 – ad oggi – CEO e fondatore della Daring Scientific Projects limited**
– Un’attività commerciale a sfondo sociale e senza scopo di lucro che fornisce consulenze scientifiche internazionali per progetti di sviluppo sostenibile e scientifici (analysis, funding recruitment and project management)
- **09/2019 – 06/2023** – Honorary Adjunct Professor del Dip di Medicina Interna – sezione Malattie Infettive – presso la facoltà di medicina della Washington University in St. Louis, MO, USA
- **09/2017 – 08/2019** – Assistant Professor– facoltà di medicina della Washington University in St. Louis, MO, USA.
- **04/2013 – 06/2018** – Ricercatore Confermato presso la Facoltà di Biologia, Medicina e Salute della Università di Manchester (UK)
- **02/2011 - 04/2013** – Ricercatore dell’European Research Council Reintegration Grant presso il Dip. Di Medicina Sperimentale e Scienze Biochimiche dell’Università di Perugia, Italia.
- **03/2009 – 01/2011** – Ricercatore in vaccini presso Dip. Di Medicina Sperimentale e Scienze Biochimiche dell’Università di Perugia, Italia.
- **04/2007 – 02/2009** – Ricercatore Associato del Howard Hughes Medical Institute (HHMI) presso la facoltà di medicina della Washington University of St. Louis – MO – USA.
- **05/2005 – 03/2007** Post-dottorato presso la facoltà di medicina della Washington University of St. Louis – MO – USA.
- **10/2001 – 04/2005** Corso di Dottorato in Biologia e Patologia Cellulare e Molecolare
- **03/2000 – 03/2004** Researcher del Chiron Vaccines IRIS Research Center, Siena, Italia, under the direction of Dr Rino Rappuoli e il Prof C Montecucco.
- **03/1998 – 10/1998** Tirocinio in Farmacia, ad Arquà-Petrarca PD - Italy
- **11/1996 – 10/1999** Borsa di Ricerca presso il Centro Interdipartimentale di Ricerca per biotecnologie innovative (CRIBI) dell’Università di Padova, Italia. (Prof V De Filippis & Prof E Di Cera) Subject enzymology and anticoagulants
- **01/1995 – 11/1995** Ricerca come student presso il Dip. Di Scienze Farmaceutiche dell’Università di Palermo, Italia. (Prof. G. Giammona). Subject: preparazione di farmaci su base Polimerica
- **07/1994** – Tirocinio in Industria per la preparazione di iniettabili presso l’azienda farmaceutica IPRA. Subject: Quality controls.

Interruzioni di carriera e periodi part-time

12/2021- 05/2022 Problemi di salute

02/2020 - 04/2021 Minima attività di ricerca per la **pandemia COVID19 e i lockdown nazionali**

29/03-12/06/2017 - Problemi di salute

02/2012 - 03/2013 – Interruzione di carriera - Assenza dal lavoro per problem di salute, necessitanti lunga riabilitazione fisica.

05/2015 – 07/2017 – Part-Time 70% salario.

02/2011 - 03/2013 – Part-Time 50% salario.

03/2010 - 01/2011 – Part-Time 40% salario.

03/2009 - 02/2010 - Interruzione di carriera - Trasferimento in Italia dagli USA, Maternità e congedo parentale

→ **CONTRIBUTI ALLA RICERCA (capitolo rispondente alle voci concorsuali “pubblicazioni scientifiche”, “attività istituzionale”, “esperienza manageriale” e “titoli formativi e professionali”)**

Pubblicazioni scientifiche su peer reviewed journals

Hasan MH, Khalil I, Baker Chowdhury MA, Rahman M, Asaduzzaman M, Billah M, Banu LA, Alam MA, Ahsan A, Traore T, Uddin MJ, Galizi R, **Russo I**, Zumla A & Haider N - Two Decades of Endemic Dengue in Bangladesh (2000-2022):

Trends, Seasonality, and impact of Temperature and Rainfall Patterns on transmission dynamics - medRxiv 2023.07.16.23292380; doi: <https://doi.org/10.1101/2023.07.16.23292380> the *Journal of Medical Entomology* (July 2023)

Nguyen ST, Du D, Wychrij D, Cain MD, Wu Q, Klein RS, **Russo I***, and Goldberg DE* - Histidine-rich protein II nanoparticle delivery of heme iron load drives endothelial inflammation in cerebral malaria. *PNAS, Proc Natl Acad Sci USA*. 2023 Jun 27;120(26):e2306318120. doi: 10.1073/pnas.2306318120. Epub 2023 Jun 12. PMID: 37307435.

*corresponding author

Giurisato E, Lonardi S, Telfer B, Lussoso S, Risa B, Zhang J, **Russo I**, et al. – The Extracellular-Regulated protein Kinase 5 is required for mediating macrophage proliferation associated with development of malignant tumors – *Cancer Res* June 19 2020 DOI: 10.1158/0008-5472.CAN-19-2416

Pool MR & **Russo I** - The perplexing PEXEL protein secretory pathway - *Nature Microbiology* 2018 Sep;3(9):969-970. doi: 10.1038/s41564-018-0235-2

Lehmann C, DeVries L, Tan S, **Russo I**, Sanchez-Lopez M, Goldberg DE, Deu E - *Plasmodium falciparum* dipeptidyl aminopeptidase 3 (DPAP3) activity is important for efficient erythrocyte invasion — *PLoS Pathogen* 2018 May 16;14(5):e1007031. doi: 10.1371/journal.ppat.1007031

Alnabulsi S, Hussein B, Santina E, Alsalahat I, Kadirvel M, Magwaza RN, Bryce RA, Schwalbe CH, Baldwin AG, **Russo I**, Stratford IJ & Freeman S - Evaluation of analogues of furan-amidines as inhibitors of NQO2 for potential use in the treatment of cancer and malaria - *Bioorganic & Medicinal Chemistry Letters* – 2018 - 28, 8, 1292-1297 – doi:10.1016/j.bmcl.2018.03.025

Giurisato E, Telfer B, Lonardi S, Wang J, **Russo I**, Gray NS, Vermi W, Tournier C - Myeloid ERK5 deficiency suppresses tumor growth by blocking pro-tumor macrophage polarization via STAT3 inhibition – *PNAS, Proc Natl Acad Sci USA* 2018

Nasamu SA, Glushakova S, **Russo I**, Vaupel B, Oksman A, Kim AS, Fremont DH, Tolia N, Beck JR, Meyers MJ, Niles JC, Zimmerberg J, Goldberg DE - Plasmeppsins IX and X are essential and druggable mediators of malaria parasite egress and invasion – *Science* 2017

Alnabulsi S, Santina E, Russo I, Kadirvel M, Chadwick A, Bichenkova E, Bryce R, Nolan K, Demonacos C, Stratford I and Freeman S - Furan-amidines as potent NRH: Quinone Oxidoreductase 2 (NQO2) inhibitors: Design, Synthesis and Biological Evaluation – *European Journal of Medicinal Chemistry* 111 (2016) 33e45.

Gambini L*, Rizzi L, Pedretti A, Tagliatela-Scafati O, Carucci M, Pancotti A, Galli C, Read M, Giurisato E, Romeo S & **Russo I***, - Picomolar inhibition of Plasmeppsins V, an essential Malaria protease, achieved exploiting the prime region - *Equally contributed – *PLoS One* 11/2015; 10(11):e0142509. DOI:10.1371/journal.pone.0142509.

Moretti E, Collodel G, Mazzi L, Russo I & Giurisato E - Ultrastructural study of spermatogenesis in KRS2 deficient mice - *Transgenic Research* – 2015 Aug;24(4):741-51.

P. falciparum & *P. vivax* Novel Targets & Classes – final report of CRIMALDDI workshop No1 – October 2010 - **Russo I** among the participants/authors – published on line at [web link](#)

Russo I, Babbitt S, Muralidharan V, Butler T, Oksman A and Goldberg DE – Plasmeppsins V licenses *Plasmodium* proteins for export into the host erythrocyte – Article in *Nature* 2010 Feb 4; 463(7281):632-636. ([web](#))

Fennell C, Babbitt S, **Russo I**, Wilkes J, Ranford-Cartwright L, Goldberg DE, Doerig C–PfelK1, a eukaryotic initiation factor 2 α kinase of the human malaria parasite *P. falciparum*, regulates stress-response to amino-acid starvation – *Malaria Journal* 2009 May 12;8:99. [web](#)

Russo I, Oksman A. and Goldberg DE – Fatty Acid Acylation Regulates Trafficking of the Unusual *P. Falciparum* Calpain to the Nucleolus – *Molecular Microbiology*; 2009 Apr; 72(1):229-45. Epub: Feb 23 2009. [web](#)

Russo I, Oksman A., Vaupel B and Goldberg DE – A calpain unique to alveolates is essential in *P. falciparum* and its knockdown reveals an involvement in pre-S-phase development – *Proc Nat Acad of Science*; 2009 Feb 3;106(5):1554-9. Epub 2009 Jan 22. [web](#) -

De Filippis, V., Colombo, G., **Russo, I.**, Spadari, B. and Fontana, A. – Probing the Hirudin-Thrombin Interaction by Incorporation of Non-coded Amino Acids and Molecular Dynamics Simulation - *Biochemistry*; 2002; 41(46); 13556-13569. [web](#)

De Filippis, V; **Russo, I**; Salmaso, S; Fontana, A - Protein engineering by non-coded amino acids - **Italian Journal of Biochemistry** - Volume: 49 Issue: 1 - MAR 2000

De Filippis, V., **Russo, I.**, Vindigni, A., Di Cera, E. and Fontana, A. -(1999)- A highly potent and selective thrombin inhibitor obtained by cumulative incorporation of non-natural amino acids into the N-terminal domain 1-47 of hirudin - **Protein Science**, 1999, 8, 2213-2217. [web](#)

Libri

Russo I, & Goldberg DE - Plasmepsin V. In **Handbook of Proteolytic Enzymes**, 3rd ed, 2012, Woessner JF, Rawlings ND (eds), Elsevier, Oxford.

Seminari

2023 – Relatore Invitato presso la Zonta International e il Lion Club – Palermo – Italia

2016 – Relatore Invitato presso l'Università of Keele

2016 - Relatore Invitato presso il 9° Global Pathologists Annual Meeting -Ottobre 10-11, 2016 Manchester, UK

2016 - Relatore Invitato presso 15° Annual Congress of International Drug Discovery Science & Technology - Japan 2017

2016- Relatore Keynote presso **54° Spring Meeting** della Società Britannica di Parassitologia (BSP) 11th-13th April - Chemotherapy to Fight Malaria, travel notes and snapshots of an ongoing journey

2014 – Relatore Invitato presso il Consiglio di Ricerca Medica (MRC) in Londra, UK.

2013 – Relatore Invitato presso la Scuola di Medicina Tropicale in Liverpool, UK.

2012 - Relatore Invitato presso il 2° Simposio sugli Antiparassitari (SAP-2012) – 07/30 – 08/01 – Guangzhou, China.

2011 - Relatore Invitato presso 9° Congresso internazionale su Drug Discovery Science and Technology (IDDST) – 11/2011 – Shenzhen, China

2011 - Relatore Invitato presso l'azienda **Actelion – Basel (Swiss)- Plasmodium falciparum**: treasure chest of new molecular targets. Hunt season open! **21/06/11**

2011 - Relatore Invitato presso l'Imperial College – Londra, UK. **17/01/2011.**

2010 - Relatore Invitato presso l'University of Siena - Plasmepsin V inhibition: a deadly embargo on P. falciparum asexual and transmission forms

2009 - Relatore Invitato presso la **Novartis – Siena.**

Comunicazioni a congresso

2023 – MC Musasa; WD Wichrij; GD Goldberg; I Russo - Histidine rich protein II, from malaria diagnostic marker to strong proinflammatory and risk factor for severe malaria outcomes - 2023 British Society for Parasitology Spring Meeting

2023 – Russo I - Global human Health is a One-health, Sustainability and Equality problem altogether - raising awareness and promoting actions - 2023 British Society for Parasitology Spring Meeting

2021 - Nguyen S, Russo I, Wychrij D, Goldberg DE. Heme-laden HRPII nanoparticles mediate caveolin-dependent endothelial inflammation in malaria pathogenesis. Oral Presentation. **Malaria-2021 virtual symposium. July 2021.**

2020 - Nguyen S, Russo I, Wychrij D, Goldberg DE. Disrupting the blood brain barrier: a role for HRPII in cerebral malaria, Oral Presentation. **WUSM Fellows Forum. September 2020.**

2018 Magwaza R, Alnabulsi S, Hussein B, Russo I & Freeman S - Design, Synthesis and Evaluation of novel leads for drug-resistant malaria at **British Society of Parasitology(BSP) Spring Meeting - April 2018**-University of Aberystwyth, Wales (UK);

at VII Meeting of the Paul Ehrlich Euro-PhD Network - July 2018-University of Porto Portugal (EU);

and at Doctoral Academy Graduate Society) PhD showcase -June 2018-University of Manchester, (UK)

- 2016** – Kitazono I, Gambini L, Rizzi L, Pedretti A, Taglialatela-Scafati O, Carucci M, Pancotti A, Galli C, Read M, Giurisato E, Romeo S & **Russo I** - From Picomolar *in vitro* Inhibition of Plasmepsin V to a drug-like inhibitor a long journey . **12th BioMalPar Conf.** – May 2016- EMBL Heidelberg, Germany (EU).
- 2016** – Ishizaki Y, Freeman S, Alnabulsi S, Hussein B & **Russo I** - From fragments to novel leads for the treatment of malaria - **12th BioMalPar Conf.** – May 2016- EMBL Heidelberg, Germany (EU)
- 2016** – **Russo I**, Chauhan R, Kitazono I, Ishizaki Y (corresponding Russo) - Chemotherapy to Fight Malaria, travel notes and snapshots of an ongoing journey - **12th BioMalPar Conf.** – May 2016- EMBL Heidelberg, Germany (EU)
- 2013** - Gambini L*, Rizzi L, Carucci M, Pancotti A, Galli C, Taglialatela-Scafati O, Pedretti A, Romeo S & **Russo I***, - Picomolar inhibition of Plasmepsin V, an essential malaria protease. 8th BioMalPar Conf. – May 2013- EMBL Heidelberg, Germany (EU).
- 2012** M Carucci, M, Crisanti, A & Russo, I - PlasmepsinV inhibition: a deadly embargo on asexual and transmission forms of *P. falciparum*. 8th BioMalPar Conf. – May 2012- EMBL Heidelberg, Germany (EU).
- 2010 Speaker for the 6th BioMalPar Conference** –04/2010- EMBL Heidelberg, Germany (EU) - Romeo, S, Rizzi, L, Carucci, M, Crisanti, A & **Russo, I** - PlasmepsinV inhibition: a deadly embargo on asexual and transmission forms of *Plasmodium falciparum*.
- 2009 Speaker at Molecular Parasitology Meeting XX** – MBL Woods Hole, MA (USA) - **Russo I.**, Oksman A. and Goldberg DE – Plasmepsin V licenses *Plasmodium* proteins for export into the host erythrocyte.
- 2008** - Russo I., Oksman A. and Goldberg DE – Assessment of *Plasmodium falciparum* proteases as potential drug targets by allelic replacement and conditional knockdown strategies - Molecular Parasitology Meeting XIX September 21-25, 2008 Marine Biological Laboratory Woods Hole, MA (USA):
- 2007** - Russo I., Oksman A. and Goldberg DE – A new type of Calpain unique to alveolates and essential in *Plasmodium falciparum* is driven into the nucleolus by a trans-kingdom signal – 3rd Annual BioMalPar Conference on Biology and Pathology of the Malaria Parasite - April 10th to 12th, 2007 - EMBL- Heidelberg, Germany (EU).
- 2006** - Russo I., Oksman A. and Goldberg DE – A Calpain Unique to Alveolates Is an Essential Nucleolar Protein in *Plasmodium falciparum* - Molecular Parasitology Meeting XVII September 10-14, 2006 Marine Biological Laboratory Woods Hole, MA (USA):
- 2004** - Russo I. and Goldberg DE - Characterization of *Plasmodium falciparum* Calpain - Molecular Parasitology Meeting XV September 19-23, 2004 Marine Biological Laboratory Woods Hole, MA (USA) October 5, 2004:
- 2003** - Russo I., Giurisato E., De Bernard M., Benedetti A., Montecucco C. and Covacci A. – Lipid raft as gateway of *Helicobacter pylori* infection - Research Center IRIS - CHIRON –Siena (2003)
- 2002** - Russo I. and Covacci A. – Glutamate racemase, Glr as target of new antibacterials - Research Center IRIS - CHIRON –Siena (2002)
- 2001** - Russo I., Pansegrau W. and Covacci A. – Architecture of type IV secretion systems: subcellular localization of *H.pylori* CagA and CagE – EURESCO conference (2001) – Lucca
- 2000** - Pansegrau W., Russo I., Hillerigman M., Rappuoli R. and Covacci A. - Targeting virulence determinants for development of new anti-infectives – Research Center IRIS - CHIRON –Siena (2000)
- 1999** – De Filippis V, Russo I, Vindigni A, Di Cera E, Salmaso S, and Fontana A – protein engineering with Non-natural Amino Acids and Characterization of Highly Potent and Selective Thrombin Inhibitor Based on the N-terminal Domain 1-47 of Hirudin – American Protein Society Thirteenth Symposium of the Protein Society Boston, MA – 24-29 July 1999.

Sovvenzioni/finanziamenti assegnato

2024 – Schlumberger fellowship per PhD supervision 1st year (\$50,000)

2023 – Schlumberger fellowship per PhD supervision 3rd year (\$50,000)

2023 - Subject: OPP164: NERC Equitable nature-based climate resilience in Sub-Saharan Africa; APP12561; (~ £ 4,000,000) – Selezionata come finanziabile a fronte di fondi insufficienti (Ricevuto invito a risottomettere il grant presso nuovo bando)

2023 – BEBUC research money support (~ \$5,000)
2023 – Schlumberger fellowship per PhD supervision 2nd year (\$50,000)
2023 – The Pathological Society of Great Britain and Ireland funding the project Dissecting malaria proteins HRPII and HRPIII to identify domains responsible of the onset of cerebral malaria by blood-brain barrier disruption for drug development ~£4,000
2022 – Schlumberger fellowship per PhD supervision 1st year – (\$50,000)
2021 – Royal Society - Research Grants 2021 Round 2 - RGS\R2\212418 – (£50,000)
2020 – EU Malaria Fund (consortio multinazionale di aziende ed universita')- Discovery of new malaria vaccines through next generation reverse vaccinology – Russo e' l'autore e il direttore unico del Progetto MalOmVax, finanziato con un contributo di circa **40 million Euro**
2020 - TALENT: Technician Led Equipment Fund – fondi in supporto di un Progetto di dottorato - £ 4549.09
2020 - TALENT: Technician Led Equipment Fund – fondi in supporto di un Progetto di dottorato - £ 619.20
2019 – Keele University – start-up funds – new investigator award per avvio del laboratorio, e borsa di dottorato triennale (~£200,000)
2017 – Grant Medicine for Malaria Venture (MMV) - Discovery and development of drugs targeting PlasmeprinV and the PexEI secretion in *Plasmodium* parasites – 08/2017 – 07/2018 – **(£50,000)**
2015-2018 Marie Curie International Reintegration Grant - Grant Agreement n° PIRG07-GA-2010-268441 -Call FP7-PEOPLE-2010-RG Proposal n°268441 – Principal investigator **Ilaria Russo** (single beneficiary)- Research Executive Agency of European Union (seventh framework programme) - -“Genetic High Throughput Screenings by random mutagenesis to identify *Plasmodium falciparum* critical genes for asexual growth, sexual differentiation and virulence affecting host immune responses” . **(~250,000 Euro)**
04/2013 – 09/2016 Stepping Stone Fellowship. Supported by the Wellcome Trust Fund. Faculty of Life Sciences, University of Manchester, UK. **(~£300,000)**
2011-2013 Marie Curie International Reintegration Grant - Grant Agreement n° PIRG07-GA-2010-268441 -Call FP7-PEOPLE-2010-RG Proposal n°268441 – Principal investigator **Ilaria Russo** (single beneficiary)- Research Executive Agency of European Union (seventh framework programme) - -“Genetic High Throughput Screenings by random mutagenesis to identify *Plasmodium falciparum* critical genes for asexual growth, sexual differentiation and virulence affecting host immune responses” . **(~250,000 Euro) Suspended for transfer to the University of Manchester.**
2005-2008 - NIH Grant AI-047798. – Principal investigator: **Daniel E. Goldberg** - National Institutes of Health (USA) — “Characterization of Proplasmepsin Maturase” – Aims and tasks were successfully accomplished as published. **(over 1 million \$).**
2005 – Fellowship on Infectious Diseases Infectious Diseases Scholar Program (IDSP) – Beneficiary: **Ilaria Russo** – Dept of Medicine – Infectious disease at Washington University School of Medicine – St. Louis – MO - USA. **(~50,000\$).**
1999 – Funds for short term visit at Washington University from the Interuniversity Biotechnologies Consortium - ~Liras 4.000.000 – December 1998 – Trieste – Italy.
1998 – 1999 – Fellowship for Undergraduates from the Consortium of Padua Researches for purification and structural analysis of protein of biotechnological interest – Padua – Italy

Altri risultati e riconoscimenti per la ricerca

2025 – Premio come Scienziata di Eccellenza da Zonta International – Palermo (Italia)
2023 – Nominata da Zonta Internation come scienziata di eccellenza per l'anno 2025 – Palermo (Italy)
2016 – Keynote speaker alla British Society of Parasitology (BSP) 2016 – Imperial College London
2014 – ERC-2014-StG ottenuta selezione di Step1 per lo Starting grant dell'ERC2014.
2012 – ERC-2012-StG_20111109 ottenuta selezione di Step1 per lo Starting grant dell'ERC2012 – 01-03-12.
2011 – Semifinalista per il Grant della HHMI (Howard Hughes Medical Institute) IECS 2011 (International Early Career Scientist) – Janelia Farm Campus (Ashburn, VA, USA).
2010 – Selezionata per l'EMBO Long term fellowship. Call ALTF 1651-2010.
2008 Premiata alla conferenza MPM XIX - Marine Biological Laboratory Woods Hole, MA (USA) per la sezione migliori lavori scientifici presentati - **Russo I, Oksman A and Goldberg DE** – Assessment of *Plasmodium falciparum* proteases as potential drug targets by allelic replacement and conditional knockdown strategies_

BREVETTI: Pending patent su un nuovo dispositivo per la coltivazione di linee cellulari singole o multiple aderenti o in sospensione in un formato che consenta la coltivazione a lungo termine con una perturbazione minima della coltura. **(Submitted to EU)**

Supervisione di progetti del gruppo di ricerca

2024– Supervisione di 6 studenti universitari, e 2 studenti di Dottorato
2023– Supervisione di 6 studenti universitari, e 2 studenti di Dottorato
2022 – Supervisione di 9 studenti universitari, 2 Master e 3 studenti di Dottorato
2021 – Supervisione di 7 studenti universitari, 1 Master e 2 studenti di Dottorato
2020 – Direttore unico del progetto multinazionale MalOmVax finanziato da EU Malaria (~40,000,000Euro)
2020 – Supervisione di 6 studenti universitari, e 2 studenti di Dottorato
2019 – Supervisione di 6 studenti universitari, 2 tecnici di laboratorio e 2 studenti di Dottorato
2018 – Supervisione di 3 studenti universitari, 2 tecnici di laboratorio, 1 master e 3 studenti di Dottorato
2017- Supervisione di 3 studenti universitari, 3 tecnici di laboratorio, 1 master e 3 studenti di Dottorato
2016- Supervisione di 7 studenti universitari, 1 tecnico di laboratorio, 5 master e 2 studenti di Dottorato
2015 – Supervisione di 6 studenti universitari, 1 post-doc.
2014 – Supervisione di 2 studenti universitari,
2011 - 2012 Supervisione di 1 studente di Dottorato

➔ Evidenza di figura Accademica e Professionale riconosciuta internazionalmente (capitolo rispondente alle voci concorsuali “attività istituzionale”, “esperienza manageriale” e “titoli formativi e professionali”)

Consulenze professionali in ambito locale, nazionale o internazionale

Reviewer for JBC, and Nature-Scientific reports, iScience, European Journal of Medicinal Chemistry
Revisore di lavori scientifici da pubblicare per , PLoS Global Public Health, Vaccine, PLoS One; Science, Nature, Molecular Biology and Evolution and Experimental Parasitology, International Parasitology, PLoS Pathogen, MDPI editors, Heliyon editors e vari altri

2022 – ad oggi - Consulente scientifico per il centro per la diagnosi delle malattie infettive e point of care nella regione di Vanga – Repubblica Democratica del Congo e nell'area di Konkoba in Sierra Leone.
2020 – ad oggi - Revisore di progetti scientifici per la Fundação para a Ciência e a Tecnologia (FCT) - Project Grants - Portogallo
2019 - ad oggi Membro del comitato editoriale di Advances in Infectious Diseases & Therapy.
2016 – Revisore per grant del Medical Research Council (MRC) e dell'UK Research and Innovation (UKRI) - UK
2016 – Invitato al Global Challenges Research Fund vaccinology network a Londra.
2010 – ad oggi - Consulente scientifico del centro per la diagnosi delle malattie infettive e point-of-care nella regione di Moba – RD-Congo.

Servizio Pubblico nella capacità professionale

2019 – Organizzatrice principale del meeting della British Society of Parasitology 2019 presso la University of Manchester (over 400 delegati e 50 relatori)
2018 – Invitata ad entrare nella Editorial Board dell'American Journal of Integrative Agricultural Sciences
2017- Membro del Senato Accademico della University of Manchester
2016- Invitata ad entrare nella Editorial Board dell'International Journal of Cell & Systems Developmental Biology (IJCSDB)
2016- Invitata ad entrare nella Editorial Board del Journal of Zoonotic Diseases and Public Health
2016 – Invitata come co-autrice del capitolo monografico del Bentham libro sulle “Frontiers in Drug Metabolism – Artemisinin and Its Derivatives: A Journey from Malaria to Cancer”
2015 – Invitata come esperta per la selezione di Erasmus+ e di Erasmus Mundus Joint Master Degrees (EMJMD) projects
2014 – Invitata ad entrare nella Editorial board del Journal of AIDS and Immune Research
2014 - Invitata come esperta per la selezione di Erasmus Plus selection for Joint Master Degrees, call EAC-S11-13.
2014 – **ad oggi** Membro della editorial board di Enliven: Immunology and Immunotechniques.

2010 – ad oggi – Consulente Scientifico per project management del centro diagnosis per le malattie infettive and point-of-care nella regione di Moba – Congo

2010 – Membro della Scientific Advisory Board – della Coordination, Rationalisation and Integration of Antimalarial Drug Discovery and Development Initiatives (CRIMALDDI) all' European workshop n.1 –September **2010** - Liverpool UK- P. falciparum & P. vivax- novel targets & classes - How to identify and exploit novel targets at all stages of the lifecycle of P falciparum & P vivax.

2008 Inviata come assistant teacher per il Corso Mondiale sulla Biology of Parasitism (BoP) - international summer course presso I Marine Biology Laboratories (MBL) – WoodsHole MA

Conduzione di ruoli organizzativi in importanti conferenze professionali nazionali o internazionali

2025 - Chair della conferenza Women in Malaria

2025 - Invited Chair della conferenza Apicomplexa 2025

2016 – Organizer of the British Parasitology Society spring meeting in 2019 at the University of Manchester.

Membro di Societa' Scientifiche

European Society of Clinical Microbiology and Infectious Diseases

American Society of Biochemistry and Molecular Biology (ASBMB)

Academic Women Network @Washington University in St. Louis

British Society of Parasitology

Expert Women in Life Sciences – WILS database;

Italian Malaria Network – CIRM;

Marie Curie Fellows Association – MCFA;

Outreach Evimalar task-force;

→ Ruoli di insegnamento istituzionale e di divulgazione scientifica (capitolo rispondente alle voci concorsuali “attività istituzionale”, “esperienza manageriale” e “titoli formativi e professionali”)

Le mie competenze specifiche riguardano il campo della Salute pubblica e globale, One-health, microbiologia, parassitologia, biochimica, biologia molecolare, genetica, chimica delle proteine, enzimologia ed educazione alla salute.

Incarichi didattici attuali e precedenti, universitari, professionali e/o post-laurea (informazioni personali sono state secrete come richiesto da concorso)

Ruoli attuali: Supervisore per studenti di tesi, Studenti internazionali, Supervisore per studenti di dottorato, corso di insegnamento PBL per studenti del secondo anno di medicina; docente di Farmacologia, Microbiologia, Biologia Molecolare e Biochimica presso la Facoltà di Medicina; Responsabile per l'Unità 9 Y2 Medicina; Responsabile dell'insegnamento del Master in Global Health Leadership (SoM).

Ruoli precedenti: Supervisore per laureandi, dottorandi e nuovi arrivati PostDocs. Supervisore per studenti di tesi dell'ultimo anno, studenti internazionali, studenti universitari di Nuffield, studenti universitari, studenti di master (microbiologia MHS, MRes, MSc), leader dell'unità 12 Y2 School of Medicine;

Supervisore per 4 dottorandi (M.C., R. M., G. S. & A. O.)

Esaminatore interno della commissione per la tesi di dottorato di Miss B.A..

Innovazione e contributi alla riforma e/o allo sviluppo del curriculum o della valutazione

Il mio lavoro è sempre stato svolto con entusiasmo e dedizione contagiosi. Il 100% degli Studenti ha aderito e alcuni hanno dimostrato un ruolo trainante. Nessuno ha mollato nonostante il fatto che alcuni abbiano incontrato gravi difficoltà nella vita.

Evidenze e valutazioni esterne della capacità di insegnamento

- Circa il 90% delle persone che ho formato sono rimaste nel campo scientifico o hanno dimostrato di avere successo nelle tecniche e nelle conoscenze acquisite. Alcuni di loro sono diventati ricercatori principali, membri del personale della GSK o di altre istituzioni, sono passati al settore pubblico o hanno ottenuto borse di studio prestigiose nei propri paesi per il dottorato di ricerca.

- Sviluppo e delivery di corsi a progetto in remoto per operatori sanitari ed insegnanti in Africa.
- Interviste a blog su social media su tematiche scientifiche, quali COVID19 e Health & Safety

➔ **Ruoli aggiuntivi di leadership e/o management** *(capitolo rispondente alle voci concorsuali “attività istituzionale”, e “esperienza manageriale”)*

Contributi all'interno della struttura organizzativa delle Università

Contribuisco regolarmente ai bandi strategici dell'Ateneo interagendo con i colleghi, i Responsabili della Ricerca, il Preside e le altre facoltà coinvolte

Contributi ad enti esterni

Al BSP 2016, sono stato invitato come relatore principale, ho promosso e proposto l'Università di Manchester come ospite di uno dei prossimi incontri primaverili della British Society of parasitology. Sono stata l'organizzatrice principale del BSP meeting 2019, con una ricettività di oltre 400 delegati e circa 60 relatori internazionali.

2010 – ad oggi - Consulente scientifico del Centro per la diagnosi delle malattie infettive e Point of Care nella regione di Moba – Congo

2011 – ad oggi - Consulente scientifico per la direzione di progetti di sviluppo e salute nella Sierra Leone e per la repubblica Democratica del Congo per le NGOs, Fonte di Speranza, Amici di Moba, Little Steps e CAFOD)

➔ **Trasferimento di conoscenze e tecnologie** *(capitolo rispondente alle voci concorsuali “attività istituzionale”)*

Dettagli su come la scoperta o l'innovazione della ricerca sono state adottate dall'industria e da altre istituzioni

Il mio lavoro sulla malaria e la Global Health ha suscitato grande interesse da parte di aziende e gruppi accademici interessati alla scoperta di farmaci, tra quelli che hanno portato a una consulenza formale, come elencato di seguito.

Brevetti

Pending patent su un nuovo dispositivo per la coltivazione di linee cellulari singole o multiple aderenti o in sospensione in un formato che consenta la coltivazione a lungo termine con una perturbazione minima della coltura. (Presentato all'UE)

Attività di consulenza nel settore aziendale

- 2021-2023 Consulente Scientifico per la Fondazione Fonte di Speranza, Italia
- 2020 – ad oggi Accordo di triplice collaborazione con l'Università di Manchester e StreamBio per la creazione di nuovo sistema diagnostico per malaria e Covid
- 2019 - 2020 Consulenza esecutiva scientifica per AchilleS Vaccines, Italia
- 2018 L'Aeronautica Militare USA ha richiesto una consulenza collaborativa per un progetto che coinvolge le proteine *Plasmodium*, che sto attualmente studiando, con importanti attività per la sintesi di nuovi materiali
- 2016 - Contratto di consulenza con Medicines for Malaria Venture (MMV)
- 2011 Contratto di consulenza con l'azienda farmaceutica Actelion
- 2010 Consulenza con l'azienda farmaceutica Vitae Pharmaceutical
- Sono stati aperti alcuni colloqui anche con GSK e Astrazeneca sugli inibitori PmV (enzima da me scoperto come nuovo target per antimalarici di nuova generazione).

Altri incarichi o impegni nella comunità imprenditoriale

2002-2004 Sono stati condotti 3 contratti privati a progetto per la Chiron Vaccines Srl (oggi GSK) per la identificazione di nuovi targets antimicrobici e vaccini a contrasto della crescita resistenza agli antibiotici.

Altre prove del successo dell'attività accademica

Il mio lavoro sulla malaria e la Global Health ha attirato migliaia di citazioni in articoli, riviste di divulgazione scientifica, notiziari e su internet (come TopNews, Inscience, Global Times, ANSA, Sciencedaily, Sciencemag, HHMI news) in tutto il mondo. La novità e l'impatto dei risultati pubblicati hanno generato un nuovo capitolo monografico nel Manuale degli enzimi proteolitici, Elsevier e la creazione di nuovi codici enzimatici dedicati (EC 3.4.23.B19) e nuovi file del database BRENDA e hanno avuto un impatto su vari campi (Haase S et al, Microbiologia cellulare 2010 Goldberg DE et al, Trends Parasitol 2011, Kay J et al, BMC Genomics; 2011).

In particolare, sto costituendo un gruppo internazionale di ricerca e siti di osservazione, inclusi ospedali, veterinari e farmacie al fine di varare un progetto a largo respiro che possa rilevare cambiamenti della biosfera (microbiomi, insetti,

malattie di piante, animali e umani) con sistemi di diagnostica precoce e intervenire con moduli di intervento con efficacia scientificamente comprovata. Tale significativo lavoro coinvolge diverse professionalità e paesi e si basa sulla costituzione di una rete geo-politicamente opportunamente disegnata che strategicamente monitora i cambiamenti della biosfera con impatto sulla salute umana, animale e vegetale. A tal fine, ho anche preso la qualifica in corsi internazionali universitari, incentrati sulla creazione di **European Climate Resilient Health Systems** e faccio parte del **Global Consortium on Climate Health and Education**.

→ **Sensibilizzazione e coinvolgimento del pubblico** (*capitolo rispondente alle voci concorsuali "attività istituzionale"*)

Coinvolgimento con la comunità nella presentazione e spiegazione dell'attività accademica

2015 Cheadle Hulme School

2017 3rd scout Heald Green

2010 – till today Corsi di istruzione professionale e progetto specifica in corsi di sviluppo sostenibile e di tutela della salute in Paesi a basso reddito (per lo più in Africa)

2008 Italiano per piacere

Altra promozione della medicina e/o della salute o delle scienze umane all'interno della comunità locale, regionale o nazionale

Queste attività vengono per lo più governate tramite la mia Azienda (Social enterprise – non a scopo di lucro) – Il cui sito è al momento in costruzione e in fase di transizione su nuovi progetti e paesi

Altre evidenze di portata internazionale

2013 – Leader di progetti di sviluppo nei capitoli relativi all'istruzione, alla salute e al miglioramento dell'ambiente in Sierra Leone e nella Repubblica Democratica del Congo

2011 Membro della task force Outreach Evimalar

2010 – ad oggi - Consulente scientifico del Centro per la diagnosi delle malattie infettive e Point of Care nella regione di Moba – Congo

→ **ELENCO ALTRE ATTIVITÀ PROFESSIONALI**

Volontario:

- 08-09/1994: Volontario internazionale come assistente paramedico presso l'ospedale di Usolanga, Ismani, Tanzania, Africa.
- 1995-1997: Volontario a supporto dei malati di cancro gravi e delle loro famiglie presso l'Ospedale Centrale di Padova, Italia.

Scout dal 1990 attivo scout all'interno dell'associazione scout italiana AGESCI e ora passato all'associazione scout britannica.

Fire-Marshall per la Keele University

→ **LINGUE:**

Italiano (madrelingua)

Inglese (livello esperto)

Esame Toefl 2004 con punteggio 260/300

2006: Corsi di lingua inglese per la comunicazione accademica e professionale: "Speaking and Grammar II" presso la Washington University School of Medicine, St. Louis, MO

Inglese certificato livello C2 2020

Certificazione del Trinity College 2020

Spagnolo (livello base)

Kiswahili (livello di sopravvivenza)

Versione Inglese

Curriculum Vitae of Ilaria RUSSO, PhD

Education (chapter corresponding to the competition items "training and professional qualifications")

02/2024 – Certified UK Phlebotomist Course

10/2021 - Advanced HE fellow of the Higher Education Academy in the UK (qualification to teach in the UK University)

01/2002 – 12/2004 (Thesis defense 19/04/2005) **PhD in Cellular and Molecular Biology and Pathology** at the Department of Biomedical Sciences, University of Padua, Italy

10/1995 - 03/1998 Bachelor/Master graduation in **Pharmaceutical Chemistry and Technology** (110/110 cum laude) at the Faculty of Pharmacy, CRIBI Biotechnology Centre, University of Padua, Italy

09/1992 - 10/1995 Bachelor studies in **Pharmaceutical Chemistry and Technology** at the Faculty of Pharmacy, University of Palermo, Italy

1987 - 1992 High School **graduation at the Liceo Classico** "Ancelle del Sacro Cuore", Palermo, Italia

Qualifications (chapter corresponding to the competition items "training and professional qualifications")

- **Scholar in Climate Resilient Health Systems 2025**
- **Accredited Phlebotomist in the UK 2024**
- **Health and Safety Qualified Expert 2024**
- **Advance HE fellow of the Higher Education Academy (UK) 2021**
- **Associate Professor (USA 2017)**
- **Infectious Diseases Scholar 2005**
- **PhD in Cellular and Molecular Biology and Pathology (2005)**
- **Qualified Pharmacist according to the Italian law – (1998)**
- **Laurea Magistrale in Pharmaceutical Chemist and Technologist – specialized in biotechnology** (equivalent to **BPharm & MPharm**) (1998 – 110/110 cum laude)

Appointments (reverse chronology): (chapter corresponding to the competition items "training and professional qualifications", "institutional activity", "managerial experience")

Present position – 01/2019 – till present - Lecturer and Health and Safety Officer of the School of Medicine at the University of Keele, UK

Present private position – 06/2019 – till present – CEO of Daring Scientific Projects limited – A non-profit, social business that provides international scientific consultancy for sustainable development and scientific projects (analysis, funding recruitment and project management)

09/2019 – 06/2023 – Honorary Adjunct Professor of Dept. of Internal Medicine –Infectious Diseases at Washington University in St. Louis, MO, USA

09/2017 – 08/2019 – Assistant Professor– Washington University in St. Louis, MO, USA (part-time).

03/2018 – 06/2018 – Senior Researcher at the Faculty of Biology, Medicine and Health of the University of Manchester (UK) (part-time)

12/2015 – 02/2018 – Senior Researcher at the Faculty of Biology, Medicine and Health of the University of Manchester (UK) – supported by the ERC Reintegration Grant. Subject: Malaria research (part-time)

04/2013 – 09/2016 – Senior Researcher - Stepping stone Funding at the Faculty of Life Sciences of the University of Manchester (UK). Subject: Malaria research

02/2011 - 04/2013 – Researcher on ERC Reintegration Grant at the Department of Experimental Medicine and Biochemical Sciences of the University of Perugia, Italy. (**NOTE: In effect the project was 12 months as interrupted for several months for administrative holds up and health issues**) Subject: Malaria research

03/2009 – 01/2011 – Senior technician/Research assistant for vaccine research at the University of Perugia. – part-time 40%

04/2007 – 02/2009 - Research Associate of Howard Hughes Medical Institute (HHMI) at Washington University of St. Louis – MO – USA. (Prof DE Goldberg) Subject: Malaria research

05/2005 – 03/2007 Post-doctoral Fellow at Washington University of St. Louis – MO – USA. (Prof DE Goldberg) Subject: Malaria research

10/2001 – 04/2005 PhD courses Cellular and Molecular Biology and Pathology under the mentorship of Prof C Montecucco, University of Padua. (*This overlapped with the post at Chiron Vaccines*) Subject: bacterial toxins and pathogenesis

03/2000 – 03/2004 Staff Researcher at Chiron Vaccines IRIS Research Center, Sienna, Italy, under the direction of Dr Rino Rappuoli and Werner Pansegrau. Subject: antimicrobials and vaccines research

03/1998 – 10/1998 Apprentiship at the Pharmacy of Arqua'-Petrarca PD - Italy

03/1998 – 10/1999 Pre-graduate research Fellowship at the Center of Interdepartmental Research for Innovative Biotechnology (CRIBI) of University of Padua, Italy. (Prof V De Filippis & Prof E Di Cera) Subject enzymology and anticoagulants

11/1996 – 10/1997 Research as undergraduate at the Center of Interdepartmental Research for Innovative Biotechnology (CRIBI) of University of Padua, Italy. (Prof A Fontana) Subject protein chemistry and biophysical technics

01/1995 – 11/1995 Research as undergraduate. Dept. Pharmaceutical Science of the University of Palermo under direction of Prof. G. Giammona. University of Palermo, Italy. Subject: drug delivery systems based on succinimide polymeric matrices

07/1994 - Industry experience at the IPRA pharmaceutical company specialized in production of infusions. Subject: Quality controls.

CAREER BREAKS and PART-TIME PERIODS

12/2021- 05/2022 Severe health issues with phased return till September 2022

10/2020 - 04/2021 Minimal research activities due to COVID19 pandemics

02/2020 - 09/2020 No research activities due to COVID19 pandemics and National Lockdown

29/03-12/06/2017 - Sick leave

02/2012 - 03/2013 – CAREER BREAK Prolonged absence from work for debilitating illness and subsequent difficulties in academic reintegration at the University of Perugia.

05/2015 – 07/2017 – Part-Time at 70% salary.

02/2011 - 03/2013 – Part-Time at 50% salary.

03/2010 - 01/2011 – Part-Time at 40% salary.

03/2009 - 02/2010 - CAREER BREAK for Relocation to Italy, Maternity (birth day 26/08/2009) and child care.

RESEARCH CONTRIBUTIONS (chapter corresponding to the competition items "Scientific publications", "institutional activity", "managerial experience" and "training and professional qualifications")

Publications

Please, note that applicant's work is all publicly available, except for the period spent working at the company Chiron Vaccine (now GSK), due to intellectual property constraints. (from 2003-2008)

Please, note that soon after the applicant moved to Italy, a maternity, an accident necessitating prolonged absence from work and severe administrative holds-up at the host institutions affected her publication record.(from 2011-2014)

(peer reviewed)

Hasan MH, Khalil I, Baker Chowdhury MA, Rahman M, Asaduzzaman M, Billah M, Banu LA, Alam MA, Ahsan A, Traore T, Uddin MJ, Galizi R, **Russo I**, Zumla A & Haider N - Two Decades of Endemic Dengue in Bangladesh (2000-2022): Trends, Seasonality, and impact of Temperature and Rainfall Patterns on transmission dynamics - medRxiv **2023.07.16.23292380**; doi: <https://doi.org/10.1101/2023.07.16.23292380> and accepted by the **Journal of Medical Entomology** (July 2023)

Nguyen ST, Du D, Wychrij D, Cain MD, Wu Q, Klein RS, **Russo I***, and Goldberg DE* - Histidine-rich protein II nanoparticle delivery of heme iron load drives endothelial inflammation in cerebral malaria. **Proc Natl Acad Sci USA**.

- Giurisato E, Lonardi S, Telfer B, Lussoso S, Risa B, Zhang J, **Russo I**, et al. – The Extracellular-Regulated protein Kinase 5 is required for mediating macrophage proliferation associated with development of malignant tumors – **Cancer Res** June 19 2020 DOI: 10.1158/0008-5472.CAN-19-2416
- Pool MR & **Russo I** - The perplexing PEXEL protein secretory pathway - **Nat Microbiol.** 2018 Sep;3(9):969-970. doi: 10.1038/s41564-018-0235-2
- Lehmann C, DeVries L, Tan S, **Russo I**, Sanchez-Lopez M, Goldberg DE, Deu E - *Plasmodium falciparum* dipeptidyl aminopeptidase 3 (DPAP3) activity is important for efficient erythrocyte invasion — **Plos Pathogen** 2018 May 16;14(5):e1007031. doi: 10.1371/journal.ppat.1007031
- Alnabulsi S, Hussein B, Santina E, Alsalahat I, Kadirvel M, Magwaza RN, Bryce RA, Schwalbe CH, Baldwin AG, **Russo I**, Stratford IJ & Freeman S - Evaluation of analogues of furan-amidines as inhibitors of NQO2 for potential use in the treatment of cancer and malaria - **Bioorganic & Medicinal Chemistry Letters** – 2018 - 28, 8, 1292-1297 – doi:10.1016/j.bmcl.2018.03.025
- Giurisato E, Telfer B, Lonardi S, Wang J, **Russo I**, Gray NS, Vermi W, Tournier C - Myeloid ERK5 deficiency suppresses tumor growth by blocking pro-tumor macrophage polarization via STAT3 inhibition – **PNAS** 2018
- Nasamu SA, Glushakova S, **Russo I**, Vaupel B, Oksman A, Kim AS, Fremont DH, Tolia N, Beck JR, Meyers MJ, Niles JC, Zimmerberg J, Goldberg DE - Plasmeppsins IX and X are essential and druggable mediators of malaria parasite egress and invasion – **Science** 2017
- Alnabulsi S, Santina E, Russo I, Kadirvel M, Chadwick A, Bichenkova E, Bryce R, Nolan K, Demonacos C, Stratford I and Freeman S - Furan-amidines as potent NRH: Quinone Oxidoreductase 2 (NQO2) inhibitors: Design, Synthesis and Biological Evaluation – **European Journal of Medicinal Chemistry** 111 (2016) 33e45.
- Gambini L*, Rizzi L, Pedretti A, Taglialatela-Scafati O, Carucci M, Pancotti A, Galli C, Read M, Giurisato E, Romeo S & **Russo I***, - Picomolar inhibition of Plasmeppin V, an essential Malaria protease, achieved exploiting the prime region - *Equally contributed – **Plos One** 11/2015; 10(11):e0142509. DOI:10.1371/journal.pone.0142509.
- Moretti E, Collodel G, Mazzi L, Russo I & Giurisato E - Ultrastructural study of spermatogenesis in KRS2 deficient mice - **Transgenic Research** – 2015 Aug;24(4):741-51.
- P. falciparum* & *P. vivax* Novel Targets & Classes – final report of CRIMALDDI workshop No1 – October 2010 - **Russo I** among the participants/authors – published on line at [web link](#)
- Russo I**, Babbitt S, Muralidharan V, Butler T, Oksman A and Goldberg DE – Plasmeppin V licenses *Plasmodium* proteins for export into the host erythrocyte – Article in **Nature** 2010 Feb 4; 463(7281):632-636. ([web](#))
- Fennell C, Babbitt S, **Russo I**, Wilkes J, Ranford-Cartwright L, Goldberg DE, Doerig C–PfelK1, a eukaryotic initiation factor 2 α kinase of the human malaria parasite *P. falciparum*, regulates stress-response to amino-acid starvation – **Malaria Journal** 2009 May 12;8:99. [web](#)
- Russo I.**, Oksman A. and Goldberg DE – Fatty Acid Acylation Regulates Trafficking of the Unusual *P. Falciparum* Calpain to the Nucleolus – **Molecular Microbiology**; 2009 Apr; 72(1):229-45. Epub: Feb 23 2009. [web](#)
- Russo I.**, Oksman A., Vaupel B and Goldberg DE – A calpain unique to alveolates is essential in *P. falciparum* and its knockdown reveals an involvement in pre-S-phase development – **Proc Nat Acad of Science**; 2009 Feb 3;106(5):1554-9. Epub 2009 Jan 22. [web](#) -
- De Filippis, V., Colombo, G., **Russo, I.**, Spadari, B. and Fontana, A. – Probing the Hirudin-Thrombin Interaction by Incorporation of Non-coded Amino Acids and Molecular Dynamics Simulation - **Biochemistry**; 2002; 41(46); 13556-13569. [web](#)
- De Filippis, V; **Russo, I**; Salmaso, S; Fontana, A - Protein engineering by non-coded amino acids - **Italian Journal of Biochemistry** - Volume: 49 Issue: 1 - MAR 2000
- De Filippis, V., **Russo, I.**, Vindigni, A., Di Cera, E. and Fontana, A. -(1999)- A highly potent and selective thrombin inhibitor obtained by cumulative incorporation of non-natural amino acids into the N-terminal domain 1-47 of hirudin - **Protein Science**, 1999, 8, 2213-2217. [web](#)

(not peer reviewed)

Books

Russo I, & Goldberg DE - Plasmepsin V. In Handbook of Proteolytic Enzymes, 3rd ed, 2012, Woessner JF, Rawlings ND (eds), Elsevier, Oxford.

Seminars (updated at 2023)

2023 – Invited speaker at Zonta International and Lion Club – Palermo – Italy

2016 – Invited seminar to the University of Keele

2016 - Invited Speaker at 9th Global Pathologists Annual Meeting -October 10-11, 2016 Manchester, UK

2016 - Invited Speaker at 15th Annual Congress of International Drug Discovery Science & Technology - Japan 2017

2016- Keynote speaker at 54th BSP Spring Meeting 11th-13th April - Chemotherapy to Fight Malaria, travel notes and snapshots of an ongoing journey

2014 – Invited Seminar at the MRC in London.

2013 – Invited Seminar at the School of Tropical Medicine in Liverpool.

2012 - Invited Speaker at 2nd Symp. of Antiparasites (SAP-2012) – 07/30 – 08/01 – Guangzhou, China.

2011 - Invited Speaker at 9th Congress of International. Drug Discovery Science and Technology (IDDST) – 11/2011 – Shenzhen, China

2011 - Invited seminar at Actelion – Basel - *Plasmodium falciparum*: treasure chest of new molecular targets. Hunt season open! 21/06/11

2011 - Invited seminar at Imperial College – London. 17/01/2011.

2010 - Invited seminar at University of Siena - Plasmepsin V inhibition: a deadly embargo on *P. falciparum* asexual and transmission forms

2009 - Invited seminar at Novartis – Siena.

Communications to congresses (updated at 2023)

2023 – MC Musasa; WD Wichrij; GD Goldberg; I Russo - Histidine rich protein II, from malaria diagnostic marker to strong proinflammatory and risk factor for severe malaria outcomes - 2023 British Society for Parasitology Spring Meeting

2023 – Russo I - Global human Health is a One-health, Sustainability and Equality problem altogether - raising awareness and promoting actions - 2023 British Society for Parasitology Spring Meeting

2021 - Nguyen S, Russo I, Wychrij D, Goldberg DE. Heme-laden HRP-II nanoparticles mediate caveolin-dependent endothelial inflammation in malaria pathogenesis. Oral Presentation. **Malaria-2021 virtual symposium. July 2021.**

2020 - Nguyen S, Russo I, Wychrij D, Goldberg DE. Disrupting the blood brain barrier: a role for HRP-II in cerebral malaria, Oral Presentation. **WUSM Fellows Forum. September 2020.**

2018 Magwaza R, Alnabulsi S, Hussein B, Russo I & Freeman S - Design, Synthesis and Evaluation of novel leads for drug-resistant malaria at **British Society of Parasitology(BSP) Spring Meeting - April 2018-University of Aberystwyth, Wales (UK);**

at VII Meeting of the Paul Ehrlich Euro-PhD Network - July 2018-University of Porto Portugal (EU);
and at Doctoral Academy Graduate Society) PhD showcase -June 2018-University of Manchester, (UK)

2016 – Kitazono I, Gambini L, Rizzi L, Pedretti A, Tagliatela-Scafati O, Carucci M, Pancotti A, Galli C, Read M, Giurisato E, Romeo S & Russo I - From Picomolar *in vitro* Inhibition of Plasmepsin V to a drug-like inhibitor a long journey . **12th BioMalPar Conf. – May 2016- EMBL Heidelberg, Germany (EU).**

2016 – Ishizaki Y, Freeman S, Alnabulsi S, Hussein B & Russo I - From fragments to novel leads for the treatment of malaria - **12th BioMalPar Conf. – May 2016- EMBL Heidelberg, Germany (EU)**

2016 – Russo I, Chauhan R, Kitazono I, Ishizaki Y (corresponding Russo) - Chemotherapy to Fight Malaria, travel notes and snapshots of an ongoing journey - **12th BioMalPar Conf. – May 2016- EMBL Heidelberg, Germany (EU)**

- 2013** - Gambini L*, Rizzi L, Carucci M, Pancotti A, Galli C, Taglialatela-Scafati O, Pedretti A, Romeo S & **Russo I***, - Picomolar inhibition of Plasmeprin V, an essential malaria protease. 8th BioMalPar Conf. – May 2013- EMBL Heidelberg, Germany (EU).
- 2012** M Carucci, M, Crisanti, A & Russo, I - PlasmeprinV inhibition: a deadly embargo on asexual and transmission forms of *P. falciparum*. 8th BioMalPar Conf. – May 2012- EMBL Heidelberg, Germany (EU).
- 2010 Speaker for the 6th BioMalPar Conference** –04/2010- EMBL Heidelberg, Germany (EU) - Romeo, S, Rizzi, L, Carucci, M, Crisanti, A & **Russo, I** - PlasmeprinV inhibition: a deadly embargo on asexual and transmission forms of *Plasmodium falciparum*.
- 2009 Speaker at Molecular Parasitology Meeting XX** – MBL Woods Hole, MA (USA) - **Russo I.**, Oksman A. and Goldberg DE – Plasmeprin V licenses *Plasmodium* proteins for export into the host erythrocyte.
- 2008** - Russo I., Oksman A. and Goldberg DE – Assessment of *Plasmodium falciparum* proteases as potential drug targets by allelic replacement and conditional knockdown strategies - Molecular Parasitology Meeting XIX September 21-25, 2008 Marine Biological Laboratory Woods Hole, MA (USA):
- 2007** - Russo I., Oksman A. and Goldberg DE – A new type of Calpain unique to alveolates and essential in *Plasmodium falciparum* is driven into the nucleolus by a trans-kingdom signal – 3rdAnnual BioMalPar Conference on Biology and Pathology of the Malaria Parasite - April 10th to 12th, 2007 - EMBL- Heidelberg, Germany (EU).
- 2006** - Russo I., Oksman A. and Goldberg DE – A Calpain Unique to Alveolates Is an Essential Nucleolar Protein in *Plasmodium falciparum* - Molecular Parasitology Meeting XVII September 10-14, 2006 Marine Biological Laboratory Woods Hole, MA (USA):
- 2004** - Russo I. and Goldberg DE - Characterization of *Plasmodium falciparum* Calpain - Molecular Parasitology Meeting XV September 19-23, 2004 Marine Biological Laboratory Woods Hole, MA (USA) October 5, 2004:
- 2003** - Russo I., Giurisato E., De Bernard M., Benedetti A., Montecucco C. and Covacci A. – Lipid raft as gateway of *Helicobacter pylori* infection - Research Center IRIS - CHIRON –Siena (2003)
- 2002** - Russo I. and Covacci A. – Glutamate racemase, Glr as target of new antibacterials - Research Center IRIS - CHIRON –Siena (2002)
- 2001** - Russo I., Pansegrau W. and Covacci A. – Architecture of type IV secretion systems: subcellular localization of *H.pylori* CagA and CagE – EURESCO conference (2001) – Lucca
- 2000** - Pansegrau W., Russo I., Hillerigman M., Rappuoli R. and Covacci A. - Targeting virulence determinants for development of new anti-infectives – Research Center IRIS - CHIRON –Siena (2000)
- 1999** – De Filippis V, Russo I, Vindigni A, Di Cera E Salmaso S, and Fontana A – protein engineering with Non-natural Amino Acids and Characterization of Highly Potent and Selective Thrombin Inhibitor Based on the N-terminal Domain 1-47 of Hirudin – American Protein Society Thirteenth Symposium of the Protein Society Boston, MA – 24-29 July 1999.

Awarded Grant/Funding

- 2024 – Schlumberger fellowship per PhD supervision 1st year (\$50,000)**
- 2023 – Schlumberger fellowship per PhD supervision 3rd year (\$50,000)**
- 2023 - Subject:** OPP164: NERC Equitable nature-based climate resilience in Sub-Saharan Africa; APP12561; (~ £ 4,000,000) – shortlisted for funding but no sufficient funds were available (the grant was invited to resubmit)
- 2023 – BEBUC research money support - (~ \$5,000)**
- 2023 – Schlumberger fellowship per PhD supervision 2nd year (\$50,000)**
- 2023 –The Pathological Society of Great Britain and Ireland** funding the project Dissecting malaria proteins HRP^{II} and HRP^{III} to identify domains responsible of the onset of cerebral malaria by blood-brain barrier disruption for drug development – Application funded and ongoing~£4,000
- 2022 – Schlumberger fellowship per PhD supervision 1st year (\$50,000)**
- 2021 – Royal Society - Research Grants 2021 Round 2 - RGS\R2\212418 – (£50,000)**

2020 – EU Malaria Fund via consortium of companies and institutions- Discovery of new malaria vaccines through next generation reverse vaccinology – Russo single author and unique director of this Malaria vaccine project that secured over **40 million Euro**

2020 - TALENT: Technician Led Equipment Fund – funds in support of the PhD project on cell cycle regulation – funding lost with the student asking a change of supervisor - £ 4549.09

2020 - TALENT: Technician Led Equipment Fund – funds in support of the PhD project on drug discovery – completed - £ 619.20

2019 – Keele University – start-up funds – new investigator award for laboratory start-up for limited consumables for 2 years and a **PhD studentship for 3 years** – the PhD studentship has been taken away by the SoLS for student requesting to change supervisor - (~£200,000)

2017 – MMV Collaborative grant - Discovery and development of drugs targeting PlasmeprinV and the PexEI secretion in *Plasmodium* parasites – 08/2017 – 07/2018 - (**£50,000**)

2015-2018 Marie Curie International Reintegration Grant - Grant Agreement n° PIRG07-GA-2010-268441 -Call FP7-PEOPLE-2010-RG Proposal n°268441 – Principal investigator **Ilaria Russo** (single beneficiary)- Research Executive Agency of European Union (seventh framework programme) - -“Genetic High Throughput Screenings by random mutagenesis to identify *Plasmodium falciparum* critical genes for asexual growth, sexual differentiation and virulence affecting host immune responses” . (**~250,000 Euro**)

04/2013 – 09/2016 Stepping Stone Fellowship. Supported by the Wellcome Trust Fund. Faculty of Life Sciences, University of Manchester, UK. (**~£300,000**)

2011-2013 Marie Curie International Reintegration Grant - Grant Agreement n° PIRG07-GA-2010-268441 -Call FP7-PEOPLE-2010-RG Proposal n°268441 – Principal investigator **Ilaria Russo** (single beneficiary)- Research Executive Agency of European Union (seventh framework programme) - -“Genetic High Throughput Screenings by random mutagenesis to identify *Plasmodium falciparum* critical genes for asexual growth, sexual differentiation and virulence affecting host immune responses” . (**~250,000 Euro**) **Suspended for transfer to the University of Manchester..**

2005-2008 - NIH Grant AI-047798. – Principal investigator: **Daniel E. Goldberg** - National Institutes of Health (USA) – – “Characterization of Proplasmepsin Maturase” – Aims and tasks were successfully accomplished as published. . (**over 1 million \$**).

2005 – Fellowship on Infectious Diseases Infectious Diseases Scholar Program (IDSP) – Beneficiary: **Ilaria Russo** – Dept of Medicine – Infectious disease at Washington University School of Medicine – St. Louis – MO - USA. (**~50,000\$**).

1999 – Funds for short term visit at Washington University from the Interuniversity Biotechnologies Consortium - ~Liras 4.000.000 – December 1998 – Trieste – Italy.

1998 – 1999 – Fellowship for Undergraduates from the Consortium of Padua Researches for purification and structural analysis of protein of biotechnological interest – Padua – Italy

Other research achievements

2025 – Award as Scientist of Excellence by Zonta Internation – Palermo (Italy)

2023 – Nominated by Zonta Internation as scientist of excellence for the year 2025 – Palermo (Italy)

2016 – Keynote speaker at the British Society of Parasitology (BSP) 2016 – imperial college London

2014 – ERC-2014-StG passed Step1 selection for Starting grant from ERC2014.

2012 – ERC-2012-StG_20111109 passed first step of selection for Starting grant from ERC2012 – 01-03-12.

2011 – Semifinalist for the HHMI (Howard Hughes Medical Institute) grant IECS 2011 (International Early Career Scientist) – Janelia Farm Campus (Ashburn, VA, USA).

2010 – Selected for EMBO Long term fellowship. Call ALTF 1651-2010. (Note: not financed due to limited availability of funds)

2008 Award for best scientific work presented at MPM XIX - at Marine Biological Laboratory Woods Hole, MA (USA) in **section best presented works** - **Russo I**, Oksman A and Goldberg DE – Assessment of *Plasmodium falciparum* proteases as potential drug targets by allelic replacement and conditional knockdown strategies_

PATENTS: Pending patent on new device for cultivation of single or multiple cell lines adherent or in suspension in a format that allows long term cultivation with minimal perturbation of the culture.(**Submitted to EU**)

Supervision of research students

2024– Supervision of 6 undergraduates, and 2 PhD students

2023– Supervision of 6 undergraduates, and 2 PhD students
2022 – Supervision of 9 undergraduates, 2 master and 3 PhD students
2021 – Supervision of 7 undergraduates, 1 master and 2 PhD students
2020 – Supervision of 6 undergraduates, and 2 PhD students
2020 – Unique director for the multinational project MalOmVax funded by the EU Malaria fund (~40,000,000Euro)
2019 – Supervision of 6 undergraduates, and 2 PhD students
2018 – Supervision of 2 undergraduates, 1 post-graduated and 2 PhD students
2017- Supervision of 3 undergraduates, 1 post-graduated and 3 PhD students
2016- Supervision of 7 undergraduates, 5 post-graduated and 2 PhD students
2015 – Supervision of 6 undergraduates and one post-doc at the Faculty of Life Sciences – University of Manchester.
2014 - Supervision of two undergraduate students at the Faculty of Life Sciences – University of Manchester.
2011 - 2012 1 PhD student at the Department of Experimental Medicine and Biochemical Sciences of the University of Perugia, Italy – successfully graduated.

EVIDENCE OF ACADEMIC AND PROFESSIONAL STANDING (chapter corresponding to the competition items "institutional activity", "managerial experience" and "training and professional qualifications")

Professional advisory or consultancy work in local, national or international arena

Reviewer for JBC, and Nature-Scientific reports, iScience, European Journal of Medicinal Chemistry
 Also Reviewer for Plos One; Molecular Biology and Evolution and Experimental Parasitology, International Parasitology, PLOS Global Public Health, PLOS Pathogen

2022 – till today - Scientific advisor for the centre for infectious disease diagnosis and point-of-care in the region of Vanga – DR-Congo and in the area of Konkoba in Sierra Leone.
2020 – till today Reviewer for FCT - Project Grants - Portugal
2019 - till today Member of the editorial board of Advances in Infectious Diseases & Therapy.
2016 – Reviewer for MRC Grants
2016 – Selected for the GCRF vaccinology network meeting in London.
2010 – till today - Scientific advisor for the centre for infectious disease diagnosis and point-of-care in the region of Moba– DR-Congo.

Public service in a professional capacity

2019 - Organizer of the British Society of Parasitology 2019 meeting at the University of Manchester - completed
2018 - Invitation to Join Editorial Board of the American Journal of Integrative Agricultural Sciences
2017- Academic Member of the Senate of the University of Manchester - Completed
2016- Editorial Board invitation to International Journal of Cell & Systems Developmental Biology (IJCSDB)
2016- Editorial Board invitation to Journal of Zoonotic Diseases and Public Health)
2016 - Invited authorship for monographic chapter of a Bentham book on “Frontiers in Drug Metabolism – Artemisinin and Its Derivatives: A Journey from Malaria to Cancer”
2015 - Invited expert for Erasmus+ selection of Erasmus Mundus Joint Master Degrees (EMJMD) projects
2014 – Editorial board invitation to the of Journal of AIDS and Immune Research
2014 - Invited expert for Erasmus Plus selection for Joint Master Degrees, call EAC-S11-13.
2014 - till today Member of the editorial board of Enliven: Immunology and Immunotechniques.
2010 – till today - Scientific advisor for the center for infectious disease diagnosis and point-of-care in the region of Moba – Congo
2010 – Member of the Scientific Advisory Board – Invited to CRIMALDDI European workshop n.1 –September **2010** - Liverpool UK- P. falciparum & P. vivax- novel targets & classes - How to identify and exploit novel targets at all stages of the lifecycle of P falciparum & P vivax.
2008 Invited as assistant teacher for the Biology of Parasitism (BoP) international summer course at the MBL – WoodsHole MA

Lead organisational roles in substantive national or international professional conferences

2025 Chair of the Women in Malaria conference
2025 Invited Chair of the Apicomplexa 2025 conference
2016 – Organizer of the British Parasitology Society spring meeting in 2019 at the University of Manchester.

Member of Scientific Societies

European Society of Clinical Microbiology and Infectious Diseases
American Society of Biochemistry and Molecular Biology (ASBMB)
Academic Women Network @Washington University in St. Louis
British Society of Parasitology
Expert Women in Life Sciences – WILS database;
Italian Malaria Network – CIRM;
Marie Curie Fellows Association – MCFA;
Outreach Evimalar task-force;

TEACHING AND LEARNING (chapter corresponding to the competition items "institutional activity", "managerial experience" and "training and professional qualifications")

My specific skills concern the field of public and global health, One-health, microbiology, parasitology, biochemistry, molecular biology, genetics, protein chemistry, enzymology and health education.

Current and previous teaching duties, undergraduate, professional and/or postgraduate

Current roles: Supervisor for Dissertation students, International Students, Supervisor for 2 PhD students, PBL teaching course for second year medicine students; lecturer in Pharmacology, microbiology, molecular biology and Biochemistry for the School of medicine; Unit leader for Unit 9 Y2 Medicine; Module leader for the Master in Global Health Leadership (SoM).

Previous roles: Supervisor for Undergraduates, PhD students and newcomers PostDocs. Supervisor for final year Dissertation students, International Students, Nuffield undergraduates, University Undergraduates, Master students (MHS microbiology, MRes, MSc), Unit leader for Unit 12 Y2 School of Medicine; Supervisor for 4 PhD students (MC, RM, GS & AO)
Internal Examiner of the committee for the PhD thesis of Miss BA.

Innovative work and contributions to the reform and/or development of curriculum or assessment

My job has been always conducted with contagious enthusiasm and dedication. 100% of the Students joined in and some demonstrated a driving role. No one quitted despite the fact that some experienced grave difficulties in life.
I liaise with the teaching committee and involved in innovations of the applied methodology.

Any evidence or results of external assessments of teaching ability

- About 90% of people I trained remained in science or revealed themselves successful in the acquired techniques and knowledge. Some of them have become principal investigators, staff at GSK or in other institutions, moved to the public sector, or secured prestigious fellowships in their own countries for PhD.
- Development and delivery of remote project courses for healthcare workers and teachers in Africa.
- Interviews with blogs on social media on scientific topics, such as COVID19 and Health & Safety

Leadership and/or management roles (chapter corresponding to the competition items "institutional activity", "managerial experience" and "training and professional qualifications")

Contributions within the organisational structure of Keele University or other higher education institutions

I regularly contribute to the University strategy calls by interacting with colleagues, the Head of the Research, Head of the School and other involved faculties

Contributions to external bodies

At the BSP 2016, where I was invited as a keynote speaker, I promoted and proposed the University of Manchester as host of one of the upcoming British Society of parasitology spring meeting. This was appointed to us in September 2016 for organizing the BSP meeting 2019.

2010 – till today - Scientific advisor for the centre for infectious disease diagnosis and point-of-care in the region of Moba – Congo

Knowledge and Technology Transfer (chapter corresponding to the competition items "institutional activity")

Details of how research discovery or innovation has been adopted by industry and other institutions

My work on malaria and Global Health has attracted great interest from companies and academic groups interested in drug discovery, among those the ones that resulted in a formal consultancy, as listed below

Patents

Pending patent on new device for cultivation of single or multiple cell lines adherent or in suspension in a format that allows long term cultivation with minimal perturbation of the culture. **(Submitted to EU)**

Consultancy activity in the corporate sector

2021-2023 Scientific Consultant for Fonte di Speranza Foundation, Italy

2020 – open end Tripartite collaborative agreement with the University of Manchester and StreamBio for creating new diagnostics in Malaria and Covid

2019 - 2020 Scientific executive consultancy for AchilleS Vaccines, Italy

2018 USA military Air Force requested collaborative consultation for a project involving *Plasmodium* proteins, I am currently studying, with important activities for synthesis of new materials – under discussion

2016 Consultancy contract with Medicines for Malaria Venture (MMV) – now closed (discussion to renovate the collaboration was reinitiated in late 2019)

2011 Consultancy contract with Actelion – now closed

2010 Consultancy with Vitae Pharmaceutical – now closed

Some discussions were also open with GSK and AstraZeneca about PmV inhibitors.

Other appointments or engagements in the business community

2002-2004 3 Private project-oriented contracts were conducted for Chiron Vaccines Srl.

Other evidence of the successful application of scholarly activity

My work malaria and Global Health has attracted numerous citations in papers, in scientific divulgation journals, news and on internet (like TopNews, Inscience, Global Times, ANSA, Sciencedaily, Sciencemag, HHMI news) around the globe. The novelty and the impact of the published findings generated a monographic new chapter in the Handbook of proteolytic enzymes, Elsevier and the creation of new dedicated enzyme codes (EC 3.4.23.B19) and new BRENDA database files and impacted various fields (Haase S et al, Cell Microbiology 2010; Goldberg DE et al, Trends Parasitol 2011; Kay J et al, BMC Genomics 2011).

In particular, I am establishing an international research group and observation sites, including hospitals, veterinarians and pharmacies in order to launch a large-scale project that can detect changes in the biosphere (microbiomes, insects, plant, animal and human diseases) with early diagnostic systems and intervene with intervention modules with scientifically proven effectiveness. This significant work involves different professionals and countries and is based on the establishment of an appropriately designed geo-political network that strategically monitors changes in the biosphere with impact on human, animal and plant health. To this end, I have also qualified in international university courses, focused on the creation of **European Climate Resilient Health Systems** and am part of the **Global Consortium on Climate Health and Education**.

Outreach and public engagement (chapter corresponding to the competition items "institutional activity")

Engagement with the community in the presentation and explanation of scholarly activity

2015 Cheadle Hulme School

2017 3rd scout Heald Green

2010 – till today Professional and project-specific education courses in sustainable development and health protection courses in low-income countries (mostly in Africa)

2008 Italiano per piacere

Representation of the University of Manchester within the local, regional or national community

2016 – Invited to the GCRF vaccinology network meeting in London.

Other promotion of medicine and/or health or human sciences within the local, regional or national community

These activities are mostly governed through my company (Social enterprise - non-profit) - whose site is currently under construction and in transition to new projects and countries

International outreach

2013 – till today Leader of development projects in the chapters of Education, Health and environment improvements in Sierra Leone and the DRC

2011 Member of the Outreach Evimalar task-force

2010 – till today - Scientific advisor for the center for infectious disease diagnosis and point-of-care in the region of Moba – Congo

LIST OF OTHER PROFESSIONAL ACTIVITIES

- Volunteer :
08-09/1994: International volunteer as paramedic helper in the hospital of Usolanga, Ismani, Tanzania, Africa.
1995-1997: Volunteer supporter for severe cancer patient and their families at the central Hospital of Padua, Italy.
- Scout from 1990 active scout within the Italian scouting association AGESCI and now moved to the British scouts Association.
- Fire-Marshall for Keele University

LANGUAGES:

Italian (mother-tongue)

English (expert level)

2004 Toefl exam with score 260/300

2006: English Language Courses for Academic and Professional Communication: “Speaking and Grammar II” at Washington University School of Medicine, St. Louis, MO

2020 certified C2 level English

2020 Trinity college certification

Spanish (basic level)

Kiswahili (some words)

Sottoscritto da (signed by) Ilaria Russo, PhD

