Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	**Saula Checquolo**
Address(es)	Department of Medico-Surgical Sciences and Biotechnologies, Corso della Repubblica, 79, 04100 Latina (Italy)
Telephone(s)	+39649255674
Fax(es)	+39649255673
E-mail	
Nationality	
Gender	

Occupational field	MED-04 (General Pathology)

Work experience

Dates	2022 - today
Occupation or position held	Associate Professor
Main activities and responsibilities	Academic teaching, Research, and Student training in Research
Name and address of employer	“Sapienza” University of Rome - Department of Medico-Surgical Sciences and Biotechnologies - Corso della Repubblica 79 - Latina (Italy)

Dates	2008 - 2022
Occupation or position held	Assistant Professor
Main activities and responsibilities	Academic teaching, Research, and Student training in Research
Name and address of employer	“Sapienza” University of Rome - Department of Medico-Surgical Sciences and Biotechnologies - Corso della Repubblica 79 - Latina (Italy)

Dates	2006 - 2008
Occupation or position held	Research Associate (Post-doc)
Main activities and responsibilities	Research and Student training in Research
Name and address of employer	“Sapienza” University of Rome - Department of Experimental Medicine – Policlinico Umberto I – Viale Regina Elena 324 – Rome (Italy)

Dates	2005 - 2006
Occupation or position held	Research Associate (Post-doc)
Main activities and responsibilities	Research and Student training in Research
Name and address of employer	“Sapienza” University of Rome - Department of Experimental Medicine – Policlinico Umberto I – Viale Regina Elena 324 – Rome (Italy)

Dates	2000 - 2004
Occupation or position held	PhD-Student
Main activities and responsibilities	Research
Name and address of employer	“Sapienza” University of Rome - Department of Experimental Medicine – Policlinico Umberto I – Viale Regina Elena 324 – Rome (Italy)

Dates	1998 - 2000
Occupation or position held	Master Degree Student
Main activities and responsibilities	Research
Name and address of employer	“Sapienza” University of Rome - Department of Experimental Medicine – Policlinico Umberto I – Viale Regina Elena 324 – Rome (Italy)

Education and training

Dates	March 2022
Title of qualification awarded	Associate Professor
Organisation	“Sapienza” University of Rome

Dates	November 2008
Title of qualification awarded	Assistant Professor
Organisation	“Sapienza” University of Rome

Dates	2006 - 2008
Title of qualification awarded	Post-doc Fellowship – Project Title “Progetto:"Studio funzionale delle vie di segnalazione del pre-TCR e di Notch3 nella patogenesi della leucemia linfoblastica acuta a cellule T"
Organisation	Italian Federation of Cancer Research (FIRC)

Dates	2005
Title of qualification awarded	Post-doc Fellowship – Project Title “"Studio funzionale delle vie di segnalazione del pre-TCR e di Notch3 nella patogenesi della leucemia linfoblastica acuta a cellule T"
Organisation	Italian Association of Cancer Research (AIRC)
Dates	February 2005
Title of qualification awarded	PhD, Immunological Sciences – Thesis Title “Il complesso del pre-TCR come integratore dei meccanismi di trasduzione coinvolti nella linfomagenesi T”
Organisation	“Sapienza” University of Rome
Dates	November 2000
Title of qualification awarded	Licence in Biological Sciences
Organisation	“Sapienza” University of Rome
Dates	June 2000
Title of qualification awarded	Master Degree in Biological Sciences (cum laude) – Thesis Title “Il topo transgenico per Notch3 rappresenta un modello di compromissione del differenziamento dei linfociti T a livello dello stadio del Pre-TCR”.
Organisation	“Sapienza” University of Rome

Personal skills and competences

Dr Saula Checquolo graduated cum laude in Biology at the University of Rome "La Sapienza" on June 2000. From November 2000 to October 2004 she worked as PhD student in Immunological Sciences, Department of Experimental Medicine, University of Rome "La Sapienza" in the laboratory of Professor Screpanti. The main interest of Dr. Checquolo has been focused on the analysis of cellular and molecular mechanisms involved in i) T cell and thymocytes differentiation and ii) leukemia development and progression, with particular reference to the understanding in details the specific role of Notch signalling pathway. Subsequently, from January 2005 to October 2008 she continued her research activities as Post-doc focusing her studies on the role of Notch3 in leukemia development and progression, thus providing new insights on Notch3 cross-talk with several pathways involved in molecular mechanisms leukemia-related. From 2008 to March 2022, Dr Checquolo was Assistant Professor of General Pathology of the Faculty of Pharmacy & Medicine of the "Sapienza" University of Rome. Her researches continued by focusing on i) the analysis of Notch3 protein regulation throught the identification of its post-transductional modifications (PTMs) events, cancer-related, ii) the understanding of how Notch3 signaling can be related to cancer behavior in solid tumors and iii) the potential therapeutic application of Notch3 targeting as novel approach in the treatment of Notch3-driving cancers.

From 31th March 2022 she is Associate Professor.

Dr Checquolo has a high competence and experience in several techniques in cellular and molecular biology, also related to the use of *in vivo* animal models. Indeed, for her research studies, Dr Checquolo fully contributed to the generation, phenotypic and functional characterization of several murine of neoplastic diseases (i.e. Notch3 tg mice and Notch3 tg+/pTalpha-/-, Notch3 tg+/PKCtheta-/- Notch3 tg+/Pin1-/- double mutant mice).

All these researches has been published in highly qualified international journals. Dr Checquolo is author of 41 papers available on Pubmed (H index: 26; Number of total Citations: 1889).

Mother tongue(s) Italian

Other language(s) English

Self-assessment	Understanding		Speaking		Writing
European level (*)	Listening	Reading	Spoken interaction	Spoken production	
Language	C1	C1	B2	C1	C1

(*) Common European Framework of Reference for Languages

Additional information

Scientific grants:

2022 - 2023: PI - Istituto Pasteur Italia - Fondazione Cenci Bolognetti (Call 2020 - under 45)

2009 - 2022: PI - Sapienza University research grants

2009 - present: Partecipant as Sapienza partner - National grants (AIRC – PRIN) - European grants (NotchIT project - Notch signaling in development and pathology)

2008 - 2011: Unit coordinator and PI - Fondazione Roma grant

Society memberships, Awards and Honors

2023 - present: Membership of SIRTEPS (Società Italiana Ricerca Traslazionale e Professioni Sanitarie)
2022 - present: Membership of SIC (Società Italiana di Cancerologia)
2013 - present: Membership of SIPMET (Società Italiana di Patologia e Medicina Traslazionale)
2006 - 2008: Winner of Post-doc Fellowship - FIRC (Federazione Italiana per la Ricerca sul Cancro)
2005: Winner of Post-doc Fellowship - AIRC (Associazione Italiana per la Ricerca sul Cancro).

Academic activities

2022 - present: Member of the Academic Senate of the "Sapienza" University – Rome
2020 - 2022: Member of the Faculty Commitee of the "Sapienza" University – Rome

2016 - 2017: Member of Sapienza Research Committee, "Sapienza" University of Rome.

2012 - present: Member of the Academic Board of the PhD Programs, "Sapienza" University of Rome.

Student, PhD Student and Post-doc training in Research

2006 - present: Training activities in Research, "Sapienza" University of Rome (Student: 15; PhD-Student: 9; Post-doc: 6).

Teaching experience

2008 - present: Professor of General Pathology in Faculty of Pharmacy & Medicine, Sapienza University of Rome.

Annexes

List any items attached.

Scientific Publication
(Relevant Publications of last 10 year)

- Serena Renzi, Luca Digiacomo, Daniela Pozzi, Erica Quagliarini, Elisabetta Vulpis, Maria Valeria Giuli, Angelica Mancusi, Bianca Natiello, Maria Gemma Pignataro, Gianluca Canettieri, Laura DiMagno, Luca Pesce, Valentina De Lorenzi, Samuele Ghignoli, Luisa Loconte, Carmela Maria Montone, Anna Laura Capriotti, Aldo Laganà, Carmine Nicoletti, Heinz Amenitsch, Marco Rossi, Francesco Mura, Giacomo Parisi, Francesco Cardarelli, Alessandra Zingoni, Saula Checquolo & Giulio Caracciolo. *Structuring lipid nanoparticles, DNA, and protein corona into stealth bionanoarchitectures for in vivo gene delivery.* Nature Communications (2024). Oct 23;15(1):9119.
- Irene Bottillo, Carla Giordano, Maria Pia Ciccone, Maria Gemma Pignataro, Fiammetta Albi, Gabriella Parisi, Daniela Formicola, Simona Grotta, Federico Ranocchi, Maria Valeria Giuli, **Saula Checquolo**, Laura Masuelli, Federica Re, Silvia Majore, Giulia d'Amati, Paola Grammatico. *Dilated cardiomyopathy due to a novel combination of TTN and BAG3 genetic variants: From acute heart failure to subclinical phenotypes.* Cardiovascular Pathology (2024). Nov-Dec;73:107675.
- Maria Valeria Giuli, Patrizia Nadia Hanieh, Jacopo Forte, Maria Gioia Fabiano, Angelica Mancusi, Bianca Natiello, Federica Rinaldi*, Elena Del Favero, Maria Grazia Ammendolia, Carlotta Marianecci, **Saula Checquolo#**, Maria Carafa#. *pH-sensitive niosomes for ATRA delivery: A promising approach to inhibit Pin1 in high-grade serous ovarian cancer.* International J of Pharmaceutics (2024). 649 - 123672. *IF*: 6,51 #co-last
- Azzurra Zonfrilli, Federica Truglio, Alessandra Simeone, Maria Pelullo, Valeria De Turris, Dario Benelli, **Saula Checquolo**, Diana Bellavia, Rocco Palermo, Daniela Uccelletti, Isabella Screpanti, Samantha Cialfi, Claudio Talora. *Loss of ATP2C1 function promotes trafficking and degradation of NOTCH1: Implications for Hailey-Hailey disease.* Experimental Dermatology (2023). 32:787–798. *IF*: 4,5
- Cardinale, Vincenzo;Carpino, Guido;Overi, Diletta;Safarikia, Samira;Franchitto, Antonio;Costantini, Daniele;Riccioni, Olga;Nevi, Lorenzo;Chiappetta, Michele;Onori, Paolo;Franchitto, Matteo;Bini, Simone;Lai, Quirino;Zizzari, Ilaria;Nuti, Marianna;Nicoletti, Carmine;**Checquolo, Saula**;Di Magno, Laura;Giuli, Maria Valeria;Rossi, Massimo;Alvaro, Domenico;Gaudio, Eugenio. *Human duodenal submucosal glands contain a defined stem/progenitor subpopulation with liver-specific regenerative potential.* Journal of Hepatology (2023). vol. 78 j 165–179 IF: 25.083
- Maria Pelullo, Sabrina Zema, Mariangela De Carolis, Samantha Cialfi, Maria Valeria Giuli, Rocco Palermo, Carlo Capalbo, Giuseppe Giannini, Isabella Screpanti, **Saula Checquolo*** and Diana Bellavia*. *5FU/Oxaliplatin-Induced Jagged1 Cleavage Counteracts Apoptosis Induction in Colorectal Cancer: A Novel Mechanism of Intrinsic Drug Resistance. Frontiers in Oncology (2022).* vol. 12:918763. IF: 6.244 *corresponding author.
- Nadezda Zhdanovskaya, Sara Lazzari, Diego Caprioglio, Mariarosaria Firrincieli, Chiara Maioli, Eleonora Pace, Daniela Imperio, Claudio Talora, Diana Bellavia, **Saula Checquolo**, Mattia Mori, Isabella Screpanti, Alberto Minassi, and Rocco Palermo. *Identification of a Novel Curcumin Derivative Influencing Notch Pathway and DNA Damage as a Potential Therapeutic Agent in T-ALL.* Cancers (2022). 14(23), 5772. IF: 6.639
- Giulimondi, Francesca, Vulpis, Elisabetta, Digiacomo, Luca, Giuli, Maria Valeria, Mancusi, Angelica; Capriotti, Anna Laura; Laganà, Aldo; Cerrato, Andrea; Zenezini Chiozzi, Riccardo; Nicoletti, Carmine; Amenitsch, Heinz; Cardarelli, Francesco Masuelli, Laura; Bei, Roberto; Screpanti, Isabella; Pozzi, Daniela; Zingoni, Alessandra; **Checquolo, Saula***, Caracciolo, Giulio*. *Opsonin-Deficient Nucleoproteic Corona Endows UnPEGylated Liposomes with Stealth Properties In Vivo.* ACS Nano (2022). 16(2), pp. 2088–2100. IF: 15.811 *co-corresponding authors

- Giuli, Maria V; Mancusi, Angelica; Giuliani, Eugenia; Screpanti, Isabella; **Checquolo, Saula**. *Notch signaling in female cancers: A multifaceted node to overcome drug resistance.* Cancer Drug Resistance (2021). 4(4), pp. 805–836. IF: 2.461
- Maria Valeria Giuli, Giulia Diluvio, Eugenia Giuliani, Giulia Franciosa, Laura Di Magno, Maria Gemma Pignataro, Luca Tottone, Carmine Nicoletti, Zein Mersini Besharat, Giovanna Peruzzi, Maria Pelullo, Rocco Palermo, Gianluca Canettieri, Claudio Talora, Giulia d'Amati, Diana Bellavia*, Isabella Screpanti* and **Saula Checquolo***. *Notch3 contributes to T-cell leukemia growth via regulation of the unfolded protein response.* Oncogenesis (2020). 9:93 IF: 7.485 *co-corresponding authors.
- Maria Valeria Giuli, Patrizia Nadia Hanieh, Eugenia Giuliani, Federica Rinaldi, Carlotta Marianecci, Isabella Screpanti, **Saula Checquolo*** and Maria Carafa. *Current Trends in ATRA Delivery for Cancer Therapy.* Pharmaceutics (2020). 12, 707; doi:10.3390/pharmaceutics12080707. IF: 6.321 *corresponding author.
- Giuli MV, Giuliani E, Screpanti I, Bellavia D, **Checquolo S.** *Notch Signaling Activation as a Hallmark for Triple-Negative Breast Cancer Subtype.* J ONCOL. Jul 11; 2019:8707053 (2019). doi: 10.1155/2019/8707053. IF: 4.375
- Pelullo M, Nardozza F, Zema S, Quaranta R, Nicoletti C, Besharat ZM, Felli MP, Cerbelli B, d'Amati, G, Palermo R, Capalbo C, Talora C, Marcotullio LD, Giannini G, **Checquolo S***, Screpanti I, Bellavia D*. *Kras/ADAM17-dependent Jag1-ICD reverse signaling sustains colorectal cancer progression and chemoresistance*. Cancer Research. Volume 79, Issue 21, 1 November 2019, Pages 5575-5586. IF: 12.701 *co-corresponding authors.
- Simona Ceccarelli, Francesca Megiorni, Diana Bellavia, Cinzia Marchese, Isabella Screpanti and **Saula Checquolo** (2019). *Notch3 Targeting: A Novel Weapon against Ovarian Cancer Stem Cells*. STEM CELLS INTERNATIONAL, Volume 2019, Article ID 6264931, 8 pages https://doi.org/10.1155/2019/6264931 IF: 5.443
- Tottone L, Zhdanovskaya N, Carmona Pestaña Á, Zampieri M, Simeoni F, Lazzari S, Ruocco V, Pelullo M, Caiafa P, Felli MP, **Checquolo S**, Bellavia D, Talora C, Screpanti I, Palermo R. *Histone Modifications Drive Aberrant Notch3 Expression/Activity and Growth in T-ALL.* Front Oncol 2019; 9: 198 | PMID: 31001470 IF: 6.244
- Laura Antonucci, Laura Di Magno, Davide D'amico, Simona Manni, Silvia Maria Serrao, Fiorella Di Pastena, Rosa Bordone, Zuleyha Nihan Yurtsever, Miriam Caimano, Marialaura Petroni, Alessandra Giorgi, Maria Eugenia Schininà, John R. Yates Iii, Lucia Di Marcotullio, Enrico De Smaele, **Saula Checquolo**, Carlo Capalbo, Enzo Agostinelli, Marella Maroder, Sonia Coni And Gianluca Canettieri. *Mitogen-activated kinase kinase kinase 1 inhibits hedgehog signaling and medulloblastoma growth through GLI1 phosphorylation.* INTERNATIONAL JOURNAL OF ONCOLOGY, Volume 54, Issue 2, Pages 505-514 (2019). doi: 10.3892/ijo.2018.4638 IF: 5.650
- Giulia Diluvio, Francesca Del Gaudio, Maria Valeria Giuli, Giulia Franciosa, Eugenia Giuliani, Rocco Palermo, Zein Mersini Besharat, Maria Gemma Pignataro, Alessandra Vacca, Giulia d'Amati, Marella Maroder, Claudio Talora, Carlo Capalbo, Diana Bellavia, **Saula Checquolo**. *NOTCH3 inactivation increases triple negative breast cancer sensitivity to gefitinib by promoting EGFR tyrosine dephosphorylation and its intracellular arrest.* ONCOGENESIS, vol. 7, p. 1-15, (2018). ISSN: 2157-9024, doi: 10.1038/s41389-018-0051-9 IF: 7.485
- Bellavia, Diana, Palermo, Rocco, Felli, Maria Pia, Screpanti, Isabella, **Checquolo, Saula**. *Notch signaling as a therapeutic target for Acute Lymphoblastic Leukemia.* EXPERT OPINION ON THERAPEUTIC TARGETS (2018). ISSN: 1472-8222, doi: 10.1080/14728222.2018.1451840 IF: 6.902

- Roberta Quaranta, Maria Pelullo, Sabrina Zema, Francesca Nardozza, **Saula Checquolo**, Dieter Matthias Lauer, Francesca Bufalieri, Rocco Palermo, Maria Pia Felli, Alessandra Vacca, Claudio Talora, Lucia Di Marcotullio, Isabella Screpanti, Diana Bellavia. *Maml1 acts cooperatively with Gli proteins to regulate Sonic hedgheog signaling pathway.* CELL DEATH & DISEASE, vol. 8, p. 1-12, (2017). ISSN: 2041-4889, doi: 10.1038/cddis.2017.326 IF: 8.469
- Giulia Franciosa, Giulia Diluvio, Francesca Del Gaudio, Maria Valeria Giuli, Rocco Palermo, Paola Grazioli, Antonio Francesco Campese, Claudio Talora[1], Diana Bellavia, Giulia D'Amati, Zein Mersini Besharat, Carmine Nicoletti, Christian William Siebel, Lisa Choy, Alessandra Rustighi, Giannino Del Sal, Isabella Screpanti and **Saula Checquolo**. *Prolyl-isomerase Pin1 controls Notch3 protein expression and regulates T-ALL progression.* Oncogene Volume 35, Issue 36, 8 September 2016, Pages 4741-4751. doi:10.1038/onc.2016.5 IF: 9.867
- P Vargas Romero, S Cialfi, R Palermo, C De Blasio, **S Checquolo**, D Bellavia, S Chiaretti, R Foà, A Amadori, A Gulino, G Zardo, C Talora and I Screpanti. The *deregulated expression of miR-125b in acute myeloid leukemia is dependent on the transcription factor C/EBPα.* Leukemia 29, 2442–2445. (2015) IF: 11.528

Works

- Bellavia D., **Checquolo S.,** Palermo R., Screpanti I. *The Notch3 Receptor and Its Intracellular Signaling-Dependent Oncogenic Mechanisms*. In: Borggrefe T., Giaimo B. (eds) Molecular Mechanisms of Notch Signaling. Advances in Experimental Medicine and Biology, vol 1066. Springer, Cham (2018) IF: 2.126

Textbooks (Chapters, etc.)

Rome, 30-06-2025

Saula Checquolo