

**Allegato alla domanda di partecipazione  
Curriculum formativo, didattico, scientifico e professionale del candidato**

**Dichiarazione sostitutiva di certificazioni**

(Art. 46, D.P.R. 28 dicembre 2000 n. 445)

**Dichiarazione sostitutiva dell'atto di notorietà**

(da sottoscrivere davanti all'impiegato addetto o da presentare o spedire con la fotocopia di un documento di identità)

(Art. 47, D.P.R. 28 dicembre 2000 n. 445)

Estremi del bando di selezione	ASSEGNI DI RICERCA AI SENSI DELL'ART. 22 LEGGE 30.12.2010 N. 240 (TIPO B - ASSEGNI SU ALTRI FONDI)
Informazioni aggiornate al	13.03.2024
Nome e Cognome	Rita Abi Rached
Data di nascita	04.11.1992

Si raccomanda di indicare con precisione tutti gli elementi valutabili ai sensi del bando di selezione (aggiungere o togliere righe secondo necessità).

**Esperienza professionale**

Periodo	Ente	Principali attività e responsabilità
September 2019 October 2020	Research assistant - Saint Joseph University of Beyrouth	Utilization of different food waste and performing a characterization for their bio active compounds
January 2019 June 2019	Lab researcher: intensification of the extraction of phenolic compounds during the vinification process - Saint Joseph University of Beyrouth	Extraction intensification: Infrared; Ultrasound Extraction analysis: Folin Ciocalteu; DPPH; antioxidant Kits; HPLC
June 2018 August 2018	Quality Control & Microbiology at Libby's	Quality control of beverages; Microbiology testing in water and beverages
July 2017 August 2017	Phenolic compound study in lemon peels - Saint Joseph University of Beyrouth	Quantitative and qualitative study on the phenolic compound of lemon peel.
July 2016 September 2016	Detection of Mycotoxins; Saint Joseph University of Beyrouth	Detection of Ochratoxins and Aflatoxins in batches of wheats
August 2015 October 2015	Phenolic maturity of grapes at harvest - Château Ksara	Quantitative and qualitative study on phenolic compounds of grapes

**Istruzione, formazione (es. titoli di studio, certificazioni professionali/linguistiche/informatiche)**

Data	Titolo / Principali tematiche	Ente
October 2020 Present	PhD student	University of Cagliari
June 2019	Master's degree in Food Chemistry	Saint Joseph University of Beyrouth
June 2017	Bachelor's degree in Earth and Life Sciences- Biochemistry	Saint Joseph University of Beyrouth
Excellent knowledge of the Microsoft Office package (Word, Excel, PowerPoint), Prism, Statgraphics, as well as various application software related to scientific instrumentation.		
Languages: Arabic (native); French (fluent); English (level C1); Italian (level B1)		

## Publicazioni / Convegni

Castangia, Ines, Fulgheri, Federica, Leyva-Jimenez, Francisco Javier, Alañón, Maria Elena, Cádiz-Gurrea, Maria de la Luz, Marongiu, Francesca, Meloni, Maria Cristina, Aroffu, Matteo, Perra, Matteo, Allaw, Mohamad, **Rita Rached**, Rita, Oliver-Simancas, Rodrigo, Escibano Ferrer, Elvira, Asunis, Fabiano, Manca, Maria Letizia, Manconi, Maria (2023). "From Grape By-Products to Enriched Yogurt Containing Pomace Extract Loaded in Nanotechnological Nutriosomes Tailored for Promoting Gastro-Intestinal Wellness", *Antioxidants*, vol. 12, ISSN: 2076-3921, doi: 10.3390/antiox12061285.

Mohammad Firoznehad, **Rita Abi-Rached**, Federica Fulgheri, Matteo Aroffu, Francisco-Javier Leyva-Jiménez, María de la Luz Cádiz Gurrea, Maria Cristina Meloni, Francesco Corrias, Elvira Escibano-Ferrer, José Esteban Peris, Maria Letizia Manca, Maria Manconi (2023). "Design and in vitro effectiveness evaluation of *Echium amoenum* extract loaded in bioadhesive phospholipid vesicles tailored for mucosal delivery". *International Journal of Pharmaceutics*, vol. 634, ISSN: 0378-5173, doi: 10.1016/j.ijpharm.2023.122650.

Hiba N. Rajha, Espérance Debs, **Rita Abi Rached**, Karl El Khoury, Mona Al-Kazzi, Rachelle Mrad, Nicolas Louka (2021). "Innovation in cannon puffing technology for the homogenization of bulk treatment: half popped purple corn, a new healthy snack, *Journal of food process engineering*", vol. 44, Issue 6, ISSN: 0145-8876, doi: 10.1111/jfpe.13695.

Hiba N. Rajha, Espérance Debs, **Rita Abi Rached**, Karl El Khoury, Mona Al-Kazzi, Rachelle Mrad, Nicolas Louka (2021). "Innovation in cannon puffing technology for the homogenization of bulk treatment: half popped purple corn, a new healthy snack, *Journal of food process engineering*", vol. 44, Issue 6, ISSN: 0145-8876, doi: 10.1111/jfpe.13695.

Mohamad Allaw, Maria Manconi, Francesca Marongiu, Marco Porceddu, Gianluigi Bacchetta, Iris Usach, **Rita Abi Rached**, Hiba N. Rajha, Richard G. Maroun, Jose Luis Pedraz, Tania B. Lopez-Mendez, Maria Letizia Manca (2020). "Extraction, characterization and incorporation of *Hypericum scrugli* extract in ad hoc formulated phospholipid vesicles designed for the treatment of skin diseases connected with oxidative stress", *Pharmaceutics*, ISSN: 1999-4923, doi: 10.3390/pharmaceutics12111010.

Lucia Palmas, Matteo Aroffu, Giacomo L. Petretto, Elvira Escibano-Ferrer, Octavio Díez-Sales, Iris Usach, José-Esteban Peris, Francesca Marongiu, Mansureh Ghavam, Sara Fais, Germano Orrù, **Rita Abi Rached**, Maria Letizia Manca, Maria Manconi (2020). "Entrapment of *Citrus limon* var. *Pompia* essential oil or pure citral in liposomes tailored as mouthwash for the treatment of oral cavity diseases", *Pharmaceutics*, vol. 13, issue 9, ISSN: 1424-8247, doi: 10.3390/ph13090216.

Hiba N. Rajha, Stephanie Khabbaz, **Rita Abi Rached**, Esperance Debs, Richard G. Maroun, Nicolas Louka (2020). "Optimization of polyphenols extraction from purple corn cobs using  $\beta$ -cyclodextrin as a green solvent", *IEEE xplore*, doi: 10.1109/REDEC49234.2020.9163876.

**2019-2023** Participant in the international project ENI CBC MED, Call for Standard Projects, A\_A.2.1\_0035: New Business opportunities & Environmental Sustainability using MED GRAPE nanotechnological products, BESTMEDGRAPE.

**2022-2023** Participant in the RAS project, L.R. 19/96, Invitation 2021, Annual 2021: Combination of natural bioactives and nanotechnologies to prevent and contain COVID-19 contagion, TECNOCOVID

### Altre attività scientifiche

<b>Collaboration with</b> Department of life and environmental sciences, pharmaceutical sciences section of the University of Cagliari: formulation and characterization studies of vesicular dispersions.
<b>Collaboration with</b> Laboratory of structure and macromolecules interactions, faculty of science, Saint Joseph University, Lebanon: Extraction techniques, characterization and quantification of bioactive compounds.
<b>Collaboration with</b> Department of pharmaceutics and pharmaceutical technology, faculty of pharmacy, Al-Ahliyya Amman University, Jordan: Quantification of molecules, cell culture, in vivo on animal models.
<b>Collaboration with</b> Department of pharmaceutics and pharmaceutical technology, faculty of pharmacy, University of the Basque Country (UPV/EHU), Spagna.

### Ulteriori informazioni pertinenti

N.4 Abstracts presentated at conferences national and international.
N.3 Oral presentations at conferences national and international.
Research activity in extraction of bioactive compounds from plants and food using various extraction techniques (i.e., water-bath, ultrasound, infrared), and characterisation and quantification of these compounds (i.e., polyphenols content, antioxidant and anti-inflammatory activities, HPLC)
Research activity in formulation, characterization and evaluation (in vitro and in vivo) of the anti-inflammatory and anti-bacterial efficacy of natural extracts conveyed in phospholipid vesicles (liposomes, glycosomes, hyalurosomes, etc.) formulated for nasal and pulmonary administrations
Research activity in Evaluation of the cytotoxicity and efficacy of the formulations in vitro on cellular models (Fibroblast, HaCat, Caco2, A549, CuFi-1, NuLi) and in vivo on animal models (mice)

Luogo, data e firma