



Centro Regionale
Information Communication
Technology
CeRICT SCRL

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Prot. 240 del 22/07/2021

PROVVEDIMENTO NOMINA COMMISSIONE

Oggetto: Nomina Commissione giudicatrice Gara Aperta Prot. N. 199 del 30/06/2021 CIG 8808208B2D, a valere sul progetto CNOS (Centro di Nanofotonica e Optoelettronica per la Salute dell'uomo) - POR CAMPANIA FESR 2014/2020 CUP B81C17000050007 - SURF 17063BP000000001

IL RUP

Richiamata la determina a contrarre del 22/06/2021;

Rilevato che il termine per la presentazione delle offerte del Bando in oggetto è scaduto il giorno 21/07/2021 alle ore 12:00;

Rilevato che per la valutazione delle offerte del Bando summenzionato è necessaria la costituzione di una commissione che esamini le offerte tecniche ed economiche;

Atteso che ai sensi del comma 3 dell'articolo 77 del D.Lgs. 50/2016 i commissari sono scelti, in caso di appalti di importo superiore alla soglia comunitaria, tra gli esperti iscritti all'Albo dei componenti delle Commissioni giudicatrici istituito presso l'ANAC;

Considerato che ai sensi del combinato disposto degli articoli 77, comma 12, e 216, comma 12 del D.Lgs. 50/2016, nelle more dell'adozione della disciplina dell'Albo di esperti costituito presso l'ANAC, la commissione continua ad essere nominata dall'organo della stazione appaltante competente ad effettuare la scelta del soggetto affidatario del contratto;

Ritenuto di dover individuare un criterio che rispetti i principi di competenza e trasparenza;

Visto il "Provvedimento Nomina Commissioni Giudicatrici Gare Aperte", Prot. 171 sottoscritto dal Dirigente in data 25/05/2021, recante i criteri di nomina dei Commissari;

Considerato che per il ruolo di Commissari sono stati individuati dei profili rispondenti ai criteri contenuti nel Provvedimento di cui al precedente punto;

Dato atto che il Dott. Menotti Ruvo, la Dott.ssa Tania Mariastella Caputo, e la Dott.ssa Sarassunta Ucci sono in possesso dell'esperienza tecnica necessaria ai fini dell'insediamento in Commissione;

Dato atto che sono state inviate le Richieste di disponibilità ai candidati Commissari tramite la Piattaforma

<https://cerict.traspare.com/>;

Viste le accettazioni incarico, corredate di attestazione di inesistenza di cause ostative alla nomina ai sensi dell'art. 77, comma 9, del Codice degli Appalti;

NOMINA

La seguente Commissione preposta alla valutazione delle Offerte pervenute per il Bando di Gara in oggetto:

Dott. Menotti Ruvo (Presidente)

Dott.ssa Tania Mariastella Caputo (Componente)

Dott.ssa Sarassunta Ucci (Segretario Componente)

La valutazione si terrà il giorno 23/07/2021 a partire dalle ore 10.00.

La commissione avrà il compito di effettuare la valutazione tecnica ed economica secondo il Disciplinare di Gara.

Le valutazioni si svolgeranno presso la sede operativa e legale di Benevento del Centro Regionale Information Communication Technology – CeRICT srl

I curricula dei Commissari sono presenti sulla Piattaforma Traspare, nonché sul profilo della Stazione Appaltante

Benevento, 22/07/2021



IL RUP
Dott. Marco GUARINO
Guarino Marco

Sedi Operative:
Via Cinthia Complesso di Monte S. Angelo - Fabbr. 8b – 80126 Napoli | T: 081 679951/55
E: segreteria@cerict.it

Polo di Optoelettronica e Fotonica
C.da Piano Cappelle – 82100 Benevento
E: optolab@cerict.it



PROGETTI DI RICERCA@CNR
Curriculum vitae (max. 2 pages)

[Please follow the template below as closely as possible; it may be adapted as necessary]

PERSONAL INFORMATION

Family name, First name: **Ruvo, Menotti**

Researcher unique identifier(s): **Researcher ID: K-2603-2018; Scopus Author ID: 6602155654; ORCID: 0000-0001-5997-756X.**

Date of birth: **April, 20th, 1964.**

Nationality: **Italian**

URL for web site: **<http://www.ibb.cnr.it/?command=viewu&id=386>**

• **EDUCATION**

1991 Master degree, Department of Chemistry, University of Napoli, Federico II, Italy.

• **CURRENT POSITION(S)**

2020 –Current Position: Research Director, IBB, CNR, Napoli.

• **PREVIOUS POSITIONS**

2001-2001 Position held: Associate Director, Xeptagen SpA, Napoli

1991 – 2000 Position held: Senior Scientist, Tecnogen SpA, Caserta

• **SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS**

2001 – 2021 Number of Postdocs/ PhD/ Master Students: 15 Post-docs; 10 PhD students; 10 Master Students. Department of Chemistry, University of Naples, Federico II; Department of Biological Sciences, University of Napoli, Federico II; Department of Pharmacy, University of Napoli, Federico II; PhD in Biomolecular Sciences, University L. Vanvitelli, Napoli.

• **TEACHING ACTIVITIES (if applicable)**

1997 – 2001: Teacher. Topics: Chemistry of Peptide Synthesis, Solid Phase Synthesis of Peptide Libraries, Analytical Methods for the Quality Control of Peptide Libraries, Experimental of Solid Phase Synthesis of Peptide Libraries, Experimental of Cleavage and Purification of Peptide Libraries, Experimental of Characterization of Peptide Libraries, Experimental of Screening of Peptide Libraries. Name of Institution: ICS-UNIDO; Countries: Italy (1997), India (1998), South Africa (1998), Hungary (2001).

2016: Teacher. Topics: Library synthesis, screening and combinatorial chemistry techniques. PhD in Biomolecular Sciences University of Campania Luigi Vanvitelli, Coordinator Prof. Andrea Riccio. XXX ciclo.

2003: Teacher. Topics: Library synthesis, screening and combinatorial chemistry techniques. PhD in Biomolecular Sciences University of Campania Luigi Vanvitelli, Coordinator Prof. Augusto Parente. XVII ciclo.

2011: Teacher. Topics: Mass spectrometry; Mass methods for qualitative and quantitative analysis; Synthesis and screening of peptide libraries. Project IFTS organized by Istituto Tecnico Industriale Giordani, NAPOLI.

2006: Teacher. Topics: Mass spectrometry; Protein characterization by mass spectrometry; protein expression and purification; Project “STRUIM” supported by FESR in the framework of Programma Operativo Nazionale “Ricerca Scientifica, Sviluppo Tecnologico, Alta Formazione”

2000-2006 in biostructures and bioimaging.

• **ORGANISATION OF SCIENTIFIC MEETINGS (if applicable)**

2014, Co-chairman 14th Naples Workshop on Bioactive Peptides; Country: Italy (Naples).

2016, Co-chairman 15th Naples Workshop on Bioactive Peptides; Country: Italy (Naples).

2018, Co-chairman 16th Naples Workshop on Bioactive Peptides; Country: Italy (Naples).

2007, Organizing committee, First Symposium on Combinatorial Science in Biology, Chemistry, Catalysts and Materials. Italy (Florence)

- **REVIEWING ACTIVITIES (if applicable)**

2019-present: Editor and reviewer: International Journal of Molecular Sciences, MDPI Academic Editor

2019-present: Editor and reviewer: Scientific Report, Springer. Academic Editor

2020-present: Editor and reviewer: Current Pharmaceutical Biotechnologies, Bentham Academic Editor.

2013-present: Editor and reviewer: Current Drug Discovery technologies, Bentham Academic Editor. Protein and Peptide Letter, Bentham. Academic Editor.

Evaluator for FET-OPEN projects (2020), FP VII projects (2011); ANF (2017); PRIN, FIRB, Scientific Cooperation Between Germany And Israel (Israel), Rustaveli Foundation (Georgia), ESF EUROCORES, European Association for Haemophilia and Allied Disorders.

- **MEMBERSHIPS OF SCIENTIFIC SOCIETIES (if applicable)**

2017 – present Founding Member, Research Network Italian Peptide Network.

2004 –2012 Associated Member: European Peptide Society

2004 – 2009 Associated Member: American Peptide Society

- **MAJOR COLLABORATIONS (if applicable)**

Università del Sannio, Dept Electronic Engineering, Benevento, Prof. Cusano, New Lab-on-Fiber biosensors.

ISASI-CNR, Napoli, Dr.. Emanuela Esposito, New Infrared Spectroscopy based biosensors.

IPCB-CNR, Napoli, Dr. Ing. Michele Giordano, New Long Period Grating sensing platforms.

King's College, London, Prof. Mauro Giacca, new small molecule inhibitors of COVID-19 infection.

Università degli Studi di Napoli Federico II. Dept Medicine, Prof. Leonardi, new monoclonal antibodies.

Imperial College, London, Prof. Guido Franzoso, development of anti-myeloma compounds.

John Hopkins Univ. Baltimore, Prof. Nazareno Paolucci, development of new therapeutics for arrhythmogenic cardiomyopathy.

BIOVIIIIX srl, Napoli, new biotherapeutics and drug delivery systems.

Bracco Imaging, Milano, antibodies in imaging applications, Dr. Maiocchi.

DIOGENX, Nice (France), new biotherapeutics, Dr. Botti.

Appendix: All ongoing and submitted grants and funding of the PI and of the Team Members (Funding ID)

On-going Grants (Please indicate "No funding" when applicable):

<i>Project Title</i>	<i>Funding source</i>	<i>Amount (Euros)</i>	<i>Period</i>	<i>Role of PI or Team Member</i>	<i>Relation to current proposal</i>
NEON - ARS01_00769	MUR	438.000 (IBB-CNR amount)	April 2019 – December 2022	PI for IBB-CNR	The project aims at developing new CMOS- and Lab-on-fiber devices for detecting biomarkers for cancer and neurodegenerative diseases. IBB-CNR contributes by choosing and validating the bioreceptors needed for analyte's capture and by setting up the immobilization conditions on the sensor's surface.
NANOCAN, Progetti Oncologia	Regione Campania	180.000 euro (IBB-CNR amount as member of the CERICT consortium)	January 2018 – December 2022	PI for IBB-CNR	The project aims at developing Lab-on-fiber devices for detecting new biomarkers for cancer diseases. IBB-CNR contributes by choosing and validating the bioreceptors needed for analyte's capture and by setting up the immobilization conditions on the sensor's surface.
OPTIMA, FESR	Regione Campania	120.000 euro (IBB-CNR amount as member of the TOP-IN consortium)	January 2016 – November 2020.	PI for IBB-CNR	The project aimed at developing Lab-on-fiber devices for detecting Vitamin D in blood samples. IBB-CNR contributed by choosing and validating the bioreceptors and by immobilizing them on the sensor's surface.
PRIN: – Bando 2015 Prot. 2015783N45_03	MUR	80.000 euro (IBB-CNR amount)	February 2017 – February 2020	PI for IBB-CNR	The project aimed at developing Lab-on-fiber devices for detecting miRNA in blood samples as biomarkers for neurodegenerative diseases. IBB-CNR contributed by choosing and validating the bioreceptors and by immobilizing them on the sensor's surface.
Progetto SMART_HEALTH, PON04a2_C	MUR	235.000 euro (IBB-CNR amount)	April 2013 – October 2015	PI for IBB-CNR	<u>Aim of the Project</u> was the Development of an innovative real time label-free optical fiber biosensor for the fast determination of Tg in the needle washout of Lymph nodes fine-needle aspiration (LN-FNA)

Only projects in the field of new biosensors are reported.

Grant applications (Please indicate "No funding" when applicable):

<i>Project Title</i>	<i>Funding source</i>	<i>Amount (Euros)</i>	<i>Period</i>	<i>Role of PI or Team Member</i>	<i>Relation to current proposal</i>
FET OPEN	EU	80.000 euro	2020- Not funded	PI for IBB-CNR	Compact, fully autonomous, optical point-of-care system for Covid.
PRIN_2017MWLEK2	MUR	100.000 euro	2017- Not funded	PI for IBB-CNR	Multiplexed on-bead photonic devices for detecting Thyreoglobulin in blood samples
PRIN_2020239LYL	MUR	450.000 euro	2021- Awaiting review	PI	Multiplexed on-bead photonic devices for detecting prostate cancer biomarkers in blood samples.

Only projects in the field of new biosensors are reported.

Ten years track-record (max. 2 pages)

Dr. M. Ruvo has been Senior Scientist (Primo Ricercatore) at the Institute of Biostructure and Bioimaging of CNR (IBB-CNR) from January 2002 up to January 2020. Since January 2020 he is Research Director (Dirigente di Ricerca) at the same institute. Before joining the CNR, he has been Junior Scientist (1991-1993), Senior Scientist (1993-2001) and finally Associate Director (2001) in pharmaceutical companies. He holds a degree in Chemistry obtained at the University of Napoli Federico II and has a background in protein chemistry and biochemistry and in peptide chemistry. He has developed skills in the development of bioactive peptides, recombinant proteins, monoclonal antibodies and antibody fragments utilized as new potential biotherapeutics and diagnostics. He has also an expertise in developing new reagents and assays for detecting biomarkers and contributed to the development of new optical fiber-based label-free devices (Giaquinto, et al., ACS Photonics, 2019, 6, 12, 3271–3280; patent n° WO2017IB52533). He has contributed to develop up to the pre-clinical and clinical phases several bioactive peptides against therapeutic targets for oncology (DTP3, patents WO2012GB50947, WO2010GB01970, clinical trial Phase 1/2a, patents licensed to Kesios Ltd; iVR1, patents WO20053773, WO20053772, preclinical, patents licenced to Anbition srl; CBP, patent EP20090166967, pre-clinical), eye diseases (iVR1, patents W O20053773, WO 20053772, preclinical, patents licenced to Anbition srl) and cardiovascular diseases, (AIF 370-394, pre-clinical; Chelko, et al., (2021) Science Translational Medicine, 13 (581), art. no. eabf0891, patent n° US Patent App. 63/147,068, patent licensed to John Hopkins University). He has been one of the founding members of Almabs srl, (2009, terminated 2012), Kesios Therapeutics Ltd (2012) and Anbition srl (2018), the last two companies are still operative. He has contributed to develop monoclonal antibodies against protein targets like Cripto-1 (Focà, et al., (2019) Biochimie, 158, pp. 246-256), Nodal (patent n° WO2015US54515, licensed to Tai-Rx, Taiwan). In the last 10 years at the IBB-CNR, he has published 115 papers in international peer-reviewed journals (Scopus.com) with a 10-years H-Index of 17. He is co-inventor of 10+ different patents, three of which have been licenced to companies (see above). In the last 10 years he has been Principal Investigator for some 20 different funded projects – five of which in the field of new biosensor's development - and received financial support for around 4.7 million euros. In the same period he has been supervisor of at least 15 different graduated and post-doc fellows supported by projects in different areas; he has been supervisors of at least 20 master and PhD students. He has served and serves as consultant for several companies, including Kesios Therapeutics, (2014-2015), Bracco Imaging (2016-2017) and BIOVIIIx (2019-present).

Publications

Please, indicate the total n. publications, the H-Index, the averaged IF and the top publications of the last 10 years (no page limits max. 15 publications)

Source: www.scopus.com

H-Index: 29.

N. Publication: 162.

Average IF: 5.

1 - Giaquinto, M., Aliberti, A., Micco, A., Gambino, F., Ruvo, M., Ricciardi, A., Cusano, A.; Cavity-Enhanced Lab-on-Fiber Technology: Toward Advanced Biosensors and Nano-Opto-Mechanical Active Devices (2019) ACS Photonics, 6 (12), pp. 3271-3280.

2 - Scherino, L., Giaquinto, M., Micco, A., Aliberti, A., Bobeico, E., La Ferrara, V., Ruvo, M., Ricciardi, A., Cusano, A.; A time-efficient dip coating technique for the deposition of microgels onto the optical fiber tip (2018) Fibers, 6 (4), art. no. 72,

3 - Giaquinto, M., Ricciardi, A., Aliberti, A., Micco, A., Bobeico, E., Ruvo, M., Cusano, A.; Light-microgel interaction in resonant nanostructures (2018) Scientific Reports, 8 (1), art. no. 9331,

4 - Aliberti, A., Ricciardi, A., Giaquinto, M., Micco, A., Bobeico, E., La Ferrara, V., Ruvo, M., Cutolo, A., Cusano, A.; Microgel assisted Lab-on-Fiber Optrode (2017) Scientific Reports, 7 (1), art. no. 14459,

5 - Aliberti, A., Vaiano, P., Caporale, A., Consales, M., Ruvo, M., Cusano, A.; Fluorescent chemosensors for Hg²⁺ detection in aqueous environment (2017) Sensors and Actuators, B: Chemical, 247, pp. 727-735.

6 - Pilla, P., Sandomenico, A., Malachovská, V., Borriello, A., Giordano, M., Cutolo, A., Ruvo, M., Cusano, A.; A protein-based biointerfacing route toward label-free immunoassays with long period gratings in transition mode (2012) Biosensors and Bioelectronics, 31 (1), pp. 486-491.

7 - Giaquinto M, Micco A, Aliberti A, Bobeico E, La Ferrara V, Ruvo M, Ricciardi A, Cusano A. Optimization Strategies for Responsivity Control of Microgel Assisted Lab-On-Fiber Optrodes (2018). Sensors (Basel). Apr 6;18(4):1119.

8 - Quero G, Consales M, Severino R, Vaiano P, Boniello A, Sandomenico A, Ruvo M, Borriello A, Diodato L, Zuppolini S, Giordano M, Nettore IC, Mazzarella C, Colao A, Macchia PE, Santorelli F, Cutolo A, Cusano A. Long period fiber grating nano-optrode for cancer biomarker detection (2016). Biosens Bioelectron. Jun 15;80:590-600.

9 - Cusano, A.M., Aliberti, A., Cusano, A., Ruvo, M.; Detection of small DNA fragments by biolayer interferometry (2020) Analytical Biochemistry, 607, art. no. 113898.

10 - Di Meo V, Caporale A, Crescitelli A, Jannehc M, Palangec E, De Marcellis A, Portaccio M, Lepore M, Rendina I, Ruvo M, Esposito E. Metasurface based on cross-shaped plasmonic nanoantennas as chemical sensor for surface-enhanced infrared absorption spectroscopy. (2019) Sensors and Actuators B: Chemical Volume 286, Pages 600-607.

11 - Sivaccumar J, Sandomenico A, Vitagliano L, Ruvo M. Monoclonal Antibodies: A Prospective and Retrospective View (2021). Curr Med Chem.;28(3):435-471

12 - Sandomenico A, Focà A, Sanguigno L, Caporale A, Focà G, Pignalosa A, Corvino G, Caragnano A, Beltrami AP, Antoniali G, Tell G, Leonardi A, Ruvo M. Monoclonal antibodies against pools of mono- and polyacetylated peptides selectively recognize acetylated lysines within the context of the original antigen (2016). MAbs. Nov/Dec;8(8):1575-1589.

13 - Selis F, Sandomenico A, Cantile M, Sanna R, Calvanese L, Falcigno L, Dell'Omo P, Esperti A, De Falco S, Focà A, Caporale A, Iaccarino E, Truppo E, Scaramuzza S, Tonon G, Ruvo M. Generation and testing of engineered multimeric Fabs of trastuzumab (2020). Int J Biol Macromol. Dec 1;164:4516-4531.

14 - Sandomenico A, Leonardi A, Berisio R, Sanguigno L, Focà G, Focà A, Ruggiero A, Doti N, Muscariello L, Barone D, Farina C, Owsianka A, Vitagliano L, Patel AH, Ruvo M. Generation and Characterization of Monoclonal Antibodies against a Cyclic Variant of Hepatitis C Virus E2 Epitope 412-422 (2016). *J Virol.* Jan 27;90(7):3745-59.

15 - Tornatore, L., Sandomenico, A., Raimondo, D., ...Ruvo, M., Franzoso, G. Cancer-Selective Targeting of the NF- κ B Survival Pathway with GADD45 β /MKK7 Inhibitors (2014). *Cancer Cell*, 26(6), pp. 938.

Curriculum Vitae Europass

Informazioni personali

Nome(i) / Cognome(i)

Tania Mariastella Caputo

E-mail

taniacaputo87@gmail.com;

Esperienza professionale

Date

06/2020-05/2021

Lavori o posizione ricoperti

Assegnista di Ricerca

Principali attività e responsabilità

progetto "NEON- Nanofotonica per nuovi approcci diagnostici e terapeutici in oncologia e neurologia". Supporto alla validazione di microgeli funzionalizzati per il rilascio farmaci loco regionale tramite tecniche spettrometriche (LC-MS), spettroscopiche (UV-Vis, Fluorescenza) e cromatografiche (RP-HPLC).

Nome e indirizzo del datore di lavoro

Università degli studi del Sannio, Piazza Roma, 21 - 82100 Benevento

Tipo di attività

Ricerca di base

Date

03/2019-05/2020

Lavori o posizione ricoperti

Contrattista

Principali attività e responsabilità

progetto "NANOCAN-Nanofotonica per la lotta al cancro". Sintesi chimica di vettori polimerici (microgels) e proteici per il rilascio controllato di molecole ad azione antitumorali. Caratterizzazione tramite tecniche microscopiche (CLSM), spettroscopiche (UV-Vis, Fluorescenza, DLS) e cromatografiche (RP-HPLC).

Nome e indirizzo del datore di lavoro

CeRICT, Centro Regionale Information Communication Technology srl
Via Traiano, "Palazzo ex Poste", 82100, Benevento

Tipo di attività

Ricerca di base

Date

11/2015-02/2019

Lavori o posizione ricoperti

PhD fellow (Dottorato di Ricerca in Ingegneria dei Prodotti e Processi Industriali)

Principali attività e responsabilità

Sintesi chimica di microgels (in batch e microfluidica), progettazione di sonde oligonucleotidiche e funzionalizzazione di microgels per la detection di biomarkers circolanti nei fluidi biologici (microRNA, mRNA, DNA). Caratterizzazione tramite tecniche microscopiche (CLSM e SEM) e spettroscopiche (UV-Vis, Fluorescenza).

Nome e indirizzo del datore di lavoro

Istituto Italiano di Tecnologia, Largo Barsanti E. e Matteucci C., 53, 80125 Napoli NA

Tipo di attività

Ricerca di base

Date

05/2014-06/2015

Lavori o posizione ricoperti

Assegnista di Ricerca

Principali attività e responsabilità

Sistemi Polimerici Micro E Nano-Particellari Per La Somministrazione Di Molecole Farmacologicamente Attive" - POLIFARMA PON02_00029_3203241

Formulazione e sintesi di microparticelle polimeriche core-shell per il rilascio controllato di molecole farmacologicamente attive. Caratterizzazione tramite microscopio a scansione elettronica (SEM) e tecniche spettroscopiche (UV-Vis, FT-IR). Saggi di rilascio e studi di degradazione enzimatica.

Nome e indirizzo del datore di lavoro

CNR-IPCB Istituto per i polimeri, compositi e biomateriali,
Viale J.F. Kennedy,54 Mostra d'Oltremare Pad.20 - 80125 Napoli Na

Tipo di attività

Ricerca di base

Date	07/2013-07/2014
Lavori o posizione ricoperti	Farmacista (pratica professionale ai fini della titolarità legge n.892/84)
Principali attività e responsabilità	Spedizione ricette, microanalisi, gestione ordini
Nome e indirizzo del datore di lavoro	Farmaci Iodice Dott. Lanfranco, via Albana 61, Macerata Campania (CE)
Tipo di attività	Farmacia
Date	02/2013-06/2013
Lavoro o posizione ricoperti	Tirocinante Post-laurea
Principali attività e responsabilità	Gestione di colture cellulari, saggi biochimici e biologici per valutare l'attività anti-tumorali di peptidi biologicamente attivi.
Nome e indirizzo del datore di lavoro	CNR-Istituto di Genetica e Biofisica "Adriano Buzzati-Traverso", via P. Castellino 111, 80131 Napoli (NA)
Tipo di attività o settore	Istituto di ricerca, Lab. di trasduzione del segnale
Date	10/2011-10/2012
Lavoro o posizione ricoperti	Tesista
Principali attività e responsabilità	Sintesi peptidica in fase solida e in soluzione. Caratterizzazione di molecole organiche tramite HPLC, UV-Vis e spettrometria di massa.
Nome e indirizzo del datore di lavoro	Università degli studi di Napoli "Federico II"
Tipo di attività o settore	Università, Lab. di Chimica farmaceutica e tossicologica

Istruzione e formazione

Date	11/2015-10/2018
Titolo della qualifica rilasciata	Dottorato di Ricerca in Ingegneria dei Prodotti e Processi Industriali, XXXI ciclo Titolo tesi: "TUNEABLE HYDROGEL PLATFORM FOR OLIGONUCLEOTIDE BIOMARKERS DETECTION". Tutors: Prof. Dr. Paolo A. Netti and Prof. Dr. Filippo Causa (conseguito in data 28/02/2019)
Nome e tipo d'organizzazione erogatrice dell'istruzione e formazione	Università di Napoli "Federico II", Dipartimento di Chimica, Materiali e della Produzione Industriale (DICMaPI)- Napoli Istituto Italiano di Tecnologia@CRIB - Napoli
Livello nella classificazione nazionale o internazionale	ISCED-8
Date	05-09/05/2017
	Scuola di Dottorato: CHEM2NATURE Second School- Porto (PT) La scuola di dottorato si è focalizzata sulla descrizione di metodologie chimiche di precisione applicate a sistemi naturali per lo sviluppo di dispositivi biomedici multifunzionali.
Date	18-24/04/2006
	Scuola di Dottorato: International School of Biophysics <<Antonio Borsellino>> 43 rd course: <i>Nanoscale biophysics: focus on methods and techniques</i> - Erice (Tr) Durante il corso sono stati illustrati alcune delle più recenti nanotecnologie progettate specificamente per le indagini biofisiche.

Date	10/2012
Titolo della qualifica rilasciata	Esame di Stato per l'abilitazione all'esercizio della professione di Farmacista Iscrizione all'Albo dei Farmacisti di Caserta, mat. 2007
Date	09/2006 – 10/2012
Titolo della qualifica rilasciata	Laurea in Chimica e Tecnologia Farmaceutiche
Voto	110/110 con lode
Principali tematiche/competenze professionali possedute	Chimica Inorganica, Chimica Organica, Chimica analitica, Chimica Farmaceutica, Farmacologia, Saggi Dosaggi e Tossicologia, Tecnica e Legislazione Farmaceutica, Sintesi Peptidica, Biochimica generale e applicata, Anatomia e Fisiologia umana, Statistica.
Nome e tipo d'organizzazione erogatrice dell'istruzione e formazione	Tesi sperimentale in Chimica Farmaceutica e Tossicologica dal titolo: “CHONDROPROTECTIVE AND ANTI-INFLAMMATORY ROLE OF MELANOCORTIN PEPTIDES IN TNF-A ACTIVATED HUMAN C-20/A4 CHONDROCYTES” Relatore Prof. Paolo Grieco (conseguito in data 18/10/2012) Facoltà di Farmacia, Università Federico II, Napoli Erasmus (09/2009-03/2010): Instituto Superior Ciências da Saúde Egas Moniz, MESTRADO INTEGRADO EM CIÊNCIAS FARMACÉUTICAS, Lisboa, Portugal
Livello nella classificazione nazionale o internazionale	Laurea specialistica – ISCED 7
Date	09/2001 – 07/2006
Titolo della qualifica rilasciata	Diploma Liceo Scientifico ad indirizzo Brocra
Voto	100/100
Nome e tipo d'organizzazione erogatrice dell'istruzione e formazione	Diploma di scuola secondaria superiore – ISCED 3

Publicazioni

Autori	Caputo TM , Aliberti A, Cusano AM, Ruvo M, Cutolo A, Cusano A, (2021)
Titolo	<i>Stimuli-responsive hybrid microgels for controlled drug delivery: Sorafenib as a model drug.</i> Journal of Applied Polymer Science, 10;138(14):50147.
Autori	Caputo, T.M. , Battista, E., Netti, P.A. and Causa, F, (2019)
Titolo	<i>Supramolecular Microgels with Molecular Beacons at the Interface for Ultrasensitive, Amplification-Free, and SNP-Selective miRNA Fluorescence Detection</i> ACS Appl. Mater. Interfaces, doi: doi.org/10.1021/acsami.8b22635
Autori	Caputo, T.M. , Cummaro, A., Lettera, V., Mazzarotta, A., Battista, E., Netti, P.A. and Causa, F, (2019)
Titolo	<i>One-step scalable fluorescent microgel bioassay for the ultrasensitive detection of endogenous viral miR-US4-5p</i> Analyst, doi:10.1039/C8AN02166J
Autori	Guarino, V., Altobelli, R., Caputo, T. , Ambrosio, L., Caserta, S., Calcagnile, P., & Demitri, C. (2019)
Titolo	<i>Mono-and bi-phasic cellulose acetate micro-vectors for anti-inflammatory drug delivery.</i>

Pharmaceutics, doi.org/10.3390/pharmaceutics11020087

- Autori Guarino, V., **Caputo, T.**, Calcagnile, P., Altobelli, R., Demitri, C., and Ambrosio, L. (2018)
- Titolo *Core/shell cellulose-based microspheres for oral administration of Ketoprofen Lysinate*
Journal of Biomedical Materials Research Part B: Applied Biomaterials, doi.org/10.1002/jbm.b.34080
- Autori **Caputo, T.M.**, Cummaro, A, Lettera, V, Battista, E, Causa F. and Netti P.A. (2016)
- Titolo *Microgel Assay for miRNA analysis*
GNB 2016, ISBN 978-88-941906-0-1
- Autori Guarino, V., **Caputo, T.**, Altobelli, R., & Ambrosio, L. (2015)
- Titolo *Degradation properties and metabolic activity of alginate and chitosan polyelectrolytes for drug delivery and tissue engineering applications*
AIMS Materials Science, doi: 10.3934/matserci.2015.4.497

Presentazioni a conferenze

- Titolo **T. M. Caputo**, et al. *Circulating human cytomegalovirus endogenous microRNA detection by microgel-based assay*
Medical Biotechnology, 24-25 May 2018, Ghent, Belgio
- Titolo **T. M. Caputo**, et al. *Tunable nanostructured hydrogels as biosensor for direct viral biomarker detection*
NN17 14th International Conference on Nanosciences and Nanotechnologies, July 4th-7th 2017
Tessaloniki, Grecia

Poster

2019

T.M.Caputo, et al, *MICROGELS FOR HIGH SENSITIVE, DIRECT AND MULTIPLEXED MIRNAS OPTICAL SENSING, 7TH International Symposium on Sensor Science (IS3 2019), 9–11 May 2019, Napoli, Italia*

2018

T.M.Caputo, et al, *CIRCULATING VIRAL MICRORNA OPTICAL DETECTION BY MICROGEL-BASED ASSAY: TARGET SELECTION, PROBE DESIGN, MICROGEL DEVELOPMENT AND ASSAY SET-UP*, Targeted Nucleic Acid Detection and Delivery, July 23 – 24, 2018 University of Notre Dame, Notre Dame, Indiana, USA

E.Battista, A.Mazzarotta, **T.M.Caputo**, et al, *ENGINEERING HYDROGEL MICROPARTICLES BY MICROFLUIDICS FOR NUCLEIC ACIDS DETECTION*, Targeted Nucleic Acid Detection and Delivery, July 23 – 24, 2018 University of Notre Dame, Notre Dame, Indiana, USA

T.M.Caputo, et al, *MICROGELS AS BIOSENSING PLATFORM FOR OPTICAL DETECTION OF CIRCULATING OLIGONUCLEOTIDES BIOMARKERS*, GNB2018, June 25th-27nd 2018, Milan, Italy

T.M.Caputo, et al, *MICROGEL-BASED ASSAY FOR VIRAL MICRORNA WITH SCALABLE SENSITIVITY*, Biosensor 2018, 12-15 June 2018, FI, USA

T.M.Caputo, et al, *CIRCULATING HUMAN CYTOMEGALOVIRUS ENDOGENOUS MICRORNA DETECTION BY MICROGEL-BASED ASSAY*, Medical Biotechnology 24-25 May 2018, Ghent

2017

T. M. Caputo, et al, *PARTICLES WITH ENGINEERED NANOSHELL FOR CARDIOVASCULAR BIOMARKER DETECTION IN COMPLEX FLUIDS*, NN17 14th International Conference on Nanosciences and Nanotechnologies, July 4th-7th 2017 Tesseloniki, Greece

A.Mazzarotta, T.M.Caputo et al, *POTENTIAL APPLICATION OF ENGINEERED HYDROGELS, REALIZED BY MICROFLUIDICS, FOR BIOMARKERS DETECTION*, NN17 14th International Conference on Nanosciences and Nanotechnologies, July 4th-7th 2017 Tesseloniki, Greece

T. M. Caputo, et al, *CORE-SHELL ENCODED MICROGELS FOR VIRAL MICRORNA DETECTION*, CHEM2NATURE Second School, May 5th-9th 2017 Porto, Portugal

A Mazzarotta, T. M. Caputo, et al, *ENGINEERED MICROGELS BY MICROFLUIDICS: SELECTIVE BIOMARKERS DETECTION IN BIOLOGICAL FLUIDS* 5th International Conference on Bio-Sensing Technology, 7 - 10 May 2017, Riva del Garda, Trento, Italy

2016

T. M. Caputo, et al, *MICROGEL ASSAY FOR MIRNA ANALYSIS*, GNB 2016, 20-22 giugno 2016, Università degli Studi di Napoli "Federico II", Napoli, Italia

Altro

2016

Membro di *DNAsignINK*, idea di startup classificata tra le prime 10 all'edizione START CUP CAMPANIA 2016

Capacità e competenze personali

Madrelingua(e)

Italiano

Altra(e) lingua(e):

Inglese, Portoghese

Autovalutazione

Comprensione				Parlato				Scritto	
Ascolto		Lettura		Interazione orale		Produzione orale			
B2/C1	Utente autonomo	B2/C1	Utente autonomo	B2	Utente autonomo	B2	Utente autonomo	B2/C1	Utente autonomo
A2	Utente autonomo	A2	Utente autonomo	A2	Utente autonomo	A2	Utente autonomo	A2	Utente autonomo

Livello europeo

(Quadro comune europeo di riferimento per le lingue)

Inglese

Portoghese

Capacità e competenze sociali

Lavoro con passione e motivazione perché sono consapevole che l'avanzamento della ricerca può migliorare la vita di tutti noi. Sono in grado di relazionarmi con persone di diversa nazionalità e cultura grazie all'esperienza maturata all'estero e durante il dottorato. Comunico in modo chiaro e preciso, rispondendo alle specifiche richieste per una buona interazione di gruppo.

Capacità e competenze organizzative

Sono in grado di organizzare autonomamente il lavoro, definendo le opportune priorità. Durante il mio percorso ho imparato a lavorare in gruppo con atteggiamento propositivo e orientato al raggiungimento degli obiettivi.

Capacità e competenze informatiche

Buona conoscenza del sistema operativo Windows e degli applicativi Office (Word, Excel, Power Point). Ottima conoscenza dei programmi ChemDrawe, Origin, Graphpad, ImageJ, Software Leica.

Patente

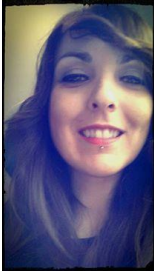
Automobilistica (patente B)

Data

17/06/2021

Firma





Sarassunta Ucci

Via Monterone 23, San Giorgio del Sannio (BN) 82018

Date of birth 23/01/1984

Phone: 0039-3279813108

Mail: ucci.sara@gmail.com

Professional Summary

Currently Post-Doc at Centro Regionale Information Communication Technology CeRICT srl working in the development of biosensor for the detection of tumor markers. Doctor in biotechnology with a PhD in molecular cardiology obtained in March 2015. Experience of 7-8 years of research laboratories with deep knowledge of different techniques. Proficient in Real time, sequencing (Beckmann), western blot, Elisa, Flowcytometry, Cell culture, Phosphoflow, use of microtome, Eosin and Van Geison Staining, Microbiological analysis of foods and water, use of chromatographic columns. Ability to work on models in vivo and in vitro. Fluent English and good Spanish. Good communicational and public speaking skills.

Experience:

-Post-Doc at Centro Regionale Information Communication Technology CeRICT srl, C.da Piano Cappelle, Benevento. 2019/ till now

-Post Doc at University of Sapienza, Department of Clinical and Molecular Medicine, via Borelli 50 Roma 2017-2019

-Post Doc at Istituto Pasteur Roma, Viale Regina Elena 291, 00161 Roma /Italia. 09/2016- 11/2017

-PhD, DR in Molecular and Cellular Cardiology at the Department of Molecular and Cellular Cardiology, Hospital "Gemelli", Catholic University of Sacred Heart, Rome. 10/2011-03/2015

-Training- Leonardo Project at Faculty of Medicine, Imperial College. KIR (Kennedy Institute of Rheumatology) London. 01/12/2010-13/06/2011

-Working on the thesis of Master degree at National Centre of Rare Disease, Istituto Superiore di Sanità, Viale Regina Elena 299 - 00161 – Roma 9-2008/01-2010

-Work experience "Innovating for training services to businesses and the internationalization of markets". CTC (National Center of Technological Alimentary Industry) Calle Concordia s / n Molina de Segura 30500 Murcia (SPAIN) 01/02/2007 - 31/05/2007

-Training at "Complutense" University Faculty of Biological Science, Department of Microbiology and Genetic. C/ José Antonio Novais, 2 Ciudad Universitaria 28040 - MADRID. Spain 02/2006-07/2006

Education:

-Phd at Catholic University of Sacred Heart, Rome. 10/2011-03/2015

-Master's Degree in Genomic Biotechnology 2007-2009 "La Sapienza" University, Piazzale Aldo Moro 5 00185 Roma. Italy.

-Bachelor's Degree in Biotechnology 2003–2006 "Studi del Sannio" University, via Port'Arsa, 11 Benevento, Italy

Languages: Italian Native; English Fluent (C1) (Trinity College Certificate, 6th Grade); Spanish Fluent (C1)

Publications:

Paper (January 2021) Effect of direct renin inhibition on vascular function after long-term treatment with aliskiren in hypertensive and diabetic patients. *Journal of Hypertension*. IF 4.171. *Carmine Savoia*¹, *Carolina De Ciuceis*², *Anna Paini*², *Raffaella Carletti*³, *Emanuele Arrabito*¹, *Carmine Nicoletti*⁴, *Paolo Mercantini*⁵, *Cira Di Gioia*³, *Allegra Battistoni*¹, *Sarassunta Ucci*¹, *Antonio Filippini*⁴, *Enrico Agabiti Rosei*², *Massimo Volpe*^{1,6}, *Maria L Muiesan*², *Damiano Rizzoni*², *Massimo Salvetti*

Paper (November 2019) Thyroid Hormone Protects from Fasting-Induced Skeletal Muscle Atrophy by Promoting Metabolic Adaptation. *International Journal of Molecular Sciences*. IF 5.923. *Sarassunta Ucci*¹, *Alessandra Renzini*², *Valentina Russi*¹, *Claudia Mangialardo*¹, *Ilenia Cammarata*¹, *Giorgia Cavioli*², *Maria Giulia Santaguida*³, *Camilla Virili*³, *Marco Centanni*³, *Sergio Adamo*², *Viviana Moresi*², *Cecilia Verga-Falzacappa*¹

Paper (March 2019) Thyroid hormones act as mitogenic and pro survival factors in rat ovarian follicles. *Journal of Endocrinological Investigation* 42(Suppl 1) IF 4.256. *R Canipari*¹, *C Mangialardo*², *V Di Paolo*^{1,3}, *F Alfei*², *S Ucci*⁴, *V Russi*⁴, *M G Santaguida*², *C Virili*², *M Segni*⁵, *S Misiti*⁶, *M Centanni*², *C Verga Falzacappa*

Paper (February 2017) Epicardial Adipose Tissue Microbial Colonization and Inflammasome Activation in Acute Coronary Syndrome. *International Journal of Cardiology*. IF 4.638. *Daniela Pedicino*^{*}, *Anna Severino*^{*}, *Sara Ucci*^{*}, *Francesca Bugli*, *Davide Flego*, *Ada F. Giglio*, *Francesco Trotta*, *Aureliano Ruggio*, *Claudia Lucci*, *Antonio Iaconelli*, *Francesco Paroni Sterbini*, *Luigi M Biasucci*, *Maurizio Sanguinetti*, *Franco Glieca*, *Nicola Luciani*, *Massimo Massetti*, *Filippo Crea* and *Giovanna Liuzzo*

Paper (March 2015) Increased PTPN22 Expression and Defective CREB Activation Impair Regulatory T-Cell differentiation in Non-ST-Segment Elevation Acute Coronary Syndromes. *Journal of the American College of Cardiology*, IF 17.759. *Davide Flego*, *Anna Severino*, *Francesco Trotta*, *Marco Previtero*, *Sarassunta Ucci*, *Chiara Zara*, *Gianluca Massaro*, *Daniela Pedicino*, *Luigi M. Biasucci*, *Giovanna Liuzzo*, *Filippo Crea*

Paper (November 2014) Altered CD31 expression and activity in helper T cells of acute coronary syndrome patients. *Basic Research in Cardiology*, IF 6.008. *Davide Flego*, *Anna Severino*, *Francesco Trotta*, *Marco Previtero*, *Sara Ucci*, *Chiara Zara*, *Daniela Pedicino*, *Gianluca Massaro*, *Luigi M. Biasucci*, *Giovanna Liuzzo*, *Filippo Crea*

Abstracts:

Conference Paper (April 2021) Role of Aldosterone and P66SHC protein on expression of the sodium-glucose transporter SGLT2 in the vascular system. *Journal of Hypertension*. DOI: 10.1097/01.hjh.0000748616.38804.1f *Battistoni*, *Allegra*¹; *Ucci*, *Sarassunta*¹; *Nicoletti*, *Carmine*²; *Montezano*, *Augusto C.*³; *Filippini*, *Antonio*²; *Volpe*, *Massimo*¹; *Touyz*, *Rhian M.*³; *Savoia*, *Carmine*¹

Conference Paper (December 2019) Role of P66SHC in aldosterone induced endothelial dysfunction and vascular remodeling. Conference: 80th SIC National Congress, EUROPEAN HEART JOURNAL SUPPLEMENTS. *Allegra Battistoni*, *Sarassunta Ucci*, *Carmine Nicoletti*, *Simone Reale*, *Augusto C Montezano*, *Antonio Filippini*, *Massimo Volpe*, *Rhian Touyz*, *Carmine Savoia*

Conference Paper (September 2019) Abstract P3005: P66shc Plays a Role in Aldosterone Induced Vascular Remodeling and Dysfunction. https://doi.org/10.1161/hyp.74.suppl_1.P3005 Hypertension. 2019;74: AP3005. *Sarassunta Ucci*, *Allegra Battistoni*, *Carmine Nicoletti*, *Antonio Filippini*, *Augusto C Montezano*, *Massimo Volpe*, *Rhian M Touyz*, *Carmine Savoia*

Conference paper (June 2019) P66SHC KNOCK-OUT PREVENTS ALDOSTERONE INDUCED VASCULAR REMODELING AND DYSFUNCTION. *Journal of Hypertension* 37.DOI: 10.1097/01.hjh.0000570624.97543.2a. Ucci, S.¹; Battistoni, A.¹; Nicoletti, C.²; Reale, S.¹; Volpe, M.¹; Savoia, C.¹

Poster (September 2018) LA TRANSGLUTAMINASI-2 CONTRIBUISCE ALLA PRODUZIONE DELLE SPECIE REATTIVE DELL'OSSIGENO IN TOPI TRATTATI CON ANGIOTENSINA II. Conference: SIIA 2018 Roma. S. Ucci, S. Chiandotto, A. Battistoni, C. Verga Falzacappa, M. Volpe, C. Savoia

Conference paper (September 2018) Abstract P275: Transglutaminase-2 Contributes to Angiotensin II-Induced Reactive Oxygen Species Production in Mice. *Hypertension* 72(Suppl_1). Sara Ucci, Sergio Chiandotto, Cecilia Verga Falzacappa, Allegra Battistoni, Massimo Volpe, and Carmine Savoia

Conference Paper (June 2018) Transglutaminase-2 contributes to reactive oxygen species production in mice infused with angiotensin-II. ESH 2018, Barcellona. *Journal of Hypertension* 36:e116 DOI: 10.1097/01.hjh.0000539303.71173.55 Sara Ucci, S. Chiandotto, Cecilia Verga Falzacappa, Allegra Battistoni, A. Alonzo, M, Bole, C. Savoia

Conference Paper (May 2017) Thyroid hormone T3 protects mice from fasting induced skeletal muscle atrophy by counteracting autophagy. 19th European Congress of Endocrinology, DOI: 10.1530/endoabs.49.GP221. Sara Ucci, Valentina Russi, Maria Giulia Santaguida, Marco Centanni, Viviana Moresi, Cecilia Verga Falzacappa

Conference Paper (August 2013) Activation of NALP3/Inflammasome Pathway in Circulating Monocytes and Epicardial Adipose Tissue of Patients with Acute Coronary Syndromes. *European Heart Journal*, IF 15.064. S. Ucci, D. Pedicino, D. Flego, C. Zara, A. Severino, F. Trotta, M. Previtero, G. Massaro F. Crea, G. Liuzzo

Conference paper (April 2014) Is increased intestinal permeability associated with altered inflammatory balance and coronary artery disease? *Journal of the American College of Cardiology* IF 17.759. Luigi M. Biasucci · Alessia Romito · Maria Giulia Marini · Annalisa Caroli · Chiara Sonnino · Sara Ucci · Giovanna Liuzzo · Venanzio Valenza · Francesca Graziani · Filippo Crea

Conference paper (August 2013) Intrinsic abnormalities in the signaling machinery of acute coronary syndrome T-cells involving PTPN22 expression and Y-292 Zap70 phosphorylation. *European Heart Journal*, IF 15.064. D. Flego, A. Severino, F. Trotta, M. Previtero, D. Pedicino, G. Massaro, S. Ucci, F. Crea, G. Liuzzo

Awards

-**TRAVEL GRANT** from the ESC Council on Basic Cardiovascular Science (CBCS) for participation in the ESC Congress 2013

- **AWARD FOR YOUNG RESEARCHERS CONFERENCE SIGU 2010** - Best Poster Award "Molecular Genetic Analysis of the micro-Rna140 in patients with cleft lip and palate
<http://sigu.net/show/chisiamo/2/?page=24>

Computer's skills: ECDL Specialised; MS Office; Mailing List; Skype; Internet; Social Network

Participation in conferences as a speaker:

- European Congress of Endocrinology 20-23/02/2017 Lisbon, Portugal
- European Society of Cardiology 31/08/2013-01/09/2013, Amsterdam, Netherlands
- IV Meeting of Italian Council of PhD Fellows; 6-8/11/2013, Erice (TP), Italy

Other skills and competence

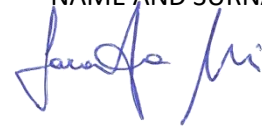
- Good ability to adapt to multicultural environments, gained through my work experiences abroad
- Good attitude to teamwork
- Good use of 3D printing (syskrack fablab, cofounder)
- Good attitude to event organization
- B driver license

In reference to the law 196/2003 I expressly authorize the use of my personal and professional data in my curriculum vitae.

DATE

16/07/2021

NAME AND SURNAME

A handwritten signature in blue ink, appearing to read 'Giovanni M.', is written below the 'NAME AND SURNAME' label.