

IL PRESENTE ALLEGATO COSTITUISCE UNO SCHEMA-TIPO, NEL QUALE SONO INDICATE ALCUNE VOCI A MERO TITOLO ESEMPLIFICATIVO, PERTANTO PUO' ESSERE MODIFICATO/INTEGRATO DAL CANDIDATO ADATTANDOLO ALLE PECULIARITÀ DELLA PROPRIA ATTIVITÀ SCIENTIFICO-PROFESSIONALE

ALL. B

Procedura selettiva di chiamata per n. 1 posto di **Ricercatore a tempo determinato - Tipologia A** presso il Dipartimento di Ingegneria Meccanica e Aerospaziale, Facoltà di Ingegneria Civile e Industriale Settore Scientifico-disciplinare ING-IND/34, Settore concorsuale O9/G2 di cui al bando emanato con D.D. Rep.n. 31 Prot.n. 286 con avviso pubblicato sulla G.U. – IV serie speciale n. 5 in data 20/01/2023, codice concorso 2023RTDAPNRR115

Part I – General Information

Full Name	Simone Novelli
Spoken Languages	Italian mother tongue, English, French

Part II – Education

Type	Year	Institution	Notes (Degree, Experience,...)
Phd	2017	Sapienza University of Rome	Phd in Ingegneria della produzione industriale (29° ciclo)
Master Degree	2012	Sapienza University of Rome	Obtained Master degree in Biomedical Engineering. Score: 110/110. GPA: 3.91
Bachelor Degree	2010	Sapienza University of Rome	Obtained Bachelor degree in Clinical Engineering
Licensure 01	2013	Ordine degli Ingegneri della provincia di Roma	Qualification to the profession of engineer

Part III – Appointments

IIIA – Academic Appointments

Start	End	Institution	Position
2022	2023	Sapienza University of Rome	Post doctoral fellow Research title: Applicazioni delle tecnologie di additive manufacturing all'ingegneria Biomedicale e della medicina rigenerativa
2021	2022	Sapienza University of Rome	Post doctoral fellow Research title: Applicazioni delle tecnologie di additive manufacturing all'ingegneria Biomedicale e della medicina rigenerativa
2020	2021	Sapienza University of Rome	Post doctoral fellow Research title: Applicazioni delle tecnologie di additive manufacturing all'ingegneria Biomedicale e della medicina rigenerativa
2019	2020	Sapienza University of Rome	Post doctoral fellow Research title: Applicazioni delle tecnologie di additive manufacturing all'ingegneria Biomedicale e della medicina rigenerativa
2018	2019	Sapienza University of Rome	Post doctoral fellow Research title: Applicazioni delle tecnologie di additive manufacturing all'ingegneria Biomedicale e della medicina rigenerativa
2017	2018	Consorzio interuniversitario Trapianti D'Organo	Post doctoral fellow Research title: Applicazioni delle tecnologie di additive manufacturing all'ingegneria Biomedicale e della medicina rigenerativa

IIIB – Other Appointments

Start	End	Institution	Position
2017	2018	UCL University College London, Institute for liver and digestive health, Royal Free Hospital	Visiting Post doctoral fellow Field of study: Liver MRI, drug development studies in ACLF (acute on chronic liver failure), 3D Printing and Regenerative Medicine.
2018	2019	UCL University College London, Institute for liver and digestive health, Royal Free Hospital	Visiting Post doctoral fellow Field of study: Liver MRI, drug development studies in ACLF (acute on chronic liver failure), 3D Printing and Regenerative Medicine.

2019	2020	UCL University College London, Institute for liver and digestive health, Royal Free Hospital	Visiting Post doctoral fellow Field of study: Liver MRI, 3D Printing and Regenerative Medicine, Digital and Precision Medicine
2020	2021	UCL University College London, Institute for liver and digestive health, Royal Free Hospital	Visiting Post doctoral fellow Field of study: Digital and Precision Medicine, Telemedicine and Remote monitoring
2021	2022	UCL University College London, Institute for liver and digestive health, Royal Free Hospital	Visiting Post doctoral fellow Field of study: Digital and Precision Medicine, Telemedicine and Remote monitoring

Part IV – Teaching experience

Year	Institution	Lecture/Course
2023	Sapienza University of Rome	Applicazioni tecnologiche in chirurgia e Patologie da ambiente ospedaliero Corso di Laurea magistrale in Ingegneria Biomedica
2022	Sapienza University of Rome	Applicazioni tecnologiche in chirurgia e Patologie da ambiente ospedaliero Corso di Laurea magistrale in Ingegneria Biomedica
2021	Sapienza University of Rome	Applicazioni tecnologiche in chirurgia e Patologie da ambiente ospedaliero Corso di Laurea magistrale in Ingegneria Biomedica
2020	Sapienza University of Rome	Applicazioni tecnologiche in chirurgia e Patologie da ambiente ospedaliero Corso di Laurea magistrale in Ingegneria Biomedica

Part V - Society memberships, Awards and Honors

Year Title

2023	EASL (European association for the study of liver) member
2022	EASL (European association for the study of liver) member

Part VI - Funding Information [grants as PI-principal investigator or I-investigator]

Year	Title	Program	Grant value
2021	Monitoring 20 Cirrhosis patients from home with smart technology during the ongoing pandemic.	Royal Free Charity	10.000 £
2020	Cirrhosis Remote Care Management impacted by COVID-19	Innovate UK	75.000£
2016	Produzione di modelli paziente-specifici mediante stampante 3D per pianificare didattica, training ed interventi complessi di chirurgia toracica	Sapienza Università di Roma	8.000
2015	Modellazione di scenari chirurgici virtuali: dal training operatorio alla realizzazione di strumentario mediante	Sapienza Università di Roma	15.000

Part VII – Research Activities

Keywords Brief Description

Telemedicine and precision Medicine	Remote monitoring and treatment of decompensated cirrhosis: Developing a digital therapeutic platform called Chirocare intended for assisted diagnosis, recommendations, and therapeutic intervention for the management of new complications of decompensated cirrhosis.
3D Printing	Reconstruction and 3D printing of complex liver pathologies for a personalized surgical approach
Scaffold and Bioprinting	Investigating the role of the stem cell homing pathway SDF-1/CXCR4 in acute-on-chronic liver failure in order to explore novel chemokine-based treatment Options

Part VIII – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers [international]	20	Scopus	2008	2023
Books [scientific]	2	Scopus	2018	2021

Total Impact factor	118,84
Total Citations	217
Average Citations per Product	10,85
Hirsch (H) index	7
Normalized H index*	0,46

*H index divided by the academic seniority.

Part IX– Selected Publications

List of the publications selected for the evaluation. For each publication report title, authors, reference data, journal IF (if applicable), citations, press/media release (if any).

- 1. Evaluation of CirrhoCare® - A digital-health solution for home management of patients with cirrhosis**
Konstantin Kazankov, Simone Novelli, Devnandan A Chatterjee, Alexandra Phillips, Anu Balaji, Maruthi Raja 3, Graham Foster, Dhiraj Tripathi, Ravan Boddu, Ravi Kumar, Rajiv Jalan, Rajeshwar P Mookerjee
DOI: 10.1016/j.jhep.2022.08.034
Journal of Hepatology
Journal IF: 30.083
- 2. There Is a Great Future in Plastics: Personalized Approach to the Management of Hilar Cholangiocarcinoma using a 3-D-Printed Liver Model**
Zoe Larghi Laureiro, Simone Novelli, Quirino Lai, Gianluca Mennini, Vito D'andrea, Paolo Gaudenzi, Franco Marinozzi, Cornelius Engelmann, Raj Mookarje, Dimitri Raptis, Massimo Rossi, Rajiv Jalan
DOI: 10.1007/s10620-u006326y
Digestive Diseases And Sciences
Journal IF: 3.48
- 3. 3D Reconstruction Model of an Extra-Abdominal Desmoid Tumor: A Case Study**
Franco Marinozzi, Francesco Carleo, Simone Novelli, Marco Di Martino, Giuseppe Cardillo, Lea Petrella, Fabiano Bini
DOI: 10.3389/fbioe.2020.00518
Frontiers in Bioengineering and Biotechnology
Journal IF: 6.064
- 4. Recombinant Alkaline Phosphatase Prevents Acute on Chronic Liver Failure**
Engelmann C., Novelli S, Habtesion A, Davies N, Andreola F, Jalan R.
doi: 10.1038/s41598-019-57284-z.

5. **Toll-like receptor 4 is a therapeutic target for prevention and treatment of liver failure**
Engelmann C, Sheikh M, Sharma S, Kondo T, Loeffler-Wirth H, Zheng YB, Novelli S, Hall A, Kerbert AJC, Macnaughtan J, Mookerjee R, Habtesion A, Davies N, Ali T, Gupta S, Andreola F, Jalan R
DOI: 10.1016/j.jhep.2020.01.011
Journal of Hepatology
Journal IF: 30.083
6. **Combination of G-CSF and a TLR4 inhibitor reduce inflammation and promote regeneration in a mouse model of ACLF**
Cornelius Engelmann, Abeba Habtesion, Mohsin Hassan, Annarein JC. Kerbert, Linda Hammerich, Simone Novelli, Marco Fidaleo, Alexandra Philips, Nathan Davies, Sofia Ferreira-Gonzalez, Stuart J. Forbes, Thomas Berg, Fausto Andreola, Rajiv Jalan
DOI: 10.1016/j.jhep.2022.07.006
Journal of Hepatology
Journal IF: 30.083
7. **Preliminary Study of Early Histomorphometric Changes in Hepatic Steatosis**
F. Marinozzi, S. Novelli, V. Morabito, F. Bini, P.B. Berloco, A. Carpino, M. Rossi, G. Novelli, and E. Gaudio
DOI: 10.1016/j.transproceed.2012.06.037
Transplantation proceedings
Journal IF: 1.014
8. **The ECO4CO project among retrospective data, improving of algorithms, predictive hypothesis and future perspectives to tackle health emergencies**
Cristiano Pesaresia, Sofiane Atek, Corrado De Vito, Vincenzo Cardinale, Filippo Bianchinie, Simone Novelli, Marco Eugeni, Massimo Mecella, Antonello Rescio, Luca Petronzio, Aldo Vincenzi, Pasquale Pistillo, Gianfranco Giusto, Giorgio Pasquali, Domenico Alvaro, Paolo Gaudenzi, Marco Mancini, Paolo Villari
DOI: 10.4458/5116-03
JOURNAL OF RESEARCH AND DIDACTICS IN GEOGRAPHY
9. **Diagnostic Value of Presepsin for Bacterial Infection in Cirrhosis: A Pilot Study**
Simone Novelli, Vincenzo Morabito, Franco Ruberto, Fabiano Bini, Franco Marinozzi, Francesco Pugliese, Pasquale Berloco, Renzo Pretagostini
DOI: 10.1016/j.transproceed.2020.02.042
Transplantation proceedings
Journal IF: 1.014
10. **Diagnostic imaging in COVID-19 pneumonia: a literature review**
Sarah Campagnano, Flavia Angelini, Giovanni Battista Fonsi, Simone Novelli, Francesco Maria Drudi
DOI: 10.1007/s40477-021-00559-x
Journal of Ultrasound in medicine
Journal IF: 2.754

11. Adacolumn Granulocyte-Apheresis for Alcoholic Hepatitis: Preliminary Study

V Morabito, S Novelli, L Poli, G Ferretti, F Ruberto, F Pugliese, R Pretagostini, P B Berloco, M Rossi

DOI: 10.1016/j.transproceed.2015.12.055

Transplantation proceedings

Journal IF: 1.014

12. Plasmapheresis, Photopheresis, and Endovenous Immunoglobulin in Acute Antibody-mediated Rejection in Kidney Transplantation

R Pretagostini, L Poli, M Gozzer, L Pettorini, M Garofalo, S Novelli, P Cinti, P B Berloco

DOI: 10.1016/j.transproceed.2015.01.030

Transplantation proceedings

Journal IF: 1.014

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