



## Ivan Donati

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### WORK EXPERIENCE

2018 – CURRENT Trieste, Italy

**ASSOCIATE PROFESSOR IN BIOCHEMISTRY - BIO/10** UNIVERSITY OF TRIESTE

2012 – 2018 Trieste, Italy

**ASSISTANT PROFESSOR IN BIOCHEMISTRY - BIO/10** UNIVERSITY OF TRIESTE

2009 – 2012 Trieste, Italy

**ASSISTANT PROFESSOR (NON TENURE) IN BIOCHEMISTRY - BIO/10** UNIVERSITY OF TRIESTE

2004 – 2009 Trieste, Italy

**POST-DOC IN BIOCHEMISTRY - BIO/10** UNIVERSITY OF TRIESTE

2003 – 2004 Trondheim, Norway

**POST-DOC** INSTITUTE OF BIOTECHNOLOGY - NORWEGIAN INSTITUTE OF SCIENCE AND TECHNOLOGY (NTNU)

### EDUCATION AND TRAINING

2003 Trieste, Italy

**PHD IN BIOLOGICAL CHEMISTRY** University of Trieste

1999 Trieste, Italy

**MASTER DEGREE IN CHEMISTRY** University of Trieste

### LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

### ADDITIONAL INFORMATION

#### PUBLICATIONS

##### Publications

Total publications: 118

h-index: 33

citations: 4457

## HONOURS AND AWARDS

**Honours and awards** Awarded a research grant from the University of Trieste - Progetto Giovani Ricercatori 2006.

Awarded the national prize "Giovane Ricercatore 2008" from Consorzio Interuniversitario di Biotecnologie (CIB)

Opponent for 5 PhD thesis evaluation at the Institute of Biotechnology, Norwegian University of Science and Technology (NTNU).

Invited Lecturer at XV Convegno-Scuola sulla Chimica dei Carboidrati (CSCC), Pontignano, June 2014.

Keynote lecturer at International Polysaccharide Conference EPNOE 2009 – Turku (Finland) 21-24

September 2009, at International Polysaccharide Conference EPNOE 2017 – Jena (Germany) 21-24 August 2017 and at International Polysaccharide Conference EPNOE 2019 – Aveiro (Portugal) 21-25 October 2019.

Invited lecturer at the International Summer School on natural Products (ISSNP) 2019, Napoli 1-5 July 2019.

Member of the *Editorial Board of Open Glycoscience and Carbohydrate Research*.

Reviewer for *Biomacromolecules, Carbohydrate Research, Carbohydrate Polymers, Osteoarthritis and Cartilage, International Journal of Biological Macromolecules, Nanomedicine, Journal of Biomedical Materials Research, Food hydrocolloids, Biomaterials*.

Abilitazione Scientifica Nazionale - I fascia BIO/10 (2023)

## ORGANISATIONAL SKILLS

**Organisational skills** From 2012 Board member of the PhD program in Nanotechnology at the University of Trieste

From 2015 to 2018 Component of the Board of the Department of Life Sciences, University of Trieste.

2017 Substitute Component of the Commissione Paritetica Docenti-Studenti, University of Trieste.

From 2019 Coordinator of the Master Degree in Medical Biotechnology, University of Trieste.

From 2022 Deputy Director for technology transfer of the Department of Life Sciences

Supervisor of Master's Degree (>15) and PhD theses (5).

## JOB-RELATED SKILLS

### Job-related skills

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Biopolymer Chemistry; Biomaterials; Biochemistry

## TEACING ACTIVITIES

### Teacing Activities

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From 2006 to 2010. Lecturer of "Principles of Biochemistry" for the Bachelor Degree in Biotechnology, University of Trieste.

From 2010 to date. Lecturer of "Chemistry and Principles of Biochemistry" for the Master's Degree in Dentistry, University of Trieste.

From 2015 to date. Lecturer of "Chemistry and Principles of Biochemistry" for the Master's Degree in Medicine, University of Trieste.

From 2018 to date. Lecturer of "Molecular Biophysics" for the Master Degree in Medical Biotechnology, University of Trieste.

From 2021 to date. Lecturer of "Polymeric Biomaterials" for the Master's Degree in Chemistry, University of Trieste.

## RESEARCH PROJECTS

### Research Projects

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2006 - 2010 E.U. project - "Development of load-bearing fibre reinforced composite based non-metallic biomimetic bone implants (NEWBONE)", FP6 – Co-Scientific Responsible for the University of Trieste.

2012 - 2015 E.U project – "Development of a resorbable sealing patch for the prevention of anastomotic leakage after colorectal cancer surgical treatment (AnastomoSEAL)", FP7, NMP-2010, Project Coordinator and Scientific Responsible for the University of Trieste.

2016 - 2018 Marine Biotechnology ERA-NET – "Biorefinery and biotechnological exploitation of marine biomass (Mar3Bio)", FP7 - Scientific Responsible for the University of Trieste.

2017 - 2020 INTERREG Italia-Slovenia – "A trans regional platform for the transfer of technological biopolymers from research sector to the market (BioApp)" - Scientific Responsible for the University of Trieste.

2020 - 2023 Marine Biotechnology ERA-NET "BlueBio"- "Seaweeds for Novel Applications and Products (SNAP)" - Scientific Responsible for the University of Trieste.

Scientific Responsible for the Grant of the University of Trieste FRA 2016 "Transient reticulation as key aspect of mechanotransduction for biomaterials design. Shedding light on the bioactivity of Chitlac".

## PATENTS

### Patents

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- 1) Skjåk-Bræk, G.; Donati, I.; Modified alginates, methods of production and use: WO/2006/051421A1; EP1817346A1; US20080199914A1; JP2008519595A; Assignee: FMC Biopolymer As.
- 2) Paoletti, S.; Donati, I.; Marsich, E.; Polymer Mixtures of Anionic and Cationic Polysaccharides and use thereof: WO/2007/135116A1; US8951991B2; EP2021408B1; JP2009537597A; CN101454392A; CA2652968C; DE602007008879D1. Assignee: Università degli Studi di Trieste. Licensed to: JointTherapeutics S.r.L.; Biopolife S.r.L.
- 3) Paoletti, S.; Donati, I.; Marsich, E.; Hydrogels of Polysaccharide Mixtures for Tissue Engineering and as Carriers of Active Compounds: WO/2007/135114A1; US20090202640A1; EP2029629B1; JP5257015B2; CN101454348A; CA2652967C; DE602007004212D1. Assignee: Università degli Studi di Trieste. Licensed to: Biopolife S.r.L.
- 4) Paoletti, S.; Donati, I.; Marsich, E.; Travan, A.; Nanocomposite materials based on metallic nanoparticles stabilized with branched polysaccharides. WO/2010/010122A1; US20110129536A1; EP2310422B1; JP2011528694A; CN102105494A; CA2731390A1; ES2662321T3. Assignee: Università degli Studi di Trieste. Licensed to: Biopolife S.r.L.
- 5) Paoletti, S.; Donati, I.; Marsich, E.; Travan, A.; Three-dimensional nano composite materials consisting of a polysaccharidic matrix and metallic nanoparticles, preparation and use thereof; WO/2010/010123A1; US20110123589A1; EP2310448B1; JP2011528746A; CN102105524A; CA2731395A1; ES2611105T3. Assignee: Università degli Studi di Trieste. Licensed to: Biopolife S.r.L.
- 6) Diolosà, M.; Donati, I.; Turco, G.; Cadenaro, M.; Breschi, L.; Di Lenarda, R.; Paoletti, S.; New esame-dentin adhesive based on chemically modified natural polysaccharides; WO/2015/128415A9; US9932416B2; EP3110852B1. Assignee: Università degli Studi di Trieste.
- 7) Bosco, M.; Borgogna, M.; Travan, A.; Donati, I.; Soluble adducts of boric acid or derivatives and precursors thereof with chitosan oligosaccharide derivatives. EP3559106A1; 11071750. Assignee: Biopolife S.r.L., Università degli Studi di Trieste.
- 8) Donati, I.; Marsich, E.; Sacco, P.; Furlani, F.; Scognamiglio, F.; Homogeneous hydrogels from chitosan oligosaccharide derivatives and applications thereof. EP3733755A1. Assignee: Università degli Studi di Trieste.

## TECHNOLOGY TRAFER

### Technology Transfer

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October 2015. Co-founder of the University Spin-off biopolife S.r.L. awarded the regional prize Friuli Venezia Giulia "Start-Cup" nel 2015.

## BOOK CHAPTERS

### Book Chapters

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1. **Donati, I.**; Paoletti, S.; Material Properties of Alginates; in Alginates: Biology and Applications. Bernd H.A. Rehm Editor. Microbiology Monographs 13, Springer-Verlag Berlin Heidelberg; **2009**; 1-53
2. Travan, A.; Marsich, E.; **Donati, I.**; Paoletti, S.; Silver nanocomposites and their biomedical applications; in Nanocomposites for Life Sciences, vol. 8; Wiley-VCH; edited by Challa Kumar; **2010**; 81-137
3. Marsich, E.; Travan, A.; **Donati, I.**; Turco, G.; Bellomo, F.; Paoletti, S.; "Tissue-implant antimicrobial interfaces; in Antimicrobial Polymers, John Wiley & Sons Inc., edited by JM. Lagaron, MJ. Ocio e A. Lopez-Rubio; **2011**; 379-428
4. **Donati, I.**; Marsich, E.; Travan, A.; Paoletti, S.; Bioactive surface modifications for dental and orthopedic implants; in *Tissue Engineering and Regenerative Medicine: a Nano Approach*, CRC Press, edited by Ramalingam, M.; Vallittu, P.; Ripamonti, U.; Wan-Ju, L.; **2012**; 125-161
5. Travan, A.; Marsich, E.; **Donati, I.**; Borgogna, M.; Paoletti, S.; Silver-polysaccharide nanocomposite antimicrobial coatings; in *Polymer Nanocomposite Coatings*, CRC Press, edited by Vikas Mittal; **2013**;
6. Skjåk-Bræk, G.; **Donati, I.**; Paoletti, S.; Alginate hydrogels: properties and applications; in *Polysaccharide hydrogels; characterization and biomedical applications*, Pan Stanford Publishing, edited by Coviello, T.; Matricardi, P.; Alhaique, F.; **2015**; 449-498.
7. Borgogna, M.; Marsich, E.; **Donati, I.**; Paoletti, S.; Travan, A.; Hydrogels; in *Polysaccharide hydrogels; characterization and biomedical applications*, Pan Stanford Publishing, edited by Coviello, T.; Matricardi, P.; Alhaique, F.; **2015**; 39-82.

8. Bruckner, S.; Paoletti, S.; **Donati, I.**; Polimeri per usi speciali; in Scienza e Tecnologia di materiali polimerici; ediSES; **2016**; 303-328.

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