PERSONAL INFORMATION

Nicola Tirelli



- Istituto Italiano di Tecnologia
 Centre for Convergent Technologies
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Sex Male | Date of birth 15/05/1968 | Nationality Italian

Enterprise	University	EPR
Management Level	Full professor	Research Director and 1st level Technologist / First Researcher and 2nd level Technologist / Principal Investigator
Mid-Management Level	Associate Professor	Level III Researcher and Technologist
Employee / worker level	Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	□ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

6/2020 - present	Associate Director for Education Istituto Italiano di Tecnologia; Via Morego 30, 16163 Genova Responsible of educational and training activities, specifically for PhD students hosted by IIT
	Business or sector Education
7/2017 - present	Senior Researcher, tenured
	Istituto Italiano di Tecnologia
	Leader of a research group (Laboratory of Polymers and Biomaterials), in the areas of polymer
	chemistry, colloid science and pharmaceutics
	Business or sector Research & Development
12/14 - 12/17	Director of the North West Centre for Advanced Drug Delivery
	University of Manchester, Oxford Road, M13 9PL Manchester, United Kingdom
	Creation and management of a research centre fully funded by pharma industry (AstraZeneca)
	Business or sector Research & Development / Academia
9/14 - 12/17	Co-director, then (from 3/16) Director of a Centre of Doctoral Training in Regenerative Medicine
	University of Manchester
	Creation and management of a doctoral programme funded by EPSRC and MRC
	Business or sector Education / Academia
12/04 – 12/221	Full Professor in Polymers and Biomaterials
	University of Manchester
	2004-2010 Sch. of Pharmacy, 2010-2014 Sch. of Materials, 2014-2021 Sch. of Health Sciences
	Undergraduate and postgraduate teaching, various posts of academic administration, management of
	an externally funded research group
2007-12	Business or sector Research & Development, Education / Academia Consultant for ACRAF (Aziende Chimiche Riunite Angelini Francesco) SpA
2007-12	Angelini, stabilimento di Pomezia
	Monthly residential consultancy in formulation science (pharmaceutics)
	Business or sector Research & Development
1/03-12/04	Senior Lecturer in Polymers and Biomaterials
1/00 12/04	University of Manchester
	Undergraduate and postgraduate teaching; management of an externally funded research group in
	the areas of polymer chemistry and drug delivery
	Business or sector Research & Development, Education / Academia
12/98-12/02	'Oberassistent' (analogous to research assistant professor)
	Institute of Biomedical Engineering, Swiss Federal Institute of Technology of Zürich (ETH),
	Management of a section of a larger research group in the areas of tissue engineering and
	biomaterials; direct supervision of PhD students
	Business or sector Research & Development, Education / Academia
11/95-11/98	Postdoctoral Research Assistant / Teaching Assistant
11/35-11/30	Institute for Polymers, Swiss Federal Institute of Technology of Zürich (ETH)
	Independent research in organic materials for optoelectronics; supervision of Master students,
	Business or sector Research & Development, Education / Academia

EDUCATION AND TRAINING	
1992-1995	PhD in Industrial Chemistry
	University of Pisa, Dept. of Chemistry and Industrial Chemistry, via Risorgimento, 56100 Pisa Polymer chemistry, organic materials for optoelectronics (photochromism, non-linear optical
1986-1992	properties) Laurea in Chemistry University of Pisa, Dept. of Chemistry and Industrial Chemistry, via Risorgimento, 56100 Pisa
	 Majoring in organic chemistry and physical chemistry
WORK ACT	IVITIES
Editorial activity	- Organization of conferences : 1. AFPM 2021 (Advanced Functional Polymers for Medicine meeting), Pisa, 13-16/7/ 2021. 120 attendees – international conference.
	 Nanomanufacturing Day, "Advances in nanoparticle production", Genova, 13/12/2019. 95 attendees - workshop Polymers for Advanced Technology, Manchester, 11-13/9/2017. 350 attendees –
	international conference - Executive Board Member for the Wiley VCH <i>Macromolecular</i> journals, and member of the
Grants	editorial board for 4 journals in the area of polymer science. 1. CN3, Centro Nazionale di Ricerca "Sviluppo di terapia genica e farmaci con tecnologia a RNA" 2. AIRC investigator grant. (PI) 2020-2024; total budget - 624k€
	 H2020, FET-OPEN. GROWBOT (Col), 2019-23, budget to NT - 300k€ King Abdulaziz City of Science and Technology (KACST), Research grant. (PI) 2019-21; total
Patents	budget – 200k€ 1. N. Tirelli, V. Quagliariello, A. Barbarisi, F. Rosso, A. Jain, M. Babarisi, R.V. laffaioli, M. Oqal, I.J. Stratford, M. Mehibel, "New polymer-drug conjugate comprising anticancer compound covalently linked
	to modified hyaluronic acid derivative by pH-labile boron-containing linkage, used for treating cancer and solid tumors", WO2018020238-A1, US2019282701-A1 (publication date 16/1/2019) 2. "New antiinflammatory and/or antioxidant monomer based on 3,4-dihydro-2H-1,3-benzoxazine derivatives used as part of implantable materials e.g. implantable metallic apparatus and treat e.g.
	antiinflammatory and/or antioxidant disease" WO2020193293-A1 (publication date 17/3/2020) 3. G. Palazzolo, G. Della Rosa, N. Gostynka, N. Tirelli, "Composizione iniettabile di alginato e relativi usi", IT 102020000027239, priority date. 13/11/2020
ADDITIONAL INFORMATION	
8	Number of peer-reviewed papers: 205 (Scopus) Total number of citations: 8500 (Scopus)
	H index: 47 (Scopus)
	 Recent, relevant publications R. d'Arcy, N. Tirelli, "A Reactive Oxygen Species-Scavenging 'Stealth' Polymer, Poly(thioglycidyl glycerol), Outperforms Poly(ethylene glycol) in Protein Conjugates and Nanocarriers and Enhances Protein Stability to Environmental and Biological Stressors" <i>J. Am. Chem. Soc.</i> 144 (2022), 21304. <i>DOI: 10.1021/jacs.2c09232</i> V. Quagliariello, N. Tirelli*, "Double-responsive hyaluronic acid-based prodrugs for efficient tumour
	 targeting" <i>Mat Sci Eng C</i>, 130 (2021) 112475 <i>DOI:10.1016/j.msec.2021.112475</i> J.M. Rios de la Rosa N. Tirelli*, "Binding and internalization in receptor-targeted carriers. The complex role of CD44 in the uptake of hyaluronic acid nanoparticles (siRNA delivery)" <i>Adv Healthc Mater</i>, 8 (2019) 1901182
	 O. Rajkovic N. Tirelli*, E. Pinteaux*, "Reactive oxygen species-responsive nanoparticles for the treatment of ischemic stroke", <i>Adv Therap</i>, (2019) 1900038.<i>DOI:10.1002/adtp.201900038</i> A. Tirella* N. Tirelli*, "CD44 targeted delivery of siRNA by using HA-decorated
	nanotechnologies for KRAS silencing in cancer treatment", <i>Int J Pharm</i> , 561 (2019) 114-123, <i>DOI:10.1016/j.ijpharm.2019.02.032</i> 5. E. Lallana, J N. Tirelli * "Chitosan/hyaluronic acid nanoparticles: rational design revisited for RNA delivery", <i>Mol Pharm</i> , 14 (2017) 2422. <i>DOI:10.1021/acs.molpharmaceut.7b00158</i>
Personal data	I hereby authorize the use of my personal data in accordance to the GDPR 679/16 - "European regulation on the protection of personal data".
Date1/2./2022	Signature: Mich Till