Prof. FRANCESCO NICOTRA.

Career and International appointments

2021- Emeritus Professor

2018-2019 President of the IUPAC Division of Organic and Biomolecular Chemistry

2016-2019 Scientific Director of the Foundation European Centre for Nanomedicine (CEN)

2013-2018 Member of the Board of Directors of the University of Milano-Bicocca

2009-2012 Dean of the Faculty of Sciences at the University of Milano-Bicocca

2006-2015 Chairman del subcommittee of Biotechnology of IUPAC

2002-2008 Head of the Departemt of Biotechnology and Biosciences, University of Milano-Bicocca

2002- Italian representative in the International Carbohydrate Organisation and in the European Carbohydrate Organisation

2000 Full professor of Organic Chemistry, University of Milano-Bicocca

1987 Associated professor, University of Milano

1985 Postdoctoral research associate, Prof. Pierre Sinay at University of Orleans

1981 Assistant professor, University of Milano

1973 Laurea "cum lode" University of Catania

Award for innovation in research of the Italian Chemical Society, 2011 Medal Berti for Research in Carbohydrate Chemistry, 2012 Medal Quilico of the Division of Organic Chemistry of the Italian Chemical Society, 2015

Co-founder of the spin-off company Amypopharma srl <u>https://www.amypopharma.com/en</u> Scientific advisor and partner of Biocompatibility Innovation srt <u>https://www.biocompatibility.bio/</u>

Scientific interests

Design, synthesis, characterisation and exploitation of organic compounds of biological and pharmaceutical relevance. Recent studies are devoted to the valorisation on bioactive molecules, in particular carbohydrates, in nanomedicine.

Scientific production

>200 publications on international scientific journals with IF, 22 chapter of books, 12 patents, H index 43 (Google Scholar), 37 (Scopus).

Editor of Current Trends in Organic Synthesis, Kluwer Academic/Plenium Publisher, New York, 1999; Pure and Applied Chemistry, 2008; "Organic and Biomolecular Chemistry", the UNESCO Universal Enciclopedia (EOLSS) www.eolss.net

Coordinator of National/International projects:

HORIZON 2020 MSCA-ITN-2014 NABBA (01/01/2015-28/02/2019), Design and development of advanced Nanomedicines to overcome Biological Barriers and to treat severe diseases. 2.997.315,36 Euro
FP7-PEOPLE-2013-IOF-627403 3D Biomimetics, (01/03/2014-31/08/2016), Scaffold Based Supramolecular Architectures as Protein Epitope Mimetics for Biomedical Applications 218.349,30 Euro
MIUR, PRIN 2011, Innovative chemical methodologies for smart biomaterials, 825.626 Euro
MIUR, PRIN 2008, LPS Antagonists and Inhibitors of its Biosynthesis: design, synthesis and bioassays
REGIONE LOMBARDIA, 2010 "Network Enabled Drug Design" NEDD
CARIPLO, 2008/3175, "development of NMR techniques for tissue engineering studies"

Group leader of National/International projects

Regione Lombardia. 2019, IMMUN-HUB, (01/11/2019-30/4/2022), Sviluppo di nuove molecole di seconda generazione per immunoterapia oncologica, 1.200.000 Euro UNIMIB,

Ministero della Salute, RF-2016-02362946 (1/3/2018-28/2/2021) Theoryenhancing Projects. Title: *Dissecting the link between pulmonary stromal changes and lung cancer progression for biomarkers discovery and therapeutic intervention* H2020-NMBP-15-2017- GA-760986, iNanoBIT (01/10/2017-31/09/2022), *Integration of Nano- and Biotechnology for beta-cell and islet Transplantation*. 652.563,75 Euro UNIMIB

FP7/2007-2013 n° 212043. NAD, Nanoparticles for therapy and diagnosis of alzheimer disease



FP5 Marie Curie HPRN-CT-2002-00173, New carbohydrate Derived Scaffolds for the Generation of Bioactive Libraries COST, Glycolipid Mimics Against Sepsis COST BM1003, "Microbial cell surface determinants of virulence as targets for new therapeutics in Cystic Fibrosis REGIONE LOMBARDIA, 2006, PANDA MIUR, PRIN 2005, n.2005037725 MIUR, FIRB 2006/ RBIP068JL9, Materiali innovative per lo sviluppo di Bioprotesi articolari INTERREG III, 2006, BIOCAT

Chair/Co-Chair of International Conferences

1st Euroconference on Carbohydrates in Drug Research, Stintino, September 1999 (Chair)
2nd Euroconference on Carbohydrates in Drug Research, Sintra, Portugal, September 2000 (Chair)
CHEMBIOTECH2007 at 41st IUPAC World Chemistry Congress, Torino August 2007 (Chair)
13th International Biotechnology Symposium, Dalian, China, October, 2008 (Co-Chair)
14th International Biotechnology Symposium, Rimini, September 2010 (Co-Chair)
15th European, Carbohydrate Symposium, Sorrento, July 2011 (Co-Chair)
16th International Biotechnology Symposium, Forteleza, Brazil, 14-19 September 2014 (Co-Chair)
29th International Carbohydrate Symposium (ICS 2018), Lisboa, Portugal, July, 2018 (Co-Chair)
NanoMed 2018 Venice Italy October 2018 (Chair)
31^s International Symposium on the Chemistry of Natural Products, Napoli, October 2023 (co-Chair)

Member of International Conference Committees & Advisory Board

XVII International Carbohydrate Symposium, Milano, July 1996

XII International Conference on Organic Synthesis, Venice, June 1998

11-European, Carbohydrate Symposium, Lisbon, September 2001

12th European, Carbohydrate Symposium, Grenoble, July 2003

13^a European, Carbohydrate Symposium, August 2005

XVIII International Symposium on Glycoconjugates, Firenze, September 2005

16th International Conference on Organic Synthesis, Merida June 2006

14th European Carbohydrate Symposium Lübeck, Germany, September, 2007

Carbohydrates as Organic Row materials V, Lisbon. January 20-23, 2009

14°European, Carbohydrate Symposium, Wien, July 2009

18th International Conference on Organic Synthesis, Bengen, August 2010

26^a International Carbohydrate Symposium, Madrid, July 2012 16^a European Carbohydrate Symposium, Tel Aviv, July 2013

17^a International Biotechnology Symposium, Melbourne, Australia, October 2016

22^a International Conference on Organic Synthesis, Firenze, September 16-21, 2018

30th International Symposium on the Chemistry of Natural Products, November 25-29, 2018

25 International Symposium on Glycoconjugates, Milano, August 25-31, 2019

12th International Symposium on Bioorganic Chemistry (ISBOC-12), Shenzen, China, December 15-18th, 2019

Evaluator of projects for:

European Community, FP5, FP6, FP7, COST, Horizon2020; European Research Council; European Science Fundation; Swiss Council; Austrian Science Found (FWF); French National Research Agency (ANR); ISERM (France); Fondation Researche Medicale (France); Netherlands Organisation for Scientific Research (NWO); Portuguese Foundation for Science and Technology (FCT); Czech Republic (GACR); SoMoPro (South Moravian Programme); Polish National Research Centre; Romanian Government (UEFISCDI); Croatian Agency for Science, La Caixa Foundation; Ireland Curam MedTrain; Regione Emilia Romagna; Regione Piemonte; Provincia autonoma di Trento. University of Milano, Firenze, Padova, Verona; Caroplo Foundation.

Member of Doctorate Commissions

- Doctorate of Daniela Fattori, University of Lausanne, 1991
- Abilitation of Dr. Juean Xie, University Paris VI, 1997
- Doctorate of Francesco Peri, University of Lausanne, 1999
- Abilitation of Dr. Claude Taillefumier University of Nancy,
- Evaluation of the CNRS Centre "CERMAV", Grenoble,

- Abilitation of Dr Tanja Wroddnig, Technical University of Graz, 2006
- Doctorate of Omar Boutureira, Universidad Rovira i Virgili, Spain, 2007
- Doctorate of Alexander Titz, University of Basel, 2008
- Doctorate of Iolanda Martin, University of Tarragona, 2012
- Doctorate of Francisco Ribeiro Cardona, University of Aveiro, 2013
- Associated Professor for Micha Fridman at the University of TelAviv, 2015
- Doctorate of martina Tuttolomondo, University of Odense, 2017
- Doctorate Daniele Vinciguerra, Universitè Paris Saclay, 2018

Plenary or Keynote lecturer in international conferences/schools

IX Corso Estivo "A. Corbella", Gargnano, 18-22 June1984 II Convegno sulla Chimica dei Carboidrati, 29-30 April 1988 Struttura e reattività di molecole di interesse biologico e loro modelli, Montecatini, 22-26/10 1990 XV Corso Estivo "A. Corbella", Gargnano, 18-22 June 1990 XVI International Carbohydrate symposium, Paris, 5-10 July 1992 XXI Convegno Nazionale della Divisione di Chimica Organica, Terrasini, 29-Sett-2-October 1993. First Euroconference on Carbohydrate Mimics, Strasburg, May 15-18, 1995 Convegno Nazionale su orientamenti e metodologie in chimica farmaceutica, organica e bioorganica, Numana, 2-6 June 1995 XIX Congresso Nazionale Ricerca e Tecnologia, Riccione, 9-14 June 1996 Glucoportwo, Porto, September 21-25, 1997 Second International Meeting of the Portugese Carbohydrate Chemistry Group, Oporto, 21-25 September 1997 215th American Chemical Society National Meeting, Dallas, March 29-April 2, 1998 Fourtheenth New Orleans Carbohydrate Symposium, New Orleans, April 2-4, 1998 10th European Carbohydrate Symphosium, Galway, July 11-16, 1999 219th American Chemical Society National Meeting, San Francisco, March 26-30, 2000. VII Convegno sulla Chimica dei Carboidrati, Napoli, 19-21 June 2000 3rd Spanish-Italian Symposium on Organic Chemistry (SISOC-3) Benalmadena, September 2000. 10th Bratislava Symposium on saccharides, September 1-6, 2002 Smolenice 10th Ischia Advanced School of Organic Chemistry, Ischia September 21-26, 2002 Third Italian-French Meeting on Organic Chemistry, Pisa, November 20-23, 2002 International Symposium on Modern Aspects of Sugar Chemistry, Warsaw September 29, 2003 Gluport5, Covilha, September 7-10, 2003 From Chemistry to technology, Belvedere di San Leucio, Caserta 11-13 November 2004 Sugar in the synthesis of natural products, Paszkowka 8-13 June 2005 Eurocarb 13, Bratislava, August 2005 XXII Europeam Colloquium on Heterocyclic Chemistry, Bari 2-6 September 2006 233 ACS National Meeting, Chicago, March 25-29, 2007 3rd ERA Chemistry "Flash" Conference, Killarny, March 9-13, 2008 IBS2008 International Biotechnology Symposium, Dalian, China, October 12-19, 2008 New Trends in Organic Synthesis, Milano, November 24, 2008 ESMEC-European School of Medicinal Chemistry-Urbino. September 13-18, 2009 Workshop "Glycoscience: tools and molecules", Milano 15-16 December 2010 GAFHI 2011, May 26-29, 2011, Goslar, Germany ESF-COST High-Level Research Conference: Natural Products: chemistry, Biology and Medicine IV, Maratea, 28 August-2 September 2011 XXIV Congresso della Società Chimica italiana Lecce 11-16 September 2011 DCSB 2012, Napoli September 24-25 2012, Nanoparticles and Nanotechnologies in Biomedicine, Bresso, 19-21 June 2013, 6th Central Europe Conference, Chemistry towards Biology 2013, Trieste, 10-13 September 2013 27th International Carbohydrate Symposium, Bangalore, 12-18 January 2014 Frontiers in chemistry and biology of carbohydrates, Pune, India, 19-20 January 2014 CARBO XXVIII (International conference on challenges in chemistry and biology of carbohydrates), Dehradon, India, 20-22 January 2014 16th International Biotechnology Symposium, Fortaleza, Brazil, September 14-19 2014 (PL) ISBOC-10 IUPACs International Symposium on BioOrganic Chemistry, Pune, India, 11-15 January 2015

18th European Carbohydrate Symposium, Moskow, August 4-8 2015 (PL)

XXXVI Conference of the Division of Organic Chemistry, SCI, Bologna 13-17 September 2015 (PL) 16th Austrian Chemistry Days, Innsbruck, 21-24 Settembre 2015

Portugise Organic and Medicinal Chemistry Meeting, Porto, 1-3 Dicembre 2015

11th International Conference and Workshop on Biological Barriers, Saarland Univ. 7 – 9 March 2016

17th International Biotechnology Symposium, Melbourne, Australia, October 2016 (PL)

Materials.it 2016, Catania, 12-16 December 2016

International School of nanomedicine, Erice, 8-13 April 2017

International Summer School on Natural Products (ISSNP), Napoli, 1-5 July 2019 (PL).

International Summer School on Hybrid (bio)Nanostructures, Alghero, 3-7 September 2019 (PL).