



Professore emerito Università Statale

MARTINO BOLOGNESI

AREA DISCIPLINARE
BIOCHIMICA

DIPARTIMENTO DI BIOSCIENZE

ANNO DI NOMINA
2022

CONTATTI

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NOTA BIOGRAFICA

Martino Bolognesi si è formato all'Università di Pavia (Laurea in Chimica 1975, Scuola di Specializzazione in Biochimica 1979), presso l'University of Oregon, Institute of Molecular Biology, e presso il Max Planck Institut für Biochemie, Martinsried (Prof. R. Huber, premio Nobel 1988). Ha ricoperto posizioni accademiche nelle Università di Pavia, di Genova e di Milano. Presso quest'ultima è stato Professore Ordinario di Chimica Biologica (2004-2021), è stato Direttore di Dipartimento, ed è Professore Emerito dal 2022.

La carriera scientifica del Prof. Bolognesi si è centrata sullo studio della struttura tridimensionale delle proteine tramite diffrazione di raggi-X, e recentemente anche attraverso crio-microscopia elettronica, traducendosi in più di 700 pubblicazioni su riviste internazionali (h-index 79), più di 26.000 citazioni e 277 deposizioni presso il Protein Data Bank (aggiornamenti Aprile 2025). Argomenti recenti della sua ricerca riguardano 'drug-leads' diretti contro enzimi essenziali per la replicazione virale, per la sopravvivenza di patogeni batterici, e per la regolazione di processi oncologici; si è occupato, inoltre, di processi di mis-folding e aggregazione proteica in amiloide, della progettazione di vaccini tramite metodi di vaccinologia strutturale, della struttura di complessi proteici con acidi nucleici e di proteine di membrana (tramite crio-microscopia elettronica). Un interesse scientifico che ha attraversato tutta la sua carriera riguarda le emoproteine trasportatrici di ossigeno, oggetto di intense collaborazioni nazionali (particolarmente con le Università di Roma) e

internazionali (in Europa e negli Stati Uniti). L'attività di ricerca del Prof. Bolognesi è stata supportata da finanziamenti della Commissione Europea, del NIH, della Fondazione Cariplo, dell'AIRC, di Telethon, del MIUR, Regione Lombardia, e di aziende del ramo farmaceutico.

Il Prof. Bolognesi è stato uno dei fondatori della biologia strutturale in Italia, promuovendone lo sviluppo e la diffusione durante tutta la sua carriera (suoi allievi o collaboratori sono oggi ricercatori attivi e ricoprono posizioni apicali in Università italiane, e in Europa). In questo contesto è stato il primo Coordinatore della Sezione Macromolecole Biologiche della Associazione Italiana di Cristallografia (2017-2019), un'iniziativa che ha visto crescere sensibilmente la partecipazione dei giovani bio-cristalloografi italiani. È stato Presidente della Società Italiana di Biochimica e Biologia Molecolare (SIB) nel biennio 2021-2022.

Il Prof. Bolognesi è stato ed è membro di diversi comitati di revisione scientifica internazionali (EMBO, EMBL, HFSP, ESF, EC, ERC, FEBS, IUCr, ...) e nazionali (MIUR, CNR, Fondazioni private). È membro EMBO dal 1995, membro della Accademia Europea, Membro Effettivo dell'Istituto Lombardo di Scienze e Lettere, e Socio Nazionale dell'Accademia Nazionale dei Lincei.



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DEGLI STUDI
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PUBBLICAZIONI PRINCIPALI

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