



UNIVERSITA' DEGLI STUDI DI PADOVA

DIPARTIMENTO DI SCIENZE DEL FARMACO

***CURRICULUM DELLA ATTIVITÀ SCIENTIFICA
E DIDATTICA***

Stefano Moro

Padova, 2016

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CURRICULUM VITAE ET STUDIORUM

Stefano Moro

Stefano Moro è nato a Treviso il 5 febbraio 1965 ed ha conseguito la Maturità' Tecnica in Chimica Industriale presso l'Istituto Tecnico Industriale "G. Natta" di Padova nel 1984 con punti 56/60.

Si è laureato in Chimica e Tecnologia Farmaceutiche il 13 marzo 1991, con punti 110 su 110 e Lode, presso l'Università degli Studi di Padova, discutendo la Tesi dal titolo: "Idrossilazione di derivati aromatici con perossocomplessi di Vanadio", svolta sotto la direzione del Prof. Fulvio Di Furia, presso il Dipartimento di Chimica Organica dell'Università degli Studi di Padova.



Tale lavoro era inerente a tematiche di chimica fisica organica e meccanicistica ed in particolare allo studio del meccanismo delle reazioni di idrossilazione di derivati aromatici catalizzate da complessi metallo perossidici e delle loro possibili implicazioni biologiche.

Nel marzo 1991 ha ricevuto il **Premio Nazionale Federchimica**, per il lavoro di Tesi di Laurea dal titolo "Idrossilazione di derivati aromatici con perossocomplessi di Vanadio".

Dal 20 marzo 1991 al 30 settembre 1991 ha continuato a lavorare sotto la direzione del Prof. Fulvio Di Furia, occupandosi ancora di problemi correlati alla chimica fisica organica e meccanicistica ed in particolare alla reattività di complessi metallo-perossidici.

Dal 2 ottobre 1991 al 28 settembre 1992 ha svolto il servizio militare di leva.

Nel novembre 1991 ha conseguito l'ammissione alla frequenza della Scuola di Dottorato in Scienze Chimiche dell'Università di Padova.

Dal 1 novembre 1992 al 31 ottobre 1995 ha frequentato la Scuola di Dottorato in Scienze Chimiche dell'Università di Padova sotto la supervisione del Prof. Fulvio Di Furia, con una tesi di Dottorato di Ricerca dal titolo "Chimica dei perossocomplessi del vanadio in soluzione acquosa: aspetti strutturali, reattività ed implicazioni biologiche".

Nell' ottobre 1993 ha ricevuto il **Premio Nazionale Fondazione IBM Italia** in "Tecnologie Informatiche in Chimica" per l'attività svolta nella chimica computazionale dei perossocomplessi del vanadio applicati a problematiche strutturali, di reattività e loro implicazioni biologiche".

La tesi di dottorato è stata approvata nella sede di Padova il 5 febbraio 1996 mentre il titolo di Dottore di Ricerca gli è stato conferito il 5 novembre 1996. In questo periodo ha svolto uno studio sulla natura chimica e sulla reattività di specie perossidiche di vanadio in soluzione. Particolare attenzione è stata rivolta all'utilizzo tecnica spettroscopica $^{51}\text{V-NMR}$ ed alle diverse metodologie di calcolo quantomeccanico *ab initio*.

Dal 1 febbraio 1996 al 1 aprile 1997 ha collaborato con il Centro di Studio del Farmaco e delle Molecole Biologicamente Attive del C.N.R. di Padova in qualità di consulente in chimica computazionale presso il laboratorio di grafica computerizzata della suddetta struttura sotto la supervisione del Prof. Francesco Dall'Acqua. In questo periodo ha effettuato ricerche nel campo del meccanismo di interazione tra farmaci e DNA, utilizzando metodologie di chimica computazionale.

Dal 1 maggio 1996 al 14 gennaio 1997 ha conseguito una **Borsa di Studio Nazionale** del Centro Nazionale delle Ricerche (C.N.R.) presso il Centro di Studio sui Meccanismi di Reazioni Organiche di Padova, sotto la direzione del Prof. Giorgio Modena (Bando n.201.03.23 del 12/06/1995). In tale periodo ha effettuato ricerche relative al ruolo dei perossocomplessi di vanadio nell'attività delle bromoperossidasi vanadio-dipendenti ottenendo informazioni sulla reattività e sulla natura delle specie reattive da misure cinetiche, misure spettroscopiche $^{51}\text{V-NMR}$ e da calcoli quantomeccanici *ab initio*.

Dal 15 maggio 1997 al 04 dicembre 1998 ha usufruito di una borsa di studio biennale per attività di ricerca post-dottorato riservata all'area disciplinare delle "Scienze del Farmaco" presso il Dipartimento di Scienze Farmaceutiche dell'Università degli Studi di Padova sotto la supervisione del Prof. Francesco Dall'Acqua (Decreto Rettoriale n. 6694/D del 18/10/96). In questo periodo ha svolto ricerche nel campo del meccanismo di interazione tra molecole a potenziale interesse bio-farmacologico e DNA, utilizzando metodologie di chimica computazionale.

Dal 15 gennaio 1997 al 04 dicembre 1998 ha svolto attività di ricerca in qualità di "Post-doctoral Fellow" presso il laboratorio di chimica computazionale del Molecular Recognition Section (Bio-organic Chemistry Laboratory), National Institute of Diabetes, Digestive and Kidney Diseases (NIDDK) presso il National Institutes of Health (NIH) di Bethesda (MD) USA, sotto la direzione del Dr. Kenneth Jacobson. Ha collaborato ad un progetto di ricerca sullo "Studio teorico della struttura tridimensionale dei recettori adenosinici e dell'ATP accoppiati alle

proteine-G (GPCR) e progettazione tramite metodologie di drug-design di nuovi agonisti ed antagonisti diretti verso questi recettori".

Nell'aprile 1998 è stato premiato con il **N.I.H. Fellow Award for Research Excellence**, conferito dal National Institutes of Health (NIH), Bethesda (USA), come riconoscimento del lavoro svolto nello studio teorico della struttura tridimensionale dei recettori adenosinici e dell'ATP accoppiati alle proteine-G (GPCR).

Dal 04 dicembre 1998 ha preso servizio in qualità di **Ricercatore Universitario** presso il Dipartimento di Scienze Farmaceutiche, Facoltà di Farmacia, dell'Università degli Studi di Padova (Decreto Rettorale n. 3641 del 18/12/1998).

Attualmente è responsabile della Sezione di Modellistica Molecolare presso il Dipartimento di Scienze Farmaceutiche dell'Università degli Studi di Padova.

Nel febbraio 2000 ha ricevuto **Premio Università di Padova "A. Mion"** per il lavoro scientifico svolto nell'ambito delle scienze chimiche.

Nel maggio 2000 ha ricevuto il **Premio Nazionale Federchimica**, per il lavoro di lavoro di ricerca svolto nell'ambito delle scienze chimiche.

Dal 3 giugno 2002 al 3 dicembre 2002 è stato **Visiting Professor** presso Swiss Federal Institute of Technology (ETH) di Zurigo dove ha condotto attività didattica e di ricerca presso il Department of Applied BioScience (Institut for Pharmaceutical Chemistry) diretto dal Prof. Gerd Folkers.

Nel settembre 2002 ha ricevuto il **Premio Nazionale Farmindustria**, per il lavoro di ricerca svolto nell'ambito delle scienze farmaceutiche.

Dal 27 febbraio 2006 è **Professore Associato** di Chimica Farmaceutica presso la Facoltà di Farmacia dell'Università degli Studi di Padova. E' inoltre responsabile della Sezione di Modellistica Molecolare presso il Dipartimento di Scienze Farmaceutiche dell'Università degli Studi di Padova.

Dal 01 dicembre 2011 è **Professore Straordinario** di Chimica Farmaceutica presso il Dipartimento di Scienze del Farmaco dell'Università degli Studi di Padova. Continua ad essere il responsabile della Sezione di Modellistica Molecolare presso il medesimo dipartimento dell'Università degli Studi di Padova.

Dal 01 dicembre 2015 è **Professore Ordinario** di Chimica Farmaceutica presso il Dipartimento di Scienze del Farmaco dell'Università degli Studi di Padova e responsabile della Sezione di Modellistica Molecolare presso il medesimo dipartimento dell'Università degli Studi di Padova.

Il sottoscritto é autore di più di 230 pubblicazioni scientifiche e 2 brevetti internazionali la cui lista é di seguito riportata.

RICONOSCIMENTI DI MERITO
Stefano Moro

- a. **Premio Nazionale Federchimica**, Marzo 1991 per la Tesi di Laurea "Idrossilazione di derivati aromatici con perossocomplessi di Vanadio", Università degli Studi di Padova.
- b. **Premio Nazionale Fondazione IBM Italia** in "Tecnologie Informatiche in Chimica", Perugia Ottobre 1993.
- c. **N.I.H. Fellow Award for Research Excellence**, Aprile 1998. National Institutes of Health (NIH), National Institutes of Diabetes, Digestive and Kidney Diseases (NIDDK), Bethesda (USA),
- d. **Premio Università di Padova "A. Mion"**, Febbraio 2000 per per il lavoro di lavoro di ricerca svolto nell'ambito delle Scienze Chimiche.
- e. **Premio Nazionale Federchimica**, Maggio 2000 per per il lavoro di lavoro di ricerca svolto nell'ambito delle Scienze Chimiche.
- f. **Premio Nazionale Farindustria**, Settembre 2002 per per il lavoro di lavoro di ricerca svolto nell'ambito delle Scienze Farmaceutiche.

PARAMETRI BIBLIOMETRICI

Stefano Moro

n. pubblicazioni: 232
citazioni totali: 6454
h-index: 45

fonte Scopus (10/02/2016): <http://www.scopus.com/authid/detail.url?authorId=7004482135>

ELENCO COMPLESSIVO DELLE PUBBLICAZIONI (232)

Stefano Moro

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229. Federico S, Redenti S, Sturlese M, Ciancetta A, Kachler S, Klotz KN, Cacciari B, **Moro S**, Spalluto G. "The Influence of the 1-(3-Trifluoromethyl-Benzyl)-1H-Pyrazole-4-yl Moiety on the Adenosine Receptors Affinity Profile of Pyrazolo[4,3-e][1,2,4]Triazolo[1,5-c]Pyrimidine Derivatives." *PLoS One* 10(12):e0143504 (2015)
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227. Paoletta S, Sabbadin D, von Kügelgen I, Hinz S, Katritch V, Hoffmann K, Abdelrahman A, Straßburger J, Baqi Y, Zhao Q, Stevens RC, Moro S, Müller CE, Jacobson KA. "Modeling ligand recognition at the P2Y₁₂ receptor in light of X-ray structural information." *J Comput Aided Mol Des.* 29, 737-756 (2015)
226. Sturlese M, Bellanda M. **Moro S**. "NMR-Assisted Molecular Docking Methodologies" *Mol Inf.* 34, 513–525 (2015)
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- analysing the human A3 adenosine receptor positive allosteric modulator LUF6000". *Biorg Med Chem.* 23, 4065-4071 (2015)
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216. Ciancetta A, Cuzzolin A, **Moro S**. "Alternative Quality Assessment Strategy to Compare Performances of GPCR-Ligand Docking Protocols: The Human Adenosine A2A Receptor as a Case Study." *J Chem Inf Model.* 54, 2243-2254 (2014)
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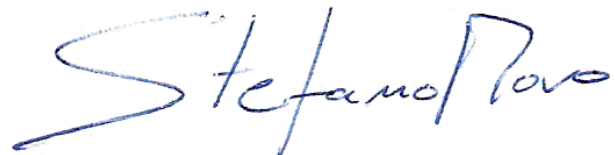
Capitoli di Libri

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In fede.

Padova, 10 Febbraio 2016

A handwritten signature in blue ink that reads "Stefano Moro". The signature is written in a cursive, flowing style.

Il sottoscritto, ai sensi della Legge 675/96 D.lgs 196/03 sulla riservatezza dei dati personali, dichiara di essere stato compiutamente informato delle finalità e modalità del trattamento dei dati consapevolmente forniti nel presente curriculum e di autorizzarne l'utilizzo e l'archiviazione in banca dati.