

ALLEGATO A

UNIVERSITÀ DEGLI STUDI DI MILANO

Procedura di selezione per la chiamata a professore di II fascia da ricoprire ai sensi dell'art. 18, commi 1 e 4, della Legge n. 240/2010 per il settore concorsuale _03/A1 - Chimica Analitica_,

(settore scientifico-disciplinare __CHIM/01_____)

presso il Dipartimento di __Dipartimento di CHIMICA_____, Codice concorso _4712_

[Claudio Iacobucci]

CURRICULUM VITAE

INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	IACOBUCCI
NOME	CLAUDIO
DATA DI NASCITA	[19, 08, 1988]
PROFILO SCIENTIFICO	EXPERIENCED BIOANALYTIC AND ORGANIC CHEMIST, PROFICIENT IN MASS SPECTROMETRY.
ABILITAZIONI DA PROFESSORE DI SECONDA FASCIA	CHIMICA ANALITICA (CHIM/01), CHIMICA ORGANICA (CHIM/06). BIOCHIMICA (BIO/10), BIOLOGIA MOLECOLARE (BIO/11),
ESPERIENZE DI RICERCA ALL'ESTERO	• NIZZA, FRANCIA → 12 MONTHS AS PHD STUDENT • BREST, FRANCIA → 9 MONTHS AS POSTDOC • HALLE, GERMANY → 33 MONTHS AS POSTDOC

BIOSKETCH

I obtained a Ph.D. in Chemistry studying the mechanism of organic and organometallic reactions by mass spectrometry under the joint supervision of Prof. F. De Angelis (University of L'Aquila) and Prof. J.-F. Gal (University of Nice Sophia Antipolis, France) in 2016. Then, I moved to University of Brest (France) as postdoc in the group of Prof. A. Memboeuf. There, I setup an MS apparatus to perform sequential gas-phase reactions. I applied it to unveil the elementary steps of complex organometallic reactions. After having been awarded an individual Humboldt Research Fellowship for postdoctoral researchers I joined the group of Prof. A. Sinz (Martin Luther University Halle-Wittenberg, Germany). My Humboldt project focused on the development and application of novel chemical cross-linkers for studying 3D-structure of proteins, protein complexes, and cell interactome. I have been awarded with a Marie Skłodowska Curie Individual Fellowship in 2019 and I joined Chiesi Pharmaceuticals in Parma (Italy). There, I integrated protein cross-linking and other chemical proteomic methods in the drug development pipeline, from target identification to discovery. I also am in charge of several proteomic and phosphoproteomic studies in the preclinical area. I received the Italian Habitation as Assistant Professor (ASN) in Analytical Chemistry and Organic Chemistry in 2020 and in Molecular Biology in 2021.

TITOLI

TITOLO DI STUDIO

- Laurea Magistrale in Scienze Chimiche, Università degli Studi dell'Aquila, 26/07/2012, 110/110 e lode.
- Laurea Triennale in Scienze e Tecnologie Chimiche e dei Materiali, Università degli Studi dell'Aquila, 20/10/2010

TITOLO DI DOTTORE DI RICERCA

Dottorato XXVIII Ciclo, "Study of organic reactions in solution and in the gas-phase by electrospray mass spectrometry: a reverse periscope for mechanistic investigations.", Università degli Studi dell'Aquila, 12/01/2016

POSIZIONI RICOPERTE DOPO IL DOTTORATO DI RICERCA

- | | |
|-----------|---|
| 2019-2021 | Individual Fellowship Marie Skłodowska-Curie Actions. Progetto: "Cross-linking mass spectrometry for drug discovery." Host Institution: Chiesi Farmaceutici, Parma. |
| 2016-2018 | Research Fellowship for Postdoctoral Researchers. Progetto: "Development of new chemical cross-linkers for protein structure analysis by ESI-MS" Host Institution: Martin-Luther University Halle Wittenberg (Germany). |
| 2016 | Assegno di ricerca, Università degli Studi dell'Aquila. Progetto: "Analisi di IPA e inquinanti antropici in foraggi ed in matrici ambientali". |
| 2016 | Assegno di ricerca, Université de Bretagne Occidentale, Brest (France), Progetto: "Study of organic reaction mechanisms in the gas-phase". |

ATTIVITÀ DIDATTICA

INSEGNAMENTI E MODULI

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|-----------|---|
| 2019 | Intrinsically Disordered Proteins (IDPs) From Physical Chemistry To Pathogenic Mechanisms
Lake Como School of Advanced Studies |
| 2017-2019 | Bioanalytics - Bachelor degree in Pharmacy - Second semester - Martin-Luther University Halle Wittenberg |
| 2013-2015 | Organic Chemistry - Bachelor's degree in Biotechnology - as Assistant - University of L'Aquila |

2013-2015	Organic Chemistry - Bachelor's degree in Biology - as Assistant - University of L'Aquila
2013-2015	Practical Courses of Organic Chemistry - Bachelor's degree in Chemistry - as Assistant University of L'Aquila

ATTIVITÀ DI DIDATTICA INTEGRATIVA E DI SERVIZIO AGLI STUDENTI

ATTIVITÀ DI RELATORE DI ELABORATI DI LAUREA, DI TESI DI LAUREA MAGISTRALE, DI TESI DI DOTTORATO E DI TESI DI SPECIALIZZAZIONE

2021-ongoing	Ilaria De Nardis - Master thesis in Pharmacy - University of Parma.
2021-ongoing	Alessio Di Ianni - PhD thesis in Structural Biology - Martin-Luther University Halle Wittenberg.
2020-2021	Giulia Barotti - Master thesis in Biothecnology - University of Ferrara.
2018-2019	Daniele Ubbiali - Master thesis in Biothecnology - University of Milano Bicocca.

ATTIVITÀ DI TUTORATO DEGLI STUDENTI DI CORSI DI LAUREA E DI LAUREA MAGISTRALE E DI TUTORATO DI DOTTORANDI DI RICERCA

2021-ongoing	Ilaria De Nardis - Master student in Pharmacy - University of Parma.
2021-ongoing	Alessio Di Ianni - PhD student in Structural Biology - Martin-Luther University Halle Wittenberg.
2020-2021	Giulia Barotti - Master student in Biothecnology - University of Ferrara.
2018-2019	Daniele Ubbiali - Master student in Biothecnology - University of Milano Bicocca.
2017-2018	James Pitts - PhD student in Structural Biology - Martin-Luther University Halle Wittenberg.
2017-2018	Norbert Durò - PhD student in Structural Biology - Martin-Luther University Halle Wittenberg.
2017-2018	Toni Hentrich - Bachelor student in Pharmacy - Martin-Luther University Halle Wittenberg.
2016-2019	Xiaohan Wang - Lab technician in Molecular Biology - Martin-Luther University Halle Wittenberg.
2015-2016	Irene Franceschi - Bachelor student in Chemistry - University of L'Aquila.

2014-2015

Silvia Aceto - Master student in Chemistry - University of L'Aquila.

SEMINARI

1. "Cross-linking harmonization initiative", 7th Symposium on Structural Proteomics - SSP 2017, Vienna, Austria. Ho tenuto questo seminario durante la Training School for Cross-Linking il 23.10.2017 a margine del 7th Symposium on Structural Proteomics - SSP 2017, Vienna, Austria. (EU-funded COST consortium, BM1403, Native Mass Spectrometry and Related Methods for Structural Biology, structuralproteomics.eu).
2. "In-Vitro and In-Cell Cross-Linking/Mass Spectrometry: from 3D-Protein Structure Investigations to Proteome-Wide Interactome Studies", University of Pavia (Pavia, 2018).
3. "New MS-Cleavable Cross-Linkers to Study 3D Structure of Protein and Protein Complexes" Chiesi Pharmaceuticals, (Parma, 2018)
4. "Introduction into Cross-linking/Mass Spectrometry for Protein Structure Analysis", Workshop durante la European Mass Spectrometry Conference - EMSC 2018, Saarbrücken, Germany.
5. "Evaluation of inter-lab comparison and recommendations for xlink-MS" COST Action BM1403 Mini Symposium, October 10th, Berlin, Germany. Questo simposio si è tenuto a margine dell' 8th Symposium on Structural Proteomics (SSP 2018), Berlin, Germany.
6. "In-Vitro and In-Cell Cross-Linking/Mass Spectrometry: from 3D-Protein Structure Investigations to Proteome-Wide Interactome Studies", University of Milano-Bicocca, Seminar (Milano, 2019)
7. "In-Vitro and In-Cell Cross-Linking/Mass Spectrometry: from 3D-Protein Structure Investigations to Proteome-Wide Interactome Studies", Institute of Molecular Pathology IMP, Seminar (Vienna, Austria, 2019)
8. "Cross-linking Mass Spectrometry" Lake Como School of Advanced Studies, Course (Como, 2019)
9. "Chemistry at the edge of structural Biology", University of L'Aquila, (L'Aquila, 2021)
10. "Chemistry at the edge of structural Biology", University of Genova, (Genova, 2021)

ATTIVITÀ DI RICERCA SCIENTIFICA

PUBBLICAZIONI SCIENTIFICHE

Entry	Year	Publication
1	2021	Iacobucci C, Massi L, E Duñach, P Burk, JF Gal (2021). Energetics and structures of adducts of JohnPhos (Au ⁺), PPh ₃ (Au ⁺) and IPr (Au ⁺) with organic substrates. A mass spectrometry and DFT study. <i>Organometallics</i> , vol 40, 1642-1653, doi: 10.1021/acs.organomet.1c00111.

2	2021	Ubbiali D, Orlando M, Kovačič M, Iacobucci C, Semrau MS, Bajcg G, Fortuna S, Ilc G, Medagli B, Oloketuyi S, Storici M, Sinz A, Grandori R, De Marco A (2021). An anti-HER2 nanobody binds to its antigen HER2 via two independent paratopes. <i>International Journal of Biological Macromolecules</i> , vol 182, p 502-511, ISSN 0141-8130, doi: 10.1016/j.ijbiomac.2021.04.032.
3	2021	Rehkamp A, Tänzler D, Tüting C, Kastritis PL, Iacobucci C, Ihling CH, Kipping M, Koche KW, Sinz A (2021). First 3D-Structural Data of Full-length Guanylyl Cyclase 1 in Rod-Outer-Segment Preparations of Bovine Retina by Cross-linking/Mass Spectrometry. <i>JOURNAL OF MOLECULAR BIOLOGY</i> , 166947, ISSN: 0022-2836, doi: 10.1016/j.jmb.2021.166947.
4	2020	Iacobucci C, Götze M, Sinz A. (2020). Cross-linking/mass spectrometry to get a closer view on protein interaction networks. <i>CURRENT OPINION IN BIOTECHNOLOGY</i> , vol. 63, p. 48-53, ISSN: 0958-1669, doi: 10.1016/j.copbio.2019.12.009.
5	2020	Niemeyer M, Castillo EM, Ihling CH, Iacobucci C, Wilde V, Hellmuth A, Hoehenwarter W, Samodelov SL, Zurbriggen MD, Kastritis PL, Sinz A, Calderón Villalobos LIA (2020). Flexibility of intrinsically disordered degrons in AUX/IAA proteins reinforces auxin co-receptor assemblies. <i>NATURE COMMUNICATIONS</i> , vol. 11, 2277, ISSN: 2041-1723, doi: 10.1038/s41467-020-16147-2.
6	2020	Tüting C, Iacobucci C, Ihling CH, Kastritis PL, Sinz A (2020). Structural analysis of 70S ribosomes by cross-linking/mass spectrometry reveals conformational plasticity. <i>SCIENTIFIC REPORTS</i> , vol. 10, 12618, ISSN: 2045-2322, doi: 10.1038/s41598-020-69313-3.
7	2020	Ihling CH, Springorum P, Iacobucci C, Hage C, Götze M, Schäfer M, Sinz A. (2020). The Isotope-Labeled, MS-Cleavable Cross-Linker Disuccinimidyl Dibutyric Urea for Improved Cross-Linking/Mass Spectrometry Studies. <i>JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY</i> , vol. 31, p. 183-189, ISSN: 1879-1123, doi: 10.1021/jasms.9b00008.
8	2019	Götze M, Iacobucci C, Ihling C.H, Sinz A. (2019). A Simple Cross-Linking/Mass Spectrometry Workflow for Studying System-wide Protein Interactions. <i>ANALYTICAL CHEMISTRY</i> , vol. 91, p. 10236-10244, ISSN: 1520-6882, doi: 10.1021/acs.analchem.9b02372.
9	2019	Hage C, Iacobucci C, Götze M, Sinz A (2019). A biuret-derived, MS-cleavable cross-linking reagent for protein structural analysis: A proof-of-principle study. <i>JOURNAL OF MASS SPECTROMETRY</i> , vol. 55, p. 1-5, ISSN: 1096-9888, doi: 10.1002/jms.4449.
10	2019	Iacobucci C, Piotrowski C, Aebersold R, Amaral BC, Andrews P, Bernfur K, Borchers C, Brodie NI, Bruce JE, Cao Y, Chaignepain S, Chavez JD, Claverol S, Cox J, Davis T, Degliesposti G, Dong M-Q, Edinger N, Emanuelsson C, Gay M, Götze M, Gomes-Neto F, Gozzo FC, Gutierrez C, Haupt C, Heck AJR, Herzog F, Huang L, Hoopmann MR, Kalisman N, Klykov O, Kukačka Z, Liu F, Maccoss MJ, Mechtler K, Mesika R, Moritz RL, Nagaraj N, Nesati V, Neves-Ferreira AGC, Ninnis R, Novák P, O'Reilly FJ, Pelzing M, Petrotchenko E, Piersimoni L, Plasencia M, Pukala T, Rand KD, Rappsilber J, Reichmann D, Sailer C, Sarnowski CP, Scheltema RA, Schmidt C, Schriemer DC, Shi Y, Skehel JM, Slavin M, Sobott F, Solis-Mezarino V, Stephanowitz H, Stengel F, Stieger CE, Trabjerg E, Trnka M, Vilaseca M, Viner R, Xiang Y, Yilmaz S, Zelter A, Ziemianowicz D, Leitner A, Sinz A. (2019). First Community-Wide, Comparative Cross-Linking Mass Spectrometry Study. <i>ANALYTICAL CHEMISTRY</i> , vol. 91, p. 6953-6961, ISSN: 1520-6882, doi: 10.1021/acs.analchem.9b00658.
11	2019	Iacobucci C, Schäfer M, Sinz A. (2019). Free radical-initiated peptide sequencing (FRIPS)-based cross-linkers for improved peptide and protein structure analysis. <i>MASS SPECTROMETRY REVIEWS</i> , vol. 38, p. 187-201, ISSN: 1098-2787, doi: 10.1002/mas.21568.

12	2019	<i>Dal Cortivo G, Marino V, Iacobucci C, Vallone R, Arlt C, Rehkamp A, Sinz A, Dell'Orco D. (2019). Oligomeric state, hydrodynamic properties and target recognition of human Calcium and Integrin Binding protein 2 (CIB2). SCIENTIFIC REPORTS, vol. 9, ISSN: 2045-2322, doi: 10.1038/s41598-019-51573-3.</i>
13	2019	<i>Iacobucci C, Piotrowski C, Rehkamp A, Ihling CH, Sinz A. (2019). The First MS-Cleavable, Photo-Thiol-Reactive Cross-Linker for Protein Structural Studies. JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY, vol. 30, p. 139-148, ISSN: 1879-1123, doi: 10.1007/s13361-018-1952-8.</i>
14	2019	<i>Bellia F, Lanza V, García-Viñuales S, Ahmed IMM, Pietropaolo A, Iacobucci C, Malgieri G, D'Ambrosia G, Fattorusso R, Nicoletti VG, Sbardella D, Tundo GR, Coletta M, Pirone L, Pedone E, Calcagno D, Grasso G, Milardi D. (2019). Ubiquitin binds the amyloid B peptide and interferes with its clearance pathways. CHEMICAL SCIENCE, vol. 10, p. 2732-2742, ISSN: 2041-6539, doi: 10.1039/c8sc03394c.</i>
15	2019	<i>Iacobucci C, Suder P, Bodzon-Kulakowska A, Antolak A, Silberring J, Mielczarek P, Grasso G, Pawlaczyk A, Szyrkowska M I, Tuccitto N (2019). Instrumentation. In: (a cura di): Smoluch, M; Grasso, G; Suder, P; Silberring, J, MASS SPECTROMETRY: AN APPLIED APPROACH, 2ND EDITION. WILEY-INTERSCIENCE SERIES ON MASS SPECTROMETRY, ISBN: 978-1-11-937733-7.</i>
16	2018	<i>Iacobucci C, Götze M, Ihling C.H, Piotrowski C, Arlt C, Schäfer M, Hage C, Schmidt R, Sinz A. (2018). A cross-linking/mass spectrometry workflow based on MS-cleavable cross-linkers and the MeroX software for studying protein structures and protein-protein interactions. NATURE PROTOCOLS, vol. 13, p. 2864-2889, ISSN: 1754-2189, doi: 10.1038/s41596-018-0068-8.</i>
17	2018	<i>Iacobucci C, Götze M, Piotrowski C, Arlt C, Rehkamp A, Ihling C, Hage C, Sinz A. (2018). Carboxyl-Photo-Reactive MS-Cleavable Cross-Linkers: Unveiling a Hidden Aspect of Diazirine-Based Reagents. ANALYTICAL CHEMISTRY, vol. 90, p. 2805-2809, ISSN: 1520-6882, doi: 10.1021/acs.analchem.7b04915.</i>
18	2018	<i>Iacobucci C., Reale S., Aschi M., Oomens J., Berden G., De Angelis F. (2018). An Unprecedented Retro-Mumm Rearrangement Revealed by ESI-MS/MS, IRMPD Spectroscopy, and DFT Calculations. CHEMISTRY-A EUROPEAN JOURNAL, vol. 24, p. 7026-7032, ISSN: 0947-6539, doi: 10.1002/chem.201800347.</i>
19	2018	<i>Le Poul N, Colasson B, Thiabaud G, Dit Fouque DJ, Iacobucci C, Memboeuf A, Douziech B, Řezáč J, Prangé T, Lande ADL, Reinaud O, Le Mest Y. (2018). Gating the electron transfer at a monocopper centre through the supramolecular coordination of water molecules within a protein chamber mimic. CHEMICAL SCIENCE, vol. 9, p. 8282-8290, ISSN: 2041-6539, doi: 10.1039/c8sc03124j.</i>
20	2018	<i>Rehkamp A, Tänzler D, Iacobucci C, Golbik RP, Ihling CH, Sinz A. (2018). Molecular Details of Retinal Guanylyl Cyclase 1/GCAP-2 Interaction. FRONTIERS IN MOLECULAR NEUROSCIENCE, vol. 11, p. 1-13, ISSN: 1662-5099, doi: 10.3389/fnmol.2018.00330.</i>
21	2017	<i>Iacobucci C, Hage C, Schäfer M, Sinz A. (2017). A Novel MS-Cleavable Azo Cross-Linker for Peptide Structure Analysis by Free Radical Initiated Peptide Sequencing (FRIPS). JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY, vol. 28, p. 2039-2053, ISSN: 1879-1123, doi: 10.1007/s13361-017-1744-6.</i>
22	2017	<i>Iacobucci C, Jouini N, Massi L, Olivero S, De Angelis F, Duñach E, Gal J-F. (2017). Quantitative Ligand Affinity Scales for Metal Triflate Salts: Application to Isomer Differentiation. CHEMPLUSCHEM, vol. 82, p. 498-506, ISSN: 2192-6506, doi: 10.1002/cplu.201700124.</i>

23	2017	Hage C, Iacobucci C, Rehkamp A, Arlt C, Sinz A. (2017). The First Zero-Length Mass Spectrometry-Cleavable Cross-Linker for Protein Structure Analysis. <i>ANGEWANDTE CHEMIE. INTERNATIONAL EDITION</i> , vol. 56, p. 14551-14555, ISSN: 1433-7851, doi: 10.1002/anie.201708273.
24	2017	Iacobucci C, Sinz A. (2017). To Be or Not to Be? Five Guidelines to Avoid Misassignments in Cross-Linking/Mass Spectrometry. <i>ANALYTICAL CHEMISTRY</i> , vol. 89, p. 7832-7835, ISSN: 1520-6882, doi: 10.1021/acs.analchem.7b02316.
25	2016	Iacobucci C, Lebon A, De Angelis F, Memboeuf A. (2016). CuAAC Click Reactions in the Gas Phase: Unveiling the Reactivity of Bis-Copper Intermediates. <i>CHEMISTRY-A EUROPEAN JOURNAL</i> , vol. 22, p. 18690-18694, ISSN: 0947-6539, doi: 10.1002/chem.201603518.
26	2016	Iacobucci C, Reale S, De Angelis F. (2016). Elusive Reaction Intermediates in Solution Explored by ESI-MS: Reverse Periscope for Mechanistic Investigations. <i>ANGEWANDTE CHEMIE. INTERNATIONAL EDITION</i> , vol. 55, p. 2980-2993, ISSN: 1433-7851, doi: 10.1002/anie.201507088.
27	2016	Cecchini MM, De Angelis F, Iacobucci C, Reale S, Crucianelli M. (2016). Mild catalytic oxidations of unsaturated fatty acid methyl esters (FAMEs) by oxovanadium complexes. <i>APPLIED CATALYSIS A: GENERAL</i> , vol. 517, p. 120-128, ISSN: 0926-860X, doi: 10.1016/j.apcata.2016.01.045.
28	2015	Tremel P, Iacobucci C, Massi L, Olivero S, Gal J-F, Duñach E (2015). Catalytic intramolecular carbonyl-ene reaction with ketones: Evidence for a retro-ene process. <i>NEW JOURNAL OF CHEMISTRY</i> , vol. 39, p. 7453-7458, ISSN: 1369-9261, doi: 10.1039/c5nj01286d.
29	2015	Iacobucci C, Reale S, Gal J.-F, De Angelis F. (2015). Dinuclear copper intermediates in copper(II)-catalyzed azide-alkyne cycloaddition directly observed by electrospray ionization mass spectrometry. <i>ANGEWANDTE CHEMIE. INTERNATIONAL EDITION</i> , vol. 54, p. 3065-3068, ISSN: 1433-7851, doi: 10.1002/anie.201410301.
30	2014	Iacobucci C, Reale S, Gal J-F, De Angelis F. (2014). Insight into the mechanisms of the multicomponent Ugi and Ugi-Smiles reactions by ESI-MS(/MS). <i>EUROPEAN JOURNAL OF ORGANIC CHEMISTRY</i> , vol. 2014, p. 7087-7090, ISSN: 1099-0690, doi: 10.1002/ejoc.201403179.
31	2013	Gal J-F, Iacobucci C, Monfardini I, Massi L, Duñach E, Olivero S. (2013). Metal triflates and triflimides as Lewis "superacids": Preparation, synthetic application and affinity tests by mass spectrometry. <i>JOURNAL OF PHYSICAL ORGANIC CHEMISTRY</i> , vol. 26, p. 87-97, ISSN: 1099-1395, doi: 10.1002/poc.3019.
32	2013	Iacobucci C, Reale S, De Angelis F. (2013). Photoactivable Amino Acid Bioisosteres and Mass Spectrometry: Snapshots of in Vivo 3D Protein Structures. <i>CHEMBIOCHEM</i> , vol. 14, p. 181-183, ISSN: 1439-7633, doi: 10.1002/cbic.201200742.
33	2012	Gal J.-F, Iacobucci C, Monfardini I, Massi L, Duñach E, Olivero S. (2012). A quantitative approach of the interaction between metal triflates and organic ligands using electrospray mass spectrometry. <i>JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY</i> , vol. 23, p. 2059-2062, ISSN: 1879-1123, doi: 10.1007/s13361-012-0484-x.
34	2012	Daidone I, Iacobucci C, McLain S.E, Smith J.C. (2012). Alteration of water structure by peptide clusters revealed by neutron scattering in the small-angle region (below 1 Å ⁻¹). <i>BIOPHYSICAL JOURNAL</i> , vol. 103, p. 1518-1524, ISSN: 1542-0086, doi: 10.1016/j.bpj.2012.08.010.

ORGANIZZAZIONE, DIREZIONE E COORDINAMENTO DI CENTRI O GRUPPI DI RICERCA NAZIONALI E INTERNAZIONALI O PARTECIPAZIONE AGLI STESSI

2021-2023	Scientific Writer per il gruppo della Prof Andrea Sinz della Martin-Luther-Universität Halle-Wittenberg di Halle (Germania)
2018-2021	Collaborazione di chimica bioanalitica con il gruppo di Analytics and Early Formulations della Chiesi Farmaceutici, Parma. Qui sono stato come consulente nel 2018 e poi come
2018-2019	Collaborazione di chimica bioanalitica con il gruppo della Prof. Luz Irina A. Calderón Villalobos del Leibniz Institute of Plant Biochemistry (IPB) di Halle (Germania) e con il gruppo del Prof Panagiotis L. Kastiris dell'Institute of Biochemistry and Biotechnology della Martin Luther University Halle-Wittenberg, di Halle (Germania). Questa collaborazione ha prodotto una pubblicazione su Nature Communication nel 2020 intitolata "Flexibility of intrinsically disordered degrons in AUX/IAA proteins reinforces auxin co-receptor assemblies".
2018-2019	Collaborazione di chimica bioanalitica con il gruppo del Prof. Giuseppe Grasso dell'Università degli Studi di Catania. Questa collaborazione ha prodotto una pubblicazione su Chemical Science nel 2019 intitolata "Ubiquitin binds the amyloid B peptide and interferes with its clearance pathways".
2017-2018	Coordinamento dell'iniziativa mondiale di armonizzazione del settore del Cross-Linking Mass Spectrometry (XLMS) finanziato dalla Comunità Europea tramite la European Cooperation in Science and Technology (COST) Action BM1403. Questa collaborazione ha prodotto uno studio interlaboratorio che ha coinvolto oltre 30 gruppi di ricerca provenienti da 5 continenti. I risultati e le linee guida di armonizzazione del settore di XLMS sono stati presentati in una pubblicazione su Analytical Chemistry nel 2019 di cui sono primo autore e che coinvolge circa 70 autori. Sono stato invitato a presentare i risultati di questa collaborazione internazionale dalla COST nel 2018 al COST Action BM1403 Mini Symposium a margine del 8th Symposium on Structural Proteomics a Berlino.
2017-2018	Collaborazione di chimica bioanalitica con il gruppo del Prof Daniele Dell'Orco dell'Università di Verona. Questa collaborazione ha prodotto una pubblicazione su Scientific Reports intitolata "Oligomeric state, hydrodynamic properties and target recognition of human Calcium and Integrin Binding protein 2 (CIB2)".
2017 - 2019	Collaborazione con il gruppo del Prof. Dr. Mathias Schaefer dell'Universität zu Köln (Colonia, Germania) per lo sviluppo di metodi analitici basati sulla spettrometria di massa per studiare la struttura di proteine e complessi di proteine. Questa collaborazione ha generato 4 pubblicazioni scientifiche.
2016 - ongoing	Collaborazione con il gruppo della Prof Andrea Sinz della Martin-Luther-Universität Halle-Wittenberg di Halle (Germania). Qui sono stato anche coordinatore del progetto di ricerca sullo sviluppo di nuovi cross-linker con cui avevo ricevuto il finanziamento dalla Humboldt.
2016 - 2017	Collaborazione con il gruppo della Prof Antony Memboeuf della University of Western Brittany, Brest (Francia).

2015	Collaborazione con il Gruppo del Prof. J. Oomens della Radboud University Nijmegen di Nijmegen (Olanda) per analisi spettroscopiche infrarosse di ioni in fase gas. La collaborazione è il risultato del nostro ottenimento di beam time presso il FELIX Laboratory di Nijmegen a seguito di una selezione competitiva di progetti di ricerca. La collaborazione ha portato ad una pubblicazione su Chemistry A European Journal nel 2018 dal titolo "An Unprecedented Retro-Mumm Rearrangement Revealed by ESI-MS/MS, IRMPD Spectroscopy, and DFT Calculations".
2012 - ongoing	Collaborazione Scientifica con il gruppo del Prof. Jean-Francois. Gal dell'Université Nice Sophia Antipolis (Nizza, Francia) per lo sviluppo di metodi analitici basati sulla spettrometria di massa per: a) quantificare l'interazione tra catalizzatori metallici e ligandi organici; b) identificare e caratterizzare strutturalmente intermedi di reazioni organiche e metallorganiche. Questa collaborazione ha prodotto 7 pubblicazioni.

ATTIVITÀ PER RIVISTE SCIENTIFICHE

Referee per:	Angewandte Chemie, Analytical Chemistry, Nature Structural & Molecular Biology Mass Spectrometry Review, Organic & Biomolecular Chemistry, ChemPhysChem.
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PREMI E RICONOSCIMENTI NAZIONALI E INTERNAZIONALI PER ATTIVITÀ DI RICERCA

Mar 2019	Individual Fellowship Marie Skłodowska-Curie Actions.
Mar 2018	Fellowship by Foundation Blanceflor Boncompagni Ludovisi.
Mar 2017	Fellowship by Foundation Blanceflor Boncompagni Ludovisi.
July 2016	Humboldt Research Fellowship for Postdoctoral Researchers.

PARTECIPAZIONE IN QUALITÀ DI RELATORE A CONGRESSI E CONVEGNI DI INTERESSE INTERNAZIONALE

1	Oral Presentation "A quantitative approach of the interaction between metal triflates and organic ligands using electrospray mass spectrometry" 7th JFIC -GIFC, Turin, Italy, May 5th-6th, 2014 - 05/05/2014 06/05/2014.
2	Oral presentation: "Electrospray mass spectrometric study of the metal triflates used as catalysts in their interaction with organic ligands: isomer recognition", 20th International Mass Spectrometry Conference - IMSC 2014, Geneva, Switzerland 24/08/2014 29/08/2014.

- 3 Oral presentation: "Studying organic reaction mechanism by ESI-MS: the case of the Ugi and Ugi-Smiles reactions", 33rd Informal Meeting on Mass Spectrometry - IMMS 2015, Szczyrk, Poland, 10/05/2015 13/05/2015.
- 4 Oral presentation: "Copper-Catalysed Click-Reaction in the Gas-Phase: a Mass Spectrometric and DFT Mechanistic Study", 34th Informal Meeting on Mass Spectrometry - IMMS 2016, Fiera di Primiero, Italy, 15/05/2016 18/05/2016.
- 5 Oral presentation: "Copper-Catalysed Click Reaction Performed in the Gas Phase: a Mass Spectrometric Mechanistic Study", 6th Symposium on Structural Proteomics - SSP 2016, Dortmund, Germany, 17/11/2016 18/11/2016.
- 6 Oral presentation: "COPPER-CATALYSED CLICK REACTION PERFORMED IN THE GAS PHASE: A COMBINED MASS SPECTROMETRIC AND DFT MECHANISTIC STUDY", 50th Jahrestagung der Deutschen Gesellschaft für Massenspektrometrie - DGMS 2017, Kiel, Germany, 05/03/2017 08/03/2017.
- 7 Oral presentation: "A Novel MS Cleavable Azo Cross-Linker for Peptide Structure Analysis by Free Radical Initiated Peptide Sequencing (FRIPS)", 35th Informal Meeting on Mass Spectrometry - IMMS 2017, Aussois, France. 07/05/2017 11/05/2017.
- 8 Invited oral presentation: "Cross-linking harmonization initiative", 7th Symposium on Structural Proteomics - SSP 2017, Vienna, Austria. Ho tenuto questa presentazione orale durante la Training School for Cross-Linking il 23.10.2017 a margine del 7th Symposium on Structural Proteomics - SSP 2017, Vienna, Austria. (EU-funded COST consortium, BM1403, Native Mass Spectrometry and Related Methods for Structural Biology, structuralproteomics.eu) 23/10/2017 25/10/2017.
- 9 Oral presentation: "Novel solution- and gas phase-chemistry of "old" protein cross-linkers", 7th Symposium on Structural Proteomics - SSP 2017, Vienna, Austria, 23/10/2017-25/10/2017.
- 10 Oral presentation: "Novel Cross-linkers to Study 3D-Structures of Proteins and Protein Complexes", MS Pharma Network 2018, Rome, Italy, 19/02/2018 21/02/2018.
- 11 Invited oral presentation: "Introduction into Cross-linking/Mass Spectrometry for Protein Structure Analysis", European Mass Spectrometry Conference - EMSC 2018, Saarbrücken, Germany, 11/03/2018 15/03/2018.
- 12 Oral presentation: "A Cross-linking/Mass Spectrometry Workflow Based on MS-Cleavable Cross-Linkers and the MeroX Software for Mapping Protein-Protein Interactions", International Mass Spectrometry Conference - IMSC 2018, Florence, Italy, 26/08/2018 31/08/2018.
- 13 Invited Oral Presentation: "Evaluation of inter-lab comparison and recommendations for xlink-MS (WG2)" COST Action BM1403 Mini Symposium, October 10th, Berlin, Germany. Questo simposio si è tenuto a margine dell' 8th Symposium on Structural Proteomics (SSP 2018) October 10th-12th, Berlin, Germany, 10/10/2018 10/10/2018.
- 14 Oral Presentation: "A Cross-linking/Mass Spectrometry Workflow Based on MS-Cleavable Cross-Linkers and the MeroX Software for Mapping Protein-Protein Interactions" 8th Symposium on Structural Proteomics (SSP 2018), October 10th 12th, Berlin, Germany, 10/10/2018 12/10/2018.

- 15 Oral presentation "An Integrated One-Week Protocol for Proteome-Wide Cross-Linking/Mass Spectrometry Studies Based on the MS-Cleavable Cross-linker DSBU and the MeroX 2.0 Software" Annual Conference of the German Society for Mass Spectrometry (DGMS), 10th - 13th of March, 2019, Rostock, Germany, 10/03/2019 13/03/2019.
- 16 Oral Presentation "In-vitro and In-cell cross-linking/mass spectrometry: from 3D-protein structure investigations to proteome-wide interactome studies", 3rd IMASS Network, May 9th-10th, 2019, Parma, 09/05/2019 10/05/2019.
- 17 Oral Presentation: "In-vitro and in-cell cross-linking/mass spectrometry: from 3D-protein structure investigations to proteome-wide interactome studies" 3rd MS-NatMedDay MASSA2019, June 19-21 2019, Aboca, Sansepolcro, 19/06/2019 21/06/2019.
- 18 Oral Presentation: "In-Vitro and In-Cell Cross-Linking/Mass Spectrometry: from 3DProtein Structure Investigations to Proteome-Wide Interactome Studies", ItPA and HPS International XIV Congress 2019 - 25-27 June 2019 , Catanzaro 25/06/2019 27/06/2019
- 19 Invited Oral Communication: "In-Vitro and In-Cell Cross Linking/Mass Spectrometry: 3D Structure and Dynamics of Protein and Protein Complexes" durante la scuola "Intrinsically Disordered Proteins (IDPs) From Physical Chemistry To Pathogenic Mechanisms", Lake Como School of Advanced Studies, September 23-26, 2019, <https://idps.lakecomoschool.org/program/> 23/09/2019 26/09/2019
- 20 Invited Oral Presentation: "MeroX 2.0 - MS/MS-cleavable protein-protein XL-MS data analysis" 9th Symposium on Structural Proteomics 2019 (SSP 2019), Nov 3rd - Nov 6th, GÖTTINGEN, GERMANY, 03/11/2019 06/11/2019

ATTIVITÀ GESTIONALI, ORGANIZZATIVE E DI SERVIZIO

INCARICHI DI GESTIONE E AD IMPEGNI ASSUNTI IN ORGANI COLLEGIALI E COMMISSIONI, PRESSO RILEVANTI ENTI PUBBLICI E PRIVATI E ORGANIZZAZIONI SCIENTIFICHE E CULTURALI

Since 2015	Member of the Young Experts Group of the ECTN (European Chemistry Thematic Network) Label Committee
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Data

05/07/2021

Luogo

Modena