

# CURRICULUM VITAE

[**Claudio Iacobucci**]

## PERSONAL INFORMATION

<b>SURNAME</b>	<b>IACOBUCCI</b>
<b>NAME</b>	<b>CLAUDIO</b>
<b>DATE OF BIRTH</b>	<b>[ 19, 08, 1988 ]</b>
<b>SCIENTIFIC PROFILE</b>	<b>ORGANIC AND BIOANALYTICAL CHEMIST, PROFICIENT IN MASS SPECTROMETRY.</b>
<b>HABILITATION AS ASSISTANT PROFESSOR</b>	<b>ORGANIC CHEMISTRY, ANALYTICAL CHEMISTRY, BIOCHEMISTRY, MOLECULAR BIOLOGY</b>
<b>RESEARCH EXPERIENCES ABROAD</b>	<ul style="list-style-type: none"><li>• NICE, FRANCE → 12 MONTHS AS PHD STUDENT</li><li>• BREST, FRANCE → 9 MONTHS AS POSTDOC</li><li>• HALLE, GERMANY → 36 MONTHS AS POSTDOC</li></ul>
<b>CURRENT POSITION</b>	<b>TENURE TRACK ASSISTANT PROFESSOR (RTDB), UNIVERSITY OF L'AQUILA, ITALY.</b>
<b>CONTACTS</b>	<b>EMAIL: <a href="mailto:CLAUDIO.IACOBUCCI@UNIVAQ.IT">CLAUDIO.IACOBUCCI@UNIVAQ.IT</a></b> <b>PHONE NUMBER: +39 347 1799156</b>

## 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 received the Italian Habitation as Assistant Professor in Organic Chemistry and Analytical Chemistry in 2020 and in Biochemistry and Molecular Biology in 2021.

## EDUCATIONAL QUALIFICATION

- PhD, "Study of organic reactions in solution and in the gas-phase by electrospray mass spectrometry: a reverse periscope for mechanistic investigations.", University of L'Aquila, 12/01/2016
- Master's Degree in Chemical Sciences, University of L'Aquila, 26/07/2012, summa cum laude.
- Bachelor's Degree in Chemical and Materials Science and Technology, University of L'Aquila, 20/10/2010, summa cum laude.

## POSITIONS AFTER THE PHD

- 2022-present RTDb (tenure track), University of L'Aquila.
- 2021-2022 Postdoc, the Martin-Luther University Halle Wittenberg (Germany).
- 2019-2021 Individual Fellowship | Marie Skłodowska-Curie Actions. Project: "Cross-linking mass spectrometry for drug discovery." Host Institution: Chiesi Farmaceutici, Parma.
- 2018-2019 Postdoc the Martin-Luther University Halle Wittenberg (Germany).
- 2016-2018 Humboldt Research Fellowship for Postdoctoral Researchers. Project: "Development of new chemical cross-linkers for protein structure analysis by ESI-MS" Host Institution: Martin-Luther University Halle Wittenberg (Germany).
- 2016 Research Fellow, University of L'Aquila. Project: "Analysis of IPA and anthropogenic pollutants in fodder and environmental matrices".
- 2016 Research Fellow, Université de Bretagne Occidentale, Brest (France), Project: "Study of organic reaction mechanisms in the gas-phase".

## INTERNATIONAL FELLOWSHIPS AND AWARDS FOR RESEARCH ACTIVITIES

- 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.

**TEN SELECTED SCIENTIFIC PUBLICATIONS (2018-2022)**

Entry	Year	Publication
1	2022	Ubbiali D, Fratini M, Piersimoni L, Ihling C H, Kipping, M, Heilmann I, Iacobucci C, Sinz, A. (2022). Direct Observation of “Elongated” Conformational States in $\alpha$ -Synuclein upon Liquid-Liquid Phase Separation. <i>ANGEWANDTE CHEMIE</i> , 134(46), e202205726.
2	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.
3	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.
4	2020	Tütting 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.
5	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.
6	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.
7	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.
8	2019	Iacobucci C, Piotrowski C, Rehkamp A, Ihling CH, Sinz A. (2019). The First MS-Cleavable, Photo-Thiol-Reactive Cross-Linker for Protein Structural Studies. <i>JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY</i> , vol. 30, p. 139-148, ISSN: 1879-1123, doi: 10.1007/s13361-018-1952-8.
9	2018	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. <i>NATURE PROTOCOLS</i> , vol. 13, p. 2864-2889, ISSN: 1754-2189, doi: 10.1038/s41596-018-0068-8.
10	2018	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. <i>ANALYTICAL CHEMISTRY</i> , vol. 90, p. 2805-2809, ISSN: 1520-6882, doi: 10.1021/acs.analchem.7b04915.