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Date of Birth : November, 23rd, 1964, Nationality : Spanish

PROFESSIONAL ACTIVITY

**RESEARCH MANAGER FOUNDER & CEO OF EUROFINS-VILLAPHARMA
RESEARCH S.L. (MURCIA)**

**ASSOCIATE PROFESSOR OF PHARMACEUTICAL CHEMISTRY AT
UNIVERSIDAD CATOLICA SAN ANTONIO (UCAM, MURCIA)**



1. [March-2017 to date.](#) **Research Manager, founder and CEO – EUROFINS-VILLAPHARMA RESEARCH - Spain-**



Scientific direction for Drug Discovery projects, both internal and part of CRO business. >240 employees.

2. [September 2016 to date](#) **Associate Professor in Pharmaceutical Chemistry UNIVERSIDAD CATOLICA SAN ANTONIO (UCAM) MURCIA – Spain..**



Co-Direction of 3 PhD Thesis

Research Topics: Heterocyclic chemistry, parallel synthesis on solid supports, Combinatorial chemistry, design and synthesis of novel peptidomimetics. New synthetic methodologies toward the preparation of novel scaffolds for medicinal chemistry programs. Selective kinase inhibitors

3. [March-2004 to February 2017](#) **Research Manager, founder and CEO - VILLAPHARMA RESEARCH Spain.**



Scientific direction for Drug Discovery projects, both internal and part of CRO business. > 100 employees

4. [November 1996-September 2003.](#) **Research Manager, founder and CEO ROVIALL QUIMICA - Spain-**

Scientific direction for Drug Discovery projects, both internal and part of CRO business.

5. [November 1994 to November 2002. Actually on leave](#) **Organic Chemistry Professor – UNIVERSITAT DE GIRONA – Spain..**



Research Topics: Heterocyclic chemistry, parallel synthesis on solid supports, Combinatorial chemistry, design and synthesis of novel peptidomimetics. New synthetic methodologies toward the preparation of novel scaffolds for medicinal chemistry programs

6. Post-doctoral research. April 1993-November 1994. Spanish Ministry of Education and Science fellowship. Prof. C. Palomo's group - University of Basque Country (San Sebastian), Spain.



New chiral auxiliaries for use in asymmetric transformations

7. Post-doctoral research. December 1992-April 1993. Financed by the Swiss National Science Foundation. Prof. Heimgartner's laboratory – University of Zürich. (Switzerland)



Diazo Transfer reactions using Diphenyl Phosphorazidate.

8. Industrial Trainee. February-May 1988. “Zentrale Forschung Einheiten”. F. Hoffman-La Roche in Basel (Switzerland)..

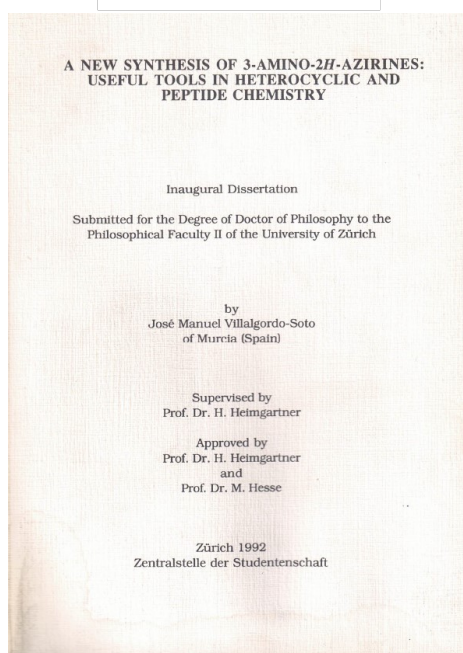


Synthesis of macrocyclic peptides as DNA intercalating agents

EDUCATION (Spain and Switzerland)

-PhD. Organic Chemistry - Prof. Heinz Heimgartner's laboratory - [University of Zürich \(Switzerland\)](#) – 1988-1992 –financed by Swiss National Science Foundation.

"A new synthesis of 3-Amino-2*H*-Azirines: Useful tools in Heterocyclic and Peptide Chemistry."



-Diploma Work. (“Tesina de Licenciatura”) - Organic Chemistry Department - [University of Murcia \(Spain\)](#) – September-1987-July 1988.



-Licenciatura en Ciencias Químicas (Chemistry Studies)– [Universidad de Murcia \(Spain\)](#) – Speciality: Organic Chemistry– 1982-1987



-Bachillerato – at the “**INB Francisco Salzillo**”, Murcia (Spain), completed with the certificate of Maturity- 1978-1982



Languages : Spanish (mother tongue), English (fluent), German.

PUBLICATIONS, BOOK CHAPTERS & PATENTS

1. Synthesis and crystal structures of new chiral 3-amino-2H-azirines and the Pd complex of one of them

By: Linden, Anthony; Bucher, Christoph B.; Gubler, Ralf; Villalgordo, Jose M.; Heimgartner, Heinz

From: **Acta Crystallographica, Section C: Structural Chemistry (2023), 79(3), 104-111**

2. Separation of Isomeric Forms of Urolithin Glucuronides Using Supercritical Fluid Chromatography

By: Ares, Ana M.; Toribio, Laura; Garcia-Villalba, Rocio; Villalgordo, Jose M.; Althobaiti, Yusuf; Tomas-Barberan, Francisco A.; Bernal, Jose

From: **Journal of Agricultural and Food Chemistry (2023), 71(6), 3033-3039**

3. Similarity-Based Virtual Screening to Find Antituberculosis Agents Based on Novel Scaffolds: Design, Syntheses and Pharmacological Assays

By: Garcia-Garcia, Angela; Julian-Ortiz, Jesus Vicente de; Galvez, Jorge; Font, David; Ayats, Carles; Guna Serrano, Maria del Remedio; Munoz-Collado, Carlos; Borrás, Rafael; Villalgordo, Jose Manuel

From: **International Journal of Molecular Sciences (2022), 23(23), 15057**

4. Novel Regioselective Synthesis of Urolithin Glucuronides-Human Gut Microbiota Cometabolites of Ellagitannins and Ellagic Acid

By: Villalgordo, Jose M.; Trulli, Laura; Garcia-Villalba, Rocio; Garcia, Victor; Althobaiti, Yusuf; Tomas-Barberan, Francisco A.

From: **Journal of Agricultural and Food Chemistry (2022), 70(19), 5819-5828**

5. Combined Structure and Ligand-Based Design of Selective Acetylcholinesterase Inhibitors

By: Perez-Sanchez, Horacio; den Haan, Helena; Perez-Garrido, Alfonso; Pena-Garcia, Jorge; Chakraborty, Sandipan; Erdogan Orhan, Ilkay; Senol Deniz, Fatma Sezer; Villalgordo, Jose Manuel

From: **Journal of Chemical Information and Modeling (2021), 61(1), 467-480**

6. 1,3-Dioxa-[3,3]-sigmatropic Oxo-Rearrangement of Substituted Allylic Carbamates: Scope and Mechanistic Studies

By: Agirre, Maddalen; Henrion, Sylvain; Rivilla, Ivan; Miranda, Jose I.; Cossio, Fernando P.; Carboni, Bertrand; Villalgordo, Jose M.; Carreaux, Francois

From: **Journal of Organic Chemistry (2018), 83(24), 14861-14881**

7. Synthesis, spectroscopic and antimicrobial activity of some new 7-methyl-2-phenylimidazo[1,2-a]pyridin-3-amine derivatives

By: Elaattiaoui, A.; Rokni, Y.; Mohammed, K.; Asehraou, A.; Chelfi, T.; Saddik, R.; Oussaid, A.; Villalgordo, Jose M.; Abouricha, S.; El Mahi, B.; et al

From: **Journal of Materials and Environmental Science (2015), 6(8), 2083-2088**

8. Asymmetric synthesis of trans-4,5-disubstituted γ -butyrolactones involving a key allylboration step and its First access to (-)-nicotlactone B and (-)-galbacin

By: Henrion, S.; Mace, A.; Vallejos, M. M.; Roisnel, T.; Carboni, B.; Villalgordo, J. M.; Carreaux, F.

From: **Organic & Biomolecular Chemistry (2018), 16(10), 1672-1678**

9. The Allyl Cyanate/Isocyanate Rearrangement: An Efficient Tool for the Stereocontrolled Formation of Allylic C-N Bonds.

By: Nocquet, Pierre-Antoine; Henrion, Sylvain; Mace, Aurelie; Carboni, Bertrand; Villalgordo, Jose Manuel; Carreaux, Francois.

From: **European Journal of Organic Chemistry (2017), 2017(10), 1295-1307.**

10. Stereospecific Synthesis of α -Amino Allylsilane Derivatives through a [3,3]-Allyl Cyanate Rearrangement. Mild Formation of Functionalized Disiloxanes.

By: Henrion Sylvain; Carboni Bertrand; Roisnel Thierry; Carreaux Francois; Cossio Fernando P; Villalgordo Jose M.

From: **The Journal of Organic chemistry (2016), 81(11), 4633-44.**

11. Microwave-assisted condensation reactions of acetophenone derivatives and activated methylene compounds with aldehydes catalyzed by boric acid under solvent-free conditions

By: Brun, Elodie; Safer, Abdelmounaim; Carreaux, Francois; Bourahla, Khadidja; L'helgoua'ch, Jean-Martial; Bazureau, Jean-Pierre; Villalgordo, Jose Manuel.

From: **Molecules (2015), 20(6), 11617-11631.**

12. The Prokaryote ligand-gated ion channel ELIC captured in a pore blocker-bound conformation by the Alzheimer`s disease drug memantine

By: Ulens Chris; Spurny Radovan; Debaveye Sarah; Thompson Andrew J; Alqazzaz Mona; Price Kerry; Lummis Sarah C R; Han Lu; Lynch Joseph W; Villalgordo Jose M.

From: **Structure (London, England. 1993) (2014), 22(10), 1399-407.**

13. Structural basis of ligand recognition in 5-HT₃ receptors

By: Kesters Divya; Thompson Andrew J; Brams Marijke; van Elk Rene; Spurny Radovan; Geitmann Matthis; Villalgordo Jose M; Guskov Albert; Danielson U Helena; Lummis Sarah C R; et al

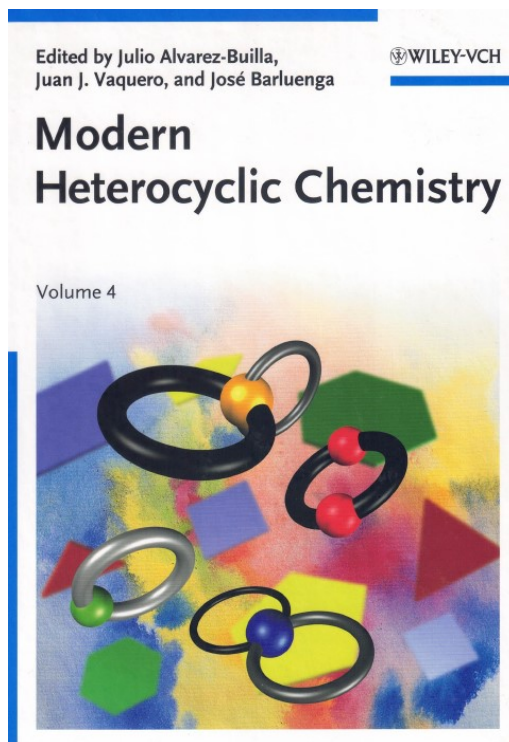
From: **EMBO reports (2013), 14(1), 49-56.**

14. Modern Heterocyclic Chemistry. (Book Chapter)

Wiley-VCH. Alvarez-Builla, J.; Vaquero J.J., Barluenga J. (eds.). 2011

"Solid-Phase and Combinatorial Chemistry in the heterocyclic field. Vol. 4, chapter 28.

By Villalgordo, José M.



15. Antibacterial Quinoline Derivatives

From **US20100063026**

16. Antibacterial Quinoline Derivatives

From **WO2008068272**

17. Synthesis of pyrimidinyl arylglycines through subsequent Mitsunobu and Petasis reactions

By: Font, David; Heras, Montserrat; Villalgordo, José M.

From: **Tetrahedron (2008), 64(22), 5226-5235.**

18. A new modular and flexible approach to [1,2,3]triazolo[1,5-a][1,4]benzodiazepines

By: Alajarin, Mateo; Cabrera, Jose; Pastor, Aurelia; Villalgordo, José M.

From: **Tetrahedron Letters (2007), 48(20), 3495-3499.**

19. A simple approach for the regioselective synthesis of imidazo[1,2-a]pyrimidinones and pyrimido[1,2-a]pyrimidinones

By: Font, David; Linden, Anthony; Heras, Montserrat; Villalgordo, José M.

From: **Tetrahedron (2006), 62(7), 1433-1443**

20. Synthesis of triazolo[1,5-a]triazin-7-one derivatives and highly functionalized [1,2,4]triazoles

By: Heras, Montserrat; Font, David; Linden, Anthony; Villalgordo, José M.

From: **Helvetica Chimica Acta (2003), 86(9), 3204-3214**

21. Solution- and Solid-Phase Parallel Synthesis of 4-Alkoxy-Substituted Pyrimidines with High Molecular Diversity

By: Font, David; Heras, Montserrat; Villalgordo, José M.

From: **Journal of Combinatorial Chemistry (2003), 5(3), 311-321**

22. Synthesis of novel 2,3-dihydroimidazo[2,1-b][1,3]oxazoles through intramolecular nucleophilic ipso-substitution in 2-alkylsulfonylimidazoles

By: Moreno, Pilar; Heras, Montserrat; Maestro, Miguel; Villalgordo, José M.

From: **Synthesis (2002), (18), 2691-2700**

23. Development of an efficient and straightforward methodology toward the synthesis of molecularly diverse 2,6-disubstituted 3,4-dihydropyrimidin-4(3H)-ones

By: Font, David; Heras, Montserrat; Villalgordo, José M.

From: **Synthesis (2002), (13), 1833-1842**

24. Copper(I) bromide-mediated synthesis of novel 2-arylthiazole-5-carboxylates from α -diazo- β -keto esters and aromatic thioamides

By: Fontrodona, Xavier; Diaz, Santiago; Linden, Anthony; Villalgordo, José M.

From: **Synthesis (2001), (13), 2021-2027**

25. Synthesis of novel optically pure quinolyl- β -amino alcohol derivatives from 2-amino thiophenol and chiral α -acetylenic ketones and their IBX-mediated oxidative cleavage to N-Boc quinolyl carboxamides

By: Cabarrocas, G.; Ventura, M.; Maestro, M.; Mahia, J.; Villalgordo, José M.

From: **Tetrahedron: Asymmetry (2001), 12(13), 1851-1863**

26. Reaction of α -iminomethylene amino esters with mono- and bidentate nucleophiles: a straightforward route to 2-amino-1H-5-imidazolones

By: Heras, M.; Ventura, M.; Linden, A.; Villalgordo, José M.

From: **Tetrahedron (2001), 57(20), 4371-4388.**

27. Reaction between hydrazines and chiral α -acetylenic ketones: synthesis of novel enantiomerically pure pyrazolyl- β -amino alcohols

By: Cabarrocas, G.; Ventura, M.; Maestro, M.; Mahia, J.; Villalgordo, José M.

From: **Tetrahedron: Asymmetry (2000), 11(12), 2483-2493**

28. A new approach toward the stereoselective synthesis of novel quinolyl glycines: Synthesis of the enantiomerically pure quinolyl- β -amino alcohol precursors

By: Cabarrocas, Gemma; Rafel, Sara; Ventura, Montserrat; Villalgordo, José M.

From: **Synlett (2000), (5), 595-598**

29. A highly efficient and straightforward stereoselective synthesis of novel chiral α -acetylenic ketones

By: Serrat, Xavier; Cabarrocas, Gemma; Rafel, Sara; Ventura, Montserrat; Linden, Anthony; Villalgordo, José M.

From: **Tetrahedron: Asymmetry (1999), 10(17), 3417-3430**

30. A new class of fused imidazoles by intramolecular nucleophilic ipso-substitution in 2-(alkylsulfonyl)imidazoles. Synthesis of 2,3-dihydroimidazo[2,1-b][1,3]oxazoles

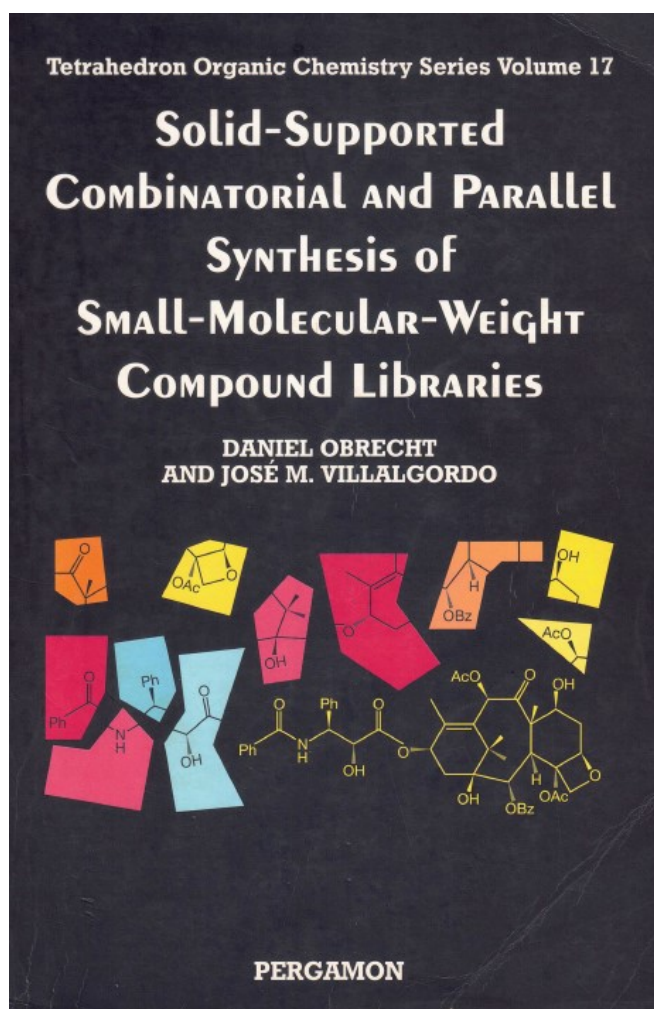
By: Heras, Montserrat; Ventura, Montserrat; Linden, Anthony; Villalgordo, José M.

From: **Synthesis (1999), (9), 1613-1624**

31. Solid-Supported Combinatorial and Parallel Synthesis of Small-Molecular-Weight Compound Libraries

By Obrecht Daniel; Villalgordo, José M.

From Tetrahedron Organic Chemistry Series, Volume 17 (1998), [Pergamon, Elsevier Book]



32. Solid-Phase Synthesis of 3*H*-Quinazolin-4-ones Based on an Aza Wittig-Mediated annulation Strategy.

By: Villalgordo, José M.; Obrecht, Daniel; Chucholowsky, Alexander.

From: **Synlett (1998), (9), 1405-1407**

33. Combinatorial organic Synthesis and the lead discovery process

By: Villalgordo, José M.

From: **Methods and Findings in Experimental and Clinical Pharmacology (1997), 19(Suppl. A), 37-41.**

34. Synthesis of cyclic depsipeptides and peptides via direct amide cyclization

By: Villalgordo, José M.; Heimgartner, Heinz

From: **Helvetica Chimica Acta (1997), 80(3), 748-766**

35. A novel and efficient approach for the combinatorial synthesis of structurally diverse pyrimidines on solid support

By: Obrecht, Daniel; Abrecht, Christine; Grieder, Alfred; Villalgordo, José M.

From: **Helvetica Chimica Acta (1997), 80(1), 65-72**

36. Novel solution- and solid-phase strategies for the parallel and combinatorial synthesis of low-molecular-weight compound libraries

By: Chucholowski, Alexander; Masquelin, Thierry; Obrecht, Daniel; Stadlwieser, Josef; Villalgordo, José M.

From **Chimia (1996), 50(11), 525-530**

37. A novel amination reaction with diphenyl phosphorazidate: Synthesis of α -amino-acid derivatives

By: Villalgordo, José M.; Linden, Anthony; Heimgartner, Heinz

From: **Helvetica Chimica Acta (1996), 79(1), 213-19**

38. Diazo-transfer reaction with diphenyl phosphorazidate

By: Villalgordo, José M.; Enderli, Adelheid; Linden, Anthony; Heimgartner, Heinz

From: **Helvetica Chimica Acta (1995), 78(8), 1983-98**

39. *exo,exo*-2-Amino-3-borneol-derived oxazolidinone as a new chiral auxiliary for use in asymmetric transformations

By: Palomo, Claudio; Berree, Fabienne; Linden, Anthony; Villalgordo, José M.

From: **Journal of the Chemical Society, Chemical Communications (1994), (16), 1861-2**

40. A novel synthesis of 2,2-disubstituted 3-amino-2H-azirines based on the reaction between amide enolates and diphenyl phosphorochloridate

By: Villalgordo, José M.; Heimgartner, Heinz

From: **Helvetica Chimica Acta (1993), 76(8), 2830-7**

41. Synthesis of a novel heterospirocyclic 3-(N-methyl-N-phenylamino)-2H-azirine and its use as an amino acid equivalent in the preparation of a model tripeptide

By: Villalgordo, José M.; Heimgartner, Heinz

From: **Tetrahedron (1993), 49(33), 7215-22**

42. Reactions of 2-monosubstituted 3-amino-2H-azirines with NH-acidic heterocycles

By: Villalgordo, José M.; Linden, Anthony; Heimgartner, Heinz

From: **Helvetica Chimica Acta (1992), 75(7), 2270-82**

43. Reaction of diphenyl phosphorochloridate with amide enolates: a new and convenient synthesis of 2-monosubstituted 3-(N-methyl-N-phenylamino)-2H-azirines

By: Villalgordo, José M.; Heimgartner, Heinz

From: **Helvetica Chimica Acta (1992), 75(6), 1866-71**

44. Reaction of 3-amino-2H-azirines with 2-amino-4,6-dinitrophenol (picramic acid). Synthesis of quinoxaline- and 1,3-benzoxazole derivatives

By: Villalgordo, José M.; Vincent, Beverly R.; Heimgartner, Heinz

From: **Helvetica Chimica Acta (1990), 73(4), 959-74**

45. Fused thiazoles from 3-amino-2-thioxo-2,3-dihydrothiazoles. Synthesis of mesoionic thiazolo[2,3-b]-1,3,4-thiadiazoles and 2,3-dihydro-4H-thiazolo[2,3-b][1,3,4]thiadiazin-5-ium derivatives

By: Molina, P.; Arques, A.; Velasco, M. D.; Villalgordo, José M.

From: **Synthesis (1988), (9), 729-33**

46. Fused thiazoles from 3-aminothiazoline-2-thiones. Synthesis of pyrazolo[5,1-b]thiazole and thiazolo[2,3-b]-1,3,4-thiadiazine derivatives

By: Molina, Pedro; Arques, Antonio; De los Desamparados Velasco, Maria; Villalgordo, José M.

From: **Heterocycles (1987), 26(5), 1323-32**

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