

FRONT COVERS



PUBLICATIONS

- 52 L.C.P. Gonçalves, O. Rastoin, V. Morozova, C. Buzet, A. Bennetot, G. Pagès, **C. Ronco***, M. Dufies*. “*STK17A (DRAK1) at the crossroads of apoptosis, immunity, and cancer: Emerging roles and therapeutic opportunities*”. *Theranostics*, **2026**, 16, 5830. doi.org/10.7150/thno.129910
- 51 L.C.P. Gonçalves, Z. Moutaoukil, J. A. Garcia-Sanchez, S. Khemiri, R. Benhida, P. Meola, P. Munro, R. Ruimy, L. Boyer, **C. Ronco***. “*Discovery and Optimization of a Trichloroacetamide Scaffold as a Novel Antibacterial against Multidrug-Resistant Staphylococcus aureus*”. *ACS Med. Chem. Lett.*, **2026**, 17, 825. [doi/10.1021/acsmchemlett.5c00650](https://doi.org/10.1021/acsmchemlett.5c00650)
- 50 J. El Bakali†, **C. Ronco†**, V. Landry, K.D. Papavasileiou, M. Papadourakis, S. Warenghem, F. Leroux, J. Charton, J. Dumont, C. Piveteau, B. Staels, A. Afantitis, N. Hennuyer, B. Deprez*, D. Bosc, R. Deprez-Poulain*. “*Discovery of pyrimidine-based small activators of insulin degrading enzyme*”. *Eur. J. Med. Chem.*, **2026**, 309, 118740. doi.org/10.1016/j.ejmech.2026.118740
- 49 J. Le Du and **C. Ronco***. “*Therapeutic strategies targeting ocular vasculopathies: Current advances and emerging challenges*”. *Drug Discov. Today* **2025**, 30, 104496. [doi: 10.1016/j.drudis.2025.104496](https://doi.org/10.1016/j.drudis.2025.104496)
- 48 O. Grytsai†, N. Hamouda-Tekaya, L. C. P. Gonçalves, R. Bardovskyi, P. Abbe, R. Benhida*, S. Rocchi*, **C. Ronco***. “*Optimised arylbiamidine derivative as potent in vivo antimelanoma agent: Drug-to-target approach reveals nanomolar GSK3β inhibition*”. *Bioorg Chem.* **2025**, 158, 108315. doi.org/10.1016/j.bioorg.2025.108315
- 47 O. Grytsai†, M. Dufies†, J. Le Du, L. C. P. Gonçalves, L. Mateo, S. Lacas-Gervais, Y. Cao, L. Demange, G. Pages*, R. Benhida*, **C. Ronco***. “*Optimized ELR+CXCL-CXCR1/2 Pathway Inhibitor: A Potent Solution for Tumor Growth and Angiogenesis Suppression*”. *ACS. Med. Chem. Lett.* **2024**, 15, 845–856. – **Selected for journal Front Cover.** [doi: 10.1021/acsmchemlett.4c00053](https://doi.org/10.1021/acsmchemlett.4c00053)
- 46 C. Montemagno, A. Jacquél, C. Pandiani, O. Rastoin, R. Dawaliby, T. Schmit, M. Bourgoïn, H. Palenzuela, A.-L. Rossi, J. Durivault, W. Echavidre, D. Ambrosetti, F. Luciano, D. Borchiellini, J. Le Du, L. C. P. Gonçalves, P. Auberger, R. Benhida, B. Benoit, **C. Ronco**, G. Pagès*, M. Dufies*. “*Unveiling CXCR2 as a Promising Therapeutic Nexus in Renal Cell Carcinoma: Exploring the Immunotherapeutic Paradigm Shift through its Inhibition by RCT001*”. *J. Exp. Clin. Cancer. Res.* **2024**, 43, 86. [doi: 10.1186/s13046-024-02984-2](https://doi.org/10.1186/s13046-024-02984-2)

- 45 O. Grytsai, N. Hamouda-Tekaya, T. Botton, S. Rocchi, R. Benhida*, **C. Ronco***. "Design, Synthesis and Biological Evaluation of Novel Anticancer Amidinourea Analogues via Unexpected 1,3,5-Triazin-2-one Ring Opening". *ChemMedChem*, **2024**, 19, e202300493. [doi: 10.1002/cmdc.202300493](https://doi.org/10.1002/cmdc.202300493) - Selected as « V.I.P. Paper ». Highlighted in [Chemistry Views](#).
- 44 M. Pierre*, D. Lamaa, M. Fabre, **C. Ronco**, R. Benhida, L. Demange, C. Charrueau. "Topical treatment for age-related macular degeneration: Where are we now?". *Medecine Sciences* **2023**, 39, 958. [doi: 10.1051/medsci/2023177](https://doi.org/10.1051/medsci/2023177)
- 43 R. Bardovskyi, **C. Ronco***, R. Benhida*. "Synthesis, characterization and uptake studies of diglycolamic acid and diglycolamide analogs adsorbents for extraction of rare earth elements". *Minerals Engineering* **2023**, 204, 108313. [doi: 10.1016/j.mineng.2023.108313](https://doi.org/10.1016/j.mineng.2023.108313)
- 42 M. Penco-Campillo, C. Molina, P. Piris, N. Soufi, M. Carré, M. Pagnuzzi-Boncompagni, V. Picco, M. Dufies, **C. Ronco**, R. Benhida, S. Martial,* G. Pagès*. "Targeting of the ELR+CXCL/CXCR1/2 Pathway Is a Relevant Strategy for the Treatment of Paediatric Medulloblastomas". *Cells* **2022**, 11, 3933. [doi: 10.3390/cells11233933](https://doi.org/10.3390/cells11233933)
- 41 M. Fabre, L. Mateo, S. Baillif, G. Pagès, L. Demange*, **C. Ronco***, R. Benhida*. "Recent advances in age-related macular degeneration therapies". *Molecules* **2022**, 16, 5089. [doi: 10.3390/molecules27165089](https://doi.org/10.3390/molecules27165089)
- 40 M. Safir Filho, L. Massi, A. Millet, D. Michel, W. Moussa, **C. Ronco***, R. Benhida*. "Energy-Resolved Mass Spectrometry to investigate nucleobase triplexes - a study applied to triplex-forming artificial nucleobase". *New Journal of Chemistry* **2022**, 46, 8112-8121. [doi: doi.org/10.1039/D2NJ00665K](https://doi.org/10.1039/D2NJ00665K)
- 39 Z. Moutaoukil, **C. Ronco***, R. Benhida*. "One-pot synthesis of dihydropyrimidines via eco-friendly phosphorus derivatives catalysis". *Journal of Saudi Chemical Society* **2022**, 26, 101398. [doi: 10.1016/j.jscs.2021.101398](https://doi.org/10.1016/j.jscs.2021.101398)
- 38 O. Grytsai, L.C.P. Gonçalves, R. Bardovskyi, N. Hamouda-Tekaya, S. Rocchi*, **C. Ronco***, R. Benhida*. "Arylbiamidines: synthesis and structural studies en route to anticancer applications". *New Journal of Chemistry* **2021**, 45, 11893-11897. – Selected for journal Front Cover. [doi: 10.1039/D1NJ01943K](https://doi.org/10.1039/D1NJ01943K)
- 37 O. Grytsai, I. Myroskova, S. Rocchi*, **C. Ronco***, R. Benhida*. "Biguanides drugs: past success stories and promising future for cancer therapy". *European Journal of Medicinal Chemistry* **2021**, 224, 113726. [doi: 10.1016/j.ejmech.2021.113726](https://doi.org/10.1016/j.ejmech.2021.113726).
- 36 C. Montemagno, B. Serrano, J. Durivault, V. Nataf, F. Mocquot, R. Amblard, V. Vial, **C. Ronco**, R. Benhida, M. Dufies, M. Faraggi, G. Pagès*. "In vivo monitoring of the therapeutic efficacy of a CXCR1/2 inhibitor with 18F-FDG PET/CT imaging in experimental head and neck carcinoma: A feasibility study". *Biochemistry and Biophysics Reports* **2021**, 27, 101098. [doi:10.1016/j.bbrep.2021.101098](https://doi.org/10.1016/j.bbrep.2021.101098).
- 35 R. Bardovskyi, M. Fabre, **C. Ronco***, R. Benhida*. "Mild biamidine transfer conditions for the synthesis of aliphatic biguanides". *SynOpen* **2021**, 5, 314-320. [doi: 10.1055/a-1681-4544](https://doi.org/10.1055/a-1681-4544)
- 34 A. Millet, M. Safir Filho, N. Hamouda-Tekaya, E. Cavazza, P. Abbe, J. Rüdiger, M. Plaisant, J. Mayen, S. Rocchi*, **C. Ronco***, R. Benhida*. "Development and in vivo evaluation of fused benzazole analogues of anti-melanoma agent HA15". *Future Medicinal Chemistry* **2021**, 13, 1157-1173. [doi: 10.4155/fmc-2021-0001](https://doi.org/10.4155/fmc-2021-0001)
- 33 O. Grytsai, **C. Ronco***, R. Benhida. "Synthetic accesses to biguanide compounds". *Beilstein Journal of Organic Chemistry*, **2021**, 17, 1001–1040. [doi: 10.3762/bjoc.17.82](https://doi.org/10.3762/bjoc.17.82).
- 32 E. Jaune, E. Cavazza, **C. Ronco**, O. Grytsai, P. Abbe, N. Tekaya, M. Zerhouni, L.

- Kaminski, F. Bost, M. Gesson, M. Tulic, T. Passeron, R. Ballotti, T. Botton, R. Benhida*, S. Rocchi*. "Discovery of a new molecule derived from biguanides inducing melanoma cell death: targeting MELK for novel melanoma therapies". *Cell Death & Disease* **2021**, 12, 64. [doi: 10.1038/s41419-020-03344-6](https://doi.org/10.1038/s41419-020-03344-6)
- 31 O. Grytsai†, O. Valiashko†, M. Penco-Campillo, M. Dufies, A. Hagege, S. Martial, G. Pagès, **C. Ronco***, R. Benhida*. "Synthesis and biological evaluation of 3-amino-1,2,4-triazole derivatives as potential anticancer compounds". *Bioorganic Chemistry* **2020**, 104, 104271. [doi: 10.1016/j.bioorg.2020.104271](https://doi.org/10.1016/j.bioorg.2020.104271)
- 30 R. Bardovskyi, O. Grytsai, **C. Ronco***, R. Benhida*. "Synthesis and Characterization of new Heterocycles related to Aryl[e][1,3]diazepinediones. Rearrangement to 2,4-Diamino-1,3,5-triazine Derivatives". *New Journal of Chemistry* **2020**, 44, 8171-8175. – **Selected for journal Front Cover.** [doi: 10.1039/D0NJ01229G](https://doi.org/10.1039/D0NJ01229G)
- 29 T. Baladi, N. Hamouda-Tekaya, L.C. Pires Gonçalves, S. Rocchi,* **C. Ronco***, R. Benhida*. "Sulfonylguanidines derivatives as potential anti-melanoma agents". *ChemMedChem*, **2020**, 15, 1113-1117. [doi: 10.1002/cmdc.202000218](https://doi.org/10.1002/cmdc.202000218)
- 28 E. Brachet†, A. Dumond†, W.-Q. Liu†, M. Fabre†, M. Selkti, F. Raynaud, O. Hermine, R. Benhida, P. Belmont, C. Garbay, Y. Lepelletier, **C. Ronco**, G. Pagès, L. Demange*. "Syntheses and pharmacokinetics studies on the promising anti-cancer agent NRPa-308". *Bioorganic & Medicinal Chemistry Letters* **2019**, 29, 126710. [doi: 10.1016/j.bmcl.2019.126710](https://doi.org/10.1016/j.bmcl.2019.126710)
- 27 M. Dufies†, O. Grytsai†, **C. Ronco†**, O. Camara, D. Ambrosetti, J. Parola, L. Mateo, S. Giuliano, R. Grepin, P. Auberger, L. Demange*, G. Pages*, R. Benhida*. "Discovery of a new CXCR1/CXCR2 antagonist with potent in vivo anti-angiogenic and anti-proliferative activities". *Theranostics*, **2019**, 9, 5332–5346. [doi: 10.7150/thno.34681](https://doi.org/10.7150/thno.34681)
- 26 A. Oberheide, S. Schwenk, **C. Ronco**, L. M. Semmrau, H. Görls, H.-D. Arndt*. "Synthesis, Structure and Cytotoxicity of Urukthapelstatin A Polyazole Cyclopeptides". *European Journal of Organic Chemistry* **2019**, 4320-4326. doi.org/10.1002/ejoc.201900206 – **Selected for journal Front Cover.**
- 25 O. Grytsai†, T. Druzhenko†, L. Demange, **C. Ronco***, R. Benhida*. "Cyanoguanidine as a versatile, eco-friendly and inexpensive reagent for the synthesis of 2-aminobenzoxazoles and 2-guanidinobenzoxazoles". *Tetrahedron Letters* **2018**, 59, 1642-1645. doi.org/10.1016/j.tetlet.2018.03.036
- 24 **C. Ronco**, S. Rocchi., R. Benhida. "HA15, nouvelle molécule qui pousse les cellules cancéreuses au suicide. Du diabète au mélanome : découverte d'une famille de molécules actives aux pouvoirs surprenants". *L'Actualité Chimique*, **2018**, 429, 25-31. www.lactualitechimique.org/HA15
- 23 **C. Ronco**, S. Rocchi, R. Benhida. "Expression level of GRP78/BiP as a predictor of favorable or unfavorable outcomes in cancer patients". *Mediastinum* **2018**, 2, 26 dx.doi.org/10.21037/med.2018.03.18.
- 22 C. Ruggiero, M. Doghman-Bouguerra, **C. Ronco**, R. Benhida, S. Rocchi, E. Lalli. "The GRP78/BiP inhibitor HA15 synergizes with mitotane action against adrenocortical carcinoma cells through convergent activation of ER stress pathways". *Molecular and Cellular Endocrinology* **2018**, 474, 57-64. [doi: 10.1016/j.mce.2018.02.010](https://doi.org/10.1016/j.mce.2018.02.010)
- 21 P. Hermant, D. Bosc; C. Piveteau, R. Gealageas, B.V. Lam, **C. Ronco**, M. Roignant, H. Tolajanahary, L. Jean, P.-Y. Renard, M. Mohamed, M. Bourotte, A. Herledan, C. Bedart, A. Biela, F. Leroux, B. Deprez, R. Deprez-Poulain "Controlling Plasma Stability of Hydroxamic Acids: A MedChem Toolbox". *Journal of Medicinal Chemistry* **2017**, 60, 9067-9089. [doi: 10.1021/acs.jmedchem.7b01444](https://doi.org/10.1021/acs.jmedchem.7b01444)
- 20 A.R. Martin, **C. Ronco**, L. Demange, R. Benhida. "Hypoxia inducible factor down-

- regulation, cancer and cancer stem cells (CSCs): ongoing success stories". *MedChemComm* **2017** [doi: 10.1039/c6md00432f](https://doi.org/10.1039/c6md00432f)
- 19 **C. Ronco**, A.R. Martin, L. Demange, R. Benhida. "ATM, ATR, CHK1, CHK2 and WEE1 inhibitors in cancer and cancer stem cells" *MedChemComm* **2017** [doi: 10.1039/C6MD00439C](https://doi.org/10.1039/C6MD00439C)
- 18 **C. Ronco**, A. Millet, M. Plaisant, P. Abbe, S. Rocchi, R. Benhida. "Structure activity relationships and optimization of N-(4-(3-aminophenyl(thiazol-2-yl)acetamides as anti-cancer compounds against sensitive and resistant cells". *Bioorganic & Medicinal Chemistry Letters* **2017**, 27, 2192-2196 [doi: 10.1016/j.bmcl.2017.03.054](https://doi.org/10.1016/j.bmcl.2017.03.054)
- 17 A. Millet^T, M. Plaisant^T, **C. Ronco**^T, M. Cerezo, P. Abbe, E. Jaune, E. Cavazza, S. Rocchi, R. Benhida. "Discovery and optimization of N-(4-(3-aminophenyl(thiazol-2-yl)acetamide as a novel scaffold active against sensitive and resistant cancer cells". *Journal of Medicinal Chemistry* **2016**, 59, 8276-8292. [doi: 10.1021/acs.jmedchem.6b00547](https://doi.org/10.1021/acs.jmedchem.6b00547)
- 16 M. Cerezo, A. Lehraiki, A. Millet, F. Rouaud, M. Plaisant, E. Jaune, T. Botton, **C. Ronco**, P. Abbe, H. Amdouni, T. Passeron, V. Hofman, B. Mograbi, A.-S. Dabert-Gay, D. Debayle, D. Alcor, N. Rabhi, J.-S. Annicotte, L. Héliot, M. Gonzalez-Pisfil, C. Robert, S. Moréra, A. Virougoux, P. Gual, M. M.U. Ali, C. Bertolotto, P. Hofman, R. Ballotti, R. Benhida, S. Rocchi. "Compounds Triggering ER Stress Exert Anti-Melanoma Effects and Overcome BRAF Inhibitor Resistance". *Cancer Cell* **2016**, 29, 1-15. [doi: 10.1016/j.ccell.2016.04.013](https://doi.org/10.1016/j.ccell.2016.04.013) – **Highlighted in W. Xu, L. Neckers "Gr(i)p the ER to Stress Out Melanoma" *Cancer Cell Previews* 2016, 29, 769-770**
- 15 S. Schwenk, **C. Ronco**, A. Oberheide, H.-D. Arndt. "Biomimetic synthesis of urukthapelstatin A by Aza-Wittig ring contraction". *European Journal of Organic Chemistry* **2016**, 4795-4799. [doi: 10.1002/ejoc.201600994](https://doi.org/10.1002/ejoc.201600994)
- 14 A. Millet, **C. Ronco**, A.R. Martin, S. Rocchi, R. Benhida. "Metastatic Melanoma: Insights Into the Evolution of the Treatments and Future Challenges". *Medicinal Research Reviews* **2017**, 37, 98-148. [doi: 10.1002/med.21404](https://doi.org/10.1002/med.21404)
- 13 J. Charton, M. Gauriot, J. Totobenazara, N. Hennuyer, J. Dumont, D. Bosc, X. Marechal, J. Elbakali, A. Herledan, X. Wen, **C. Ronco**, H. Gras-Masse, A. Heninot, V. Pottiez, V. Landry, B. Staels, W.G. Liang, F. Leroux, W.-J. Tang, B. Deprez, R. Deprez-Poulain. "Structure-activity relationships of imidazole-derived 2-[N-carbamoylmethyl-alkylamino]acetic acids, dual binders of human insulin-degrading enzyme". *European Journal of Medicinal Chemistry*. **2015**, 90, 547-567. [doi:10.1016/j.ejmech.2014.12.005](https://doi.org/10.1016/j.ejmech.2014.12.005)
- 12 E. Oueis, G. Santoni, **C. Ronco**, O. Syzgantseva, V. Tognetti, L. Joubert, A. Romieu, M. Weik, L. Jean, C. Sabot, F. Nachon, P.-Y. Renard. "Reaction site-driven regioselective synthesis of AChE inhibitors". *Organic & Biomolecular Chemistry* **2014**, 12, 156-161. [doi: 10.1039/c3ob42109k](https://doi.org/10.1039/c3ob42109k)
- 11 P. Loos, **C. Ronco**, M. Riedrich, H.-D. Arndt, "Unified Azoline and Azole Syntheses by Optimized Aza-Wittig Chemistry". *European Journal of Organic Chemistry* **2013**, 3290-3315. [doi: 10.1002/ejoc.201300160](https://doi.org/10.1002/ejoc.201300160)
- 10 F. Nachon, E. Carletti, **C. Ronco**, M. Trovaslet, Y. Nicolet, L. Jean, P.-Y. Renard, "Crystal Structures of Human Cholinesterases in Complex with Huprine W and Tacrine: Elements of Specificity for Anti-Alzheimer's Drugs Targeting Acetyl- and Butyrylcholinesterase". *Biochemical Journal* **2013**, 453, 393-399. [doi: 10.1042/BJ20130013](https://doi.org/10.1042/BJ20130013).
- 9 X. Brazzolotto, M. Wandhammer, **C. Ronco**, M. Trovaslet, L. Jean, O. Lockridge, P.-Y. Renard, F. Nachon". *FEBS Journal* **2012**, 279, 2905-2916. [doi: 10.1111/j.1742-4658.2012.08672.x](https://doi.org/10.1111/j.1742-4658.2012.08672.x)

- 8 A. Ziemianin, **C. Ronco**, R. Dole, L. Jean, P.-Y. Renard, C.M. Lange, "Screening of new Huprine Inhibitors of Acetylcholinesterases by Electrospray Ionization Ion Trap Mass Spectrometry". *Journal of Pharmaceutical and Biomedical Analysis* **2012**, 70, 1-5. [doi: 10.1016/j.jpba.2012.01.038](https://doi.org/10.1016/j.jpba.2012.01.038)
- 7 **C. Ronco**, E. Carletti, J.-P. Colletier, M. Weik, F. Nachon, L. Jean, P.-Y. Renard, "Huprine Derivatives as Sub-Nanomolar Human Acetylcholinesterase Inhibitors: From Rational Design to Validation by X-ray Crystallography". *ChemMedChem* **2012**, 7, 400-405. [doi: 10.1002/cmdc.201100438](https://doi.org/10.1002/cmdc.201100438) - Selected as « V.I.P. Paper »
- 6 **C. Ronco**, R. Foucault, E. Gillon, P. Bohn, F. Nachon, L. Jean, P.-Y. Renard, "New Huprine Compounds Functionalized at Position 9 as Highly Potent Acetylcholinesterase Inhibitors". *ChemMedChem* **2011**, 6, 876-888. [doi: 10.1002/cmdc.200](https://doi.org/10.1002/cmdc.200)
- 5 **C. Ronco**, L. Jean, H. Outaabout, P.-Y. Renard. "Palladium-Catalyzed Preparation of N-Alkylated Tacrine and Huprine Compounds". *European Journal of Organic Chemistry* **2011**, 2, 302-310. [doi: 10.1002/ejoc.201001158](https://doi.org/10.1002/ejoc.201001158)
- 4 **C. Ronco**, L. Jean, P.-Y. Renard. "Improved Synthetic Pathway for the Derivatization of Huprine Scaffold", *Tetrahedron* **2010**, 66, 7399-7404. [doi: 10.1016/j.tet.2010.07.021](https://doi.org/10.1016/j.tet.2010.07.021)
- 3 N. Khreich, P. Lamourette, B. Lagoutte, **C. Ronco**, X. Franck, C. Créminon, H. Volland. "A Fluorescent Immunochromatographic Test using Immunoliposomes for Detecting Microcystins and Nodularins". *Analytical and Bioanalytical Chemistry* **2010**, 397, 1733-1742. [doi: 10.1007/s00216-009-3348-x](https://doi.org/10.1007/s00216-009-3348-x)
- 2 G. Clavé, **C. Ronco**, H. Boutal, N. Khreich, H. Volland, X. Franck, A. Romieu, P.-Y. Renard. "Facile and Rapid Access to Linear and Truncated Microcystin Analogues for the Implementation of Immunoassays". *Organic & Biomolecular Chemistry* **2010**, 8, 676-690. [doi: 10.1039/b920193a](https://doi.org/10.1039/b920193a) - Selected as « Hot Article 2010 »
- 1 **C. Ronco**, G. Sorin, F. Nachon, R. Foucault, L. Jean, A. Romieu, P.-Y. Renard. "Synthesis and Structure Activity Relationship of Huprines Derivatives as Human Acetylcholinesterase Inhibitors", *Bioorganic & Medicinal Chemistry* **2009**, 17, 4523-4536. [doi: 10.1016/j.bmc.2009.05.005](https://doi.org/10.1016/j.bmc.2009.05.005)

BOOK

- 1 **C. Ronco**. "Ligands de l'acétylcholinestérase humaine pour la chimie click *in situ*". Éditions universitaires européennes. ISBN-13: 978-3841615145 – 2016.