

Scientific production - Publications

Year	Title and Authors	Journal	
2023	Synthesis, photophysics, and theoretical calculations of styryl-based fluorophores harboring substituted benzothiazole acceptors Filho, M. S.; Moraes, E. S.; da Luz, L. C.; da Silveira Santos, F.; Martin, A. R.; Benhida, R.; Duarte, L. G. T. A.; Rodembusch, F. S.	<i>Journal of Photochemistry and Photobiology A: Chemistry.</i> 435, 114287.	Article
2022	Kinetics and mechanisms of leaching of rare earth elements from secondary resources Ait Brahim, J.; Ait Hak, S.; Achiou, B.; Boulif, R.; Beniazza, R.; Benhida, R.	<i>Miner. Eng.</i> 177, 107351.	Article
2022	Study on the kinetics of the conversion of Moroccan phosphogypsum into X₂SO₄ (X = Na, NH₄) Agayr, K.; Chanouri, H.; Achiou, B.; Benhida, R.; Khaless, K.	<i>Journal of Material Cycles and Waste Management.</i> 24, 2015-2029.	Article
2022	Wet Process Phosphoric Acid Purification Using Functionalized Organic Nanofiltration Membrane Khaless, K.; Chanouri, H.; Amal, S.; Ouaattou, A.; Mounir, E. M.; Haddar, H.; Benhida, R.	<i>Separations.</i> 9(4), 100	Article
2022	Development of a simple and fast ultrasound-assisted extraction method for iodine determination in phosphate rock and phosphogypsum by-product using titrimetric method Benali, K.; Kounbach, S.; Boulif, R.; Benhida, R.; Khaless, K.	<i>Int. J. Environ. Anal. Chem.</i> 1-17.	Article

2022	Photochemical Alkene Hydrophosphination with Bis(trichlorosilyl)phosphine Geeson, M. B.; Tanaka, K.; Taakili, R.; Benhida, R.; Cummins, C. C.	<i>J. Am. Chem. Soc.</i> 144 , 14452-14457.	Article
2022	Recent advances in age-related macular degeneration therapies M. Fabre, L. Mateo, S. Baillif, G. Pagès, L. Demange, C. Ronco, R. Benhida	<i>Molecules</i> . 16 , 5089.	Article
2022	Energy-Resolved Mass Spectrometry to investigate nucleobase triplexes - a study applied to triplex-forming artificial nucleobase". <i>New Journal of Chemistry</i> M. Safir Filho, L. Massi, A. Millet, D. Michel, W. Moussa, C. Ronco, R. Benhida	<i>New Journal of Chemistry</i> . 46 , 8112-8121.	Article
2022	One-pot synthesis of dihydropyrimidines via eco-friendly phosphorus derivatives catalysis Z. Moutaoukil, C. Ronco, R. Benhida	<i>Journal of Saudi Chemical Society</i> . 26 , 101398.	Article
2021	Arylbiamidines: synthesis and structural studies en route to anticancer applications O. Grytsai, L.C.P. Gonçalves, R. Bardovskyi, N. Hamouda-Tekaya, S. Rocchi, C. Ronco, R. Benhida	<i>New Journal of Chemistry</i> . 45 , 11893-11897.	Article

2021	Biguanides drugs: past success stories and promising future for cancer therapy O. Grytsai, I. Myroskova, S. Rocchi, C. Ronco, R. Benhida	<i>European Journal of Medicinal Chemistry</i> . 224, 113726.	Article
2021	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 Montemagno, C.; Serrano, b.; durivault, J.; Nataf, V.; Mocquot, .; Amblard, R.; Vial, V.; Ronco, C.; Benhida, R.; Dufies, M.; Faraggi, M.; Pagès, G.	<i>Biochem. Biophys. Rep.</i> 27, 101098.	Article
2021	A simple and fast spectroscopy-based technique for Covid-19 diagnosis Kitane, dl.; Loukman, S.; Marchoudi, N.; Fernandez-Galiana, A.; El Ansari, Fz.; Jouali, F.; Badir, J.; Gala, Jl.; Bertsimas, D.; Azami, N.; Lakbita, O.; Moudam, O.; Benhida, R.	<i>J. Sci. Rep.</i> 11, 16740-16750.	Article
2021	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 C. Montemagno, B. Serrano, J. Durivault, V. Nataf, F. Mocquot, R. Amblard, V. Vial, C. Ronco, R. Benhida, M. Dufies, M. Faraggi, G. Pagès	<i>Biochemistry and Biophysics Reports</i> . 27, 101098.	Article
2021	Mild biamidine transfer conditions for the synthesis of aliphatic biguanides R. Bardovskyi, M. Fabre, C. Ronco, R. Benhida	<i>SynOpen</i> . 5, 314-320.	Article

	Dual Covalent Inhibition of PKM and IMPDH Targets Metabolism in Cutaneous Metastatic Melanoma		
2021	Zerhouni, M.; Martin, Ar.; Furstoss, N.; Gutierrez, Vs.; Jaune, E.; Tekaya, N.; Beranger, Ge.; Abbe, P.; Regazzetti, C.; Amdouni, H.; Driowya, M.; Dubreuil, P.; Luciano, F.; Jacquiel, A.; Tulic, Mk.; Cluzeau, T.; O'hara, Bp.; Ben-sahra, I.; Passeron, T.; Benhida, R.; Robert, G.; Auberger, P.; Rocchi, S.	<i>Cancer Res.</i> 81, 3806-3821.	Article
	Development and in vivo evaluation of fused benzazole analogues of anti-melanoma agent HA15		
2021	A. Millet, M. Safir Filho, N. Hamouda-Tekaya, E. Cavazza, P. Abbe, J. Rüdiger, M. Plaisant, J. Mayen, S. Rocchi*, C. Ronco, R. Benhida	<i>Future Medicinal Chemistry.</i> 13, 1157-1173.	Article
	Synthetic accesses to biguanide compounds		
2021	O. Grytsai, C. Ronco, R. Benhida	<i>Beilstein Journal of Organic Chemistry;</i> 17, 1001–1040.	Article
	Discovery of a new molecule derived from biguanides inducing melanoma cell death: targeting MELK for novel melanoma therapies		
2021	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	<i>Cell Death & Disease.</i> 12, 64.	Article
	Development of in-House Industrial Fluosilicic Acid Certified Reference Material: Certification of H₂SiF₆ Mass Fraction		
2021	Kounbach, S.; Ben Embarek, M.; Chemaa, A.; Boulif, R.; Benhida, R.; Beniazza, R	<i>Minerals.</i> 11, 92.	Article

2021	Recycling of Spent Reverse Osmosis Membranes for Second Use in the Clarification of Wet-Process Phosphoric Acid Khaless, K.; Achiou, B.; Boulif, B.; Benhida, R.	<i>Minerals. 11, 637.</i>	Article
2021	Preparation and characterization of low-cost zirconia/clay membrane for removal of acid orange 74 dye Elomari, H.; Achiou, B.; Beqqour, D.; Khaless, K.; Beniazza, R.; Ouammou, R.; Aaddane, A.; Alami Younssi S.; Benhida, R.	<i>Materials Today. 51, 1948-1956.</i>	Article
2021	Optimization of phosphate/kaolinite microfiltration membrane using Box-Behnken design for treatment of industrial wastewater Belgada, A. ; Charik F.z. ; Achiou, B. ; Kambuyi T.n. ; Younssi, S.a. ; Beniazza, R. ; Dani, A. ; Benhida, R. ; Ouammou, M.	<i>Journal of Environmental Chemical Engineering. 9, 104972.</i>	Article
2021	Low-cost ceramic microfiltration membrane made from natural phosphate for pretreatment of raw seawater for desalination Belgada, A. ; Achiou, B.; Alami Younssi S.; Charik F.z. ; Ouammou, M.; Cody, J.A.; Benhida, R. ; Khaless, K.	<i>Journal of the European Ceramic Society. 41, 1613-1621.</i>	Article
2021	Straightforward synthetic route to gold(I)-thiolato glycoconjugate complexes bearing NHC ligands (NHC = N-heterocyclic carbene) and their promising anticancer activity M. Safir Filho; T. Scattolin; P. Dao; N. V. Tzouras; R. Benhida; M. Saab; K. Van Hecke; P. Lippmann; A. R. Martin; I. Ott; S. P. Nolan	<i>New. J. Chem. 45, 9995-10001.</i>	Article

2021	Arylbiamidines: synthesis and structural studies en route to anticancer applications O. Grytsai, L. C. P. Goncalves, R. Bardovskyi, N. Hamouda-Tekaya, S. Rocchi, C. Ronco, R. Benhida	<i>New. J. Chem.</i> 45, 11893-11897.	Article
2021	One-pot synthesis of dihydropyrimidines via eco-friendly phosphorus derivatives catalysis Z. Moutaoukil, C. Ronco, R. Benhida	<i>J. S. Chem.</i> 26, 101398-1013106.	Article
2021	Green and Efficient Four-Component Synthesis of 3,5-Disubstituted Isoxazoles- Sulfonates and Sulfonamides Using Metal-Free Catalyst and Ultrasonic Activation in Water A. Talha, H. Tachallait, R. Benhida, K. Bougrin	<i>Tetrahedron Lett.</i> 81, 153366-153370.	Article
2021	Ultrasound-assisted one-pot three-component synthesis of new isoxazolines bearing sulfonamides and their evaluation against hematological malignancies Talha, A.; Favreau, C.; Bourgoïn, M.; Robert, G.; Auberger, P.; El Ammari, L.; Saadi, M.; Benhida, R.; Martin, A. R.; Bougrin, K.	<i>Ultrason. Sonochem.</i> 78, 105748.	Article
2021	Mild biamidine transfer conditions for the synthesis of aliphatic biguanides Bardovskyi, R.; Fabre, M.; Ronco, C.; Benhida, R.	<i>SynOpen.</i> 05, 314-320.	Article

2020	Nitroreductase sensitive styryl-benzothiazole pro-fluorescent probes for the visualization of mitochondria under normoxic conditions Safir Filho, M.; Dao, P.; Martin, A. R.; Benhida, R.	<i>Journal of Photochemistry and Photobiology A: Chemistry.</i> 396, 112528	Article
2020	SARS-CoV-2 Genome Sequence from Morocco obtained Using Ion AmpliSeq Technology Jouali, F.; Marchoudi, N.; El Ansari Fatima, Z.; Kasmi, Y.; Chenaoui, M.; El Aliani, A.; Azami, N.; Loukman, S.; Ennaji Moulay, M.; Benhida, R.; Fekkak, J.	<i>Microbiology Resource Announcements.</i> 9, e00690-20.	Article
2020	Sulfonylguanidine Derivatives as Potential Antimelanoma Agents Baladi, T.; Hamouda-Tekaya, N.; Gonçalves, L. C. P.; Rocchi, S.; Ronco, C.; Benhida, R.	<i>ChemMedChem.</i> 15, 1113-1117.	Article
2020	Synthesis and biological evaluation of 3-amino-1,2,4-triazole derivatives as potential anticancer compounds Grytsai, O.; Valiashko, O.; Penco-Campillo, M.; Dufies, M.; Hagege, A.; Demange, L.; Martial, S.; Pagès, G.; Ronco, C.; Benhida, R.	<i>Bioorg. Chem.</i> 104, 104271.	Article
2020	Synthesis and characterization of new heterocycles related to aryl[e][1,3] diazepinediones. rearrangement to 2,4-diamino-1,3,5-triazine derivatives Bardovskyi, R.; Grytsai, O.; Ronco, C.; Benhida, R.	<i>New J. Chem.</i> 44, 8171-8175.	Article

2019	<p>Visualization of intracellular lipid droplets using lipophilic benzothiazole-based push-pull fluorophores at ultralow concentration</p> <p>Safir Filho, M.; Dao, P.; Martin, A. R.; Benhida, R.</p>	<i>Dyes Pigm.</i> 167, 68-76.	Article
2019	<p>A straightforward and versatile FeCl₃ catalyzed Friedel–Crafts C-glycosylation process. Application to the synthesis of new functionalized C-nucleosides</p> <p>Tachallait, H.; Safir Filho, M.; Marzag, H.; Bougrin, K.; Demange, L.; Martin, A. R.; Benhida, R.</p>	<i>New J. Chem.</i> 43, 5551-5558.	Article
2019	<p>GAPDH Overexpression in the T Cell Lineage Promotes Angioimmunoblastic T Cell Lymphoma through an NF-κB-Dependent Mechanism</p> <p>Mondragón, L.; Mhaidly, R.; De Donatis, G. M.; Tosolini, M.; Dao, P.; Martin, A. R.; Pons, C.; Chiche, J.; Jacquin, M.; Imbert, V.; Proïcs, E.; Boyer, L.; Doye, A.; Luciano, F.; Neels, J. G.; Coutant, F.; Fabien, N.; Sormani, L.; Rubio-Patiño, C.; Bossowski, J. P.; Muller, F.; Marchetti, S.; Villa, E.; Peyron, J.-F.; Gaulard, P.; Lemonnier, F.; Asnafi, V.; Genestier, L.; Benhida, R.; Fournié, J.-J.; Passeron, T.; Ricci, J.-E.; Verhoeyen, E.</p>	<i>Cancer Cell.</i> 36, 268-287.	Article
2019	<p>Synthesis, Structure and Cytotoxicity of Urukthapelstatin A Polyazole Cyclopeptides</p> <p>Oberheide, A.; Schwenk, S.; Ronco, C.; Semmrau, L. M.; Görls, H.; Arndt, H.-D.</p>	<i>Eur. J. Org. Chem.</i> 4320-4326.	Article

2019	Syntheses and pharmacokinetics studies on the promising anti-cancer agent NRPa-308 Brachet, E.; Dumond, A.; Liu, W.-Q.; Fabre, M.; Selkti, M.; Raynaud, F.; Hermine, O.; Benhida, R.; Belmont, P.; Garbay, C.; Lepelletier, Y.; Ronco, C.; Pagès, G.; Demange, L.	<i>Bioorg. Med. Chem. Lett.</i> 29, 126710.	Article
2019	New CXCR1/CXCR2 inhibitors represent an effective treatment for kidney or head and neck cancers sensitive or refractory to reference treatments Dufies, M.; Grytsai, O.; Ronco, C.; Camara, O.; Ambrosetti, D.; Hagege, A.; Parola, J.; Mateo, L.; Ayrault, M.; Giuliano, S.; Grépin, R.; Lagarde, N.; Montes, M.; Auberger, P.; Demange, L.; Benhida, R.; Pagès, G.	<i>Theranostics</i> 2019, 9 (18), 5332-5346.	Article
2018	Development of highly sensitive fluorescent probes for the detection of β-galactosidase activity – application to the real-time monitoring of senescence in live cells Safir Filho, M.; Dao, P.; Gesson, M.; Martin, A. R.; Benhida, R.	<i>Analyst.</i> 143, 2680-2688.	Article
2018	Cyanoguanidine as a versatile, eco-friendly and inexpensive reagent for the synthesis of 2-aminobenzoxazoles and 2-guanidinobenzoxazoles Grytsai, O.; Druzenko, T.; Demange, L.; Ronco, C.; Benhida, R.	<i>Tetrahedron Lett.</i> 59, 1642-1645.	Article
2018	The GRP78/BiP inhibitor HA15 synergizes with mitotane action against adrenocortical carcinoma cells through convergent activation of ER stress pathways Ruggiero, C.; Doghman-Bouguerra, M.; Ronco, C.; Benhida, R.; Rocchi, S.; Lalli, E.	<i>Mol. Cell. Endocrinol.</i> 474, 57-64.	Article
2018	A high-throughput screening of a chemical compound library in ovarian cancer stem cells	<i>Comb. Chem. High Throughput Screening.</i> 21, 50-56.	Article

	<p>Ricci, F.; Carrassa, L.; Christodoulou, S. M.; Passarella, D.; Michel, B.; Benhida, R.; Martinet, N.; Hunyadi, A.; Ioannou, E.; Roussis, V.; Musso, L.; Dallavalle, S.; Silvestri, R.; Westwood, N.; Mori, M.; Ingallina, C.; Botta, B.; Kavetsou, E.; Detsi, A.; Majer, Z.; Hudecz, F.; Bosze, S.; Kaminska, B.; Hansen, T. V.; Bertrand, P.; Athanassopoulos, M. C.; Damia, G.</p>	
2018	<p>Ultrasound-assisted facile one-pot sequential synthesis of novel sulfonamide-isoxazoles using cerium (IV) ammonium nitrate (CAN) as an efficient oxidant in aqueous medium</p> <p>Alaoui, S.; Driowya, M.; Demange, L.; Benhida, R.; Bougrin, K.</p>	<p><i>Ultrason. Sonochem.</i> 40, 289-297. Article</p>
2018	<p>NRPa-308, a new neuropilin-1 antagonist, exerts in vitro anti-angiogenic and anti-proliferative effects and in vivo anti-cancer effects in a mouse xenograft model</p> <p>Liu, W.-Q.; Lepelletier, Y.; Montès, M.; Borriello, L.; Jarray, R.; Grépin, R.; Leforban, B.; Loukaci, A.; Benhida, R.; Hermine, O.; Dufour, S.; Pagès, G.; Garbay, C.; Raynaud, F.; Hadj-Slimane, R.; Demange, L.</p>	<p><i>Cancer letters.</i> 414, 88-98. Article</p>
2018	<p>Modular synthesis of new C-aryl-nucleosides and their anti-CML activity</p> <p>Marzag, H., Zerhouni, M., Tachallait, H., Demange, L., Robert, G., Bougrin, K., Auberger, P., Benhida, R.</p>	<p><i>Bioorganic & medicinal chemistry letters</i>, 28(10), 1931–1936. Article</p>
2018	<p>Concise synthesis and antibacterial evaluation of novel 3-(1,4-disubstituted-1,2,3-triazolyl)uridine nucleosides</p> <p>Tachallait, H.; Bouyahya, A.; Talha, A.; Bakri, Y.; Dakka, N.; Demange, L.; Benhida, R.; Bougrin, K.</p>	<p><i>Archiv der Pharmazie.</i> 351, 1800204. Article</p>

2017	In Vitro and in Vivo Evaluation of Fully Substituted (5-(3-Ethoxy-3-oxopropynyl)-4-(ethoxycarbonyl)-1,2,3-triazolyl-glycosides as Original Nucleoside Analogues to Circumvent Resistance in Myeloid Malignancies	<i>J. Med. Chem.</i> 60, 1523-1533.	Article
	Amdouni, H.; Robert, G.; Driowya, M.; Furstoss, N.; Métier, C.; Dubois, A.; Dufies, M.; Zerhouni, M.; Orange, F.; Lacas-Gervais, S.; Bougrin, K.; Martin, A. R.; Auberger, P.; Benhida, R.		
2017	Design, synthesis and photophysical studies of styryl-based push-pull fluorophores with remarkable solvatofluorochromism	<i>New J. Chem.</i> 41, 13760-13772.	Article
	Safir Filho, M.; Fiorucci, S.; Martin, A. R.; Benhida, R.		
2017	Assessment of new triplet forming artificial nucleobases as RNA ligands directed towards HCV IRES IIIId loop	<i>Bioorganic & medicinal chemistry letters</i> , 27(8), 1780–1783.	Article
	Safir Filho, M., Martin, A. R., Benhida, R.		
2017	Synthesis and anti-cancer activities of new sulfonamides 4-substituted-1,2,3 triazolyl-nucleosides	<i>Bioorg. Med. Chem. Lett.</i> 27 9, 1989-1992.	Article
	Alaoui, S.; Dufies, M.; Driowya, M.; Demange, L.; Bougrin, K.; Robert, G.; Auberger, P.; Pagès, G.; Benhida, R.		
2017	Structure activity relationship and optimization of N-(3-(2-aminothiazol-4-yl)aryl)benzenesulfonamides as anti-cancer compounds against sensitive and resistant cells	<i>Bioorg. Med. Chem. Lett.</i> 27 10, 2192-2196.	Article
	Ronco, C.; Millet, A.; Plaisant, M. D.; Abbe, P.; Hamouda-Tekaya, N.; Rocchi, S.; Benhida, R.		

2017	<p>Controlling Plasma Stability of Hydroxamic Acids: A MedChem Toolbox</p> <p>Hermant, P.; Bosc, D.; Piveteau, C.; Gealageas, R.; Lam, B.; Ronco, C.; Roignant, M.; Tolojanahary, H.; Jean, L.; Renard, P.-Y.; Lemdani, M.; Bourotte, M.; Herledan, A.; Bedart, C.; Biela, A.; Leroux, F.; Deprez, B.; Deprez-Poulain, R.</p>	<i>J. Med. Chem.</i> 60, 9067-9089.	Article
2016	<p>Discovery and Optimization of N-(4-(3-Aminophenyl)thiazol-2-yl)acetamide as a Novel Scaffold Active against Sensitive and Resistant Cancer Cells</p> <p>Millet, A.; Plaisant, M.; Ronco, C.; Cerezo, M.; Abbe, P.; Jaune, E.; Cavazza, E.; Rocchi, S.; Benhida, R.</p>	<i>J. Med. Chem.</i> 59, 8276-8292.	Article
2016	<p>Compounds Triggering ER Stress Exert Anti-Melanoma Effects and Overcome BRAF Inhibitor Resistance</p> <p>Cerezo, M., Lehraiki, A., Millet, A., Rouaud, F., Plaisant, M., Jaune, E., Botton, T., Ronco, C., Abbe, P., Amdouni, H., Passeron, T., Hofman, V., Mograbi, B., Dabert-Gay, A. S., Debayle, D., Alcor, D., Rabhi, N., Annicotte, J. S., Héliot, L., Gonzalez-Pisfil, M., ... Rocchi, S.</p>	<i>Cancer cell</i> , 29(6), 805–819.	Article
2016	<p>Microwave-assisted synthesis of bioactive seven-membered, macro-sized heterocycles and their fused derivatives</p> <p>Driowya, M.; Saber, A.; Marzag, H.; Demange, L.; Bougrin, K.; Benhida, R.</p>	<i>Molecules</i> , 21, 1032	Article
2016	<p>Microwave-assisted synthesis of bioactive six-membered heterocycles and their fused analogues</p> <p>Driowya, M.; Saber, A.; Marzag, H.; Demange, L.; Benhida, R.; Bougrin, K.</p>	<i>Molecules</i> , 21, 492	Article

2016	<p>Solvent-free regioselective synthesis of novel isoxazoline and pyrazoline N-substituted saccharin derivatives under microwave irradiation</p> <p>Saber, A.; Driowya, M.; Alaoui, S.; Marzag, H.; Demange, L.; Álvarez, E.; Benhida, R.; Bougrin, K.</p>	<p><i>Chemistry of Heterocyclic Compounds</i>. 52, 31-40.</p>	<p>Article</p>
2016	<p>Targeting BIP to induce Endoplasmic Reticulum stress and cancer cell death</p> <p>Cerezo, M.; Benhida, R.; Rocchi, S.</p>	<p><i>Oncoscience</i>. 3, 306</p>	<p>Article</p>
2016	<p>Biomimetic synthesis of urukthapelstatin A by Aza-Wittig ring contraction</p> <p>Schwenk, S.; Ronco, C.; Oberheide, A.; Arndt, H.-D.</p>	<p><i>Eur. J. Org. Chem.</i> 4795-4799.</p>	<p>Article</p>