

Joan Ballester

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ERC CoG'19 and PoC'22 Grantee

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Personal Website: <http://www.joanballester.eu/>
ERC Consolidator Grant EARLY-ADAPT: <https://early-adapt.eu/>
European Heat-Health Early Warning System: <https://heathealth.eu/>
Temperature and Mortality in Barcelona: <https://aspb.shinyapps.io/temob/>

Last update: April 9th, 2022

Positions

Jan'17-present: **Barcelona Institute for Global Health (ISGlobal)** - Barcelona, Catalonia, Spain.
Jan'13-Dec'14: **California Institute of Technology (Caltech)** - Pasadena, California, United States.
Jul'08-Dec'16: **Institut Català de Ciències del Clima (IC3)** - Barcelona, Catalonia, Spain.
Sep'05-Jul'08: **Laboratori de Recerca del Clima (LRC), Parc Científic de Barcelona (PCB)** - Barcelona, Catalonia, Spain.
Feb'05-Jun'05: **Centre National de Recherches Météorologiques (CNRM)** - Toulouse, France.
Sep'03-Feb'04: **Servei Meteorològic de Catalunya (SMC)** - Barcelona, Catalonia, Spain.

Education

2015-2016: M.Sc. **Financial Markets** ("*Postgrau en Tècniques Quantitatives per als Mercats Financers*") - Universitat Politècnica de Catalunya (UPC) - Barcelona, Catalonia, Spain.
2007-2011: Ph.D. **Climate and Health** - Universitat de Barcelona (UB) - Barcelona, Catalonia, Spain.
2005-2007: M.Sc. **Marine Sciences** ("*Diploma d'Estudis Avançats en Ciències del Mar*") - Universitat de Barcelona (UB) - Barcelona, Catalonia, Spain.
2004-2005: M.Sc. **Ocean, Atmosphere and Continental Surfaces** ("*Master 2 Recherche Océan, Atmosphère et Surfaces Continentales*") - Université Paul Sabatier (UPS) and **MétéoFrance** - Toulouse, France.
2002-2004: M.Sc. **Meteorology and Climatology** ("*Graduat Superior en Meteorologia i Climatologia*") - Universitat de Barcelona (UB) - Barcelona, Catalonia, Spain.
1999-2004: B.Sc. **Mathematics** ("*Llicenciatura en Matemàtiques*") - Universitat Politècnica de Catalunya (UPC) - Barcelona, Catalonia, Spain.

Selected Publications

Lévy L, Robine JM, Rey G, Méndez Turrubiates RF, Quijal-Zamorano M, Achebak H, **Ballester J**, Rodó X, Herrmann FR. Daylight saving time affects European mortality patterns. *Nature Communications* **13**, 6906 (2022).
van Daalen KR, Romanello M, Rocklöv J, Semenza JC, Tonne C, Markandya A, Dasandi N, Jankin S, Achebak H, **Ballester J**, Bechara H, Callaghan MW, Chambers J, Dasgupta S, Drummond P, Farooq Z, Gasparyan O, Gonzalez-Reviriego N, Hamilton I, Hänninen R, Kazmierczak A, Kendrovski V, Kennard H, Kiesewetter G, Lloyd SJ, Lotto Batista M, Martinez-Urtaza J, Milà C, Minx JC, Nieuwenhuijsen M, Palamarchuk J, Quijal-Zamorano M, Robinson EJZ, Scamman D, Schmoll O, Odhiambo Sewe M, Sjödin H, Sofiev M, Solaraju-Murali B, Springmann M, Triñanes

- J, Anto JM, Nilsson M, Lowe R. The 2022 Europe report of the Lancet Countdown on health and climate change: towards a climate resilient future. *The Lancet Public Health* 7, e942-e965 (2022).
- Quijal-Zamorano M, Martínez-Solanas È, Achebak H, Petrova D, Robine JM, Herrmann FR, Rodó X, **Ballester J**. Seasonality reversal of temperature attributable mortality projections due to previously unobserved extreme heat in Europe. *The Lancet Planetary Health* 5, e573-e575 (2021).
- Martínez-Solanas È, Quijal-Zamorano M, Achebak H, Petrova D, Robine JM, Herrmann FR, Rodó X, **Ballester J**. Projections of temperature attributable mortality in Europe: a timeseries analysis in 147 contiguous regions. *The Lancet Planetary Health* 5, e446-e454 (2021).
- Achebak H, Petetin H, Quijal-Zamorano M, Bowdalo D, Pérez García-Pando C, **Ballester J**. Reduction in air pollution and attributable mortality due to COVID-19 lockdown. *The Lancet Planetary Health* 4, e268 (2020).
- Achebak H, Devolder D, Ingole V, **Ballester J**. Reversal of the seasonality of temperature-attributable mortality from respiratory diseases in Spain. *Nature Communications* 11, 2457 (2020).
- Achebak H, Devolder D, **Ballester J**. Trends in temperature-related age-specific and sex-specific mortality from cardiovascular diseases in Spain: a national time-series analysis. *The Lancet Planetary Health* 3, e297-e306 (2019).
 ==> *Highlighted in the magazine issue cover.*
- Ballester J**, Robine JM, Herrmann FR, Rodó X. Effect of the Great Recession on regional mortality trends in Europe. *Nature Communications* 19, 679 (2019).
 ==> *Highlighted in Nature Research Behavioural & Social Sciences Community.*
- Achebak H, Devolder D, **Ballester J**. Heat-related mortality trends under recent climate warming in Spain: a 36-year observational study. *PLOS Medicine* 15, e1002617 (2018).
- Ballester J**, Petrova D, Bordoni S, Cash B, García-Díez M, Rodó X. Sensitivity of El Niño intensity and timing to preceding subsurface heat magnitude. *Scientific Reports* 6, 36344 (2016).
- Ballester J**, Rodó X, Robine JM, Herrmann FR. European seasonal mortality and influenza incidence due to winter temperature variability. *Nature Climate Change* 6, 927-930 (2016).
 ==> *Highlighted in the magazine issue cover.*
- Rodó X, Curcoll R, Robinson M, **Ballester J**, Burns JC, Cayan DR, Lipkin WI, Williams BL, Couto-Rodriguez M, Nakamura Y, Uehara R, Tanimoto H, Morguá JA. Tropospheric winds from northeastern China carry the etiologic agent of Kawasaki disease from its source to Japan. *Proceedings of the National Academy of Sciences* 111, 7952-7957 (2014).
 ==> *Highlighted in Nature* by Frazer J (2014) Kawasaki disease origin traced to northeast China.
 ==> *Highlighted in Science* by Wogan T (2014) Mysterious Illness May Be Carried by the Wind.
- Cash BA, Rodó X, **Ballester J**, Bouma MJ, Dhiman R, Pascual M. Malaria epidemics highlight influence of the Tropical South Atlantic on the Indian monsoons. *Nature Climate Change* 3, 502-507 (2013).
- Rodó X*, **Ballester J***, Cayan D, Melish ME, Nakamura Y, Uehara R, Burns JC. Association of Kawasaki disease with tropospheric wind patterns. *Scientific Reports* 1, 152 (2011).
 ==> *Highlighted in Nature* by Frazer J (2012) Infectious disease: Blowing in the wind.
- Ballester J**, Robine JM, Herrmann FR, Rodó X. Long-term projections and acclimatization scenarios of temperature-related mortality in Europe. *Nature Communications* 2, 358 (2011).
- * *These authors contributed equally to this work*

Publications

- Chen ZY, Méndez Turrubiates R, Petetin H, Lacima A, Pérez García-Pando C, **Ballester J**. A Pan-European, High-Resolution, Daily Total, Fine-Mode and Coarse-Mode Aerosol Optical Depth dataset based on Quantile Machine Learning. *Earth System Science Data*, preprint available at <https://essd.copernicus.org/preprints/essd-2023-104/> (2023).

- Konstantinoudis G, Minelli C, Yu Lam HC, Fuertes E, **Ballester J**, Davies B, Vicedo-Cabrera AM, Gasparri A, Blangiardo M. Asthma hospitalisations and heat exposure in England: A case-crossover study during 2002-2019. *Thorax*, in press (2023).
- Lacima A, Petetin H, Soret A, Bowdalo D, Jorba O, Chen Z, Méndez Turrubiates RF, Achebak H, **Ballester J**, Pérez García-Pando C. Long-term evaluation of surface air pollution in CAMSRA and MERRA-2 global reanalyses over Europe (2003–2020). *Geoscientific Model Development*, in press (2023).
- Lévy L, Robine JM, Rey G, Méndez Turrubiates RF, Quijal-Zamorano M, Achebak H, **Ballester J**, Rodó X, Herrmann FR. Daylight saving time affects European mortality patterns. *Nature Communications* **13**, 6906 (2022).
- van Daalen KR, Romanello M, Rocklöv J, Semenza JC, Tonne C, Markandya A, Dasandi N, Jankin S, Achebak H, **Ballester J**, Bechara H, Callaghan MW, Chambers J, Dasgupta S, Drummond P, Farooq Z, Gasparyan O, Gonzalez-Reviriego N, Hamilton I, Hänninen R, Kazmierczak A, Kendrovski V, Kennard H, Kiesewetter G, Lloyd SJ, Lotto Batista M, Martinez-Urtaza J, Milà C, Minx JC, Nieuwenhuijsen M, Palamarchuk J, Quijal-Zamorano M, Robinson EJZ, Scamman D, Schmoll O, Odhiambo Sewe M, Sjödin H, Sofiev M, Solaraju-Murali B, Springmann M, Triñanes J, Anto JM, Nilsson M, Lowe R. The 2022 Europe report of the Lancet Countdown on health and climate change: towards a climate resilient future. *The Lancet Public Health* **7**, e942-e965 (2022).
- Chevance G, Fresán U, Hekler E, Edmondson D, Lloyd SJ, **Ballester J**, Litt J, Cvijanovic I, Araujo-Soares V, Bernard P. Thinking health-related behaviors in a climate change context: a narrative review. *Annals of Behavioral Medicine*, doi:10.1093/abm/kaac039 (2022).
- Ellena M, **Ballester J**, Costa G, Achebak H. Evolution of temperature-attributable mortality trends looking at social inequalities: An observational case study of urban maladaptation to cold and heat. *Environmental Research* **214**, 114082 (2022).
- Konstantinoudis G, Minelli C, Vicedo-Cabrera AM, **Ballester J**, Gasparri A, Blangiardo M. Ambient heat exposure and COPD hospitalisations in England: a nationwide case-crossover study during 2007-2018. *Thorax* **77**, 1098-1104 (2022).
- Ingole V, Dimitrova A, Sampedro J, Saco C, Acacio S, Juvekar S, Roy S, Basagaña X, **Ballester J**, Antó JM, Tonne C. Local mortality impacts due to future air pollution under climate change scenarios. *Science of the Total Environment* **823**, 153832 (2022).
- Aboubakri O, **Ballester J**, Shoraka HR, Karamoozian A, Golchini E. Ambient temperature and Covid-19 transmission: An evidence from a region of Iran based on weather station and satellite data. *Environmental Research* **209**, 112887 (2022).
- Shoraka HR, Aboubakri O, **Ballester J**, Sharafkhani R. Heat and cold-related morbidity risk in north-east of Iran: a time-stratified case crossover design. *Environmental Science and Pollution Research* **29**, 2664-2671 (2022).
- Quijal-Zamorano M, Martínez-Solanas È, Achebak H, Petrova D, Robine JM, Herrmann FR, Rodó X, **Ballester J**. Seasonality reversal of temperature attributable mortality projections due to previously unobserved extreme heat in Europe. *The Lancet Planetary Health* **5**, e573-e575 (2021).
- Martínez-Solanas È, Quijal-Zamorano M, Achebak H, Petrova D, Robine JM, Herrmann FR, Rodó X, **Ballester J**. Projections of temperature attributable mortality in Europe: a timeseries analysis in 147 contiguous regions. *The Lancet Planetary Health* **5**, e446-e454 (2021).
- Petropoulos ZE, Ramirez-Rubio O, Scammell MK, Laws RL, Lopez-Pilarte D, Amador JJ, **Ballester J**, O'Callaghan-Gordo C, Brooks DR. Climate Trends at a Hotspot of Chronic Kidney Disease of Unknown Causes in Nicaragua, 1973-2014. *International Journal of Environmental Research and Public Health* **18**, 5418 (2021).
- Achebak H, Petetin H, Quijal-Zamorano M, Bowdalo D, Pérez García-Pando C, **Ballester J**. Trade-offs between short-term mortality attributable to NO₂ and O₃ changes during the COVID-19 lockdown across major Spanish cities. *Environmental Pollution* **286**, 117220 (2021).
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- Dimitrova A, Ingole V, Basagaña X, Ranzani O, Milà C, **Ballester J**, Tonne C. Association between ambient temperature and heatwaves with mortality in South Asia: Systematic review and meta-analysis. *Environment International* **146**, 106170 (2021).
- Petrova D, Rodó X, Sippy R, **Ballester J**, Mejía R, Beltrán-Ayala E, Borbor-Cordova MJ, Vallejo GM, Olmedo AJ, Stewart-Ibarra AM, Lowe R. The 2018-2019 weak El Niño: Predicting the risk of a dengue outbreak in Machala, Ecuador. *International Journal of Climatology* **41**, 3813-3823 (2021).
- Ellena M, **Ballester J**, Mercogliano P, Ferracin E, Barbato G, Costa G, Ingole V. Social Inequalities in Heat-attributable Mortality in the City of Turin, Northwest of Italy: A Time Series Analysis From 1982 to 2018. *Environmental Health* **19**, 116 (2020).
- Grist H, **Ballester J**, de Jong F, Langehaug HR, Olsen SM, Swingedouw D. Decadal Predictions to Climate Services: How Understanding Climate Change in the Arctic can Support Climate Adaptation Decision-Making across the Northern Hemisphere. In *Arctic Yearbook 2020*, (eds.) Heininen L, Exner-Pirot H, Akureyri BJ. Arctic Portal, Iceland (2020).
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- Achebak H, Devolder D, Ingole V, **Ballester J**. Reversal of the seasonality of temperature-attributable mortality from respiratory diseases in Spain. *Nature Communications* **11**, 2457 (2020).
- Ingole V, Marí-Dell'Olmo M, Deluca A, Quijal M, Borrell C, Rodríguez-Sanz M, Achebak H, Lauwaet D, Gilabert J, Murage P, Hajat S, Basagaña X, **Ballester J**. Spatial Variability of Heat-Related Mortality in Barcelona from 1992-2015: A Case Crossover Study Design. *International Journal of Environmental Research and Public Health* **17**, 2553 (2020).
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- Achebak H, Devolder D, **Ballester J**. Trends in temperature-related age-specific and sex-specific mortality from cardiovascular diseases in Spain: a national time-series analysis. *The Lancet Planetary Health* **3**, e297-e306 (2019).
- Ballester J**. Will climate change worsen your health? *Climanosco Research Articles* **2**, doi:10.37207/CRA.2.3 (2019).
- Petrova D, Lowe R, Stewart-Ibarra A, **Ballester J**, Koopman SJ, Rodó X. Sensitivity of large dengue epidemics in Ecuador to long-lead predictions of El Niño. *Climate Services* **15**, 100096 (2019).
- Ballester J**, Robine JM, Herrmann FR, Rodó X. Effect of the Great Recession on regional mortality trends in Europe. *Nature Communications* **19**, 679 (2019).
- Achebak H, Devolder D, **Ballester J**. Heat-related mortality trends under recent climate warming in Spain: a 36-year observational study. *PLOS Medicine* **15**, e1002617 (2018).
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- Petrova D, Koopman SJ, **Ballester J**, Rodó X. Improving the long-lead predictability of El Niño using a novel forecasting scheme based on a dynamic components model. *Climate Dynamics* **48**, 1249-1276 (2017).
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- Ballester J**, Petrova D, Bordoni S, Cash B, García-Díez M, Rodó X. Sensitivity of El Niño intensity and timing to preceding subsurface heat magnitude. *Scientific Reports* **6**, 36344 (2016).
- Grossi C, **Ballester J**, Serrano I, Galmarini S, Camacho A, Curcoll R, Morguá JA, Rodó X, Duch MA. Influence of long-range atmospheric transport pathways and climate teleconnection patterns on the variability of surface ²¹⁰Pb and ⁷Be concentrations in southwestern Europe. *Journal of Environmental Radioactivity* **165**, 103-114 (2016).
- Rodó X, **Ballester J**, Curcoll R, Boyard-Micheau J, Borràs S, Morguá JA. Revisiting the role of environmental and climate factors on the epidemiology of Kawasaki disease. *Annals of the New York Academy of Sciences* **1382**, 84-98 (2016).
- Ballester J**, Bordoni S, Petrova D, Rodó X. El Niño dynamics and long lead climate forecasts. *Climanosco Research Articles* **1**, doi:10.37207/CRA.1.2 (2016).
- Ballester J**, Rodó X, Robine JM, Herrmann FR. European seasonal mortality and influenza incidence due to winter temperature variability. *Nature Climate Change* **6**, 927-930 (2016).
- Ballester J***, Lowe R*, Diggle P, Rodó X. Seasonal forecasting and health impact models: challenges and opportunities. *Annals of the New York Academy of Sciences* **1382**, 8-20 (2016).
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- Ballester J**, Bordoni S, Petrova D, Rodó X. On the dynamical mechanisms explaining the western Pacific subsurface temperature buildup leading to ENSO events. *Geophysical Research Letters* **42**, 2961-2967 (2015).
- Lowe R, **Ballester J**, Creswick J, Robine JM, Herrmann FR, Rodó X. Evaluating the performance of a climate-driven mortality model during heat waves and cold spells in Europe. *International Journal of Environmental Research and Public Health* **12**, 1279-1294 (2015).
- Rodó X, Curcoll R, Robinson M, **Ballester J**, Burns JC, Cayan DR, Lipkin WI, Williams BL, Couto-Rodriguez M, Nakamura Y, Uehara R, Tanimoto H, Morguá JA. Tropospheric winds from northeastern China carry the etiologic agent of Kawasaki disease from its source to Japan. *Proceedings of the National Academy of Sciences* **111**, 7952-7957 (2014).
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- Ballester J**, Rodríguez-Arias MA, Rodó X. A new extratropical tracer describing the role of the western Pacific in the onset of El Niño: Implications for ENSO understanding and forecasting. *Journal of Climate* **24**, 1425-1437 (2011).

Ballester J, Rodó X, Giorgi F. Future changes in Central Europe heat waves expected to mostly follow summer mean warming. *Climate Dynamics* **35**, 1191-1205 (2010).

Ballester J, Giorgi F, Rodó X. Changes in European temperature extremes can be predicted from changes in PDF central statistics. *Climatic Change - Letters* **98**, 277-284 (2010).

Ballester J, Douville H, Chauvin F. Present-day climatology and projected changes of warm and cold days in the CNRM-CM3 global climate model. *Climate Dynamics* **32**, 35-54 (2009).

Ballester J, Moré J. The representativeness problem of a station net applied to the verification of a precipitation forecast based on areas. *Meteorological Applications* **14**, 177-184 (2007).

Rodó X, Rodríguez-Arias MA, **Ballester J**. The role of ENSO in fostering teleconnection patterns between the tropical north Atlantic and the western Mediterranean Basin. *CLIVAR Exchanges* **11**, 26-27 (2006).

* These authors contributed equally to this work

Funding in Projects

Sep'22-Aug'27: Project name: Climate Action to Advance Healthy Societies in Europe (CATALYSE). Call: Health impacts of climate change, costs and benefits of action and inaction (HORIZON-HLTH-2021-ENVHLTH-02-03). Funder: European Commission. Centre: Barcelona Institute for Global Health (ISGlobal). Role: Task Leader. Budget (total): 230,892.52€ (10,354,021.00€). Website: <https://catalysehorizon.eu/>

Feb'21-Jan'26: Project name: Signs of Early Adaptation to Climate Change (EARLY-ADAPT). Call: ERC Consolidator Grants 2019 (ERC-2019-COG). Funder: European Research Council (ERC). Centre: Barcelona Institute for Global Health (ISGlobal). Role: Coordinator. Budget: 2,000,000.00€. Website: <https://www.early-adapt.eu/>

Mar'21-Feb'25: Project name: European Weather Extremes: Drivers, Predictability and Impacts (EDIPI). Call: Horizon 2020's Marie Skłodowska-Curie Innovative Training Networks (MSCA-ITN-ETN). Funder: European Commission. Centre: Barcelona Institute for Global Health (ISGlobal). Role: Principal Investigator. Budget (total): 250,904.88€ (3,813,089.76€). Website: <https://edipi-itn.eu/>

Oct'22-Mar'24: Project name: Operational Heat-Health-Social Early Warning System (HHS-EWS). Call: ERC Proof of Concept (ERC-2022-PoC1). Funder: European Research Council (ERC). Centre: Barcelona Institute for Global Health (ISGlobal). Role: Coordinator. Budget: 150,000.00€. Website: <https://cordis.europa.eu/project/id/101069213>

Oct'19-Dec'21: Project name: Evaluación de los Cambios Recientes en Mortalidad y Vulnerabilidad Humana en Europa (EURO-ADAPT). Call: Europa Excelencia 2019. Funder: Ministerio de Ciencia, Innovación y Universidades (MICINN). Centre: Barcelona Institute for Global Health (ISGlobal). Role: Coordinator. Budget: 75,000.00€.

Dec'16-Sep'21: Project name: Arctic Impact on Weather and Climate (Blue-Action). Call: Horizon 2020's Blue Growth - Demonstrating an Ocean of Opportunities (H2020-BG-2016-2017). Funder: European Commission. Centre: Barcelona Institute for Global Health (ISGlobal). Role: Principal Investigator. Budget (total): 215,000.00€ (7,500,000.00€). Website: <https://blue-action.eu/>

Jun'17-Feb'20: Project name: Pan-European Urban Climate Service (PUCS). Call: Horizon 2020's Exploiting the added value of climate services - Demonstration of climate services (SC5-01-2016-2017). Funder: European Commission. Centre: Barcelona Institute for Global Health (ISGlobal). Role: Principal Investigator. Budget (total): 319,375.00€ (3,514,416.25€). Website: <https://climate-fit.city/>

Participation in Other Projects

2023-2024: Project name: Àrea Metropolitana de Barcelona I Efectes Nocius de la Temperatura i la qualitat de l'Aire en la salut MENTAL als barris (AmbientaMENT). Call: Barcelona Ciència 2022. Funder: Ajuntament de Barcelona and Fundació "la Caixa". Centre: Barcelona Institute for Global Health (ISGlobal). Budget: 149,390.23€.

Mar'21-Feb'23: Project name: Air pollution in relation to COVID-19 morbidity and mortality: a large population-based cohort study in Catalonia, Spain (COVAIR-CAT). Call: RFA 20-1B Air Pollution, COVID-19, and Human Health. Funder: Health Effects Institute (HEI). Centre: Barcelona Institute for Global Health (ISGlobal). Budget: 500,000.00\$.

Dec'15-Dec'18: Project name: Aerial micro-biome diversity and their role in Kawasaki disease (WINDBIOME). Call: Proyectos pediátricos. Funder: Fundació Privada Daniel Bravo. Centre: Institut Català de Ciències del Clima (IC3). Budget (total): 234,000.00€ (300,000.00€).

May'16-Jul'17: Project name: Sector Engagement for C3S, Translating European User Requirements (SECTEUR). Call: Evaluation and Quality Control Function for the Sectoral Information System (C3S_52). Funder: Copernicus Climate Change Service (C3S), European Centre for Medium-Range Weather Forecasts (ECMWF). Centre: Institut Català de Ciències del Clima (IC3). Budget (total): 160,778.48€ (2,224,781.65€).

Nov'12-Jan'17: Project name: European Provision of Regional Impact Assessment on a Seasonal-to-decadal timescales (EUPORIAS). Call: Seventh Framework Programme's Environment Cooperation Area. Funder: European Commission. Centre: Institut Català de Ciències del Clima (IC3). Budget (total): 479,351.16€ (13,048,572.00€).

Jan'12-Dec'16: Project name: Dengue Research Framework for Resisting epidemics in Europe (DENFREE). Call: Seventh Framework Programme's Health Cooperation Area. Funder: European Commission. Centre: Institut Català de Ciències del Clima (IC3). Budget (total): 387,666.34€ (8,447,902.00€).

Mar'11-Feb'14: Project name: Climate Local Information in the Mediterranean region: Responding to User Needs (CLIM-RUN). Call: Seventh Framework Programme's Environment Cooperation Area. Funder: European Commission. Centre: Institut Català de Ciències del Clima (IC3). Budget (total): 404,436.78€ (4,680,341.00€).

Mar'09-Feb'12: Project name: Kawasaki Disease: Disentangling the role of Climate in the outbreaks. Call: La Marató de TV3. Funder: Fundació La Marató de TV3. Centre: Institut Català de Ciències del Clima (IC3). Budget: 196,250.00€.

Apr'07-Jun'11: Project name: Climate Change and Impact Research: Mediterranean Environment (CIRCE). Call: Sixth Framework Programme's Sustainable Development, Global Change and Ecosystems (FP6-2005-GLOBAL-4). Funder: European Commission. Centre: Laboratori de Recerca del Clima (LRC), Parc Científic de Barcelona (PCB). Budget (total): 110,000.00€ (13,730,066.00€).

Oct'07-Sep'10: Project name: Predicción climática estacional en el área mediterránea combinando multimodelos dinámicos, proyecciones estadísticas, modelos oceánicos regionales y experimentos climáticos tipo marcapasos (PANDORA). Call: Proyectos I+D. Funder: Ministerio de Medio Ambiente. Centre: Laboratori de Recerca del Clima (LRC), Parc Científic de Barcelona (PCB). Budget: 104,060.00€.

Funding in Fellowships (as Supervisor)

Aug'22-Jul'26: Call: Ayudas para contratos predoctorales para la formación de doctores 2021 (PRE2021-097512). Funder: Ministerio de Ciencia e Innovación (MICINN). Centre: Barcelona Institute for Global Health (ISGlobal). Budget: 98.960,00€.

Aug'21-Jul'25: Call: Ayudas para contratos predoctorales para la formación de doctores 2020 (PRE2020-091985). Funder: Ministerio de Ciencia e Innovación (MICINN). Centre: Barcelona Institute for Global Health (ISGlobal). Budget: 98.960,00€.

Oct'19-Sep'23: Call: Ayudas para formación de profesorado universitario (FPU-18/00447). Funder: Ministerio de Ciencia, Innovación y Universidades (MICINN). Centre: Barcelona Institute for Global Health (ISGlobal). Budget: 82.123,20€.

May'19-Apr'22: Call: Ajuts per a la contractació de personal investigador novell (FI-2019-B-00164). Funder: Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR). Centre: Barcelona Institute for Global Health (ISGlobal). Budget: 60.465,12€.

Sep'16-Aug'18: Call: Juan de la Cierva, Formación (FJCI-2015-25990). Funder: Ministerio de Economía y Competitividad (MINECO). Centre: Institut Català de Ciències del Clima (IC3). Budget: 50,000.00€.

Funding in Fellowships (as Fellow)

May'20-Apr'25: Project name: Climate and health: sources of vulnerability, effectiveness of early adaptation and predictability of disease risks. Call: Ramon y Cajal 2018. Funder: Ministerio de Ciencia, Innovación y Universidades (MICINN). Centre: Barcelona Institute for Global Health (ISGlobal). Budget: 308,600.00€.

Oct'17-Sep'19: Project name: Acclimatization scenarios and early warning system of temperature-related mortality in Europe (ACCLIM). Call: Horizon 2020's Marie Skłodowska-Curie Individual Fellowships (H2020-MSCA-IF-2016). Funder: European Commission. Centre: Barcelona Institute for Global Health (ISGlobal). Budget: 158,121.60€.

Oct'15-Sep'17: Project name: Climate change projections and adaptation scenarios of temperature-related mortality in Europe. Call: Seventh Framework Programme's Marie Skłodowska-Curie COFUND Beatriz de Pinós (BP-DGR-2014). Funder: European Commission and Catalan Government. Centre: Institut Català de Ciències del Clima (IC3). Budget: 91,022.40€.

Jan'13-Dec'15: Project name: Modulating mechanisms of the onset of El Niño events (MEMENTO). Call: Seventh Framework Programme's Marie Skłodowska-Curie International Outgoing Fellowships (FP7-PEOPLE-2011-IOF). Funder: European Commission. Centers: California Institute of Technology (Caltech) and Institut Català de Ciències del Clima (IC3). Budget: 256,206.00€.

Jun'09-Aug'09: Call: Mobility grants for pre-doctorate researchers (2008 BE2 00033). Funder: Catalan Government. Centre: Center for Ocean-Land-Atmosphere Studies (COLA). Advisor: Ben Cash.

Jun'09-Aug'09: Call: University computing requests for NSF-supported university projects (#37461043). Funder: National Center for Atmospheric Research (NCAR), Computational & Information Systems Laboratory (CISL). Centre: Center for Ocean-Land-Atmosphere Studies (COLA). Advisor: Ben Cash.

Jul'07-Jun'10: Call: Grants for universities and research centers for the recruitment of new research personnel (2007FI 00496). Funder: Catalan Government. Centre: Laboratori de Recerca del Clima (LRC). Advisor: Xavier Rodó.

Jan'08-Apr'08: Call: ESF Mobility Exchange Grant #1464. Funder: European Science Foundation (ESF). Centre: The Abdus Salam International Centre for Theoretical Physics (ICTP). Advisor: Filippo Giorgi.

Sep'05-Aug'08: Call: Grants for pre-doctorate research in climatology. Funder: Centre National de Recherches Météorologiques (CNRM). *The applicant renounced to this grant due to the incompatibility with another fellowship.*

Nov'05-Jul'07: Call: Pre-doctorate grants for collaboration in research projects (PCB C13/05-N1). Funder: Parc Científic de Barcelona (PCB). Centre: Laboratori de Recerca del Clima (LRC). Advisor: Xavier Rodó.

Feb'04-Jun'04: Call: European Community Action Scheme for the Mobility of University Students (ERASMUS). Funder: European Commission. Centre: University of Sheffield.

Current Group Members

Simon Lloyd (2020-): Postdoctoral Fellow, PhD Public Health and Environment.

Elisa Gallo (2022-): Postdoctoral Fellow, PhD Biostatistics and Clinical Epidemiology.

Marcos Quijal-Zamorano (2019-): Predoctoral Fellow, MSc Biostatistics, BSc Mathematics.

Zhaoyue Chen (2021-): Severo Ochoa Predoctoral Fellow, MSc Medicine, BSc Biostatistics.

Constanza Vielma (2021-): Severo Ochoa Predoctoral Fellow, MSc Psychology of Social Intervention, BSc Sociology.

Thessa Beck (2021-): Marie Skłodowska-Curie Predoctoral Fellow, BSc Meteorology, MSc Climate Studies.

Niti Mishra (2022-): Predoctoral Fellow, MSc Data Science, BSc Commerce in Economics and Management.

Raúl Fernando Méndez Turrubiates (2021-): Software Engineer, MSc Physical Oceanography, BSc Atmospheric Sciences.

Fabien Peyrusse (2023-): Software Engineer, MSc in Engineering.

Adrià Mas Dalmasas (2023-): Software Engineer, MSc in Computational Biomedical Engineering, BSc in Human Biology.

Mireia Beas (2021-): Project Manager and Data Assistant, MA Museum Studies, BSc Biology.

Visiting Collaborators

Hicham Achebak (2022-): Marie Sklodowska-Curie Postdoctoral Fellow, PhD Demography.

Former Group Members

Ferran Pegenaute (2022-2023): Software Engineer, MSc Bioinformatics for Health Sciences, BSc Human Biology.

Hicham Achebak (2017-2022): Postdoctoral Fellow, PhD Demography.

Cynthia Abarrategui (2020-2022): Project Manager, PhD Biomedicine.

Desislava Petrova (2019-2021): Postdoctoral Fellow, PhD Climate Dynamics.

Èrica Martínez-Solanas (2019-2020): Postdoctoral Fellow, PhD Environmental Epidemiology.

Vijendra Ingole (2017-2019): Postdoctoral Fellow, PhD Environmental Epidemiology.

Anna Deluca (2018-2019): Postdoctoral Fellow, PhD Climate Dynamics.

Ramon Requena (2017-2018): Master Student, MSc Environmental Epidemiology.

Conferences and Invited Talks

128. *Apr'23*: HEI Annual Conference 2023 - Air pollution in relation to COVID-19 morbidity and mortality: a large population-based study in Catalonia, Spain (COVAIR-CAT) - Tonne C, Alari A, Avellaneda C, Ballester J, Basagaña X, Chaccour C, Dadvand P, Duarte-Salles T, Foraster M, Milà C, Nieuwenhuijsen M, Olmos S, Ranzani O, Rico A, Sunyer J, Valentina, Vivanco R - Health Effects Institute (HEI), Boston, Massachusetts, United States.

127. *Apr'23*: EGU General Assembly 2023 - Quantifying the contribution of climate change to heat-attributable mortality in Europe: Interfacing epidemiology and Extreme Event Attribution - Beck T, Gudmundsson L, Seneviratne SI, Achebak H, Schumacher D, Ballester J - European Geosciences Union (EGU), Vienna, Austria.

126. *Apr'23*: EGU General Assembly 2023 - Modelling and prediction of daily, pan-European estimates of PM_{2.5} and PM₁₀ based on Quantile Machine Learning applied to different mode Aerosol Optical Depth and reanalysis data - Chen Z, Méndez Turrubiates R, Peteti H, Lacima A, Pérez García-Pando C, Ballester J - European Geosciences Union (EGU), Vienna, Austria.

125. *Mar'23*: CNDS Research Seminar, Extreme Temperature and Public Health - Climate and Public Health - Ballester J - Uppsala Universitet, Uppsala, Sweden.

124. *Feb'23*: Scientific Days INMA 2023 - Temperature Exposure and Foetal Growth in Three European Birth Cohorts - Essers E, Íñiguez C, Delaney S, Ballester J, Petricola S, Anabitarte A, Fernández-Somoano A, da Silva Santos S, Tardón A, Lertxundi A, Vrijheid M, Ballester F, McEachan R, Jaddoe V, El Marroun H, Tiemeier H, Guxens M - INMA Project, Barcelona, Catalonia, Spain.

123. *Jan'23*: International Technical Meeting - Ozone apportionment of European countries and attributed health impacts - Garatachea R, Achebak H, Pay MT, Jorba O, Ballester J, Pérez García-Pando C - Institute of Navigation, Long Beach, California, United States.

122. *Dec'22*: Fostering applications on Planetary Health to the Horizon Europe programs - Development, Demonstration and Implementation of Health Early Warning Systems - Ballester J - HERA and ISGlobal, Barcelona, Catalonia, Spain.
121. *Oct'22*: Planetary Health Annual Meeting 2022 - Influences of area-level sociodemographic factors on heat-related mortality in Europe: insights to guide adaptation strategies - Lloyd S, Quijal-Zamorano M, Achebak H, Hajat S, Muttarak R, Striessnig E, Ballester J - Planetary Health Alliance, Massachusetts, United States.
120. *Oct'22*: GlobeLife Seminar: UN Day Special Climate change and health. What is the role of science? - Climate Predictability, Early Warning Systems and Early Adaptation to Climate Change - Ballester J - Karolinska Institutet and Uppsala Universitet, Sweden.
119. *Sep'22*: 34th ISEE Annual Conference - Association between high temperature and hospital admissions for kidney diseases: a nationwide study - Gallo E, Achebak H, O'Callaghan-Gordo C, Ramírez O, Ballester J, Basagaña X - International Society for Environmental Epidemiology (ISEE), Athens, Greece.
118. *Jun'22*: Impacte del Canvi Climàtic en la Prevenció de Riscos Laborals - Sistemes d'alerta primerenca per a prevenir els efectes de les onades de calor i fred - Ballester J - Institut Català de Seguretat i Salut Laboral, Barcelona, Catalonia, Spain.
117. *Jun'22*: Climate Change, Biodiversity, Human Health and Societies: Threats, opportunities and research needs - Climate Predictability and Early Warning Systems - Ballester J - Collège de France, Paris, France.
116. *Jun'22*: Scenarios Forum - The influence of socio-demographics on heat-related mortality in Europe: towards a model that accounts for social adaptation under the SSPs - Lloyd S, Quijal-Zamorano M, Achebak H, Hajat S, Muttarak R, Striessnig E, Ballester J - International Committee on New Integrated Climate Change Assessment Scenarios (ICONICS), Laxenburg, Austria.
115. *Jun'22*: HEI annual conference 2022 - Air pollution in relation to COVID-19 morbidity and mortality: a large population-based study in Catalonia, Spain (COVAIR-CAT) - Tonne C, Ranzani O, Basagaña X, Dadvand P, Foraster M, Ballester J, Sunyer J, Nieuwenhuijsen M, Chaccour C, Duarte-Salles T, Avellaneda C, Vivanco RM - Health Effects Institute (HEI), Washington DC, United States.
114. *May'22*: EUCP Final Meeting - Projections of temperature-attributable mortality in Europe: a time series analysis in 147 contiguous regions in 16 countries - Martínez-Solanas È, Quijal-Zamorano M, Achebak H, Petrova D, Robine JM, Herrmann FR, Rodó X, Ballester J - European Climate Prediction (EUCP) System.
113. *May'22*: EUCP Final Meeting - Forecast of temperature-attributable mortality at lead times of up to 15 days for a very large ensemble of European regions - Quijal-Zamorano M, Petrova D, Achebak H, Martínez-Solanas È, Robine JM, Herrmann FR, Rodó X, Ballester J - European Climate Prediction (EUCP) System.
112. *May'22*: EGU General Assembly 2022 - Quantile machine learning models for predicting European-wide, high resolution fine-mode Aerosol Optical Depth (AOD) based on ground-based AERONET and satellite AOD data - Chen ZY, Méndez R, Lacima A, Petetin H, Soret A, Pérez García-Pando C, Ballester J - European Geosciences Union (EGU), Vienna, Austria.
111. *May'22*: EGU General Assembly 2022 - Garatachea R, Achebak H, Jorba O, Ballester J, Pay MT, Pérez García-Pando C - Foreign and domestic contributions to surface ozone among European countries - European Geosciences Union (EGU), Vienna, Austria.
110. *May'22*: EGU General Assembly 2022 - Lacima A, Petetin H, Soret A, Bowdalo D, Chen Z, Méndez R, Achebak H, Ballester J, Pérez García-Pando C - Long-term evaluation of surface air pollution in CAMSRA and MERRA-2 global reanalyses over Europe - European Geosciences Union (EGU), Vienna, Austria.
109. *May'22*: Cross-sectoral ISIMIP and PROCLIAS Workshop - Quijal-Zamorano M, Petrova D, Achebak H, Martínez-Solanas È, Robine JM, Herrmann FR, Rodó X, Ballester J - Forecast of temperature-attributable mortality at lead times of up to 15 days for a very large ensemble of European regions - Potsdam Institute for Climate Impact Research, Potsdam, Germany.
108. *Feb'22*: Emergència climàtica: reptes i propostes per a la ciutat - Canvi climàtic i impacte sobre la salut - Ballester J - Centre de Cultura Contemporània de Barcelona (CCCB), Barcelona, Catalonia, Spain.

107. *Sep'21*: Climate Change and Population Dynamics - Ballester J - Early Adaptation Response to Climate Change: Human Health - International Union for the Scientific Study of Population (IUSSP), Population-Environment Research Network (PERN) and European Association for Population Studies (EAPS), Vienna, Austria.
106. *Aug'21*: 33rd ISEE Annual Conference - Ellena M, Ballester J, Costa G, Achebak H - Temporal variation in temperature-mortality associations in Turin, Italy: a case of urban maladaptation to heat and cold - International Society for Environmental Epidemiology (ISEE), New York City, United States.
105. *May'21*: Workshop on Tropical Pacific Observing Needs to Advance Process Understanding and Representation in Models - Petrova D, Ballester J, Koopman SJ, Rodó X - Multiyear Statistical Prediction of ENSO Enhanced by the Tropical Pacific Observing System - US Climate Variability and Predictability Program (CLIVAR), United States.
104. *May'21*: Emergència climàtica. La ciència respon. Debats científics. Taula rodona: salut i clima - Ballester J - Temperature and Mortality: Climate Change, Mitigation and Adaptation - Institut d'Estudis Catalans, Barcelona, Catalonia, Spain.
103. *May'21*: IV Encuentro sobre emergencia climática y de salud pública - Ballester J - Temperature and Mortality: Climate Change, Mitigation and Adaptation - Asociación Madrileña de Salud Pública, Madrid, Spain.
102. *Apr'21*: EGU General Assembly 2021 - Petetin H, Bowdalo D, Achebak H, Soret A, Guevara M, Jorba O, Serradell K, Quijal-Zamorano M, Ballester J, Pérez García-Pando C - Meteorology-normalized impact of COVID-19 lockdown upon NO₂ and O₃ in Spain - European Geosciences Union (EGU), Vienna, Austria.
101. *Apr'21*: EGU General Assembly 2021 - Petrova D, Rodó X, Sippy R, Ballester J, Mejía R, Beltrán-Ayala E, Borbor-Cordova MJ, Vallejo GM, Lowe R - The 2018-2019 weak El Niño: Predicting the risk of a dengue outbreak in Machala, Ecuador - European Geosciences Union (EGU), Vienna, Austria.
100. *Apr'21*: EGU General Assembly 2021 - Quijal-Zamorano M, Petrova D, Rodó X, Martínez-Solanas È, Ballester J - Forecast of temperature-attributable mortality at lead times of up to 15 days for a very large ensemble of European regions - European Geosciences Union (EGU), Vienna, Austria.
099. *Jan'21*: First European Congress on Kawasaki Disease, EURO-KiDs Hybrid Congress 2021 - Rodó X, Navarro-Gallinad A, Kojima T, Ballester J, Borràs S - Sub-weekly cycle uncovers the hidden link of atmospheric pollution to Kawasaki Disease - Institut Pasteur, Paris, France.
098. *Dec'20*: AGU Fall Meeting 2020 - Pérez García-Pando C, Achebak H, Petetin H, Quijal-Zamorano M, Bowdalo D, Ballester J - Reduction in NO₂-attributable mortality and morbidity due to the COVID-19 lockdown in Spain - American Geophysical Union (AGU), San Francisco, California, United States.
097. *Dec'20*: 10th International Conference on Children's Health and the Environment - Rodó X, Navarro-Gallinad A, Ballester J, Borràs S - Particulate matter dynamics and chemistry drive Kawasaki disease epidemiology in Japan - International Network on Children's Health, Environment and Safety, Amsterdam, The Netherlands.
096. *Oct'20*: Tipping points, extreme events and uncertainty: How can studying the Arctic help us predict future European climate beyond the mean? - Ballester J - Climate and Mortality in Europe: is Early Adaptation Improving Human Health? - European Bureau for Conservation & Development (EBCD), Brussels, Belgium.
095. *Oct'20*: Urban Resilience in a Context of Climate Change (URCC) Conference - Quijal-Zamorano M, Ballester J, Mari-Dell'Olmo M - Differences in heat-related mortality between socioeconomic groups at neighbourhood level in the city of Barcelona (1987-2016) - RESCCUE, Barcelona, Catalonia, Spain.
094. *Oct'20*: Urban Resilience in a Context of Climate Change (URCC) Conference - Ballester J - Unravelling the environmental, socioeconomic and demographic drivers of recent trends in human health - RESCCUE, Barcelona, Catalonia, Spain.
093. *Aug'20*: 32nd ISEE Annual Conference - Ellena M, Mercogliano P, Ferracin E, Barbato G, Costa G, Ballester J, Ingole V - Social inequalities differences in the association between summer temperatures and mortality in the city of Turin, northwest of Italy: a distributed lag non-linear time series analysis from 1982 to 2018 - International Society for Environmental Epidemiology (ISEE), Washington DC, United States.
092. *Jun'20*: Transparència i Crisi Climàtica després de la COVID-19 - Ballester J - Estem prou informats de la crisi climàtica? - Àrea Metropolitana de Barcelona, Agència de Transparència, Barcelona, Catalonia, Spain.

091. *Jan'20*: Societat Catalana de Cardiologia - Ballester J - Temperature, Climate Change, Adaptation and Mortality - Barcelona, Catalonia, Spain.
090. *Nov'19*: Making Climate Services a Reality in Europe - Ballester J - Modelling Heat Risks with an Urban Climate Model - Africa Museum Conference Centre, Brussels, Belgium.
089. *Aug'19*: 31st ISEE Annual Conference - Martínez-Solanas È, Petrova D, Rodó X, Herrmann FR, Robine JM, Ballester J - An integrated heat health early warning system for Europe - International Society for Environmental Epidemiology (ISEE), Utrecht, The Netherlands.
088. *Aug'19*: 31st ISEE Annual Conference - Ingole V, Marí-Dell'Olmo M, Deluca A, Quijal M, Lauwaet D, Gilabert J, Rodó X, Basagaña X, Ballester J - District level spatial variability of heat-related mortality in Barcelona from 1992-2015: a case crossover study design - International Society for Environmental Epidemiology (ISEE), Utrecht, The Netherlands.
087. *Aug'19*: 31st ISEE Annual Conference - Deluca A, Murage P, Lauwaet D, Sarran C, Ingole V, Quijal M, Rodó X, Ballester J, Hajat S - The Urban Heat Island Effect in London and its Health Impacts: Dynamical and Statistical Urban Scale Modelling Comparison - International Society for Environmental Epidemiology (ISEE), Utrecht, The Netherlands.
086. *Aug'19*: 31st ISEE Annual Conference - Achebak H, Devolder D, Ballester J - Sex-age trends in heat- and cold-related mortality from cardiovascular diseases in a warming climate: A countrywide time-series study from Spain - International Society for Environmental Epidemiology (ISEE), Utrecht, The Netherlands.
085. *Aug'19*: 31st ISEE Annual Conference - Ballester J, Achebak H, Herrmann FR, Robine JM, Rodó X - Trends in heat-attributable vulnerability and mortality in Europe: role of macroeconomic growth during the Great Recession - International Society for Environmental Epidemiology (ISEE), Utrecht, The Netherlands.
084. *May'19*: Plenary session of the Planetary Wellbeing project - Ballester J - Early Adaptation to Climate Change: Current Trends in Temperature-Related Mortality - Universitat Pompeu Fabra, Barcelona, Catalonia, Spain.
083. *May'19*: XV Congress on Environmental Health - Marí Dell'Olmo M, Quijal M, Ballester J, Tobías A, Achebak H, and the Climate-fit.city consortium - Desigualdades socioeconómicas en la evolución de la asociación entre el calor y la mortalidad en la ciudad de Barcelona - Sociedad Española de Sanidad Ambiental (SESA), València, Spain.
082. *Apr'19*: CED Seminar - Ballester J, Achebak H, Herrmann FR, Robine JM, Rodó X - Trends in Heat-Attributable Vulnerability and Mortality in Europe: Role of Economic Growth - Centre d'Estudis Demogràfics (CED), Bellaterra, Catalonia, Spain.
081. *Apr'19*: EGU General Assembly 2019 - Petrova D, Ballester J, Jan Koopman S, Bordoni S, Cash B, García-Díez M, Rodó X - El Niño Predictability and The Western Pacific Heat Buildup - European Geosciences Union (EGU), Vienna, Austria.
080. *Dec'18*: First Global Forum on Heat and Health - Ballester J, Achebak H, Herrmann FR, Robine JM, Rodó X - Recent Trends in Temperature, Vulnerability and Heat-Attributable Mortality in Europe - Hong Kong, China.
079. *Dec'18*: General Assembly of the PUCS Project - Deluca A, Marí Dell'Olmo M, Ingole V, Quijal M, Ballester J - Heat Health Climate Service for Barcelona and London - Prague, Austria.
078. *Nov'18*: General Assembly of the Blue-Action Project - Ballester J - Work progress in the Temperature-Related Mortality case study - Almada, Portugal.
077. *Nov'18*: Demonstration Workshop of the PUCS Project - Ballester J, Marí Dell'Olmo M, Deluca A, Ingole V, Basagaña X, Quijal M, Gilabert J - Heat Health Climate Service for Barcelona - Agència de Salut Pública de Barcelona (ASPB), Barcelona, Catalonia, Spain.
076. *Nov'18*: Scientific Workshop on Climate Change in Catalonia - Ballester J, Marí Dell'Olmo M, Deluca A, Ingole V, Basagaña X, Quijal M, Gilabert J - Heat and mortality in Barcelona with an urban climate model - Barcelona City Council, Barcelona, Catalonia, Spain.
075. *Sep'18*: 25th European Pediatric Rheumatology Congress - Rodó X, Borrás S, Kojima T, Curcoll R, Ballester J, Moreno T, Matsuki A, Morguá JA, International Kawasaki Disease Consortium - What the Variability and Cycles

- in Kawasaki Disease are Telling Us on the Nature of this Pediatric Vasculitis - Pediatric Rheumatology European Society (PREs), Lisbon, Portugal.
074. *Sep'18*: 25th European Pediatric Rheumatology Congress - Rodó X, Boyard-Micheau J, Borràs S, Cayan D, Burns J, Nakamura Y, Sánchez Manubens J, Anton J, Morguá JA, Curcoll R, Ballester J, International Kawasaki Disease Consortium - Worldwide Coherence of Association of Kawasaki Disease to Massive Agricultural Cropland Byproducts - Pediatric Rheumatology European Society (PREs), Lisbon, Portugal.
073. *Aug'18*: ISES-ISEE 2018 Joint Annual Meeting - Achebak H, Devolder D, Ballester J - Heat-related mortality trends under recent climate warming in Spain: a 36-year observational study - International Society of Exposure Science (ISES) and International Society for Environmental Epidemiology (ISEE), Ottawa, Canada.
072. *Aug'18*: ISES-ISEE 2018 Joint Annual Meeting - Ballester J, Robine JM, Herrmann FR, Rodó X - The 2008 recession, human mortality and its changing relationship with daily temperatures in Europe - International Society of Exposure Science (ISES) and International Society for Environmental Epidemiology (ISEE), Ottawa, Canada.
071. *Jun'18*: General Assembly of the PUCS Project - Ballester J, Marí Dell'Olmo M, Ingole V, Deluca A, Quijal M - Heat Health Climate Service for Barcelona - Leuven, Brussels.
070. *Jun'18*: European Population Conference 2018 - Achebak H, Devolder D, Ballester J - Climate Warming and Summer Heat-Related Mortality in Spain - European Association for Population Studies (EAPS), Brussels, Belgium.
069. *Jun'18*: AOGS 15th Annual Meeting - Petrova D, Ballester J, Koopman SJ, Bordoni S, Cash B, García-Díez M, Rodó X - The Western Pacific Heat Buildup and Its Effect on ENSO Diversity: Implications for the Timing, Magnitude and Prediction of El Niño - Asia Oceania Geosciences Society (AOGS), Honolulu, Hawaii, United States.
068. *Apr'18*: IASC Workshop on Knowledge Gaps of Cryospheric Extremes - Ballester J - Cold Spells and Human Mortality - International Arctic Science Committee (IASC), Finnish Meteorological Institute, Helsinki, Finland.
067. *Jan'18*: General Assembly of the Blue-Action Project - Ballester J - Work progress in the Temperature-Related Mortality case study - Bologna, Italy.
066. *Dec'17*: AGU Fall Meeting 2017 - Ballester J, Rodó X, Robine JM, Herrmann FR - European seasonal mortality and influenza incidence due to winter temperature variability - American Geophysical Union (AGU), New Orleans, Louisiana, United States.
065. *Dec'17*: General Assembly of the PUCS Project - Ballester J, Marí Dell'Olmo M, Ingole V - Work Progress in the Health Case Study - Graz, Austria.
064. *Nov'17*: Climate Services at Work, Projects Exchange and Networking Lab - European Commission, Directorate General for Research and Technological Development, Brussels, Belgium.
063. *Sep'17*: Stakeholder Mapping Workshop of the PUCS Project - Ballester J, Marí Dell'Olmo M - Heat Health Climate Service for Barcelona - Agència de Salut Pública de Barcelona (ASPB), Barcelona, Catalonia, Spain.
062. *Aug'17*: 2017 Community Earth System Model (CESM) Tutorial - National Center for Atmospheric Research (NCAR), Boulder, Colorado, United States.
061. *Jul'17*: Climate Services Meeting of the Blue-Action Project - Ballester J - The Temperature-Related Mortality Case Study in Blue-Action - Climate Service Center Germany (GERICS), Hamburg, Germany.
060. *Jun'17*: 21st Conference on Atmospheric and Oceanic Fluid Dynamics - Petrova D, Ballester J, Koopmans S, Bordoni S, Cash B, García-Díez M, Rodó X - Role of the Western Pacific Heat Buildup for the Timing, Magnitude and Prediction of ENSO - American Meteorological Society (AMS), Portland, Oregon, United States.
059. *Jun'17*: Kick-off Meeting of the PUCS Project - Ballester J - The Temperature-Related Mortality Case Study in PUCS - Antwerp, Belgium.
058. *Jun'17*: 3rd ECCA Conference - Miller R, Payne M, Kiel K, Kolstad E, Ballester J, Lesser P, Vangsbo P - Translating advances in Arctic climate science to climate services across the Northern Hemisphere - European Climate Change Adaptation (ECCA), Glasgow, United Kingdom.
057. *May'17*: Impact of Environmental Changes on Infectious Diseases 2017 - Petrova D, Lowe R, Stewart-Ibarra A, Ballester J, Koopman SJ, Rodó X - Long-Lead El Niño Forecasts to Inform Public Health Decision Support Systems:

- Application to Predict Dengue in El Oro, Ecuador - The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy.
056. *Mar'17*: ISGlobal Scientific Seminars - Ballester J - Linkages between climate variability, predictability, impacts and services - Barcelona Institute for Global Health (ISGlobal), Barcelona, Catalonia, Spain.
055. *Mar'17*: Copernicus Climate Change Service General Assembly - Deluca A, Ballester J, Lowe R, Rodó X - Shaping the Copernicus Climate Change Service to provide fit-for-purpose information for decision-making for Health - MétéoFrance, Toulouse, France.
054. *Feb'17*: Fifth International Conference on Climate Services - Petrova D, Lowe R, Stewart-Ibarra A, Ballester J, Koopman SJ, Rodó X - Climate services for the health sector: long-lead El Niño forecasts to predict dengue risk in El Oro, Ecuador - Climate Services Partnership, Cape Town, South Africa.
053. *Feb'17*: Fifth International Conference on Climate Services - Deluca A, Ballester J, Rodó X, and the SECTEUR consortium - Shaping the Copernicus Climate Change Service to provide fit-for-purpose information for decision-making within the Health Sector - Climate Services Partnership, Cape Town, South Africa.
052. *Feb'17*: Fifth International Conference on Climate Services - Lowe R, Ballester J, García-Díez M, Creswick J, Robine JM, Herrmann FR, Rodó X - Development of an early warning system for heat wave related mortality in Europe: key outcomes and lessons learnt - Climate Services Partnership, Cape Town, South Africa.
051. *Feb'17*: Fifth International Conference on Climate Services - Ballester J, Rodó X, Deluca A, and the BLUE-ACTION and PUCS consortia - Forecast Scheme of Temperature-Related Mortality for decision-making in European Regions and Cities - Climate Services Partnership, Cape Town, South Africa.
050. *Jan'17*: Kick-off Meeting of the Blue-Action Project - Ballester J - The Temperature-Related Mortality Case Study in Blue-Action - Max Planck Institute, Berlin, Germany.
049. *Nov'16*: 2016 ASTMH Annual Meeting - Petrova D, Lowe R, Stewart-Ibarra A, Ballester J, Koopman SJ, Rodó X - Long-Lead El Niño Forecast Information to Support Public Health Decision Making: Application to Dengue Epidemics in Ecuador - American Society of Tropical Medicine and Hygiene (ASTMH), Atlanta, Georgia, United States.
048. *Oct'16*: MedECC Scoping Workshop - Ballester J - Climate Change Projections and Early Warning Systems of Temperature-Related Mortality - Mediterranean Experts on Climate and Environmental Change (MedECC), Aix-en-Provence, France.
047. *Jul'16*: Modeling of the Climate and the Relation between Temperature and Mortality - Ballester J - Action Plan to Avoid the Effects of Heat Waves on Health - Agència de Salut Pública de Catalunya (ASPCAT), Barcelona, Catalonia, Spain.
046. *Jun'16*: Risk Evaluation of the Introduction of the Zika virus in Catalonia - Ballester J - Climate Factors Determining the Spread of the Zika Virus - Institut de Salut Global (ISGlobal), Barcelona, Catalonia, Spain.
045. *Jun'16*: Kick Off Meeting of the SECTEUR project - Ballester J, Rodó X, Lowe R, Deluca A - Contribution of the Health Sector - University of Reading, Reading, United Kingdom.
044. *Jun'16*: Health and Climate Colloquium 2016 - Petrova D, Lowe R, Stewart-Ibarra A, Ballester J, Koopman SJ, Rodó X - Long-Lead El Niño Forecast Information to Support Public Health Decision Making - International Research Institute for Climate and Society (IRI), Palisades, New York, United States.
043. *Jun'16*: 36th International Symposium on Forecasting - Petrova D, Koopman SJ, Ballester J, Rodó X - Improved Forecasting of El Niño-Southern Oscillation with a Novel Structural Time Series Model - International Institute of Forecasters (IIF), Santander, Spain.
042. *Apr'16*: EGU General Assembly 2016 - Lowe R, García-Díez M, Ballester J, Creswick J, Robine JM, Herrmann FR, Rodó X - Evaluation of an early warning system for heat wave related mortality in Europe: implications for seasonal forecasting and climate services - European Geosciences Union (EGU), Vienna, Austria.
041. *Apr'16*: EGU General Assembly 2016 - García-Díez M, Lauwater D, Hooybergh H, Ballester J, De Ridder K, Rodó X - Do we need full mesoscale models to simulate the urban heat island? A study over the city of Barcelona - European Geosciences Union (EGU), Vienna, Austria.

040. *Apr'16*: EGU General Assembly 2016 - Petrova D, Koopman SJ, Ballester J, García-Díez M, Rodó X - Improving the Long-Lead Predictability of El Niño Using a Novel Forecasting Scheme Based on a Dynamic Components Model - European Geosciences Union (EGU), Vienna, Austria.
039. *Apr'16*: EGU General Assembly 2016 - Ballester J, Bordoni S, Petrova D, García-Díez M, Rodó X - Sensitivity of El Niño intensity and timing to the magnitude of the subsurface heat buildup - European Geosciences Union (EGU), Vienna, Austria.
038. *Nov'15*: Fall school on Statistical and mathematical tools for the study of climate extremes - Ballester J, Robine JM, Herrmann FR, Rodó X - Long-term projections and acclimatization scenarios of temperature-related mortality in Europe - Institut d'Études Scientifiques, Cargèse, France.
037. *Oct'15*: Inte Seminar - Grossi C, Serrano I, Camacho A, Ballester J, Morguá JA, Rodó X, Duch MA - Analysis of the relationship between climatic phenomena and atmospheric variability of ⁷Be and ²¹⁰Pb concentrations in northeastern Spain - Institut de Tècniques Energètiques (Inte), Barcelona, Catalonia, Spain.
036. *Oct'15*: 1st Ocean2k Workshop - Ballester J - Heat stress, temperature-related mortality and human adaptation - Cosmocaixa, Barcelona, Catalonia, Spain.
035. *Oct'15*: NACLIM General Assembly 2015 - Ballester J, Lowe R, García Díez M, Rodó X - Temperature-Related Mortality: Modelling and Prediction from the Continental to the Urban Scale - NACLIM, Almada, Portugal.
034. *Sep'15*: EUPORIAS General Assembly 2015 - Lowe R, García-Díez M, Ballester J, Creswick J, Robine JM, Herrmann FR, Rodó X - Evaluating the performance of a mortality model driven by an ensemble of seasonal climate forecasts - EUPORIAS, Winterthur, Switzerland.
033. *Sep'15*: ENVIRA 2015 - Grossi C, Serrano I, Camacho A, Ballester J, Morguá JA, Rodó X, Duch MA - Analysis of the relationship between climatic phenomena and atmospheric variability of ⁷Be and ²¹⁰Pb concentrations in northeastern Spain - IAEA and IUR, Thessaloniki, Greece.
032. *Sep'15*: 15th EMS Annual Meeting - A study of the Urban Heat Island of Barcelona using a fast urban climate model - García-Díez M, Ballester J, De Ridder K, Rodó X - European Meteorological Society (EMS), Sofia, Bulgaria.
031. *Jul'15*: Our Common Future Under Climate Change - Ballester J, Robine JM, Herrmann FR, Rodó X - Will climate warming decrease winter mortality in Europe? - ICSU, Future Earth and UNESCO, Paris, France.
030. *May'15*: Human Health in the Face of Climate Change: Science, Medicine, and Adaptation - Ballester J, Robine JM, Herrmann FR, Rodó X - Long-term projections and acclimatization scenarios of temperature-related mortality in Europe - New York Academy of Sciences, Barcelona, Catalonia, Spain.
029. *May'15*: Human Health in the Face of Climate Change: Science, Medicine, and Adaptation - Ballester J, Robine JM, Herrmann FR, Rodó X - Will climate warming decrease winter mortality in Europe? - New York Academy of Sciences, Barcelona, Catalonia, Spain.
028. *Apr'15*: EGU General Assembly 2015 - Ballester J, Bordoni S, Petrova D, Rodó X - On the relative role of meridional convergence and downwelling motion during the heat buildup leading to El Niño events - European Geosciences Union (EGU), Vienna, Austria.
027. *Apr'15*: EGU General Assembly 2015 - Lowe R, Ballester J, Creswick J, Robine JM, Herrmann FR, Rodó X - A climate-driven mortality modelling tool for Europe - European Geosciences Union (EGU), Vienna, Austria.
026. *Apr'15*: EGU General Assembly 2015 - Petrova D, Koopman SJ, Ballester J, Rodó X - Structural Time Series Model for El Niño Prediction - European Geosciences Union (EGU), Vienna, Austria.
025. *Apr'15*: EGU General Assembly 2015 - Curcoll Masanes R, Rodó X, Anton J, Ballester J, Jornet A, Nofuentes M, Sanchez-Manubens J, Morguá JA - Use of Lagrangian transport models and Sterilized High Volume Sampling to pinpoint the source region of Kawasaki disease and determine the etiologic agent - European Geosciences Union (EGU), Vienna, Austria.
024. *Apr'15*: CED Seminar - Ballester J, Robine JM, Herrmann FR, Rodó X - Will climate warming decrease winter mortality in Europe? - Centre d'Estudis Demogràfics (CED), Bellaterra, Catalonia, Spain.
023. *Jan'15*: Fifth Data without Boundaries Training Course - Centre d'Estudis Demogràfics (CED), Bellaterra, Catalonia, Spain.

022. *Dec'14*: AGU Fall Meeting 2014 - Ballester J, Bordoni S, Petrova D, Rodó X - Ocean-atmosphere mechanisms explaining the heat buildup leading to El Niño events - American Geophysical Union (AGU), San Francisco, California, United States.
021. *Nov'14*: 2nd International Ocean Research Conference - Petrova D, Koopman SJ, Ballester J, Rodó X - Unobserved Components Time Series Model for ENSO Prediction - Intergovernmental Oceanographic Commission of UNESCO, Barcelona, Catalonia, Spain.
020. *Apr'14*: EGU General Assembly 2014 - Lowe R, Ballester J, Creswick J, Robine JM, Herrmann FR, Rodó X - A decision support service for temperature-related mortality in Europe - European Geosciences Union (EGU), Vienna, Austria.
019. *Mar'14*: Environmental Science and Engineering Dynamics Group Seminar - Ballester J, Bordoni S, Petrova D, Rodó X - On the equatorial subsurface temperature buildup linking opposite ENSO events - California Institute of Technology (Caltech) - Pasadena, California, United States.
018. *Feb'14*: Ocean Sciences Meeting 2014 - Ballester J, Bordoni S, Petrova D, Rodó X - On the equatorial subsurface temperature buildup linking opposite ENSO events - American Geophysical Union (AGU), Honolulu, Hawaii, United States.
017. *Feb'14*: Ocean Sciences Meeting 2014 - Petrova D, Koopman SJ, Ballester J, Rodó X - Forecasting El Niño Using Unobserved Components Time Series Models - American Geophysical Union (AGU), Honolulu, Hawaii, United States.
016. *Dec'13*: AGU Fall Meeting 2013 - Lowe R, Ballester J, Robine JM, Herrmann FR, Jupp TE, Stephenson DB, Rodó X - A novel visualisation tool for climate services: a case study of temperature extremes and human mortality in Europe - American Geophysical Union (AGU), San Francisco, California, United States.
015. *Jan'13*: 93rd AMS Annual Meeting - Cayan D, Bainto E, Herzog L, Fabri OA, Uehara R, Burgner D, Ballester J, Rodó X, Burns JC, Tyree M, Paolini J, and the International Kawasaki Disease Climate Consortium - Association of Kawasaki Disease with Tropospheric Wind Patterns - American Meteorological Society (AMS), Austin, Texas, United States.
014. *Feb'12*: 10th International Kawasaki Disease Symposium - Cayan D, Bainto E, Herzog L, Fabri OA, Uehara R, Burgner D, Ballester J, Rodó X, Burns JC, Tyree M, Paolini J, and the International Kawasaki Disease Climate Consortium - An Apparent Seasonal Cycle in the Occurrence of Kawasaki Disease over the Globe - Hyatt Regency Kyoto, Kyoto, Japan.
013. *Mar'11*: Workshop on Drought Predictability and Prediction in a Changing Climate - Cosmocaixa, Barcelona, Catalonia, Spain.
012. *Sep'10*: Workshop on Kawasaki Disease - Ballester J, Rodó X - Interannual anomalies of Kawasaki Disease in Japan - Institut Català de Ciències del Clima (IC3), Barcelona, Catalonia, Spain.
011. *Jun'10*: INSERM Seminar - Ballester J, Rodó X - Projections of Temperature-Related Mortality - Institut National de la Santé et de la Recherche Médicale (INSERM), Montpellier, France.
010. *Nov'09*: Scientific Sessions PRBB - Ballester J, Rodó X - Scenario Changes in European Temperature Extremes - Centre de Recerca en Epidemiologia Ambiental (CREAL), Barcelona, Catalonia, Spain.
009. *Aug'09*: GFDL Seminar - Ballester J, Rodó X - Scenario Changes in European Temperature Extremes - Geophysical Fluid Dynamics Laboratory (GFDL), Princeton, New Jersey, United States.
008. *Apr'08*: Earth System Physics Seminar - Ballester J, Rodó X, Giorgi F - Regional Extremes and Climate Predictability in Europe - The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy.
007. *Mar'08*: 4th Workshop on the Theory and Use of Regional Climate Models - The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy.
006. *Jul'07*: Transferable and Professional Challenges in Cross-Scientific Global Climate Research, A Summer School for European Research Leaders of the Future - Ballester J - Climate predictability in Europe - Coimbra Group, University of Bergen, Bergen, Norway.

005. *Jun'07*: WCRP Workshop on Seasonal Prediction - Ballester J, Rodó X, Cash B - Potential sources of seasonal climate predictability in the Mediterranean basin - World Climate Research Programme (WCRP), Barcelona, Catalonia, Spain.
004. *Apr'07*: EGU General Assembly 2007 - Ballester J, Rodó X, Cash B - Potential sources of seasonal climate predictability in the Mediterranean basin - European Geosciences Union (EGU), Vienna, Austria.
003. *Nov'06*: New and Re-emerging Diseases, Populations and Climate - Cosmocaixa, Barcelona, Catalonia, Spain.
002. *May'06*: 3rd Workshop on the Theory and Use of Regional Climate Models - The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy.
001. *Mar'06*: Jornadas del Ministerio de Medio Ambiente - Ballester J, Rodó X - Generación de escenarios de cambio climático regional - Ministerio de Medio Ambiente, Madrid, Spain.

Other Merits

- Mar'21*: Director of the doctoral thesis "*Trends in Temperature-Related Mortality in Spain: Assessing Early Adaptation to Warming Climate*" by Hicham Achebak, Universitat Autònoma de Barcelona (UAB).
- Feb'19*: Committee member of the doctoral thesis "*Effectiveness of the Spanish plan to prevent the health effects of high temperatures*" by Èrica Martínez-Solanas, Universitat Pompeu Fabra (UPF).
- Jun'18*: Director of the master thesis "*Cohort study of the role of climate on child neurodevelopment in Spain*" by Ramon Requena, Universitat de Barcelona (UB).
- Since Jun'21*: Member of the Advisory Board of the Ecology Department of the Barcelona Metropolitan Area, <https://www.amb.cat/web/ecologia/>.
- Since 2020*: Founding member of the Association of ERC Grantees, <https://aerg.eu/>.
- Expert reviewer of the H2020 project EXHAUSTION, <https://www.exhaustion.eu/>
- Member of the Scientific organising committee of the Workshop "*Multi-annual to Decadal Climate Predictability in the North Atlantic-Arctic Sector*", jointly organised by Blue-Action, ROADMAP, the Bjerknes Climate Prediction Unit, the CLIVAR Climate Dynamics Panel, the CLIVAR Atlantic Region Panel and the CLIVAR Northern Oceans Region Panel. Proceedings available at <https://zenodo.org/record/5793263>
- Referee in peer-reviewed journals such as **The Lancet**, **Nature**, **The Lancet Planetary Health**, **Nature Climate Change**, **Science Advances**, **PLOS Medicine**, Scientific Reports, Environmental Health, International Journal of Epidemiology, Climate Dynamics, Bulletin of the American Meteorological Society, Climatic Change, Environmental Research Letters, International Journal of Climatology, Science of the Total Environment, Revue d'Epidémiologie et de Santé Publique, Environmental Research, European Respiratory Journal.
- Elsevier Atlas Award for Mueller et al. (2020).
- Best Environmental Epidemiology Paper (BEEP) Award, Honorable Mention, for Mueller et al. (2020).
- International Society for Environmental Epidemiology (ISEE) 2021 Abstract Winner for Ellena et al. (2021).
- International Society for Environmental Epidemiology (ISEE) 2020 Abstract Winner for Ellena et al. (2020).
- Teaching experience (Dec'05)*: Human dimensions of Global Change, UNESCO Chair, Universitat Politècnica de Catalunya, Barcelona, Catalonia, Spain.
- Summer school (Jul'07)*: Transferable and Professional Challenges in Cross-Scientific Global Climate Research, A Summer School for European Research Leaders of the Future, Coimbra Group, University of Bergen, Bergen, Norway.
- Languages*: Catalan and Spanish (mother tongues), English and French (fluent), Italian (basic skills).