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Dr. Muniesa's expertise is focused on bacteriophages and their role as mobile genetic elements in the environment. Her studies have been developed on Shiga toxin phages, phages encoding antibiotic resistance genes and other toxins, as drivers of pathogenicity in VTEC. Her studies also focused on the ecology of Stx phages and VTEC outside the gut. She has also been involved in the relationship bacteriophages/bacterial hosts, and in the application of bacteriophages infecting enteric bacteria as indicator microorganisms for the fecal pollution. Dr. Muniesa has coordinated several research projects on Stx phages and *E. coli* virulence and ecology. She has published more than 100 manuscripts in international peer-reviewed journals and chapters in specialized books. Dr. Muniesa acts as expert and project evaluator for different international agencies and as a reviewer for several microbiology journals.