At the height of the crisis, REACTing enabled the first research projects to be financed and hence initiated response to the crisis as quickly as possible.

The selected research projects

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Diagnostic, clinical and therapeutic | Epidemiology **|** Fundamental **|** Human and social science

Diagnostic, clinical and therapeutic research

Summary	Leader
Identification and characterization of human monoclonal antibodies neutralizing Covid-19 with the potential for development towards vaccine candidates.	**Hugo Mouquet** *Inserm, Institut Pasteur*
Establishment of an antibody profile in convalescing patients and preparation of a serological test applied to an epidemiological survey in people exposed to SARS-Cov-2.	**Marc Eloit** *Institut Pasteur* *Pathogen Discovery laboratory*
Evolution of SARS-Cov-2 in the human host during infection and humoral response.	**Sylvie van der Werf** *Institut Pasteur, CNRS* *National Reference Center for Respiratory Viruses, Molecular Genetics of RNA Viruses*
Strategy of repurposing medicines to treat Covid-19 infections.	**Bruno Lina** *Inserm, Université Claude Bernard Lyon 1, École Normale Supérieure, CNRS* *International Center for Research on Infectious Diseases – CIRI*
Implantation of an assisted ventilation protective mask: acceptability and incorporation in the organization of care.	**Jean-Christophe Lucet** *Inserm, Université de Paris, Université Paris 13* *Infection, Antimicrobials, Modelling, Evolution (IAME) unit*
Randomized, multicenter, adaptive study of the efficacy and safety of treatments for hospitalized patients presenting with Covid-19 infection.	**Florence Ader** *Inserm, CNRS, Université Claude Bernard Lyon 1, École Normale Supérieure de Lyon* *International Center for Research on Infectious Diseases (CIRI)*

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Epidemiology

Summary	Leader
Mathematical modelling to anticipate risk of Covid-19 importation by geographical area.	**Vittoria Colizza** *Inserm, Sorbonne Université* *Pierre Louis Institute of Epidemiology and Public Health*
Monitoring of a cohort of all infected patients in France: a viral kinetics study in untreated patients and a pharmacokinetics and pharmacodynamics (PK/PD) study of those receiving experimental therapies (remdesivir).	**France Mentré** *Inserm, Université de Paris, Université Paris 13* *Infection, Antimicrobials, Modelling, Evolution (IAME) unit*
Monitoring of subjects with confirmed exposure to the novel 2019 coronavirus through virology and immunology studies.	**Xavier Duval** *Inserm, Université de Paris, Université Paris 13* *Infection, Antimicrobials, Modelling, Evolution (IAME) unit* *Bichat Clinical Investigation Center*

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Fundamental

Summary	Leader
Development of a replicon for coronavirus Covid-19.	**Dr. Jean-François Eléouët** *INRAE* *Molecular Virology and Immunology unit*
Potentiating existing nucleoside therapies.	**Bruno Canardet – Etienne Decroly** *CNRS, Aix-Marseille Université* *Architecture and Function of Biological Macromolecules laboratory*
Implementation of an experimental model of SARS-CoV-2 infection in the cynomolgus monkey.	**Roger Le Grand** *Inserm, CEA, Université Paris-Saclay* *National Infrastructure for Biology and Health (IDMIT)*
Live animal and endangered wildlife markets: a study evaluating the risks of Covid-19 transmission in the Mekong Delta region.	**Philippe Dussart** *Institut Pasteur in Cambodia*
Role of furins in SARS-CoV-2 Spike protein maturation: evaluation of the antiviral potential of furin inhibitors.	**Bruno Coutard** *Aix-Marseille Université, CNRS* *Emergence of Viral Pathologies laboratory, Polytech Marseille*
Proof of concept for the rapid production of recombinant SARS-CoV-2.	**Julien Mélade** *Inserm, IRD, Aix-Marseille Université, French Blood Establishment, École des Hautes Études en Santé Publique* *Emerging Viruses unit*
Multidisciplinary project combining artificial intelligence methods with proteins biochemistry. Aims to (1) reconstitute the Covid-19 replication complex in vitro; (2) model it in silico and (3) test nucleotide analog inhibitors (active on other viruses) and protein inhibitors (nanobodies) that will target the protein/protein interactions.	**Isabelle Imbert** *Aix-Marseille Université, CNRS* *Architecture and Function of Biological Macromolecules laboratory, Polytech Marseille*

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Human and social science

Summary	Leader
Use of the social sciences to inform public policy in terms of communication in the event of an emerging epidemic, based on social media treatment of the Covid-19 epidemic.	**Laetitia Atlani-Duault** *Inserm, IRD, Université de Paris* *Health, Gender and Vulnerability in Developing Countries unit*
The aim of the AEC2-France project is to document and analyze, through anthropology research, the organized confinement for French nationals repatriated from Wuhan, epicenter of the Covid-19 epidemic.	**Marc Egrot** *IRD, Aix-Marseille Université* *Population-Environment-Development laboratory*
General population and healthcare professional knowledge, perceptions and behaviors in Metropolitan France in the face of the Covid-2019 epidemic.	**Thomas Hanslik** *Inserm, Sorbonne Université* *Pierre Louis Institute of Epidemiology and Public Health*
The aim of this project, which mobilizes data collected online and via interviews, is to produce an analytical description of the circulation of scientific data and their principal effects and a framework of analysis combining scientific and political challenges with a view to future research projects.	**Guillaume Lachenal** *Science Po* *Médialab* **Daniel Benamouzig** *CNRS, Sciences Po* *Center for the Sociology of Organizations*