

Biosketch Claire HIVROZ, DR1 Inserm, team leader, ORCID: 0000-0002-6794-2890

Inserm U932, Institut Curie, "Integrative analysis of T lymphocyte activation" team

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Claire Hivroz got her PhD in immunology in 1989 (Hopital Saint Louis, Paris). She then performed a postdoc in Doreen Cantrell's lab (Imperial Cancer Research Fund, London) where she studied signaling through the TCR. She got a permanent Inserm position in 1993 in the laboratory of Pr Alain Fischer (Hôpital Necker, Paris). She contributed to the description of immunodeficient patients presenting defects in TCR signaling (zap70 deficiencies and defects in Ca<sup>2+</sup> response).

From 1999 until now she has been a team leader at Institut Curie. Her main contributions were to show that TCR signaling is required for immune synapse formation; that this structure controls vesicular trafficking of signaling molecules and T cell activation.

Investigating the role of mechanobiology in T cell activation, she showed that T cell develop forces upon TCR stimulation that test the mechanical environment of T lymphocytes, which shape their responses.

She is a member of the ethic committee of Institut Curie and of the board for scientific integrity.

Claire Hivroz published over 100 publications in peer-reviewed journals.