Dr. Thomas Steimlé

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Hôpital Necker Enfants Malades – Laboratoire d'Onco-Hématologie Tour Pasteur – 149 rue de Sèvres 75015 Paris

Education

2022 – act. **PhD in Biosciences and Bioinformatics**, TAGC Inserm U1090 (Marseille), "Normal and Pathological Hematopoiesis" at Inserm U1151 (Paris) *"Integrative genomics to unravel meaningful and targetable regulatory pathways for personalized treatment of t-cell acute lymphoblastic leukemia."*

2019 – 2020 **Master of Science**, Oncology specialization track (Paris-Saclay University)

2012 – 2016 **MD in Pathology-Biology** (Université de Dijon), MD thesis: *"Identification de mutations ponctuelles dans les lymphomes B diffus à grandes cellules."*

2014 – 2015 **University degree** Hematological cytology (Bourgogne-Franche-Comté University)

2013 – 2014 **University degree** Laboratory quality management system "Formation aux normes de qualité en vigueur applicables aux laboratoires de biologie médicale" (Sorbonne University, Pierre and Marie Curie Campus)

Work Experience

2022 – act. **PhD student**, TAGC Inserm U1090 (Marseille), "Normal and Pathological Hematopoiesis" at Inserm U1151 (Paris)

2018 – 2022 **Assistant – Junior Doctor**, Hôpital Necker Enfants Malades (Paris), Onco-Hematology Laboratory

2016 – 2018 **Assistant – Junior Doctor**, Institut Gustave Roussy (Villejuif), Hematology Laboratory

2012 – 2016 **Resident in Medical Biology – Pathology**, Hôpital Universitaire du Bocage (Dijon)

2009 – 2012 **Medical student (extern) and Nursing Assistant**, Hôpitaux Universitaires de Strasbourg

Grant

2022 – act. **PhD position for medical residents and junior doctors**, Fondation pour la Recherche Médicale (FRM) for *"Integrative genomics to unravel meaningful and targetable regulatory pathways for personalized treatment of T-cell acute lymphoblastic leukemia."*

Teaching

2019 – 2022 **Teaching assistant**, Practical sessions in hematology for students in the second cycle of medical studies at the University of Paris.

2018 – 2022 **Courses for medical students** during their internship at the onco-hematology laboratory.

Publications

2025 Charlotte Smith, Guillaume Charbonnier, Mathieu Simonin, Estelle Balducci, **Thomas Steimlé**, Guillaume P Andrieu, Agata Cieslak, Marianne Courgeon, Marc LeLorc'h, Anand Mayakonda, Christoph Plass, Aurélie Le Nezet, Mehdi Latiri, Norbert Ifrah, Hervé Dombret, Françoise Huguet, André Baruchel, Elizabeth Macintyre, Arnaud Petit, Nicolas Boissel, Vahid Asnafi, Aurore Touzart. Towards methylation-based redefinition of TAL1 positive T-cell acute lymphoblastic leukaemia (T-ALL) *Leukemia* doi:10.1038/s41375-025-02714-3

2024 Estelle Balducci, Mathieu Simonin, Nicolas Duployez, **Thomas Steimlé**, Marie-Emilie Dourthe, Patrick Villarese, Stéphane Ducassou, Isabelle Arnoux, Jean-Michel Cayuela, Marie Balsat, Lucien Courtois, Guillaume Andrieu, Aurore Touzart, Françoise Huguet, Arnaud Petit, Norbert Ifrah, Hervé Dombret, André Baruchel, Elizabeth Macintyre, Claude Preudhomme, Nicolas Boissel, Vahid Asnafi. Genomic imbalance analysis provides new insight into prognostic factors in adult and pediatric T-ALL. *Blood* doi:10.1182/blood.2023022154

2023 **Thomas Steimlé**, Estelle Balducci, , Charlotte Smith, Patrick Villarese, Mélanie Feroul, Dominique Payet-Bornet, Sophie Kaltenbach, Lucile Couronné, Ludovic Lhermitte, Aurore Touzart, Marie-Emilie Dourthe, Mathieu Simonin, André Baruchel, Hervé Dombret, Norbert Ifrah, Nicolas Boissel, Bertrand Nadel, Elizabeth Macintyre, Agata Cieslak, & Vahid Asnafi. TREC mediated oncogenesis in human immature T lymphoid malignancies preferentially involves ZFP36L2 *Molecular Cancer*. doi:10.1186/s12943-023-01794-y

2022 **Thomas Steimlé**, Marie-Emilie Dourthe, Marion Alcantara, Aurore Touzart, Mathieu Simonin, Johanna Mondesir, Jonathan Bond, Carlos Graux, Nathalie Grardel, Jean-Michel Cayuela, Isabelle Arnoux, Virginie Gandemer, Marie Balsat, Norbert Vey, Elizabeth Macintyre, Norbert Ifrah, Hervé Dombret, Arnaud Petit, André Baruchel, Philippe Ruminy, Nicolas Boissel & Vahid Asnafi. Clinico-biological features of T-cell acute lymphoblastic leukemia with fusion proteins *Blood Cancer Journal*. doi:10.1038/s41408-022-00613-9

2022 Estelle Balducci, Sophie Kaltenbach, Patrick Villarese, Eugénie Duroyon, Loria Zalmai, Chloé Friedrich, Felipe Suarez, Ambroise Marcais, Didier Bouscary, Justine Decroocq, Rudy Birsen, Michaëla Fontenay, Marie Templé, Chantal Brouzes, Aurore Touzart, **Thomas Steimlé**, Agata Cieslak, Ludovic Lhermitte, Carole Almire, Nicolas Chapuis, Olivier Hermine, Vahid Asnafi, Olivier Kosmider & Lucile Couronné. Optical genome mapping refines cytogenetic diagnostics, prognostic stratification and provides new molecular insights in adult MDS/AML patients *Blood Cancer Journal*. doi:10.1038/s41408-022-00718-1

2021 Nabih Maslah, Mehdi Latiri, Vahid Asnafi, Mélanie Féroul, Nawel Bedjaoui, **Thomas Steimlé**, Emmanuelle Six, Els Verhoyen, Elizabeth Macintyre, Chantal Lagresle-Peyrou, Guillaume P. Andrieu. Adenylate kinase 2 expression and addiction in T-ALL *Blood Advances*. doi:10.1182/bloodadvances.2020002700

Open Science

2023 **SV Finder** | github.com/Dr-TSteimle/sv-finder
Software for detection and characterization of structural variants in massively parallel sequencing data.

Data Science

Programming languages R Rust Python Javascript LaTeX

Projects

- Implementation of a pipeline for detecting insertions sites of HTLV1 in human genome NGS data.
- NGS Exome analysis (alterations and CNV) of mantle cell lymphomas.
- NGS Exome analysis fo CLOVES syndrome samples (very low VAF) with amplicon panel confirmation.
- Software development for finding structural variants in targeted NGS data (TCRδ translocations, cf. SV finder).
- Longreads sequencing analysis and pipeline development.

Experimental Laboratory

Skills

- Optical Microscopy, expert in bone marrows, blood and liquids diagnosis in hematology (100+ diagnosis performed).
- Flow Cytometry preparation and analysis for diagnosis, MRD and experiments (R, flowjo, BD).
- NGS target panels and exomes, from design to analysis.
- Longreads sequencing, implementation, development and analysis.
- PCR (Q and RT) from design to analysis.
- Cell culture, drug testing with synergy analysis.
- Different kinds of benchtop automated system.

Language Skills

English	Full professional proficiency scientific and medical (C2)
German & Spanish	Intermediate (B2)