

Manuscript no. HAEMATOL/2011/044644 entitled "Distinct deregulation of the hypoxia inducible factor by PHD2 mutants identified in germline DNA of patients with polycythemia"

Authors: Charline Ladroue, David Hoogewijs, Sophie Gad, Romain Carcenac, Federica Storti, Michel Barrois, Anne-Paule Gimenez-Roqueplo, Michel Leporrier, Nicole Casadevall, Olivier Hermine, Jean-Jacques Kiladjian, André Baruchel, Fadi Fakhoury, Brigitte Bressac- de Paillerets, Jean Feunteun, Nathalie Mazure, Jacques Pouysségur, Roland H. Wenger, Stéphane Richard and Betty Gardie. * equal contribution to the work

Information about the contributions of each person named as having participated in the study

1) Guarantor(s), i.e., person(s) who is (are) responsible for the integrity of the work as a whole:

- Betty Gardie, Génétique Oncologique EPHE, INSERM U753, Institut de Cancérologie Gustave Roussy, Villejuif et Faculté de Médecine Paris-Sud, Le Kremlin-Bicêtre, France, betty.gardie@inserm.fr

- Stéphane RICHARD, Génétique Oncologique EPHE, INSERM U753, Institut de Cancérologie Gustave Roussy, Villejuif et Faculté de Médecine Paris-Sud, Le Kremlin-Bicêtre, France, stephane.richard@u-psud.fr

According to the International Committee of Medical Journal Editors (ICMJE)

(http://www.icmje.org/ethical_1author.html): "Authorship credit should be based on: 1) substantial contributions to conception and design, acquisition of data, or analysis and interpretation of data; 2) drafting the article or revising it critically for important intellectual content; and 3) final approval of the version to be published. Authors should meet conditions 1, 2, and 3 Acquisition of funding, collection of data, or general supervision of the research group alone does not constitute authorship".

The guarantors of this manuscript confirm that all persons designated as authors qualify for authorship, and that each author has participated sufficiently in the work to take public responsibility for appropriate portions of the content.

2) Authors who participated in the **conception of the study**: Betty Gardie, Stéphane Richard, David Hoogewijs, Roland Wenger, Charline Ladroue, Jacques Pouyssegur and Nathalie Mazure.

3) **Design & Methods**. The following authors were responsible for specific investigations (please detail):

- Betty Gardie, Charline Ladroue, David Hoogewijs, Romain Carcenac, Federica Storti were responsible for reporter assays.
- Betty Gardie and Charline Ladroue were responsible for *in vitro* assay
- Sophie Gad, Romain Carcenac, Michel Barrois, Anne-Paule Gimenez-Roqueplo were responsible for sequencing analysis.
- Michel Leporrier, Nicole Casadevall, Olivier Hermine, Jean-Jacques Kiladjian, André Baruchel, Fadi Fakhoury, Stéphane Richard were responsible for collection of the clinical data and blood samples and obtained agreement of the ethics committee of our institution.
- Jacques Pouysségur, Nathalie Mazure, Brigitte Bressac- de Paillerets and Jean Feunteun participated in the scientific discussion to design the paper.

4) **Results**. The following authors were responsible for specific portions of the results, including figures and tables (please indicate the person responsible for each figure and each table):

- Betty Gardie, Stéphane Richard, Charline Ladroue, and Romain Carcenac were responsible for Figure 1
- Betty Gardie and David Hoogewijs were responsible for Figure 2.

- Betty Gardie and Charline Ladroue were responsible for Figure 3.
- David Hoogewijs was responsible for the supplementary Figure S1.

5) **Writing the manuscript.** The following authors were responsible for writing the manuscript:

- Betty Gardie, David Hoogewijs, Roland Wenger, Stéphane Richard and Charline Ladroue, were responsible for writing the manuscript.
- All authors critically reviewed the manuscript.

6) **Contributors Listed in Acknowledgments:** (Examples of those who might be acknowledged include a person who provided purely technical help, writing assistance, or a department chair who provided only general support. Corresponding authors must declare whether they had assistance with the study design, data collection, data analysis, or manuscript preparation. If such assistance was available, the authors must disclose the identity of the individuals who provided this assistance and the entity that supported it. Financial and material support should also be acknowledged.)

Contributors listed in Acknowledgments:

- Christophe Marzac, Bruno Varet, Aurélie Hummel, Bruno Cassinat (help in patient recruitment)
- Sylvie Hermouet (for scientific discussions).

Financial support:

- “Association pour la Recherche sur le Cancer” (ARC),
- French National Cancer Institute (“INCa”, PNES Rein, and Réseau National Prédispositions héréditaires au cancer du rein)
- French Ligue Nationale contre le Cancer (Comités du Cher et de l’Indre)
- HypoxiaNet COST Action TD0901
- postdoctoral Marie Curie IEF Fellowship from the European Commission
- Sassella Stiftung.
- State Secretariat of Education and Research (C10.0106)
- NCCR Kidney.CH, funded by the SNF.