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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:
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2) **Authors who participated in the conception of the study:** Miguel A Piris

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

- Esperanza Martín-Sánchez was the responsible for the majority of experiments, except the following ones:
- Luis Lombardía and Diana Romero were responsible for the sequencing in PTCL cell lines.
- Pablo García-Sanz and Juan F García were responsible for the sequencing of the *PIK3CD* gene in PTCL cases.
- Guido Kurz, Carmen Blanco-Aparicio and James R Bischoff were responsible for the development of the pan-PI3K inhibitor ETP-45658.
- Manuela Mollejo, Francisco J Alves, Javier Menárguez, Fernando González-Palacios and José Luis Rodríguez-Peralto were responsible for the diagnosis, storing and providing PTCL samples.
- Pablo L Ortiz-Romero was responsible for the diagnosis, storing and providing Sezary Syndrome patients’ and healthy donors’ samples.

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):

- Esperanza Martín-Sánchez was the responsible for all the experiments and figures, in some of them in collaboration with:
- Magdalena B Wozniak was the responsible for a portion of the analysis of the PTCL molecular signature (Figure 1A).
- Lina Odqvist was the responsible for the quantitative PCR of *PIK3CD* and *PIK3CA* in the samples from Sezary Syndrome patients (Figure 1D).

- Beatriz-Domínguez-González was the responsible for some Western blots in Figure 4B.

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

- Esperanza Martín-Sánchez was the responsible for writing the manuscript.
- Socorro M Rodríguez-Pinilla, Margarita Sánchez-Beato, Juan F García and Miguel A Piris were the responsible for revising the manuscript.

6) **Contributors Listed in Acknowledgments:**

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