**Supplementary material**

***CACNA1H* mutations are associated with different forms of primary aldosteronism**

Georgios Daniil1,2\*, Fabio L Fernandes-Rosa1,2,3\*#, Jean Chemin4,5, Iulia Blesneac4,5, Jacques Beltrand2,6,7,8,Michel Polak2,6, Xavier Jeunemaitre1,2,3, Sheerazed Boulkroun1,2, Laurence Amar1,2,9, Tim M Strom10,11, Philippe Lory4,5, Maria-Christina Zennaro1,2,3#

1INSERM, UMRS\_970, Paris Cardiovascular Research Center, Paris, France

2Université Paris Descartes, Sorbonne Paris Cité, Paris, France

3Assistance Publique-Hôpitaux de Paris, Hôpital Européen Georges Pompidou, Service de Génétique, Paris, France

4Institut de Génomique Fonctionnelle, Université de Montpellier, CNRS UMR 5203, INSERM U 1191, Montpellier F-34094, France

Montpellier France

5LabEx Ion Channel Science and Therapeutics, Montpellier F-34094, France;

6Assistance Publique-Hôpitaux de Paris, Hôpital Necker Enfants Malades, Service d’Endocrinologie, Paris, France

7Inserm UMR\_1016, Institut Cochin, Paris, France
8Institut Imagine, Paris Descartes – Université Sorbonne Paris Cité, Paris, France

9Assistance Publique-Hôpitaux de Paris, Hôpital Européen Georges Pompidou, Unité Hypertension artérielle, Paris, France

10Institute of Human Genetics, Helmholtz Zentrum München, Neuherberg, Germany

11Institute of Human Genetics, Technische Universität München, Munich, Germany

\*equal contribution

#Corresponding author

Address correspondence to:

Maria-Christina Zennaro, MD, PhD

INSERM, U970

Paris Cardiovascular Research Center – PARCC

56, rue Leblanc,

75015 Paris – France

Tel : +33 (0)1 53 98 80 42

Fax : + 33 (0)1 53 98 79 52

e-mail : maria-christina.zennaro@inserm.fr

Fabio Fernandes Rosa, MD, PhD

INSERM, U970

Paris Cardiovascular Research Center – PARCC

56, rue Leblanc,

75015 Paris – France

Tel : +33 (0)1 53 98 80 43

Fax : + 33 (0)1 53 98 79 52

e-mail : fabio.fernandes-rosa@inserm.fr

**Table S1**. **Primers used for *CACNA1H* sequencing**

|  |  |  |
| --- | --- | --- |
| ***CACNA1H\**** |  |  |
| **Exon 5** | **Foward** | CTTCCTGGCCAGTACAAGGT |
|  | **Reverse** | TTACTAGGCACGCGGTTGAT |
| **Exon 25** | **Foward** | TGCAGAACCACAACCCCTG |
|  | **Reverse** | ACCGGGAGCGCCTTACTC |
| **Exon 33** | **Foward** | CGACAGCTACATGTTCAGGC |
|  | **Reverse** | CTTCCTCTTGCCCTGCTCT |
| **Exon 35** | **Foward** | CCTGGATGGTGAGGGGTCT |
|  | **Reverse** | GCTGGTGATGTGGCTGAC |

 \*NM\_ 02198

**Table S2**. **Primers used for real-time RT-qPCR**

|  |  |  |
| --- | --- | --- |
| Gene Symbol | Forward primer | Reverse primer |
| *18S* | CCCTGCCTTTGTACACACC | CGATCCGAGGGCCTCACTA |
| *HPRT* | CTCAACTTTAACTGGAAAGAATGTC | TCCTTTTCACCAGCAAGCT |
| *GAPDH* | TGCACCACCAACTGCTTAGC | GGCATGGACTGTGGTCATGAG |
| *CACNA1H* | CTTCTTCTGCCTCGGTCAGA | TGATTACCAGCATGCTCACG |
| *StAR* | ATGAGTAAAGTGGTCCCAGATG | ACCTTGATCTCCTTGACATTGG |
| *HSD3B1* | AAGGCCTTCGGACCAGAATT | GGCTCTCTTCAGGAATGGCT |
| *HSD3B2* | CTGGTGTAGATGAAGACTGGCAC | CGCCTGTATCATTGATGTCTTTGG |
| *CYP21A2* | GAGTAGTCTCCCAAGGACAGGT | GTGGTGCTGAACTCCAAGAGGA |
| *CYP11B2* | GTGTGGAAGGAGCACTTTGAGG | GATGCCTGTGTAGTGTTGAGGC |