

Biallelic *loss-of-function* *LACC1/FAMIN* Mutations Presenting as Rheumatoid Factor-Negative Polyarticular Juvenile Idiopathic Arthritis

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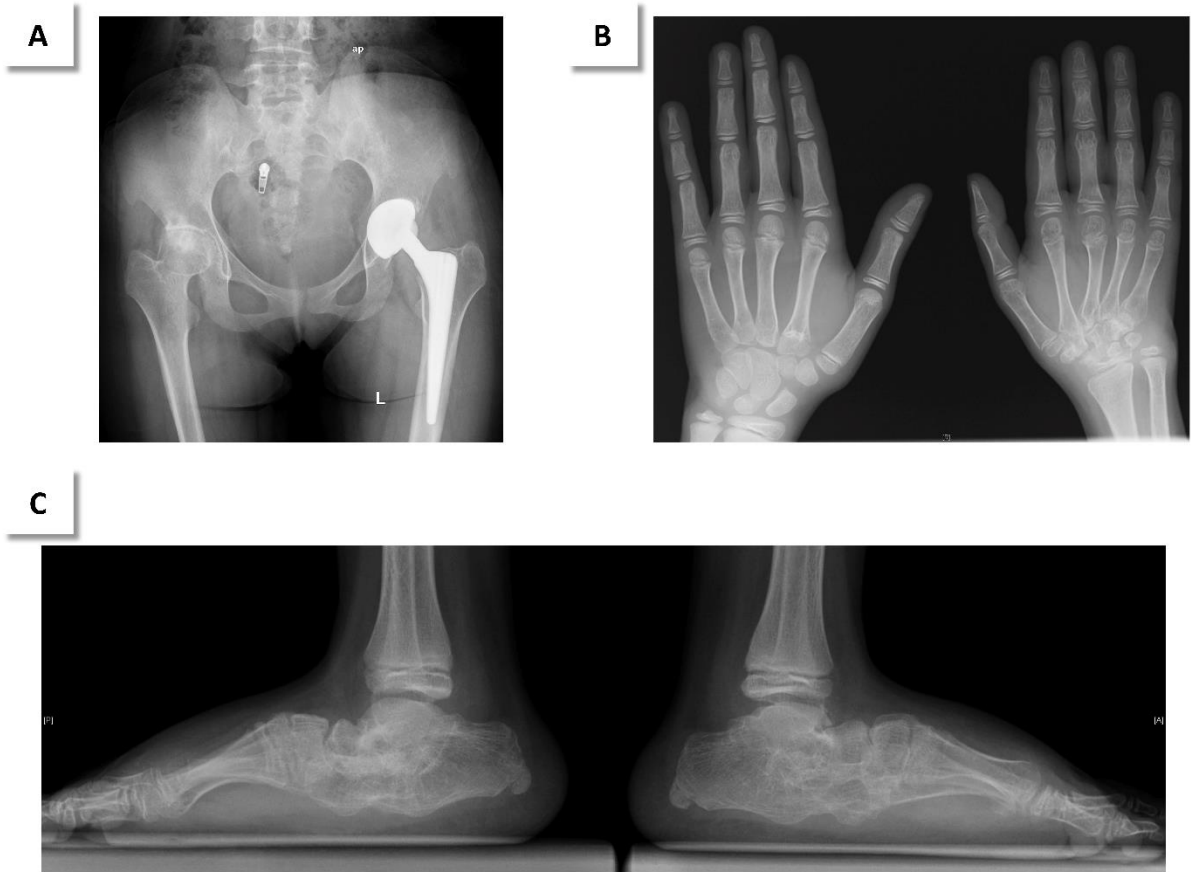
Supplementary figures and tables

Legends

Supplementary Figure 1. Panel A. Radiography of Patient II-4 showing a marked narrowing of articular space at right hip and prosthetic left hip replacement performed at the age of 18 years. Panels B and C. Radiographies of Patient II-5 showing carpal bone fusion and subluxation at the right wrist (Panel B) and growth abnormalities and ankylosis affecting both feet (Panel C).

Supplementary Figure 2. Multi-species alignment of *FARS2*-encoded protein. The asterisk indicates the amino acid residue corresponding to the candidate p.Asp169Val gene variant.

Supplementary Table S1. Homozygosity regions shared exclusively by patients detected by genome-wide SNP analysis. The start and end positions from human reference genome build hg19 are shown and the size of the regions is given in bp.



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Supplemental Figure 2

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<i>Homo sapiens</i>	SAHQWDL LHAGLDAFLVVGDVYRRD
<i>Pan troglodytes</i>	SAHQWDL LHAGLDAFLVVGDVYRRD
<i>Macaca mulatta</i>	SAHQWDL LHAGLDAFLVVGDVYRRD
<i>Mus musculus</i>	SAHQWDL LHAGLNAFLVVGDVYRRD
<i>Rattus norvegicus</i>	SAHQWDL LHAGLNAFLVVGDVYRRD
<i>Xenopus tropicalis</i>	SAHQWDL MNSGLDAFLAVGDVYRRD
<i>Drosophila melanogaster</i>	TAHQVELISGGLDNFLVVGEVYRRD
<i>Caenorhabditis elegans</i>	SAHQHNL MQSGLDAFLVIGDVYRRD
<i>Takifugu rubripes</i>	LSHPHQNLHSLVVLHLLFIDVYGLV

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Chromosome	Start	End	Size	Number of genes
Chr 3	4546671	11571302	7024631	71
Chr 6	5800452	6587594	787142	3
Chr 6	106423900	121477800	15053900	107
Chr 13	42396150	70141036	27744886	149