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Targeted next generation sequencing approach identifies nineteen new candidate genes in normosmic hypogonadotropic hypogonadism and Kallmann Syndrome

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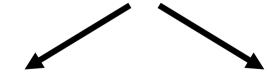
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48 Patients with Normosmic Hypogonadotropic Hypogonadism (nHH) or Kallmann Syndrome (KS)

Targeted next generation sequencing of 261 candidate genes (hypothalamic, olfactory, pituitary, GnRH, positional)

Confirmatory Sanger Sequencing & study of available family members



2 likely pathogenic novel *FGFR1* mutations

19 new nHH/KS candidate genes

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