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POSTER PRESENTATION

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# Polymorphisms in the interleukin 4, interleukin 13 and corresponding receptor genes are not associated with Systemic Sclerosis and do not influence gene expression

JCA Broen<sup>1\*</sup>, P Dieude<sup>2</sup>, M C Vonk<sup>1</sup>, L Beretta<sup>3</sup>, B Rueda<sup>4</sup>, A Herrick<sup>5</sup>, J Worthington<sup>5</sup>, N Hunzelmann<sup>6</sup>, G Riemekasten<sup>7</sup>, H Kiener<sup>8</sup>, R Scorza<sup>3</sup>, C P Simeon<sup>9</sup>, V Fonollosa<sup>9</sup>, P Carreira<sup>10</sup>, N Ortego-Centeno<sup>11</sup>, M A Gonzalez-Gay<sup>12</sup>, P Airò<sup>13</sup>, MJH Coenen<sup>14</sup>, A Aliprantis<sup>15</sup>, J Martin<sup>4†</sup>, Y Allanore<sup>16†</sup>, TRDJ Radstake<sup>1†</sup>

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## Aim

Polymorphisms in the interleukin 4 (IL4), interleukin 13 (IL13) and their corresponding receptors have previously been found associated with systemic sclerosis (SSc). In this study we aim to validate these previous observations and scrutinize their effects on gene expression.

## Patients and methods

We genotyped a cohort consisting of 1902 systemic sclerosis patients and 1503 healthy controls, derived from France, The Netherlands, Spain, United Kingdom, Italy and Germany. Taqman assays were used for genotyping three SNPs correlating with IL-4 and receptor; interleukin 4 alpha receptor Q576R (rs1801275), interleukin 4 RI75V (rs1805010), and -590C/T (rs2243250). In the IL-13 gene the following SNPs were genotyped; R130Q (rs20541), (-1112C/T), rs1800925 and rs6646259 (base 43163:G/A). In addition, we investigated the effect of these polymorphisms on corresponding gene expression with RT-PCR in B cells, T cells, plasmacytoid dendritic cells, monocytes and myeloid dendritic cells.

## Results

None of these polymorphisms was found to be enriched in the SSc population or in any SSc clinical subtype. In addition, we did not observe an effect on expression levels in the cell subtypes.

## Conclusions

Our data show that these polymorphisms do not play a role in SSc and do not influence gene expression levels.

## Author details

<sup>1</sup>Dept. of Rheumatology, Radboud University Nijmegen Medical Center, The Netherlands. <sup>2</sup>Université Diderot Paris 7, Service de Rhumatologie, Hôpital Bichat Claude Bernard, Paris, France. <sup>3</sup>Referral Center for Systemic Autoimmune Diseases, University of Milan, Italy. <sup>4</sup>Instituto de Parasitología y Biomedicina, CSIC, Granada, Spain. <sup>5</sup>Rheumatic Diseases Centre, University of Manchester, Salford Royal NHS Foundation Trust, UK. <sup>6</sup>Dept. of Dermatology, University of Cologne, Germany. <sup>7</sup>Dept. of Rheumatology and Clinical Immunology, Charité University Hospital and German Rheumatism Research Centre, a Leibniz institute. <sup>8</sup>Dept. of Internal Medicine, Division of Rheumatology, University of Vienna, Austria. <sup>9</sup>Servicio de Medicina Interna, Hospital Vall d'Hebron, Barcelona, Spain. <sup>10</sup>Servicio de Reumatología, Hospital 12 de Octubre, Madrid, Spain. <sup>11</sup>Servicio de Medicina Interna, Hospital Xeral-Calde, Lugo, Spain. <sup>12</sup>Servicio de Reumatología, Hospital Marques de Valdecillas, Santander, Spain. <sup>13</sup>Servizio di Reumatologia ed Immunologia Clinica, Spedali Civili, Brescia, Italia. <sup>14</sup>Dept. of Human Genetics, Radboud University Nijmegen Medical Center, The Netherlands. <sup>15</sup>Dept. of Immunology and Infectious Diseases, Harvard School of Public Health, Boston, MA, USA. <sup>16</sup>Université Paris Descartes, INSERM U781, Hôpital Necker, Paris, France and Université Paris Descartes, Service de Rhumatologie A, Hôpital Cochin, Paris, France.

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† Contributed equally

<sup>1</sup>Dept. of Rheumatology, Radboud University Nijmegen Medical Center, The Netherlands

Full list of author information is available at the end of the article