



# Synovial Tissue Chemokine and Receptor Expression in Rheumatoid Arthritis, Osteoarthritis and Reactive Arthritis

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## Abstract

**Keywords:** Chemokine; Receptor; Synovial TISSUE; Rheumatoid Arthritis; Osteoarthritis; Reactive Arthritis

## Introduction

Arthritis is a group of diseases characterized by inflammation of the joints. Rheumatoid arthritis (RA), osteoarthritis (OA), and reactive arthritis (ReA) each have distinct clinical features. Underlying mechanisms are unclear. Rheumatoid arthritis is characterized by chronic inflammation of the joints, leading to joint damage. In RA, chemokines, such as CXCL8 and CXCL12, and their receptors, such as CXCR1 and CXCR2, are involved in the disease process [2]. OA is characterized by degenerative changes in the joints, leading to joint pain and dysfunction. In OA, chemokines, such as CXCL12, and their receptors, such as CXCR2, are involved in the disease process [3-6]. Bacterial infection is a common cause of ReA, leading to joint inflammation and pain. In ReA, chemokines, such as CXCL12, and their receptors, such as CXCR2, are involved in the disease process [7].

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di ib i e e a e ed i g ligh ic c a d a al ed ih i age a al i a e.

T al RNA a e aced f f e i e a le ig eci c RNA e aci ki [8]. cDNA a he i ed f RNA i ga e e e a ci i ki. PCR a ef ed ih eci c i e f che ki e a d hei ece . Relai e e e i le el e e ali ed h eke e i g ge e (e.g., GAPDH) [9]. PCR eaci i cl ded -e laec lada le ih e e e a ci a e check f c a i ai . e i e i f ai ig a d e ce age f i i el ai ed cell e e a i ed i gi age a al i a e a d c a ed ac RA, OA, a d ReA g . Saiical ig i ca ce a de e i ed ig ANOVA ih h c e f lile c ai (e.g., T ke e ). Relai e ge e e e i le el e e calc la ed ig he CT eh d. Saiical c ai be e e g e e e f ed ig -e ANOVA, i ha ig i ca ce le el e a <0.05. e d a c d c ed i acc da ce ih he Decla ai f Heliki a d a a ed. I f ed c e a bai ed f all a ci a [10]. P e ial li i ai f hi d i cl de he aiabili i a le i e ac g a d he c -eci al a e f he da a, hich a li i he abili i fe ca ai .

### C

i d ide ac ehe i e a al i f che ki e a d ece e e i i ial i ef aie ih he a id a hii (RA), e a hii (OA), a d eac i e a hii (ReA). e di g e al di i ce e i le a cia ed ih each e f a hii, highligh ig he i ei a a a di e e e i he c di i . Rhe a id A hii (RA) e hibi ed ele a ed le el f -i a a che ki e a d hei ece , cha CXC<sub>8</sub> a d CXCR1, e eci g he i e e a d ch i ci a ai cha ac e i c f hi di ea e. i ele a ed e e i de c e he le f he e lec le i di ig he e i e i a a e e a d ji da age be ed i RA. O e a hii (OA) h ed i ce a ed e e i f che ki e a cia ed ih i e e deli g a d e ai, i dica i g a di e e i a a a d dege e a i e ce c a ed RA. e di g gge ha hile i a ai i e e , i i ech i ca d le ac e, f c i g j i dege e ai a he ha ac e i e ac i ai . A hii (ReA) di la ed a i e le ih heigh e ed le el f che ki e ela ed ac e i a ai , cha CC<sub>2</sub>. i e e i a e alig ih he ac e, i feci -di e i a a e e ical f ReA, highligh ig he a ida di e ei e ac i ai i e e e e al igge . e e e l e ha ce de a di g f he lec la echa i de geach e fa hii a de ha i e he e ial f a ge i g eci c che ki e a d ece i

ea e a egie . edi i c le b e ed gge ha ail ed he a e i ca ache c ld be e e eci e, add e i g he eci c i a a ah a ac i e i each e fa hii. F e e ea ch h lde l e hef ci al le f he eche ki e a d ece i a hii ah ge e i a d hei e ial a bi a ke f di ea e ge i e e he a . Add i al l gi di al die c ld ide f he i igh i h he e e e i le cha ge e i e a di e ce ea e c e. I a hi d de c e hei a ce f de a di g he lec la di e e ce i ial i e e e i ac ai a hii e , hich c ldi f hede el e f a ge ed he a i e a di e a i e a age e a egie .

### A

N e

### C

N e

### References