Contents

Volume 82 Issue 3 | ARD March 2023

Editorial
303 Occupational inhalants, genetics and the respiratory mucosal paradigm for ACPA-positive rheumatoid arthritis
V L Krozer, J A Sparks

Review
306 From real-world electronic health record data to real-world results using artificial intelligence
R Knevel, K P Liao

Viewpoint
312 Matching researchers’ needs and patients’ contributions: practical tips for meaningful patient engagement from the field of rheumatology
C G Schoemaker, D P Richards, M de Wit

Rheumatoid arthritis
316 Occupational inhalant agents constitute major risk factors for rheumatoid arthritis, particularly in the context of genetic predisposition and smoking
B Tang, Q Liu, A Ilar, P Wiebert, S Hägg, L Padyukov, L Kläreskog, L Alfredsson, X Jiang

324 Reducing cardiovascular risk with immunomodulators: a randomised active comparator trial among patients with rheumatoid arthritis

331 Malignancy risk with tocilizumab versus TNF inhibitors in rheumatoid arthritis: results from the open-label, randomised controlled ORAL Surveillance trial

344 Tenderness and radiographic progression in rheumatoid arthritis and psoriatic arthritis
I Cessi, C A Hana, T Deimel, M Durechova, M Hauke, V Konzet, M Popescu, P Studenic, G Supp, M Zaimer, J S Smolen, D Aletahe, P Mandl

Systemic sclerosis
357 Myeloblastic autologous haematopoietic stem cell transplantation resets the B cell repertoire to a more naive state in patients with systemic sclerosis

365 Biomarkers of haemodynamic severity of systemic sclerosis-associated pulmonary arterial hypertension by serum proteome analysis

Sjögren’s syndrome
374 Deciphering the role of cDC2s in Sjögren’s syndrome: transcriptomic profile links altered antigen processes with IFN signature and autoimmunity
A P Lopes, M R Hillen, A C Hinrichs, S LM Blöklund, C P Bjekker, A P Wendt, A A Knuijze, T RDJ Radstake, J A van Roon

Osteoarthritis
384 Genome-wide association meta-analysis of knee and hip osteoarthritis uncovers genetic differences between patients treated with joint replacement and patients without joint replacement

Systemic lupus erythematosus
351 Global epidemiology of systemic lupus erythematosus: a comprehensive systematic analysis and modelling study
J Tian, D Zhang, Y Yao, Y Huang, Q Lu

More Contents ►

Disclaimer: The Editor of ARD has been granted editorial freedom and ARD is published in accordance with editorial guidelines issued by the World Association of Medical Editors and the Committee on Publication Ethics. ARD is primarily intended for healthcare professionals and its content is for information only. The Journal is published without any guarantee as to its accuracy or completeness and any representations or warranties are expressly excluded to the fullest extent permitted by law. Readers are advised to independently verify any information on which they choose to rely. Acceptance of advertising by ARD does not imply endorsement. Neither EULAR nor BMJ Publishing Group Limited shall have any liability for any loss, injury or damage howsoever arising from ARD (except for liability which cannot be legally excluded).

Copyright: © 2023 BMJ Publishing Group Ltd and European League Against Rheumatism. All rights reserved, no part of this publication may be reproduced in any form without permission.

ARD is published by BMJ Publishing Group Ltd together with the British Medical Association and the National Institute for Health and Care Excellence (NICE), UK. The Journal is published by BMJ Publishing Group Ltd, BMA House, Tavistock Square, WC1H 9JR London. Airfreight and mailing to North America is handled by Business Ltd acting as our mailing agent.

This article has been chosen by the Editor to be of special interest and is freely available online.
This article has been made freely available online under the BMJ Journals open access scheme. See http://authors.bmj.com/open-access/
445 Genetically proxied TYK2 inhibition is associated with reduced sarcoidosis susceptibility
S S Zhao, A Barton, J Bowes

444 Deep immune profiling uncovers novel associations with clinical phenotypes of multisystem inflammatory syndrome in children (MIS-C)

440 Expression of interleukin-6 in synovial tissue of patients with polymyalgia rheumatica
W P Jiemy, A Zhang, A M H Beats, P Hoezinga, M Sandovici, A Diéptra, S Hein, B Dassopati, E Broevar, K SM van der Geest

393 Stage-specific and location-specific cartilage calcification in osteoarthritis development
X Wang, Q Wu, R Zhang, Z Fan, W Li, R Mao, Z Du, X Yao, Y Ma, Y Yan, W Sun, H Wu, W Wei, Y Hu, Y Hong, H Hu, Y W Keh, W Duan, X Chen, H Ouyang

403 Senescent cell population with ZEB1 transcription factor as its main regulator promotes osteoarthritis in cartilage and meniscus
H Swahn, K Li, T Duffy, M Olmer, D D D’Lima, T S Mondala, P Natarajan, S R Head, M K Lotz

Crystal arthropathies
416 Type II collagen facilitates gouty arthritis by regulating MSU crystallisation and inflammatory cell recruitment
HanLin Xu, B Zhang, Y Chen, F Zeng, W Wang, Z Chen, L Cao, J Shi, J Chen, X Zhu, Y Xue, R He, MinBiao Ji, YingHui Hua

Animal models
428 Taxonomy of fibroblasts and progenitors in the synovial joint at single-cell resolution
F L Collins, A J Redolfi, R A Symons, K Kania, E Campbell, E S R Collins, tugdual, A H K Riemen, S M Clark, C Dz Bari

Letters
438 Database of synovial T cell repertoire of rheumatoid arthritis patients identifies cross-reactive potential against pathogens including unencountered SARS-CoV-2
Z Zheng, L Cheng, J Mu, Q Ni, Z Bing, Q-H Zou, Y Wan, Y Wu, J Li, L Zou

442 Deep immune profiling uncovers novel associations with clinical phenotypes of multisystem inflammatory syndrome in children (MIS-C)

441 Expression of interleukin-6 in synovial tissue of patients with polymyalgia rheumatica
W P Jiemy, A Zhang, A M H Beats, P Hoezinga, M Sandovici, A Diéptra, S Hein, B Dassopati, E Broevar, K SM van der Geest

440 Deep immune profiling uncovers novel associations with clinical phenotypes of multisystem inflammatory syndrome in children (MIS-C)

438 Database of synovial T cell repertoire of rheumatoid arthritis patients identifies cross-reactive potential against pathogens including unencountered SARS-CoV-2
Z Zheng, L Cheng, J Mu, Q Ni, Z Bing, Q-H Zou, Y Wan, Y Wu, J Li, L Zou

Electronic pages

e55 Response to: 'Correspondence on 'EULAR definition of difficult-to-treat rheumatoid arthritis' by Novella-Navarro et al
M T Roodenrijis, P M J Welsing, M C van der Goes, J WG Jacobs, D van der Heijde, J M van Laar, G Nagy

e56 Response to: 'Correspondence on 'EULAR definition of difficult-to-treat rheumatoid arthritis'' by Novella-Navarro et al
N M T Roodenrijis, P M J Welsing, M C van der Goes, J WG Jacobs, D van der Heijde, J M van Laar, G Nagy

e57 Correspondence on 'Glucosamine and O-GlcNAcylation: a novel immunometabolic therapeutic target for OA and chronic, low-grade systemic inflammation?' by Angelides and Manolios
G Hernandez-Beaumont, R Largo

e58 Response to: 'Correspondence on "Glucosamine and O-GlcNAcylation: a novel immunometabolic therapeutic target for OA and chronic, low-grade systemic inflammation?" by Angelides and Manolios
G Hernandez-Beaumont, R Largo

e59 Correspondence on 'Jan Gösta Waldenström and rheumatology’
H M Moutsopoulos

e60 Response to: ‘Correspondence on ‘Jan Gösta Waldenström and rheumatology” by Moutsopoulos
F A Wölflheim

e61 Correspondence on ‘Machine learning algorithms reveal unique gene expression profiles in muscle biopsies from patients with different types of myositis’
S Takanashi

e62 Response to: ‘Correspondence on ‘Machine learning algorithms reveal unique gene expression profiles in muscle biopsies from patients with different types of myositis” by Takanashi et al
I Pinal-Fernandez, M Casal-Dominguez, J C Milsenda, A L Mammen

EULAR news
448 News from EULAR
EULAR Communications

Contents
Correspondence on 'What comes after the lockdown? Clustering of ANCA-associated vasculitis: single-centre observation of a spatiotemporal pattern'
S Hakroush, B Tampe

Response to: 'Correspondence on 'What comes after the lockdown? Clustering of ANCA-associated vasculitis: single-centre observation of a spatiotemporal pattern''
P Gauckler, A Kronbichler

Correspondence on 'Haemodynamic phenotypes and survival in patients with systemic sclerosis: the impact of the new definition of pulmonary arterial hypertension'
M Iudici, D Allali, R Porcher

Response to: 'Correspondence on 'Haemodynamic phenotypes and survival in patients with systemic sclerosis: the impact of the new definition of pulmonary arterial hypertension''

Correspondence on 'Interleukin 6 receptor inhibition in primary Sjögren syndrome: a multicentre double-blind randomised placebo-controlled trial'
B Wang, S Chen, J Xuan, Y Li, Q Zheng, X Zhang, Y Liu, G Shi

Response to: 'Correspondence on 'Interleukin 6 receptor inhibition in primary Sjögren syndrome: a multicentre double-blind randomised placebo-controlled trial''
R Felten, J E Gottenberg

Correspondence on 'Risk factors for hospital admissions related to COVID-19 in patients with autoimmune inflammatory rheumatic diseases'
S Z Aydin, E Hepworth, P Tugwell

Response to: 'Correspondence on 'Risk factors for hospital admissions related to COVID-19 in patients with autoimmune inflammatory rheumatic diseases''
D D Freitas Nuñez, I Leon, A Muñecas, I Rodríguez-Rodríguez, J Font Urgelles, A Madrid García, J I Colomer, J A Jover, B Fernandez-Gutierrez, L Abraso

Correspondence on 'Preliminary predictive criteria for COVID-19 cytokine storm'
D Tampe, M S Winkler, P Korsten, S Hakroush, O Moerer, B Tampe

Response to: 'Correspondence on 'Preliminary predictive criteria for COVID-19 cytokine storm''
R Caricchio, M Gallucci, C Doss, X Zhang, S Gallucci, D Fleece, M Bromberg, G J Criner

Systemic lupus erythematosus and COVID-19: what we know so far
G A Ramirez, I Moroni, E Della-Torre, M Gerosa, L Berens, E P Bozzolo, L Dagna

Repeated false-negative tests delayed diagnosis of COVID-19 in a case with granulomatosis with polyangiitis under maintenance therapy with rituximab and concomitant influenza pneumonia
S Hakroush, J Franz, J Larsen, P Korsten, M S Winkler, B Tampe

Comment on: 'Characteristics associated with hospitalisation for COVID-19 in people with rheumatic disease: data from the COVID-19 Global Rheumatology Alliance physician-reported registry' by Gianfrancesco et al
S Karahan, A Czetinkaya, K Aydin, H Aslan Strakaya

Correction: EULAR recommendations for the management of rheumatoid arthritis with synthetic and biological disease-modifying antirheumatic drugs: 2022 update