

### Atopic dermatitis updated search

Note: The updated search strategy was run from 1<sup>st</sup> April 2021 onwards. Additionally a backdated search was re-run from November 2018 to 31<sup>st</sup> March 2021 to gather any papers which may have been missed by the original search strategy

*Next search: 1<sup>st</sup> November 2021- 3<sup>rd</sup> March 2022*

#### Ovid MEDLINE(R) ALL <1946 to March 01, 2022>

- 1 exp Eczema/ or eczema.mp. 23335
- 2 exp Dermatitis, Atopic/ 22417
- 3 neurodermatitis.mp. or exp Neurodermatitis/ 1772
- 4 exp Dermatitis/ or dermatitis.mp. 131842
- 5 or/1-4 136627
- 6 Cyclosporine/ 30093
- 7 (c?closporin\* or CyA or Cy-A or CsA or Cs-A or csaneoral or neoral or sandimmun\*).tw. 67448
- 8 exp Aminopterin/ 40930
- 9 (aminopterin or MTX or methotrexate).tw. 47043
- 10 Azathioprine/ 15058
- 11 (az?thioprine or im?uran).tw.16263
- 12 Leukotriene Antagonists/ 3203
- 13 Quinolines/ 26065
- 14 (antileukotriene\* or anti-leukotriene\* or (leukotriene adj3 (antagonist\* or block\* or inhibitor\*))).tw. 4214
- 15 (leukast\* or zafirlukast\* or zileuton\* or quinoline\*).tw. 12306
- 16 Peptide Fragments/ 115211
- 17 exp Thymus Hormones/ 4863
- 18 exp Recombinant Proteins/ 337898
- 19 Interferon-gamma/ 70041
- 20 (rIFN\* or bioferon or biogen or immuneron or imukin or kw-2202 or polyferon or ru-42369 or ru42369 or s-6810 or sch-36850 or sun-4800).tw. 2061

- 21 (Certilizumab pegol or Certolizumab Pegol or Immunoglobulin fab fragments or polyethylene glycols or cimzia or CDP 870).mp. or CDP870.tw. 71601
- 22 (ustekinumab or IL 12 or IL 23 or stelara or CNTO 1275 or CNTO-1275).mp. or CNTO1275.tw. 31691
- 23 (secukinumab or Cosentyx or AIN 457 or AIN-457).mp. or AIN457.tw. 1596
- 24 (ixekizumab or taltz or IL17 or LY2439821).mp. or LY-2439821.tw. 1865
- 25 (brodalumab or AMG 827 or AMG827 or AMG-827).mp. or siliq.tw. 442
- 26 (guselkumab or abrocitinib or tralokinumab or upadacitinib or GBR?830 or ZPL?3893787 or neomlizumab or tezepelumab).tw. 760
- 27 (tildrakizumab or SCH 900222).mp. or MK-3222.tw. 191
- 28 risankizumab.mp. or C000601773.tw. 252
- 29 (apremilast or Otezla).mp. or C505730.tw. 898
- 30 (tofacitinib or tasocitinib or tofacitinib citrate or Xeljanz or CP 690,550 or CP 690550 or CP-690,550 or CP-690550).mp. or CP690550.tw. 2201
- 31 (nemolizumab or interleukin-31 or IL31).mp. or IL-31.tw. 720
- 32 (lebrikizumab or IL 13 or IL13 or interleukin 13).mp. or interleukin13.tw. 15903
- 33 fezakinumab.tw. 12
- 34 baricitinib.tw. 669
- 35 ((r or recombinant) adj3 (interferon\* or IFN or IFNg or IFNgamma)).tw. 8695
- 36 ((Interferon\* or IFN or IFNg or IFNgamma) adj3 (therap\* or treat\* or administ\* or given or deliver\* or systemic\* or oral\*)).tw. 38494
- 37 (etanercept or enbrel or tnfr fc fusion protein).tw. 7513
- 38 alefacept.tw. 377
- 39 (((tnf or tumor necrosis factor) adj2 receptor) or (tnf adj2 (fusion adj protein\*))).tw. 14281
- 40 Tumor Necrosis Factor-alpha/ 131680
- 41 (anti-TNF\* or anti tumo?r necrosis factor).tw. 15972
- 42 Antibodies, Monoclonal/ 195734
- 43 ((humanized adj8 (monoclonal\* or antibod\* or MoAb\* or mAb or mAbs or fab\*1)) or rhuMAb\*).tw. 7987
- 44 (chim?eric adj3 (monoclonal\* or antibod\* or MoAb\* or mAb or mAbs)).tw. 3989

- 45 ((against or anti) adj IgE adj2 (monoclonal\* or antibod\* or MoAb\* or mAb or mAbs)).tw. 1256
- 46 ((anti or against or block\* or MoAb\* or mAb or mAbs or antibod\* or monoclonal\*) adj3 (IL5 or IL-5 or interleukin-5 or LFA1 or LFA-1 or CD11a)).tw. 3032
- 47 (interleukin antagonist\* or interleukin inhibitor\*).mp. or anti-interleukin.tw. 2316
- 48 ((against or anti) adj (IL 23 or interleukin 23 or IL-23 or interleukin-23)).mp. or IL-23 inhibitor\*.tw. 337
- 49 ((against or anti) adj (IL 17 or interleukin 17 or IL-17 or interleukin-17)).mp. or IL-17 inhibitor\*.tw. 766
- 50 ((against or anti) adj (IL 31 or interleukin 31 or IL-31 or interleukin-31)).mp. or IL-31 inhibitor\*.tw. 36
- 51 ((against or anti) adj (IL 22 or interleukin 2 or IL-22 or interleukin-22)).mp. or IL-22 inhibitor\*.tw. 426
- 52 (omalizumab or (olizumab or hu-901 or hu901 or tnx-901 or tnx901 or xolair)).tw. 2754
- 53 (infliximab or (avakine or remicade)).tw. 13386
- 54 (efalizumab or raptiva or xanelim or hu1124 or hu-1124).tw. 581
- 55 (adalimumab or humira or D2E7 or trudexa).tw. 7989
- 56 (rituximab or idec c2b8 or mabthera or rituxan or rituxin).tw. 23839
- 57 (keliximab or sb 210396 or sb210396).tw. 18
- 58 (mepolizumab or bosatria or sb 240563 or sb240563).tw. 867
- 59 Mycophenolic Acid/ 8577
- 60 (mycophen?lat\* or mycophenol\* or mycofen?lat\* or mycofenol\* or mofetil\* or MMF or erl-080\* or erl080\* or melbex or myfortic or nsc-129185 or nsc129185).tw.15634
- 61 Immunoglobulins, Intravenous/ 14712
- 62 (((intravenous or IV) adj (immune globulin\* or IG or immun?globulin\* or antibod\*)) or IVIG or HdIVIg).tw. 18570
- 63 exp Prednisolone/ or Beclomethasone/ or exp Fluocinolone Acetonide/ or Adrenal Cortex Hormones/ 122288
- 64 (prednison\* or methylprednis\* or dehydrocortisone or dexamethason\* or beclomethasone or flunisolide).tw. 107116
- 65 exp pimecrolimus/ or (asm981 or asm 981 or elidel).tw. 118

66 exp tacrolimus/ or (fk506 or fk 506).tw. 20268

67 ((systemic or oral\* or sublingual\* or "per os" or inhal\* or nasal\* or parenteral\*) adj (steroid\* or glucosteroid\* or corticosteroid\* or glucocorticosteroid\*)).tw. 31229

68 ((biological\*1 or biologic\*1) adj (treatment\* or therap\* or medicine\* or drug\* or agent\* or product\* or immunobiologic or immunomodulator\*)).tw. 29659

69 (biologic\* response modifier\* or BRM\*).tw. 4039

70 targeted therap\*.tw. 55473

71 small molecule\*.mp. 90270

72 (janus kinase inhibitor\* or JAK inhibitor\* or protein kinase inhibitor\*).tw. 8084

73 (phosphodiesterase 4 inhibitor\* or phosphodiesterase-4 inhibitor\*).mp. or PDE4 inhibitor.tw. 2220

74 ((systemic\* or oral\* or sublingual\* or "per os" or inhal\* or nasal\* or parenteral\*) adj3 (treat\* or agent\* or drug\*1 or monotherap\* or medication\* or medicine\* or administ\* or given or deliver\* or immunosuppres\*)).tw. 325224

75 dupilumab.tw.1357

76 Puva.tw. or Puva therapy/ or Psoralen ultraviolet A Therapy.tw. 4641

77 or/6-76 1786419

78 randomized controlled trial.pt. 559913

79 controlled clinical trial.pt. 94712

80 randomized.ab. 552207

81 placebo.ab. 225955

82 clinical trials as topic.sh. 199352

83 randomly.ab. 376976

84 trial.ti. 257472

85 (open label or open-label).ab. 45751

86 78 or 79 or 80 or 81 or 82 or 83 or 84 or 85 1445206

87 exp animals/ not humans.sh. 4965507

88 86 not 87 1330533

89 5 and 77 and 88 1864

**Embase <1974 to 2022 March 02>**

- 1 exp eczema/ or eczema.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word] 44606
- 2 exp atopic dermatitis/49567
- 3 exp neurodermatitis/ or neurodermatitis.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word] 3142
- 4 exp dermatitis/ or dermatitis.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word] 187259
- 5 or/1-4 191057
- 6 cyclosporine/ 21309
- 7 (c?closporin\* or CyA or Cy-A or CsA or Cs-A or csaneoral or neoral or sandimmun\*).tw. 98700
- 8 exp aminopterin/ 1250
- 9 (aminopterin or MTX or methotrexate).tw. 80695
- 10 azathioprine/ 100015
- 11 (az?thioprine or im?uran).tw.30880
- 12 leukotriene receptor blocking agent/9325
- 13 quinoline derivative/ 12963
- 14 (antileukotriene\* or anti-leukotriene\* or (leukotriene adj3 (antagonist\* or block\* or inhibitor\*))).tw. 5932
- 15 (leukast\* or zafirlukast\* or zileuton\* or quinoline\*).tw. 14753
- 16 peptide fragment/ 18055
- 17 exp thymus hormone/ 8637
- 18 exp recombinant protein/ 400088
- 19 gamma interferon/ 195503
- 20 (rIFN\* or bioferon or biogen or immuneron or imukin or kw-2202 or polyferon or ru-42369 or ru42369 or s-6810 or sch-36850 or sun-4800).tw. 5249
- 21 (Certilizumab pegol or Certolizumab Pegol or Immunoglobulin fab fragments or polyethylene glycols or cimzia or CDP 870).mp. or CDP870.tw. 9223

- 22 (ustekinumab or IL 12 or IL 23 or stelara or CNTO 1275 or CNTO-1275).mp. or CNTO1275.tw. 50852
- 23 (secukinumab or Cosentyx or AIN 457 or AIN-457).mp. or AIN457.tw. 5592
- 24 (ixekizumab or taltz or IL17 or LY2439821).mp. or LY-2439821.tw. 5723
- 25 (brodalumab or AMG 827 or AMG827 or AMG-827).mp. or siliq.tw. 1546
- 26 (guselkumab or abrocitinib or tralokinumab or upadacitinib or GBR?830 or ZPL?3893787 or neomlizumab or tezepelumab).tw. 1844
- 27 (tildrakizumab or SCH 900222).mp. or MK-3222.tw. 778
- 28 risankizumab.mp. or C000601773.tw. 833
- 29 (apremilast or Otezla).mp. or C505730.tw. 2945
- 30 (tofacitinib or tasocitinib or tofacitinib citrate or Xeljanz or CP 690,550 or CP 690550 or CP-690,550 or CP-690550).mp. or CP690550.tw. 7246
- 31 (nemolizumab or interleukin-31 or IL31).mp. or IL-31.tw. 1840
- 32 (lebrikizumab or IL 13 or IL13 or interleukin 13).mp. or interleukin13.tw. 40330
- 33 fezakinumab.tw. 17
- 34 baricitinib.tw. 1408
- 35 ((r or recombinant) adj3 (interferon\* or IFN or IFNg or IFNgamma)).tw. 10053
- 36 ((Interferon\* or IFN or IFNg or IFNgamma) adj3 (therap\* or treat\* or administ\* or given or deliver\* or systemic\* or oral\*)).tw. 55410
- 37 (etanercept or enbrel or tnfr fc fusion protein).tw. 18697
- 38 alefacept.tw. 528
- 39 (((tnf or tumor necrosis factor) adj2 receptor) or (tnf adj2 (fusion adj protein\*))).tw. 17881
- 40 tumor necrosis factor/ 182937
- 41 (anti-TNF\* or anti tumo?r necrosis factor).tw. 32920
- 42 monoclonal antibody/ 217764
- 43 ((humanized adj8 (monoclonal\* or antibod\* or MoAb\* or mAb or mAbs or fab\*1)) or rhuMAb\*).tw. 15664
- 44 (chim?eric adj3 (monoclonal\* or antibod\* or MoAb\* or mAb or mAbs)).tw. 5852
- 45 ((against or anti) adj IgE adj2 (monoclonal\* or antibod\* or MoAb\* or mAb or mAbs)).tw. 1991

- 46 ((anti or against or block\* or MoAb\* or mAb or mAbs or antibod\* or monoclonal\*)  
adj3 (IL5 or IL-5 or interleukin-5 or LFA1 or LFA-1 or CD11a)).tw. 3957
- 47 (interleukin antagonist\* or interleukin inhibitor\*).mp. or anti-interleukin.tw.  
3485
- 48 ((against or anti) adj (IL 23 or interleukin 23 or IL-23 or interleukin-23)).mp. or IL-23  
inhibitor\*.tw. 556
- 49 ((against or anti) adj (IL 17 or interleukin 17 or IL-17 or interleukin-17)).mp. or IL-17  
inhibitor\*.tw. 1359
- 50 ((against or anti) adj (IL 31 or interleukin 31 or IL-31 or interleukin-31)).mp. or IL-31  
inhibitor\*.tw. 52
- 51 ((against or anti) adj (IL 22 or interleukin 2 or IL-22 or interleukin-22)).mp. or IL-22  
inhibitor\*.tw. 533
- 52 (omalizumab or (olizumab or hu-901 or hu901 or tnx-901 or tnx901 or xolair)).tw.  
6362
- 53 (infliximab or (avakine or remicade)).tw. 32278
- 54 (efalizumab or raptiva or xanelim or hu1124 or hu-1124).tw. 1391
- 55 (adalimumab or humira or D2E7 or trudexa).tw. 23498
- 56 (rituximab or idec c2b8 or mabthera or rituxan or rituxin).tw. 57233
- 57 (keliximab or sb 210396 or sb210396).tw. 26
- 58 (mepolizumab or bosatria or sb 240563 or sb240563).tw. 1830
- 59 mycophenolic acid/ 21060
- 60 (mycophen?lat\* or mycophenol\* or mycofen?lat\* or mycofenol\* or mofetil\* or  
MMF or erl-080\* or erl080\* or melbex or myfortic or nsc-129185 or nsc129185).tw.  
36300
- 61 immunoglobulin/ 126568
- 62 (((intravenous or IV) adj (immune globulin\* or IG or immun?globulin\* or antibod\*))  
or IVIG or HdIVIg).tw. 35708
- 63 exp prednisolone/ or beclometasone/ or exp fluocinolone acetonide/ or  
corticosteroid/ 380362
- 64 (prednison\* or methylprednis\* or dehydrocortisone or dexamethason\* or  
beclomethasone or flunisolide).tw. 166705
- 65 exp pimecrolimus/ or (asm981 or asm 981 or elidel).tw. 3534
- 66 exp tacrolimus/ or (fk506 or fk 506).tw. 91150

- 67 ((systemic or oral\* or sublingual\* or "per os" or inhal\* or nasal\* or parenteral\*) adj (steroid\* or glucosteroid\* or corticosteroid\* or glucocorticosteroid\*).tw. 53680
- 68 ((biological\*1 or biologic\*1) adj (treatment\* or therap\* or medicine\* or drug\* or agent\* or product\* or immunobiologic or immunomodulator\*).tw. 53525
- 69 (biologic\* response modifier\* or BRM\*).tw. 5159
- 70 targeted therap\*.tw. 91195
- 71 small molecule\*.mp. 113328
- 72 (janus kinase inhibitor\* or JAK inhibitor\* or protein kinase inhibitor\*).tw. 11853
- 73 (phosphodiesterase 4 inhibitor\* or phosphodiesterase-4 inhibitor\*).mp. or PDE4 inhibitor.tw. 2567
- 74 ((systemic\* or oral\* or sublingual\* or "per os" or inhal\* or nasal\* or parenteral\*) adj3 (treat\* or agent\* or drug\*1 or monotherap\* or medication\* or medicine\* or administ\* or given or deliver\* or immunosuppres\*).tw. 454022
- 75 dupilumab.tw.2377
- 76 Puva.tw. or Puva therapy/ or Psoralen ultraviolet A Therapy.tw. 11044
- 77 or/6-76 2541597
- 78 exp randomized controlled trial/ 699900
- 79 exp controlled clinical trial/ 889155
- 80 randomized.ab. 801485
- 81 placebo.ab. 328644
- 82 clinical trials as topic.sh. 2
- 83 randomly.ab. 499432
- 84 trial.ti. 352440
- 85 (open label or open-label).ab. 87743
- 86 78 or 79 or 80 or 81 or 82 or 83 or 84 or 85 1852554
- 87 exp animals/ not humans.sh. 28245692
- 88 86 not 87 117866
- 89 5 and 77 and 88 164

## **Cochrane CENTRAL**

- #1 (atopic NEAR/1 dermatitis) or eczema or neurodermatitis or dermatitis 11665



#2 c?closporin\* or CyA or Cy-A or CsA or Cs-A or csaneoral or neoral or sandimmun\* or aminopterin or MTX or methotrexate or az?thioprine or im?uran or antileukotriene\* or anti-leukotriene\* or (leukotriene NEAR/3 antagonist\*) or block\* or inhibitor\* or leukast\* or zafirlukast\* or zileuton\* or quinoline\* or rIFN\* or bioferon or biogen or immuneron or imukin or kw-2202 or polyferon or ru-42369 or ru42369 or s-6810 or sch-36850 or sun-4800 208796

#3 Certilizumab pegol or Certolizumab Pegol or Immunoglobulin fab fragments or polyethylene glycols or cimzia or CDP?870 or ustekinumab or IL 12 or IL 23 or stelara or CNTO?1275 or CNTO-1275 or secukinumab or Cosentyx or AIN?457 or AIN-457 or ixekizumab or taltz or IL17 or LY2439821 or LY-2439821 or brodalumab or AMG 827 or AMG827 or AMG-827 or siliq 26690

#4 guselkumab or abrocitinib or tralokinumab or upadacitinib or GBR?830 or ZPL?3893787 or neomlizumab or tezepelumab or tildrakizumab or SCH 900222 or MK-3222 or risankizumab or C000601773 or apremilast or Otezla or C505730 or tofacitinib or tasocitinib or tofacitinib citrate or Xeljanz or CP?690,550 or CP 690550 or CP-690,550 or CP-690550 or CP690550 or nemolizumab or interleukin-31 or IL31 or IL-31 or lebrikizumab or IL 13 or IL13 or interleukin?13 17887

#5 fezakinumab or baricitinib 536

#6 (r or recombinant) NEAR/3 (interferon\* or IFN or IFNg or IFNgamma) 1928

#7 (Interferon\* or IFN or IFNg or IFNgamma) NEAR/3 (therap\* or treat\* or administ\* or given or deliver\* or systemic\* or oral\*) 7579

#8 etanercept or enbrel or tnfr fc fusion protein or alefacept 2600

#9 (tnf or tumor necrosis factor) NEAR/2 (receptor ) or (tnf NEAR/2 fusion adj protein\*) 6784

#10 anti-TNF\* or anti tumo?r necrosis factor 6859

#11 humanized NEAR/8 (monoclonal\* or antibod\* or MoAb\* or mAb or mAbs or fab\*1) or rhuMAb\* 7108

#12 chim?eric NEAR/3 (monoclonal\* or antibod\* or MoAb\* or mAb or mAbs) 442

#13 (against or anti) NEAR IgE NEAR/2 (monoclonal\* or antibod\* or MoAb\* or mAb or mAbs) 89

#14 (anti or against or block\* or MoAb\* or mAb or mAbs or antibod\* or monoclonal\*) NEAR/3 (IL5 or IL-5 or interleukin-5 or LFA1 or LFA-1 or CD11a) 298

#15 interleukin antagonist\* or interleukin inhibitor\* or anti-interleukin4888

#16 (against or anti) NEAR (IL 23 or interleukin 23 or IL-23 or interleukin-23) or IL-23 inhibitor\* 3947

#17 (against or anti) NEAR (IL 17 or interleukin 17 or IL-17 or interleukin-17) or IL-17 inhibitor\* 4499

#18 (against or anti) NEAR (IL 31 or interleukin 31 or IL-31 or interleukin-31) or IL-31 inhibitor\* 3505

#19 (against or anti) NEAR (IL 22 or interleukin 2 or IL-22 or interleukin-22) or IL-22 inhibitor\* 11846

#20 omalizumab or olizumab or hu-901 or hu901 or tnx-901 or tnx901 or xolair or infliximab or avakine or remicade or efalizumab or raptiva or xanelim or hu1124 or hu-1124 or adalimumab or humira or D2E7 or trudexa or rituximab or idec c2b8 or mabthera or rituxan or rituxin or keliximab or sb 210396 or sb210396 or mepolizumab or bosatria or sb 240563 or sb240563 or mycophen?lat\* or mycophenol\* or mycofen?lat\* or mycofenol\* or mofetil\* or MMF or erl-080\* or erl080\* or melbex or myfortic or nsc-129185 or nsc129185 or ((intravenous or IV) NEAR (immune globulin\* or IG or immun?globulin\* or antibod\*)) or IVIG or HdIVIg 20677

#21 prednison\* or methylprednis\* or dehydrocortisone or dexamethason\* or beclomethasone or flunisolide or ((systemic or oral\* or sublingual\* or "per os" or inhal\* or nasal\* or parenteral\*) NEAR (steroid\* or glucosteroid\* or corticosteroid\* or glucocorticosteroid\*)) or ((biological\*1 or biologic\*1) NEAR (treatment\* or therap\* or medicine\* or drug\* or agent\* or product\* or immunobiologic or immunomodulator\*)) or biologic\* response modifier\* or BRM\* or targeted therap\* or small molecule\* or janus kinase inhibitor\* or JAK inhibitor\* or protein kinase inhibitor\* 63800

#22 phosphodiesterase 4 inhibitor\* or phosphodiesterase-4 inhibitor\* or PDE4 inhibitor or ((systemic\* or oral\* or sublingual\* or "per os" or inhal\* or nasal\* or parenteral\*) NEAR/3 (treat\* or agent\* or drug\*1 or monotherap\* or medication\* or medicine\* or administ\* or given or deliver\* or immunosuppres\*)) 118731

#23 dupilumab 670

#24 #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13 or #14 or #15 or #16 or #17 or #18 or #19 or #20 or #21 or #22 or #23 391696

#25 #1 and #24 3603 (of which 3238 are trials)