List of Publications

Prof. Bodo Grimbacher

Vice Director of the Institute of Immunodeficiency, Freiburg, Germany
Alumni of Marie-Curie-Researchers and Emmy-Nöther Fellows

PEER-REVIEWED ARTICLES (TOTAL 287)

TOTAL IMPACT FACTOR: 2,870.285

LAST-AUTHOR PUBLICATIONS:

92. Krausz M, Sogkas G, Uhlmann A, Ihorst G, Goldacker S, Witte T, Feißt M, Alsina L, Dybedal I, Recher M, Warnatz K, **Grimbacher B.**
ABACHAI - Safety and efficacy of abatacept (s.c.) in patients with CTLA4 insufficiency or LRBA deficiency, a phase II clinical trial.
J Allergy Clin Immunol. 2026 Sep 19:S0091-6749(26)00644-5. **Impact Factor: 11.700**

91. Fliegauf M, Gamez-Diaz L, Mrovecova P, God CM, Geiger VF, Camacho-Ordonez N, Posadas-Cantera S, Murray C, Warnatz K, Keller B, **Grimbacher B.**
A Detrimental NFKB2 Missense Variant is Associated with Hypogammaglobulinemia.
J Clin Immunol. 2026 Jul 11;46(1):75. **Impact Factor: 4.100**

90. Fliegauf M, Nitschke K, Mrovecova P, Posadas-Cantera S, Camacho-Ordonez N, Warnatz K, Keller B, **Grimbacher B.**
Compound heterozygous NFKB1 missense variants in cis associated with immunodeficiency.
Clin Immunol. 2026 Jan;282:110637. **Impact Factor: 5.700**

89. Camacho-Ordonez N, Hirsch A, Campos L, Goldacker S, Burns SO, Moreira F, Warnatz K, **Grimbacher B.**
Do CVID patients on SCIG have more autoimmune (thrombo)cytopenic events than CVID patients on IVIG?
Front Immunol. 2025 Nov 27;16:1708813. **Impact Factor: 5.900**

88. Abolhassani H, Caballero-Oteyza A, Yang M, Proietti M, Delavari S, Maffucci P, Schäffer AA, Boisson B, Casanova JL, Rezaei N, Pan-Hammarström Q, Cunningham-Rundles C, Hammarström L, **Grimbacher B.**
Re-evaluation of the contribution of TNFRSF13B variants to antibody deficiency.
Hum Immun. 2025 Nov 3;1(4):e20250016. **Impact Factor: 2.200**

87. Andreani V, Forde AJ, Fliegauf M, Bressan G, Noé V, Ott N, Saghafi S, Vornholz L, Isay SE, Ruland J, Henneke P, **Grimbacher B.**
STAT3 haploinsufficiency is associated with autosomal dominant hyper-IgE syndrome.
Sci Adv. 2025 Aug 29;11(35):eadw2464. **Impact Factor: 12.060**

86. Chandrasekaran P, Krausz M, Han Y, Mitsuiki N, Gabrysch A, Nöltner C, Proietti M, Heller T, Grou C, Calderon V, Subramanian P, Jones DR, Siu Y, Deming C, Conlan S, Holland SM, Segre JA, Uzel G, **Grimbacher B***, Falcone EL.* (*contributed equally)
The intestinal microbiome and metabolome discern disease severity in cytotoxic T-lymphocyte-associated protein 4 deficiency.
Microbiome. 2025 Feb 11;13(1):51. **Impact Factor: 13.800**

85. Posadas-Cantera S, Mitsuiki N, Emmerich F, Patiño V, Lorenz HM, Neth O, Dybedal I, Taskén K, Schäffer AA, **Grimbacher B***, Gámez-Díaz L*. (*contributed equally)
The effect of HLA genotype on disease onset and severity in CTLA-4 insufficiency.
Front Immunol. 2025 Jan 6;15:1447995. **Impact Factor: 5.900**

84. Yang L, Zerbato B, Pessina A, Brambilla L, Andreani V, Frey-Jakobs S, Fliegauf M, Barbouche MR, Zhang Q, Chiaradonna F, Proietti M, Du X, **Grimbacher B**.
PGM3 insufficiency: a glycosylation disorder causing a notable T cell defect.
Front Immunol. 2024 Dec 24;15:1500381. **Impact Factor: 5.700**

83. Ramirez NJ, Schulze JJ, Walter S, Werner J, Mrovecova P, Olek S, Sachsenmaier C, **Grimbacher B***, Salzer U*. (*contributed equally)
Epigenetic immune cell quantification for diagnostic evaluation and monitoring of patients with inborn errors of immunity and secondary immune deficiencies.
Clin Immunol. 2024 Mar;260:109920. **Impact Factor: 9.100**

82. Rolles B, Caballero-Oteyza A, Proietti M, Goldacker S, Warnatz K, Camacho-Ordonez N, Prader S, Schmid JP, Vieri M, Isfort S, Meyer R, Kirschner M, Brümmendorf TH, Beier F, **Grimbacher B.**
Telomere biology disorders may manifest as common variable immunodeficiency (CVID).
Clin Immunol. 2023 Dec;257:109837. **Impact Factor: 8.600**

81. Rojas-Restrepo J, Sindram E, Zenke S, Haberstroh H, Mitsuiki N, Gabrysch A, Huebscher K, Posadas-Cantera S, Krausz M, Kobbe R, Rohr JC, **Grimbacher B***, Gámez-Díaz L*. (*contributed equally)
Functional Relevance of CTLA4 Variants: an Upgraded Approach to Assess CTLA4-Dependent Transendocytosis by Flow Cytometry.
J Clin Immunol. 2023 Nov;43(8):2076-2089. **Impact Factor: 8.137**

PEER-REVIEWED ARTICLES (2)

80. Vanselow S, Hanitsch L, Hauck F, Körholz J, Maccari ME, Meinhardt A, Sogkas G, Schuetz C, **Grimbacher B**. Future Directions in the Diagnosis and Treatment of APDS and IEI: a Survey of German IEI Centers.
Front Immunol. 2023 Oct 5;14:1279652. **Impact Factor: 7.300**

79. Peng XP, Al-Ddafari MS, Caballero-Oteyza A, El Mezouar C, Mrovecova P, Dib SE, Massen Z, Smahi MC, Faiza A, Hassaïne RT, Lefranc G, Aribi M, **Grimbacher B.**
Next generation sequencing (NGS)-based approach to diagnosing Algerian patients with suspected inborn errors of immunity (IEIs).
Clin Immunol. 2023 Sep 9;256:109758. Online ahead of print. **Impact Factor: 8.600**

78. Nöltner C, Bulashevska A, Hübscher K, Haberstroh H, **Grimbacher B***, Proietti M*. (*contributed equally) Fecal Immunoglobulin Levels as a Modifier of the Gut Microbiome in Patients with Common Variable Immunodeficiency.
J Clin Immunol. 2023 Aug;43(6):1208-1220. Epub 2023 Mar 24. **Impact Factor: 8.137**

77. Haberstroh H, Hirsch A, Goldacker S, Zessack N, Warnatz K, **Grimbacher B***, Salzer U*. (*contributed equally) A Toolkit for Monitoring Immunoglobulin G Levels from Dried Blood Spots of Patients with Primary Immunodeficiencies.
J Clin Immunol. 2023 Aug;43(6):1185-1192. Epub 2023 Mar 21. **Impact Factor: 8.137**

76. Staus P, Rusch S, El-Helou S, Müller G, Krausz M, Geisen U, Caballero-Oteyza A, Krüger R, Bakhtiar S, Lee-Kirsch MA, Fasshauer M, Baumann U, Hoyer BF, Farela Neves J, Borte M, Carrabba M, Hauck F, Ehl S, Bader P, von Bernuth H, Atschekzei F, Seppänen MRJ, Warnatz K, Nieters A, Kindle G, **Grimbacher B.**
The GAIN Registry - a New Prospective Study for Patients with Multi-organ Autoimmunity and Autoinflammation.
J Clin Immunol. 2023 Aug;43(6):1289-1301. **Impact Factor: 8.137**

75. Lim YW, Ramirez NJ, Asensio MA, Chiang Y, Müller G, Mrovecova P, Mitsuiki N, Krausz M, Camacho-Ordonez N, Warnatz K, Adler AS, **Grimbacher B.**
Sequencing the B Cell Receptor Repertoires of Antibody-Deficient Individuals With and Without Infection Susceptibility.
J Clin Immunol. 2023 Jul;43(5):940-950. **Impact Factor: 8.137**

74. Krausz M, Mitsuiki N, Falcone V, Komp J, Posadas-Cantera S, Lorenz HM, Litzman J, Wolff D, Kanariou M, Heinkele A, Speckmann C, Häcker G, Hengel H, Gámez-Díaz L, **Grimbacher B**.
Do common infections trigger disease-onset or -severity in CTLA-4 insufficiency?
Front Immunol. 2022 Nov 2;13:1011646. **Impact Factor: 7.300**

73. Krausz M, Uhlmann A, Rump IC, Ihorst G, Goldacker S, Sogkas G, Posadas-Cantera S, Schmidt R, Feißt M, Alsina L, Dybedal I, Recher M, Warnatz K, **Grimbacher B**.
The ABACHAI clinical trial protocol: Safety and efficacy of abatacept (s.c.) in patients with CTLA-4 insufficiency or LRBA deficiency: A non controlled phase 2 clinical trial.
Contemp Clin Trials Commun. 2022 Sep 24;30:101008. **Impact Factor: 1.653**

72. Fliegauf M, Kinnunen M, Posadas-Cantera S, Camacho-Ordonez N, Abolhassani H, Alsina L, Atschekzei F, Bogaert DJ, Burns SO, Church JA, Dückers G, Freeman AF, Hammarström L, Hanitsch LG, Kerre T, Kobbe R, Sharapova SO, Siepermann K, Speckmann C, Steiner S, Verma N, Walter JE, Westermann-Clark E, Goldacker S, Warnatz K, Varjosalo M, **Grimbacher B**.
Detrimental NFKB1 missense variants affecting the Rel-homology domain of p105/p50.
Front Immunol. 2022 Aug 29;13:965326. **Impact Factor: 7.300**

71. Ramirez N, Posadas-Cantera S, Langer N, de Oteyza ACG, Proietti M, Keller B, Zhao F, Gernedl V, Pecoraro M, Eibel H, Warnatz K, Ballestar E, Geiger R, Bossen C, **Grimbacher B**.
Multi-omics analysis of naïve B cells of patients harboring the C104R mutation in TACI.
Front Immunol. 2022 Aug 16;13:938240. **Impact Factor: 7.300**

70. Rojas-Restrepo J, Caballero-Oteyza A, Huebscher K, Haberstroh H, Fliegauf M, Keller B, Kobbe R, Warnatz K, Ehl S, Proietti M, **Grimbacher B.**
Establishing the Molecular Diagnoses in a Cohort of 291 Patients With Predominantly Antibody Deficiency by Targeted Next-Generation Sequencing: Experience From a Monocentric Study.
Front Immunol. 2021 Dec 17;12:786516. **Impact Factor: 6.429**

69. van Schewick CM, Lowe DM, Burns SO, Workman S, Symes A, Guzman D, Moreira F, Watkins J, Clark I, **Grimbacher B.**
Bowel Histology of CVID Patients Reveals Distinct Patterns of Mucosal Inflammation.
J Clin Immunol. 2021 Oct 1. Online ahead of print. **Impact Factor: 6.780**

68. Frede N, Rojas-Restrepo J, Caballero Garcia de Oteyza A, Buchta M, Hübscher K, Gámez-Díaz L, Proietti M, Saghafi S, Chavoshzadeh Z, Soler-Palacin P, Galal N, Adeli M, Aldave-Becerra JC, Al-Ddafari MS, Ardenyz Ö, Atkinson TP, Kut FB, Çelmeli F, Rees H, Kilic SS, Kirovski I, Klein C, Kobbe R, Korganow AS, Lilic D, Lunt P, Makwana N, Metin A, Özgür TT, Karakas AA, Seneviratne S, Sherkat R, Sousa AB, Unal E, Patiroglu T, Wahn V, von Bernuth H, Whiteford M, Doffinger R, Jouhadi Z, **Grimbacher B**.
Genetic Analysis of a Cohort of 275 Patients with Hyper-IgE Syndromes and/or Chronic Mucocutaneous Candidiasis.
J Clin Immunol. 2021 Nov;41(8):1804-1838. **Impact Factor: 6.780**

67. Egg D, Rump IC, Mitsuiki N, Rojas-Restrepo J, Maccari ME, Schwab C, Gabrysch A, Warnatz K, Goldacker S, Patiño V, Wolff D, Okada S, Hayakawa S, Shikama Y, Kanda K, Imai K, Sotomatsu M, Kuwashima M, Kamiya T, Morio T, Matsumoto K, Mori T, Yoshimoto Y, Dybedal I, Kanariou M, Kucuk ZY, Chapdelaine H, Petruzelkova L,

PEER-REVIEWED ARTICLES (3)

Lorenz HM, Sullivan KE, Heimall J, Moutschen M, Litzman J, Recher M, Albert MH, Hauck F, Seneviratne S, Pachlopnik Schmid J, Kolios A, Unglik G, Klemann C, Snapper S, Giulino-Roth L, Svaton M, Platt CD, Hambleton S, Neth O, Gosse G, Reinsch S, Holzinger D, Kim YJ, Bakhtiar S, Atschekzei F, Schmidt R, Sogkas G, Chandrakasan S, Rae W, Derfalvi B, Marquart HV, Ozen A, Kiykim A, Karakoc-Aydiner E, Králíčková P, de Bree G, Kiritsi D, Seidel MG, Kobbe R, Dantzer J, Alsina L, Armangue T, Lougaris V, Agyeman P, Nyström S, Buchbinder D, Arkwright PD, **Grimbacher B.**
Therapeutic options for CTLA-4 insufficiency.
J Allergy Clin Immunol. 2021 Jun 7:S0091-6749(21)00891-5. **Impact Factor: 10.793**

66. Fliegauf M, Krüger R, Steiner S, Hanitsch LG, Büchel S, Wahn V, von Bernuth H, **Grimbacher B**.
A Pathogenic Missense Variant in NFKB1 Causes Common Variable Immunodeficiency Due to Detrimental Protein Damage.
Front Immunol. 2021 Apr 27;12:621503. doi: 10.3389/fimmu.2021.621503. **Impact Factor: 6.429**

65. van Schewick CM, Nöltner C, Abel S, Burns SO, Workman S, Symes A, Guzman D, Proietti M, Bulashevska A, Moreira F, Soetedjo V, Lowe DM, **Grimbacher B.**
Altered Microbiota, Impaired Quality of Life, Malabsorption, Infection, and Inflammation in CVID Patients With Diarrhoea
Front Immunol. 2020 Jul 31;11:1654. **Impact Factor: 6.429**

64. Lorenzini T, Fliegauf M, Klammer N, Frede N, Proietti M, Bulashevska A, Camacho-Ordonez N, Varjosalo M, Kinnunen M, de Vries E, van der Meer JWM, Ameratunga R, Roifman CM, Schejter YD, Kobbe R, Hautala T, Atschekzei F, Schmidt RE, Schröder C, Stepensky P, Shadur B, Pedroza LA, van der Flier M, Martínez-Gallo M, Gonzalez-Granado LI, Allende LM, Shcherbina A, Kuzmenko N, Zakharova V, Neves JF, Svec P, Fischer U, Ip W, Bartsch O, Barış S, Klein C, Geha R, Chou J, Alosaimi M, Weintraub L, Boztug K, Hirschmugl T, Dos Santos Vilela MM, Holzinger D, Seidl M, Lougaris V, Plebani A, Alsina L, Piquer-Gibert M, Deyà-Martínez A, Slade CA, Aghamohammadi A, Abolhassani H, Hammarström L, Kuismin O, Helminen M, Allen HL, Thaventhiran JE, Freeman AF, Cook M, Bakhtiar S, Christiansen M, Cunningham-Rundles C, Patel NC, Rae W, Niehues T, Brauer N, Syrjänen J, Seppänen MRJ, Burns SO, Tuijnenburg P, Kuijpers TW; NIHR-BioResource – Rare Diseases Consortium, Warnatz K, **Grimbacher B**.
Characterization of the clinical and immunological phenotype and management of 157 individuals with 56 distinct heterozygous NFKB1 mutations.
J Allergy Clin Immunol. 2020 Apr 9. **Impact Factor: 10.793**

63.El-Helou SM, Biegner AK, Bode S, Ehl SR, Heeg M, Maccari ME, Ritterbusch H, Speckmann C, Rusch S, Scheible R, Warnatz K, Atschekzei F, Beider R, Ernst D, Gerschmann S, Jablonka A, Mielke G, Schmidt RE, Schürmann G, Sogkas G, Baumann UH, Klemann C, Viemann D, von Bernuth H, Krüger R, Hanitsch LG, Scheibenbogen CM, Wittke K, Albert MH, Eichinger A, Hauck F, Klein C, Rack-Hoch A, Sollinger FM, Avila A, Borte M, Borte S, Fasshauer M, Hauenherm A, Kellner N, Müller AH, Ülzen A, Bader P, Bakhtiar S, Lee JY, Heß U, Schubert R, Wölke S, Zielen S, Ghosh S, Laws HJ, Neubert J, Oommen PT, Hönig M, Schulz A, Steinmann S, Schwarz K, Dückers G, Lamers B, Langemeyer V, Niehues T, Shai S, Graf D, Müglich C, Schmalzing MT, Schwaneck EC, Tony HP, Dirks J, Haase G, Liese JG, Morbach H, Foell D, Hellige A, Wittkowski H, Masjosthusmann K, Mohr M, Geberzahn L, Hedrich CM, Müller C, Rösen-Wolff A, Roesler J, Zimmermann A, Behrends U, Rieber N, Schauer U, Handgretinger R, Holzer U, Henes J, Kanz L, Boesecke C, Rockstroh JK, Schwarze-Zander C, Wasmuth JC, Dilloo D, Hülsmann B, Schönberger S, Schreiber S, Zeuner R, Ankermann T, von Bismarck P, Huppertz HI, Kaiser-Labusch P, Greil J, Jakoby D, Kulozik AE, Metzler M, Naumann-Bartsch N, Sobik B, Graf N, Heine S, Kobbe R, Lehmberg K, Müller I, Herrmann F, Horneff G, Klein A, Peitz J, Schmidt N, Bielack S, Groß-Wieltsch U, Classen CF, Klasen J, Deutz P, Kamitz D, Lassay L, Tenbrock K, Wagner N, Bernbeck B, Brummel B, Lara-Villacanas E, Münstermann E, Schneider DT, Tietsch N, Westkemper M, Weiß M, Kramm C, Kühnle I, Kullmann S, Girschick H, Specker C, Vinnemeier-Laubenthal E, Haenicke H, Schulz C, Schweigerer L, Müller TG, Stiefel M, Belohradsky BH, Soetedjo V, Kindle G, **Grimbacher B**.
The German National Registry of Primary Immunodeficiencies (2012-2017).
Front Immunol. 2019 Jul 19 **Impact factor: 5.511**

62. Eskandarian Z, Fliegauf M, Bulashevska A, Proietti M, Hague R, Smulski CR, Schubert D, Warnatz K, **Grimbacher B**.
Assessing the Functional Relevance of Variants in the IKAROS Family Zinc Finger Protein 1(IKZF1) in a Cohort of Patients With Primary Immunodeficiency.
Front Immunol. 2019 Apr 16 **Impact factor: 5.511**

61. Klemann C, Camacho-Ordonez N, Yang L, Eskandarian Z, Rojas-Restrepo JL, Frede N, Bulashevska A, Heeg M, Al-Ddafari MS, Premm J, Seidl M, Ammann S, Sherkat R, Radhakrishnan N, Warnatz K, Unger S, Kobbe R, Hüfner A, Leahy TR, Ip W, Burns SO, Fliegauf M, **Grimbacher B**.
Clinical and Immunological Phenotype of Patients With Primary Immunodeficiency Due to Damaging Mutations in *NFKB2*.
Front Immunol. 2019 Mar 19 **Impact factor: 5.511**

60. Egg D, Schwab C, Gabrysch A, Arkwright PD, Cheesman E, Giulino-Roth L, Neth O, Snapper S, Okada S, Moutschen M, Delvenne P, Pecher AC, Wolff D, Kim YJ, Seneviratne S, Kim KM, Kang JM, Ojaimi S, McLean C, Warnatz K, Seidl M, **Grimbacher B**.
Increased Risk for Malignancies in 131 Affected CTLA4 Mutation Carriers.
Front Immunol. 2018 Sep 10 **Impact factor: 5.511**

59. Scheuerlein P, Pietsch L, Camacho-Ordonez N, Reiser V, Patel S, Burns SO, Warnatz K, **Grimbacher B**.
Is It Safe to Switch From Intravenous Immunoglobulin to Subcutaneous Immunoglobulin in Patients With Common Variable Immunodeficiency and Autoimmune Thrombocytopenia?
Front Immunol. 2018 Jul 19;9:1656 . **Impact factor: 5.511**

PEER-REVIEWED ARTICLES (4)

58. Frey-Jakobs S, Hartberger JM, Fliegauf M, Bossen C, Wehmeyer ML, Neubauer JC, Bulashevska A, Proietti M, Fröbel P, Nöltner C, Yang L, Rojas-Restrepo J, Langer N, Winzer S, Engelhardt KR, Glocker C, Pfeifer D, Klein A, Schäffer AA, Lagovsky I, Lachover-Roth I, Béziat V, Puel A, Casanova JL, Fleckenstein B, Weidinger S, Kilic SS, Garty BZ, Etzioni A, **Grimbacher B**.
ZNF341 controls STAT3 expression and thereby immunocompetence.
Sci Immunol. 2018 Jun 15;3(24). **Impact factor: 10.551**

57. Gámez-Díaz L, Sigmund EC, Reiser V, Vach W, Jung S, **Grimbacher B**.
Rapid Flow Cytometry-Based Test for the Diagnosis of Lipopolysaccharide Responsive Beige-Like Anchor (LRBA) Deficiency.
Front Immunol. 2018 Apr 23;9:720. **Impact factor: 6.429**

56. Schwab C, Gabrysch A, Olbrich P, Patiño V, Warnatz K, Wolff D, Hoshino A, Kobayashi M, Imai K, Takagi M, Dybedal I, Haddock JA, Sansom DM, Lucena JM, Seidl M, Schmitt-Graeff A, Reiser V, Emmerich F, Frede N, Bulashevska A, Salzer U, Schubert D, Hayakawa S, Okada S, Kanariou M, Kucuk ZY, Chapdelaine H, Petruzelkova L, Sumnik Z, Sediva A, Slatter M, Arkwright PD, Cant A, Lorenz HM, Giese T, Lougaris V, Plebani A, Price C, Sullivan KE, Moutschen M, Litzman J, Freiberger T, van de Veerdonk FL, Recher M, Albert MH, Hauck F, Seneviratne S, Pachlopnik Schmid J, Kolios A, Unglik G, Klemann C, Speckmann C, Ehl S, Leichtner A, Blumberg R, Franke A, Snapper S, Zeissig S, Cunningham-Rundles C, Giulino-Roth L, Elemento O, Dückers G, Niehues T, Fronkova E, Kanderová V, Platt CD, Chou J, Chatila TA, Geha R, McDermott E, Bunn S, Kurzai M, Schulz A, Alsina L, Casals F, Deyà-Martinez A, Hambleton S, Kanegane H, Taskén K, Neth O, **Grimbacher B**.
Phenotype, penetrance, and treatment of 133 cytotoxic T-lymphocyte antigen 4-insufficient subjects.
J Allergy Clin Immunol. 2018 May 4. **Impact factor: 13.081**

55. Petersen BS, August D, Abt R, Alddafari M, Atarod L, Baris S, Bhavsar H, Brinkert F, Buchta M, Bulashevska A, Chee R, Cordeiro AI, Dara N, Dückers G, Elmarsafy A, Frede N, Galal N, Gerner P, Glocker EO, Goldacker S, Hammermann J, Hasselblatt P, Havlicekova Z, Hübscher K, Jesenak M, Karaca NE, Karakoc-Aydiner E, Kharaghani MM, Kilic SS, Kiykim A, Klein C, Klemann C, Kobbe R, Kotlarz D, Laass MW, Leahy TR, Mesdaghi M, Mitton S, Neves JF, Öztürk B, Pereira LF, Rohr J, Restrepo JLR, Ruzaike G, Saleh N, Seneviratne S, Senol E, Speckmann C, Tegtmeyer D, Thankam P, van der Werff Ten Bosch J, von Bernuth H, Zeissig S, Zeissig Y, Franke A, **Grimbacher B**.
Targeted Gene Panel Sequencing for Early-onset Inflammatory Bowel Disease and Chronic Diarrhea.
Inflamm Bowel Dis. 2017 Dec;23(12):2109-2120. **Impact factor: 4.525**

54. Schepp J, Chou J, Skrabl-Baumgartner A, Arkwright PD, Engelhardt KR, Hambleton S, Morio T, Röther E, Warnatz K, Geha R, **Grimbacher B**.
14 Years after Discovery: Clinical Follow-up on 15 Patients with Inducible Co-Stimulator Deficiency.
Front Immunol. 2017 Aug 16;8:964. **Impact factor: 6.429**

53. Schubert D, Klein MC, Hassdenteufel S, Caballero-Oteyza A, Yang L, Proietti M, Bulashevska A, Kemming J, Kühn J, Winzer S, Rusch S, Fliegauf M, Schäffer AA, Pfeffer S, Geiger R, Cavalié A, Cao H, Yang F, Li Y, Rizzi M, Eibel H, Kobbe R, Marks AL, Peppers BP, Hostoffer RW, Puck JM, Zimmermann R, **Grimbacher B**.
Plasma cell deficiency in human subjects with heterozygous mutations in Sec61 translocon alpha 1 subunit (SEC61A1).
J Allergy Clin Immunol. 2017 Aug 4 **Impact factor: 13.081**

52. Pott MC, Frede N, Wanders J, Hammarström L, Glocker EO, Glocker C, Tahami F, **Grimbacher B**.
Autoantibodies against BAFF, APRIL or IL21 - an alternative pathogenesis for antibody-deficiencies?
BMC Immunol. 2017 Jun 26;18(1):34. **Impact factor: 2.485**

51. Schepp J, Proietti M, Frede N, Buchta M, Hübscher K, Rojas Restrepo J, Goldacker S, Warnatz K, Pachlopnik Schmid J, Duppenthaler A, Lougaris V, Uriarte I, Kelly S, Hershfield M, **Grimbacher B**.
Screening of 181 Patients With Antibody Deficiency for Deficiency of Adenosine Deaminase 2 Sheds New Light on the Disease in Adulthood.
Arthritis Rheumatol. 2017 Aug;69(8):1689-1700. Epub 2017 Jul 5. **Impact factor: 6.918**

50. Schepp J, Bulashevska A, Mannhardt-Laakmann W, Cao H, Yang F, Seidl M, Kelly S, Hershfield M, **Grimbacher B**.
Deficiency of Adenosine Deaminase 2 Causes Antibody Deficiency.
J Clin Immunol. 2016 Apr;36(3):179-86. Epub 2016 Feb 27. **Impact factor: 3.184**

49. Gámez-Díaz L, August D, Stepensky P, Revel-Vilk S, Seidel MG, Noriko M, Morio T, Worth AJ, Blessing J, Van de Veerdonk F, Feuchtinger T, Kanariou M, Schmitt-Graeff A, Jung S, Seneviratne S, Burns S, Belohradsky BH, Rezaei N, Bakhtiar S, Speckmann C, Jordan M, **Grimbacher B**.
The extended phenotype of LPS-responsive beige-like anchor protein (LRBA) deficiency.
J Allergy Clin Immunol. 2016 Jan;137(1):223-230. **Impact factor: 11.476**

48. Celmeli F, Oztoprak N, Turkkahraman D, Seyman D, Mutlu E, Frede N, Köksoy S, **Grimbacher B**.
Successful Granulocyte Colony Stimulating Factor Treatment of Relapsing Candida albicans Meningoencephalitis Caused by CARD9 Deficiency.
Pediatr Infect Dis J. 2016 Apr;35(4):428-31. **Impact factor: 2.723**

47. Depner M, Fuchs S, Raabe J, Frede N, Glocker C, Doffinger R, Gkrania-Klotsas E, Kumararatne D, Atkinson TP, Schroeder HW Jr, Niehues T, Dückers G, Stray-Pedersen A, Baumann U, Schmidt R, Franco JL, Orrego J, Ben-Shoshan M, McCusker C, Jacob CM, Carneiro-Sampaio M, Devlin LA, Edgar JD, Henderson P, Russell RK, Skytte AB, Seneviratne SL, Wanders J, Stauss H, Meyts I, Moens L, Jesenak M, Kobbe R, Borte S, Borte M, Wright DA, Hagin D, Torgerson TR, **Grimbacher B**. The Extended Clinical Phenotype of 26 Patients with Chronic Mucocutaneous Candidiasis due to Gain-of-Function Mutations in STAT1.
J Clin Immunol. 2016 Jan;36(1):73-84. Epub 2015 Nov 25. **Impact factor: 2.654**

PEER-REVIEWED ARTICLES (5)

46. Volk T, Pannicke U, Reisli I, Bulashevska A, Ritter J, Björkman A, Schäffer AA, Fliegauf M, Sayar EH, Salzer U, Fisch P, Pfeifer D, Di Virgilio M, Cao H, Yang F, Zimmermann K, Keles S, Caliskaner Z, Güner Ş, Schindler D, Hammarström L, Rizzi M, Hummel M, Pan-Hammarström Q, Schwarz K, **Grimbacher B**.
DCLRE1C (ARTEMIS) mutations causing phenotypes ranging from atypical severe combined immunodeficiency to mere antibody deficiency.
Hum Mol Genet. 2015 Dec 20;24(25):7361-72. Epub 2015 Oct 16. **Impact factor: 6.677**

45. Elgizouli M, Lowe DM, Speckmann C, Schubert D, Hülsdünker J, Eskandarian Z, Dudek A, Schmitt-Graeff A, Wanders J, Jørgensen SF, Fevang B, Salzer U, Nieters A, Burns S, **Grimbacher B**.
Activating PI3Kδ mutations in a cohort of 669 patients with primary immunodeficiency.
Clin Exp Immunol. 2016 Feb;183(2):221-9. Epub 2015 Nov 9. **Impact factor: 3.278**

44. Fliegauf M, Bryant VL, Frede N, Slade C, Woon ST, Lehnert K, Winzer S, Bulashevska A, Scerri T, Leung E, Jordan A, Keller B, de Vries E, Cao H, Yang F, Schäffer AA, Warnatz K, Browett P, Douglass J, Ameratunga RV, van der Meer JW, **Grimbacher B**.
Haploinsufficiency of the NF-κB1 Subunit p50 in Common Variable Immunodeficiency.
Am J Hum Genet. 2015 Sep 3;97(3):389-403. Epub 2015 Aug 13. **Impact factor: 10.987**

43. Dziadzio M, Ammann S, Canning C, Boyle F, Hassan A, Cale C, Elawad M, Fiil BK, Gyrd-Hansen M, Salzer U, Speckmann C, **Grimbacher B**.
Symptomatic Males and Female Carriers in a Large Caucasian Kindred with XIAP Deficiency.
J Clin Immunol. 2015 Jul;35(5):439-44. **Impact factor: 2.654**

42. Engelhardt KR, Gertz ME, Keles S, Schäffer AA, Sigmund EC, Glocker C, Saghafi S, Pourpak Z, Ceja R, Sassi A, Graham LE, Massaad MJ, Mellouli F, Ben-Mustapha I, Khemiri M, Kilic SS, Etzioni A, Freeman AF, Thiel J, Schulze I, Al-Herz W, Metin A, Sanal Ö, Tezcan I, Yeganeh M, Niehues T, Dueckers G, Weinspach S, Patiroglu T, Unal E, Dasouki M, Yilmaz M, Genel F, Aytekin C, Kutukculer N, Somer A, Kilic M, Reisli I, Camcioglu Y, Gennery AR, Cant AJ, Jones A, Gaspar BH, Arkwright PD, Pietrogrande MC, Baz Z, Al-Tamemi S, Lougaris V, Lefranc G, Megarbane A, Boutros J, Galal N, Bejaoui M, Barbouche MR, Geha RS, Chatila TA, **Grimbacher B**.
The extended clinical phenotype of 64 patients with dedicator of cytokinesis 8 deficiency.
J Allergy Clin Immunol. 2015 Aug;136(2):402-12. **Impact factor: 11.248**

41. Schubert D, Bode C, Kenefeck R, Hou TZ, Wing JB, Kennedy A, Bulashevska A, Petersen BS, Schäffer AA, Grüning BA, Unger S, Frede N, Baumann U, Witte T, Schmidt RE, Dueckers G, Niehues T, Seneviratne S, Kanariou M, Speckmann C, Ehl S, Rensing-Ehl A, Warnatz K, Rakhmanov M, Thimme R, Hasselblatt P, Emmerich F, Cathomen T, Backofen R, Fisch P, Seidl M, May A, Schmitt-Graeff A, Ikemizu S, Salzer U, Franke A, Sakaguchi S, Walker LS*, Sansom DM*, **Grimbacher B***.
Autosomal dominant immune dysregulation syndrome in humans with CTLA4 mutations.
Nat Med. 2014 Dec;20(12):1410-6. **Impact factor: 28.054**

40. Jouhadi Z, Khadir K, Ailal F, Bouayad K, Nadifi S, Engelhardt KR, **Grimbacher B**.
Ten-year follow-up of a DOCK8-deficient child with features of systemic lupus erythematosus.
Pediatrics. 2014 Nov;134(5):e1458-63. **Impact factor: 5.297**

39. Sassi A, Lazaroski S, Wu G, Haslam SM, Fliegauf M, Mellouli F, Patiroglu T, Unal E, Ozdemir MA, Jouhadi Z, Khadir K, Ben-Khemis L, Ben-Ali M, Ben-Mustapha I, Borchani L, Pfeifer D, Jakob T, Khemiri M, Asplund AC, Gustafsson MO, Lundin KE, Falk-Sörqvist E, Moens LN, Gungor HE, Engelhardt KR, Dziadzio M, Stauss H, Fleckenstein B, Meier R, Prayitno K, Maul-Pavicic A, Schaffer S, Rakhmanov M, Henneke P, Kraus H, Eibel H, Kölsch U, Nadifi S, Nilsson M, Bejaoui M, Schäffer AA, Smith CI, Dell A, Barbouche MR, **Grimbacher B.**
Hypomorphic homozygous mutations in phosphoglucomutase 3 impair immunity and increase serum IgE levels.
J Allergy Clin Immunol. 2014 Apr 1. **Impact Factor: 12.047**

38. Gathmann B, Mahlaoui N; for CEREDIH, Gérard L, Oksenhendler E, Warnatz K, Schulze I, Kindle G, Kuijpers TW; Dutch WID, van Beem RT, Guzman D, Workman S, Soler-Palacín P, De Gracia J, Witte T, Schmidt RE, Litzman J, Hlavackova E, Thon V, Borte M, Borte S, Kumararatne D, Feighery C, Longhurst H, Helbert M, Szaflarska A, Sediva A, Belohradsky BH, Jones A, Baumann U, Meyts I, Kutukculer N, Wågström P, Galal NM, Roesler J, Farmaki E, Zinovieva N, Ciznar P, Papadopoulou-Alataki E, Bienemann K, Velbri S, Panahloo Z, **Grimbacher B**; for the European Society for Immunodeficiencies Registry Working Party.
Clinical picture and treatment of 2212 patients with common variable immunodeficiency.
J Allergy Clin Immunol. 2014 Feb 27. **Impact Factor: 12.047**

37. Frede N, Glocker EO, Wanders J, Engelhardt KR, Kreisel W, Ruemmele FM, **Grimbacher B.**
Evidence for non-neutralizing autoantibodies against IL-10 signalling components in patients with inflammatory bowel disease.
BMC Immunol. 2014 Feb 28;15(1):10. **Impact Factor: 2.610**

36. Hurst JR, Workman S, Garcha DS, Seneviratne SL, Haddock JA, **Grimbacher B.**
Activity, severity and impact of respiratory disease in primary antibody deficiency syndromes.
J Clin Immunol. 2014 Jan;34(1):68-75. **Impact Factor: 3.382**

35. Lanternier F, Pathan S, Vincent QB, Liu L, Cypowyj S, Prando C, Migaud M, Taibi L, Ammar-Khodja A, Boudghene Stambouli O, Guellil B, Jacobs F, Goffard JC, Schepers K, del Marmol V, Boussofara L, Denguezli M, Larif M, Bachelez H, Michel L, Lefranc G, Hay R, Jouvion G, Chretien F, Fraitag S, Bougnoux ME, Boudia M, Abel L, Lortholary O, Casanova JL*, Picard C*, **Grimbacher B***, Puel A.*
Deep dermatophytosis and inherited CARD9 deficiency.
N Engl J Med. 2013 Oct 31;369(18):1704-14. *contributed equally **Impact Factor: 51.658**

PEER-REVIEWED ARTICLES (6)

34. Edgar JD, Buckland M, Guzman D, Conlon NP, Knerr V, Bangs C, Reiser V, Panahloo Z, Workman S, Slatter M, Gennery AR, Davies EG, Allwood Z, Arkwright PD, Helbert M, Longhurst HJ, Grigoriadou S, Devlin LA, Huissoon A, Krishna MT, Hackett S, Kumararatne DS, Condliffe AM, Baxendale H, Henderson K, Bethune C, Symons C, Wood P, Ford K, Patel S, Jain R, Jolles S, El-Shanawany T, Alachkar H, Herwadkar A, Sargur R, Shrimpton A, Hayman G, Abuzakouk M, Spickett G, Darroch CJ, Paulus S, Marshall SE, McDermott EM, Heath PT, Herriot R, Noorani S, Turner M, Khan S, **Grimbacher B.**
The United Kingdom Primary Immune Deficiency (UKPID) Registry: report of the first 4 years' activity 2008-2012.
Clin Exp Immunol. 2014 Jan;175(1):68-78. **Impact Factor: 3.410**

33. Gathmann B, Goldacker S, Klima M, Belohradsky BH, Notheis G, Ehl S, Ritterbusch H, Baumann U, Meyer-Bahlburg A, Witte T, Schmidt R, Borte M, Borte S, Linde R, Schubert R, Bienemann K, Laws HJ, Dueckers G, Roesler J, Rothoeft T, Krüger R, Scharbatke EC, Masjosthusmann K, Wasmuth JC, Moser O, Kaiser P, Groß-Wieltsch U, Classen CF, Horneff G, Reiser V, Binder N, El-Helou SM, Klein C, **Grimbacher B***, Kindle G.*
The German National Registry for Primary Immunodeficiencies (PID).
Clin Exp Immunol. 2013 Aug;173(2):372-80. Epub 2013 Mar 15. *contributed equally **Impact Factor: 3.134**

32. Engelhardt KR, Shah N, Faizura-Yeop I, Kocacik Uygun DF, Frede N, Muise AM, Shteyer E, Filiz S, Chee R, Elawad M, Hartmann B, Arkwright PD, Dvorak C, Klein C, Puck JM, **Grimbacher B***, Glocker EO*. (*contributed equally)
Clinical outcome in IL-10- and IL-10 receptor-deficient patients with or without hematopoietic stem cell transplantation.
J Allergy Clin Immunol. 2013 Mar;131(3):825-30.2012. Epub Nov 14. **Impact Factor: 12.047**

31. Lopez-Herrera G, Tampella G, Pan-Hammarström Q, Herholz P, Trujillo-Vargas CM, Phadwal K, Simon AK, Moutschen M, Etzioni A, Mory A, Srugo I, Melamed D, Hultenby K, Liu C, Baronio M, Vitali M, Philippet P, Dideberg V, Aghamohammadi A, Rezaei N, Enright V, Du L, Salzer U, Eibel H, Pfeifer D, Veelken H, Stauss H, Lougaris V, Plebani A, Gertz EM, Schäffer AA, Hammarström L, **Grimbacher B.**
Deleterious Mutations in LRBA Are Associated with a Syndrome of Immune Deficiency and Autoimmunity.
Am J Hum Genet. 2012 Jun 8;90(6):986-1001 . Epub 2012 May 16. **Impact Factor: 11.680**

30. Jolles S, Bernatowska E, de Gracia J, Borte M, Cristea V, Peter HH, Belohradsky BH, Wahn V, Neufang-Hüber J, Zenker O, **Grimbacher B.**
Efficacy and safety of hizentra(®) in patients with primary immunodeficiency after a dose-equivalent switch from intravenous or subcutaneous replacement therapy.
Clin Immunol. 2011 Oct; 141(1): 90-102. Epub 2011 Jun 12. **Impact Factor: 3.932**

29. Martini H, Enright V, Perro M, Workman S, Birmelin J, Giorda E, Quinti I, Lougaris V, Baronio M, Warnatz K, **Grimbacher B.**
Importance of B cell co-stimulation in CD4(+) T cell differentiation: X-linked agammaglobulinaemia, a human model.
Clin Exp Immunol . 2011 Jun;164(3):381-7. Epub 2011 Apr 13. **Impact Factor: 3.134**

28. Glocker EO, Frede N, Perro M, Sebire N, Elawad M, Shah N, **Grimbacher B.**
Infant colitis--it's in the genes.
Lancet. 2010 Oct 9;376(9748):1272. **Impact Factor: 30.758**

27. Woellner C, Gertz EM, Schäffer AA, Lagos M, Perro M, Glocker EO, Pietrogrande MC, Cossu F, Franco JL, Matamoros N, Pietrucha B, Heropolitańska-Pliszka E, Yeganeh M, Moin M, Español T, Ehl S, Gennery AR, Abinun M, Breborowicz A, Niehues T, Kilic SS, Junker A, Turvey SE, Plebani A, Sánchez B, Garty BZ, Pignata C, Cancrini C, Litzman J, Sanal O, Baumann U, Bacchetta R, Hsu AP, Davis JN, Hammarström L, Davies EG, Eren E, Arkwright PD, Moilanen JS, Viemann D, Khan S, Maródi L, Cant AJ, Freeman AF, Puck JM, Holland SM, **Grimbacher B**.
Mutations in STAT3 and diagnostic guidelines for hyper-IgE syndrome.
J Allergy Clin Immunol. 2010 Feb;125(2):424-432.e8. **Impact Factor: 9.165**

26. Engelhardt KR, McGhee S, Winkler S, Sassi A, Woellner C, Lopez-Herrera G, Chen A, Kim HS, Lloret MG, Schulze I, Ehl S, Thiel J, Pfeifer D, Veelken H, Niehues T, Siepermann K, Weinspach S, Reisli I, Keles S, Genel F, Kutukculer N, Camcioğlu Y, Somer A, Karakoc-Aydiner E, Barlan I, Gennery A, Metin A, Degerliyurt A, Pietrogrande MC, Yeganeh M, Baz Z, Al-Tamemi S, Klein C, Puck JM, Holland SM, McCabe ER, **Grimbacher B***, Chatila TA*.
*contributed equally and considered aequo loco
Large deletions and point mutations involving the dedicator of cytokinesis 8 (DOCK8) in the autosomal-recessive form of hyper-IgE syndrome.
J Allergy Clin Immunol. 2009 Dec;124(6):1289-302.e4. **Impact Factor: 9.165**

25. Glocker EO, Kotlarz D, Boztug K, Gertz EM, Schäffer AA, Noyan F, Perro M, Diestelhorst J, Allroth A, Murugan D, Hätscher N, Pfeifer D, Sykora KW, Sauer M, Kreipe H, Lacher M, Nustede R, Woellner C, Baumann U, Salzer U, Koletzko S, Shah N, Segal AW, Sauerbrey A, Buderus S, Snapper SB, **Grimbacher B***, Klein C*.
*contributed equally and considered aequo loco
Inflammatory Bowel Disease and Mutations Affecting the Interleukin-10 Receptor.
N Engl J Med. 2009 Nov 19;361(21):2033-45. **Impact Factor: 47.050**

24. Glocker EO, Hennigs A, Nabavi M, Schäffer AA, Woellner C, Salzer U, Pfeifer D, Veelken H, Warnatz K, Tahami F, Jamal S, Manguiat A, Rezaei N, Amirzargar A, Plebani A, Hannesschläger N, Gross O, Ruland J, **Grimbacher B**.
A homozygous CARD9 mutation in a family with susceptibility to fungal infections.
N Engl J Med. 2009 Oct 29;361(18):1727-35. **Impact Factor: 47.050**

23. Horn J, Manguiat A, Berglund LJ, Knerr V, Tahami F, **Grimbacher B***, Fulcher DA.*
Decrease in phenotypic regulatory T cells in subsets of patients with common variable immunodeficiency.
Clin Exp Immunol. 2009 Jun;156(3):446-54. *contributed equally **Impact Factor: 2.853**

PEER-REVIEWED ARTICLES (7)

22. Wjst M, Lichtner P, Meitinger T, **Grimbacher B.**
STAT3 single-nucleotide polymorphisms and STAT3 mutations associated with hyper-IgE syndrome are not responsible for increased serum IgE serum levels in asthma families.
Eur J Hum Genet. 2009 Mar;17(3):352-6. Epub 2008 Oct 8. **Impact Factor: 3.925**

21. Salzer U, Bacchelli C, Buckridge S, Pan-Hammarström Q, Jennings S, Lougaris V, Bergbreiter A, Hagena T, Birmelin J, Plebani A, Webster AD, Peter HH, Suez D, Chapel H, McLean-Tooke A, Spickett GP, Anover-Sombke S, Ochs HD, Urschel S, Belohradsky BH, Ugrinovic S, Kumararatne DS, Lawrence TC, Holm AM, Franco JL, Schulze I, Schneider P, Gertz EM, Schäffer AA, Hammarström L, Thrasher AJ, Gaspar HB, **Grimbacher B.**
Relevance of biallelic versus monoallelic *TNFRSF13B* mutations in distinguishing disease-causing from risk-increasing *TNFRSF13B* variants in antibody deficiency syndromes.
Blood. 2009 Feb 26;113(9):1967-76. Epub 2008 Nov 3. **Impact Factor: 10.555**

20. Knerr V, Gathmann B, Eades-Perner AM, Kindle G, **Grimbacher B.**
The ESID Online Database for primary immunodeficiencies. First analyses with regard to Germany and Europe [Article in German]
Med Klin (Munich). 2008 Sep 15;103(9):620-7. **Impact Factor: 0.451**

19. Salzer U, Hagena T, Webster DB, **Grimbacher B**.
Sequence Analysis of BIRC4/XIAP in Male Patients with Common Variable Immunodeficiency.
Int Arch Allergy Immunol. 2008 Jun 3;147(2):147-151. **Impact Factor: 2.131**

18. Salzer U, Neumann C, Thiel J, Woellner C, Pan-Hammarström Q, Lougaris V, Hagena T, Jung J, Birmelin J, Du L, Metin A, Webster DA, Plebani A, Moschese V, Hammarström L, Schäffer AA, **Grimbacher B**.
Screening of functional and positional candidate genes in families with common variable immunodeficiency.
BMC Immunol. 2008 Feb 7;9:3. **Impact Factor: 2.661**

17. Yeganeh M, Henneke P, Rezaei N, Ehl S, Thiel D, Matamoros N, Pietrogrande C, Espanol T, Litzman J, Franco 6L, Sanal O, Kilic SS, Breborowicz A, Plebani A, Renner E, Rothenfusser S, Hawn TR, Woellner C, **Grimbacher B**.
Toll-like receptor stimulation induces higher TNF-alpha secretion in peripheral blood mononuclear cells from patients with hyper IgE syndrome.
Int Arch Allergy Immunol. 2008;146(3):190-4. **Impact Factor: 2.131**

16. Pfeifer D, Woellner C, Petersen A, Pietrogrande MC, Franco JL, Yeganeh M, Ehl S, Matamoros N, Sprecher E, Puck JM, Veelken H, **Grimbacher B**.
The hyper-IgE syndrome is not caused by a microdeletion syndrome.
Immunogenetics. 2007 Dec;59(12):913-26. Epub 2007 Nov 14. **Impact Factor: 2.793**

15. Holland SM, Deleo FR, Elloumi HZ, Hsu AP, Uzel G, Brodsky N, Freeman AF, Demidowich A, Davis J, Turner ML, Anderson VL, Darnell DN, Welch PA, Kuhns DB, Frucht DM, Malech HL, Gallin JI, Kobayashi SD, Whitney AR, Voyich JM, Musser JM, Woellner C, Schaffer AA, Puck JM*, **Grimbacher B***.
*contributed equally and considered aequo loco
STAT3 Mutations in the Hyper-IgE Syndrome.
N Engl J Med. 2007 Oct 18;357(16):1608-19. (Cited by 330) **Impact Factor: 50.017**

14. Salzer U, Birmelin J, Bacchelli C, Witte T, Buchegger-Podbielski U, Buckridge S, Rzepka R, Gaspar HB, Thrasher AJ, Schmidt RE, Melchers I, **Grimbacher B**.
Sequence Analysis of TNFRSF13b, Encoding TACI, in Patients with Systemic Lupus Erythematosus.
J Clin Immunol. 2007 Apr 27 **Impact Factor: 3.248**

13. Guzman D, Veit D, Knerr V, Kindle G, Gathmann B, Eades-Perner AM, **Grimbacher B**.
The ESID Online Database network.
Bioinformatics. 2007 Mar 1;23(5):654-5. Epub 2007 Jan 19. **Impact Factor: 5.039**

12. Eades-Perner AM, Gathmann B, Knerr V, Guzman D, Veit D, Kindle G, **Grimbacher B**; For the ESID Registry
The European internet-based patient and research database for primary immunodeficiencies: results 2004-06.
Clin Exp Immunol. 2007 Feb;147(2):306-12. **Impact Factor: 2.853**

11. Klein C, Grudzien M, Appaswamy G, Germeshausen M, Sandrock I, Schaffer AA, Rathinam C, Boztug K, Schwinzer B, Rezaei N, Bohn G, Melin M, Carlsson G, Fadeel B, Dahl N, Palmblad J, Henter JI, Zeidler C, **Grimbacher B*,** Welte K*. *contributed equally and considered aequo loco
HAX1 deficiency causes autosomal recessive severe congenital neutropenia (Kostmann disease).
Nat Genet. 2007 Jan;39(1):86-92. **Impact Factor: 30.259**

10. Bohn G, Allroth A, Brandes G, Thiel J, Glocker E, Schaffer AA, Rathinam C, Taub N, Teis D, Zeidler C, Dewey RA, Geffers R, Buer J, Huber LA, Welte K, **Grimbacher B***, Klein C*. *contributed equally and considered aequo loco
A novel human primary immunodeficiency syndrome caused by deficiency of the endosomal adaptor protein p14.
Nat Med. 2007 Jan;13(1):38-45. **Impact Factor: 27.553**

9. Horn J, Thon V, Bartonkova D, Salzer U, Warnatz K, Schlesier M, Peter HH, **Grimbacher B.**
Anti-IgA antibodies in Common Variable Immunodeficiency (CVID): Diagnostic workup and therapeutic strategy.
Clin Immunol. 2007 Feb;122(2):156-62. Epub 2006 Nov 28 **Impact Factor: 3.606**

8. Warnatz K, Bossaller L, Salzer U, Skrabl-Baumgartner A, Schwinger W, van der Burg M, van Dongen JJ, Orlowska-Volk M, Knoth R, Durandy A, Draeger R, Schlesier M, Peter HH, **Grimbacher B**.
Human ICOS deficiency abrogates the germinal center reaction and provides a monogenic model for common variable immunodeficiency.

PEER-REVIEWED ARTICLES (8)

Blood. 2006 Apr 15; 107(8):3045-52. **Impact Factor: 10.432**

7. Finck A, Van der Meer JW, Schaffer AA, Pfannstiel J, Fieschi C, Plebani A, Webster AD, Hammarstrom L, **Grimbacher B**.
Linkage of autosomal-dominant common variable immunodeficiency to chromosome 4q.
Eur J Hum Genet. 2006 Jul;14(7):867-75. Epub 2006 Apr 26 **Impact Factor: 3.925**

6. Jung J, Bohn G, Allroth A, Boztug K, Brandes G, Sandrock I, Schaffer AA, Rathinam C, Kollner I, Beger C, Schilke R, Welte K, Klein C, **Grimbacher B**.
Identification of a homozygous deletion in the AP3B1 gene causing Hermansky-Pudlak syndrome, type 2.
Blood. 2006 Mar 14 **Impact Factor: 10.432**

5. Schaffer AA, Pfannstiel J, Webster AD, Plebani A, Hammarstrom L, **Grimbacher B**.
Analysis of families with common variable immunodeficiency (CVID) and IgA deficiency suggests linkage of CVID to chromosome 16q.
Hum Genet. 2005 Nov, 22:1-5 **Impact Factor: 4.042**

4. Salzer U, Chapel HM, Webster AD, Pan-Hammarstrom Q, Schmitt-Graeff A, Schlesier M, Peter HH, Rockstroh JK, Schneider P, Schaffer AA, Hammarstrom L**, Grimbacher B.**
Mutations in *TNFRSF13B* encoding TACI are associated with common variable immunodeficiency in humans.
Nat Genet. 2005 Aug; 37(8): 820-8. (Cited by 349) **Impact Factor: 30.259**

3. Salzer U, Maul-Pavicic A, Cunningham-Rundles C, Urschel S, Belohradsky BH, Litzmann J, Holm A, Franco JL, Plebani A, Hammarstrom L, Skrabl A, Schwinger W, **Grimbacher B.**
ICOS-Deficiency in Patients with Common Variable Immunodeficiency
Clin Immunol 2004 Dec; 113(3): 234-40. **Impact Factor: 3.606**

2. Renner ED, Puck JM, Holland S, Schmitt M, Weiss M, Frosch M, Bergmann M, Davis J, Belohradsky B, **Grimbacher B.**
Autosomal recessive hyperimmunoglobulin E syndrome: a distinct disease entity.
J Pediatr. 2004 144:93-9. **Impact Factor: 4.122**

1. Braig D.U., A.A. Schäffer, E. Glocker,, U. Salzer K. Warnatz, H.H. Peter, **Grimbacher B.**
Linkage of Autosomal Dominant Common Variable Immunodeficiency to Chromosome 5p and Evidence for Locus Heterogeneity
Hum Genet. 2003, 112: 369-378. **Impact Factor: 4.042**

FIRST-AUTHOR PUBLICATIONS:

9. **Grimbacher B,** A. Hutloff, M. Schlesier, E. Glocker, K. Warnatz, R. Dräger, H. Eibel, B. Fischer, A. Schäffer, H.W. Mages, R.A. Kroczek, H.H. Peter
Homozygous loss of ICOS is associated with adult-onset common variable immunodeficiency.
Nat Immunol. 2003, 4(3):261-268. (Cited by 408) **Impact Factor: 25.113**

8. **Grimbacher B,** Schaffer AA, Holland SM, Davis J, Gallin JI, Malech HL, Atkinson TP, Belohradsky BH, Buckley RH, Cossu F, Espanol T, Garty BZ, Matamoros N, Myers LA, Nelson RP, Ochs HD, Renner ED, Wellinghausen N, Puck JM.
Genetic linkage of hyper-IgE syndrome to chromosome 4.
Am J Hum Genet. 1999 Sep;65(3):735-44. **Impact Factor: 10.153**

7. **Grimbacher B,** Dutra AS, Holland SM, Fischer RE, Pao M, Gallin JI, Puck JM.
Analphoid marker chromosome in a patient with hyper-IgE syndrome, autism, and mild mental retardation.
Genet Med. 1999 Jul-Aug; 1(5):213-8. **Impact Factor: 3.716**

6. **Grimbacher B,** Holland SM, Gallin JI, Greenberg F, Hill SC, Malech HL, Miller JA, O'Connell AC, Puck JM.
Hyper-IgE syndrome with recurrent infections--an autosomal dominant multisystem disorder.
N Engl J Med. 1999 Mar 4;340(9):692-702. **Impact Factor: 50.017**

5. **Grimbacher B,** Huber M, von Kempis J, Kalden P, Uhl M, Kohler G, Blum HE, Peter HH.
Successful treatment of gastrointestinal vasculitis due to systemic lupus erythematosus with intravenous pulse cyclophosphamide: a clinical case report and review of the literature.
Br J Rheumatol. 1998 Sep; 37(9):1023-8. **Impact Factor: 2.845**

4. **Grimbacher B,** Aicher WK, Peter HH, Eibel H.
TNF-alpha induces the transcription factor Egr-1, pro-inflammatory cytokines and cell proliferation in human skin fibroblasts and synovial lining cells.
Rheumatol Int. 1998;17(5):185-92. **Impact Factor: 1.327**

3. **Grimbacher B,** Wenger B, Deibert P, Ness T, Koetter I, Peter HH.
Loss of vision and diarrhoea.
Lancet. 1997 Dec 20-27;350(9094):1818. **Impact Factor: 28.409**

2. **Grimbacher B,** Peters T, Peter HH.
Lactose-intolerance may induce severe chronic eczema.
Int Arch Allergy Immunol. 1997 Aug;113(4):516-8. **Impact Factor: 2.131**

PEER-REVIEWED ARTICLES (9)

1. **Grimbacher B,** Aicher WK, Peter HH, Eibel H.
Measurement of transcription factor c-fos and EGR-1 mRNA transcription levels in synovial tissue by quantitative RT-PCR.
Rheumatol Int. 1997;17(3):109-12. **Impact Factor: 1.327**

CO-AUTHOR PUBLICATIONS:

186. Peters P, Schepp J, Albert MH, von Bernuth H, Blank N, Brunner J, Dückers G, Ehlers L, Farmand S, Föll D, Förster-Waldl E, Gburek-Augustat J, Ghosh S, Göschl L, Hömberg M, Hönig M, Kallinich T, Klemann C, Klingel L, Kontny U, Kuhn LM, Lamprecht P, Lehmberg K, Meyer-Bahlburg A, Müller I, Nathrath M, Niehues T, Oommen PT, Pachlopnik Schmid J, Prader S, Puzik A, Renella R, Schulz A, Skrabl-Baumgartner A, Starke S, Tarrant TK, Hershfield M, **Grimbacher B**, Hauck F.
ADA2 genotype and enzyme activity may predict vasculitic or hematologic DADA2 phenotype.
J Hum Immun. 2026 Jun 16;2(5):e20250108. **Impact Factor: 2.100**

185. Sindram E, Montero-Hernández JE, Frenger Q, van Dijk H, Lang A, Zeidler V, Marsiske R, Rhiel M, Geiger K, Cornu TI, Mace EM, Spindler V, Dengjel J, Gros F, **Grimbacher B**, Sepulveda FE, Carrasco YR, Andreani V, Gámez-Díaz L.
LRBA regulates actin cytoskeleton dynamics through NMIIA during B cell immune responses.
EMBO Rep. 2026 Jun 12. **Impact Factor: 6.000**

184. Maccari ME, König C, Andrieux G, Kury P, Berger SA, Mann J, Kelly B, Völkl S, Huang C, Helmstädter M, Lagies S, Fischer M, Baixauli F, Gorka O, Groß O, Hufnagel M, Salou S, Farmand S, Heine S, Schuster V, Willenbacher W, Dückers G, **Grimbacher B**, Warnatz K, Kapp FG, Lorenz M, Groß M, Wittner J, Elling R, Scorrano L, Koenig IA, Bengsch B, Speckmann C, Kammerer B, Börries M, Schwarz K, Hertel J, Pearce EL, Ehl S, Klein Geltink RI, Rensing-Ehl A.
FAS-controlled T cells drive lymphoproliferation through glycolysis without effector differentiation.
J Hum Immun. 2026 May 13;2(4):e20250233. **Impact Factor: 2.100**

183. Tachó-Piñot R, Bashour H, Filipska M, Corral-Vazquez C, Guzman M, Marcos-Fa X, Martinuzzi D, Honner H, Canales Herrerias P, Tejedor Vaquero S, Sáez Gordón A, Perera-Bel J, Domínguez Barragán J, Arcos-Ribas B, de Campos-Mata L, Slabodkin A, Chernigovskaya M, Rodríguez de la Concepción ML, Gutierrez-Marcos J, García-García A, Nascimento Osorio A, Pascal M, Yagüe J, Juan M, Aróstegui JI, Hijano Esqué R, Sánchez Font A, Ehl S, **Grimbacher B**, Rizzi M, Dotta L, Chen K, Badolato R, Alsina L, Mehandru S, Cunningham-Rundles C, Carrillo J, Magri G, Greiff V, Cerutti A.
IgD from atypical-like memory B cells and plasma cells targets commensal and environmental antigens.
J Exp Med. 2026 May 4;223(5):e20251752. **Impact Factor: 10.600**

182. Ott N, **Grimbacher B**, Andreani V.
STAT3 isoform dynamics reveal robust splice ratio maintenance across cytokine-activated human immune cells.
Front Immunol. 2026 Apr 1;17:1792173. **Impact Factor: 5.900**

181. Bayrhuber M, Schlett C, Slesaczeck J, Herbst S, Mueller G, Nieters A, **Grimbacher B**, Farin-Glattacker E.
Quality of Life of Patients With Multi-Organ Autoimmune Disease and Its Relationship to Patient-Centered Care: Protocol for a Longitudinal Cohort Study.
JMIR Res Protoc. 2026 Mar 9;15:e77786. **Impact Factor: 1.500**

180. Gaál Z, Meehan C, Yilmaz M, Ujhazi B, Suhet P, Miller R, Dasso J, Nomula K, Franson B, Toth M, Potts E, Gokbak MN, Gordon S, Ellison M, Cruz R, Asante-Korang A, Cassani FA, Betensky M, Butte M, Cooper MA, Cockrell E, Galligan A, Glaum M, **Grimbacher B**, Fliegauf M, Meyer A, Milojevic D, Minor M, Mendez EM, Metts J, Nieves D, Ong MS, Oshrine BR, Patel P, Prpich J, Purser J, Ramirez A, Rosenberg D, Schlefman A, Shaker A, Shah S, Shah B, Santiago L, Obzut D, Sriaroon P, Thatayatikom A, Weis E, Mayer J, Farmer JR, Csomos K, Eslin D, Ayala I, Westermann-Clark E, Walter JE.
Investigating Biomarkers for Inborn Errors of Immunity in a Prospective Study of Patients With Autoimmune Cytopenia.
Pediatr Blood Cancer. 2026 Mar;73(3):e70074. **Impact Factor: 2.300**

179. Kindle G, Alligon M, Albert MH, Buckland M, Edgar JD, Gathmann B, Ghosh S, Gkantaras A, Nieters A, Pignata C, Robinson PN, Rusch S, Schuetz C, Sharapova S, Shillitoe B, Candotti F, Cant AJ, Casanova JL, Etzioni A, Fischer A, Meyts I, Notarangelo LD, Pergent M, Smith CIE; ESID Registry Working Party; Hammarström L, **Grimbacher B**, Seppänen MRJ, Mahlaoui N, Ehl S, Seidel MG.
Inborn errors of immunity: Manifestation, treatment, and outcome-an ESID registry 1994-2024 report on 30,628 patients.
J Hum Immun. 2025 Sep;1(3):e20250007. **Impact Factor: 2.100**

178. Fischer AAM, Kramer MM, Baños M, Grimm MM, Fliegauf M, **Grimbacher B**, Radziwill G, Rahmann S, Weber W.
Activation of NF-κB Signaling by Optogenetic Clustering of IKKα and β.
Adv Biol (Weinh). 2025 Jul 29:e00384. **Impact Factor: 3.200**

177. Chin AT, Ochs HD, Kobayashi R, Abolhassani H, Alachkar H, Barmettler S, Baxendale H, Boiling K, Catanzaro J, Chua I, Coulter T, Cunningham-Rundles C, Elcombe SE, Fischer A, **Grimbacher B**, Gupta S, Herriot R, Herwadkar A, Imai K, Inoue S, Kirkpatrick C, Knutsen AP, Kumararatne D, Lea E, Lin MW, Litzman J, Mahlaoui N, Moriya K, Nonoyama S, Patel S, Perez E, Quinti I, Hostoffer RW, Rothenfusser S, Sargur R, Shields A, Sogkas G, Suan D, Tan T, Thomas M, Warnatz K, Younger EM, Kuo CY.
Clinical and Molecular Characteristics of X-Linked Agammaglobulinemia Patients 55 Years or Older.

PEER-REVIEWED ARTICLES (10)

J Allergy Clin Immunol Pract. 2025 Jun 24:S2213-2198(25)00606-3. **Impact Factor: 8.200**

176. Kindle G, Alligon M, Albert MH, Buckland M, Edgar JD, Gathmann B, Ghosh S, Gkantaras A, Nieters A, Pignata C, Robinson P, Rusch S, Schuetz C, Sharapova S, Shillitoe B, Candotti F, Cant AJ, Casanova JL, Etzioni A, Fischer A, Meyts I, Notarangelo LD, Pergent M, Smith CIE; ESID Registry Working Party; Hammarström L, **Grimbacher B**, Seppänen M, Mahlaoui N, Ehl S, Seidel MG.
Inborn errors of immunity: manifestation, treatment, and outcome - an ESID registry 1994-2024 report on 30,628 patients.
medRxiv [Preprint]. 2025 Apr 16:2025.02.20.25322586. **Impact Factor: 0.000**

175. Sindram E, Deau MC, Ligeon LA, Sanchez-Martin P, Nestel S, Jung S, Ruf S, Mishra P, Proietti M, Günther S, Thedieck K, Roussa E, Rambold A, Münz C, Kraft C, **Grimbacher B**, Gámez-Díaz L.
LRBA deficiency impairs autophagy and contributes to enhanced antigen presentation and T-cell dysregulation.
EMBO Rep. 2025 Aug;26(16):4040-4071. **Impact Factor: 6.200**

174. Campos LC, Henríquez CA, Meligonis G, Tadros S, Lowe DM, **Grimbacher B**, Burns SO, Orteu CH.
Skin Manifestations in Adults With Chronic Granulomatous Disease in the United Kingdom.
J Allergy Clin Immunol Pract. 2025 Aug;13(8):2151-2161.e7. **Impact Factor: 8.200**

173. Zähringer A, Morgado I, Erny D, Ingelfinger F, Gawron J, Chatterjee S, Wenger V, Schmidt D, Schwöbel LF, Adams RC, Langenbach M, Hartmann A, Osswald N, Wolf J, Schlunck G, Briquez PS, Grueter K, Ruess DA, Frew I, Burk AC, Holzmüller V, **Grimbacher B**, Michonneau D, Andrieux G, Socié G, Kolter J, Börries M, Follo M, Blaeschke F, Sevenich L, Prinz M, Zeiser R, Vinnakota JM.
AhR activation mitigates graft-versus-host disease of the central nervous system by reducing microglial NF-κB signaling.
Blood Adv. 2025 Mar 31:bloodadvances.2024015000. **Impact Factor: 7.600**

172. Lentini L, Perriera R, Corrao F, Melfi R, Tutone M, Carollo PS, Fiduccia I, Pace A, Ricci D, Genovese F, Colige A, Delvenne P, **Grimbacher B**, Moutschen M, Pibiri I.
A precision medicine approach to primary immunodeficiency disease: Ataluren strikes nonsense mutations once again.
Mol Ther. 2025 Mar 28:S1525-0016(25)00220-5. **Impact Factor: 12.100**

171. Bez P, Smits B, Geier C, Hirsch A, Caballero de Oyteza A, Proietti M, **Grimbacher B**, Wolkewitz M, Goldacker S, Warnatz K.
Uncovering Risk Factors of Premature Mortality in Common Variable Immunodeficiency.
J Allergy Clin Immunol Pract. 2025 Mar 14:S2213-2198(25)00256-9. **Impact Factor: 8.200**

170. Leal VNC, Bork F, Mateo Tortola M, von Guilleaume JC, Greve CL, Bugl S, Danker B, Bittner ZA, **Grimbacher B**, Pontillo A, Weber ANR.
Bruton's tyrosine kinase (BTK) and matrix metalloproteinase-9 (MMP-9) regulate NLRP3 inflammasome-dependent cytokine and neutrophil extracellular trap responses in primary neutrophils.
J Allergy Clin Immunol. 2024 Nov 14:S0091-6749(24)01186-2. Online ahead of print. **Impact Factor: 14.290**

169. Meissner J, Fliegauf M, **Grimbacher B**, Klemann C.
Type-Specific Impacts of Protein Defects in Pathogenic NFKB2 Variants: Novel Clinical Findings From 138 Patients.
J Allergy Clin Immunol Pract. 2025 Jan;13(1):192-201. **Impact Factor: 8.200**

168. Greiner-Tollersrud OK, Krausz M, Boehler V, Polyzou A, Seidl M, Spahiu A, Abdullah Z, Andryka-Cegielski K, Dominick FI, Huebscher K, Goschin A, Smulski CR, Trompouki E, Link R, Ebersbach H, Srinivas H, Marchant M, Sogkas G, Staab D, Vågbø C, Guerini D, Baasch S, Latz E, Hartmann G, Henneke P, Geiger R, Peng XP, **Grimbacher B**, Bartok E, Alseth I, Warncke M, Proietti M.
ADA2 is a lysosomal deoxyadenosine deaminase acting on DNA involved in regulating TLR9-mediated immune sensing of DNA.
Cell Rep. 2024 Nov 26;43(11):114899. **Impact Factor: 7.500**

167. Tsilifis C, Speckmann C, Lum SH, Fox TA, Soler AM, Mozo Y, Corral D, Ewins AM, Hague R, Oikonomopoulou C, Kałwak K, Drabko K, Wynn R, Morris EC, Elcombe S, Bigley V, Lougaris V, Malagola M, Hauck F, Sedlacek P, Laberko A, Tjon JML, Buddingh EP, Wehr C, **Grimbacher B**, Gennery AR, Lankester AC, Albert MH, Neven B, Slatter MA.
Haematopoietic stem cell transplantation for CTLA-4 insufficiency across Europe: an EBMT Inborn Errors Working Party study.
J Allergy Clin Immunol. 2024 Aug 30:S0091-6749(24)00903-5. **Impact Factor: 14.290**

166. Anim M, Sogkas G, Camacho-Ordonez N, Schmidt G, Elsayed A, Proietti M, Witte T, **Grimbacher B**, Atschekzei F. Novel hypermorphic variants in IRF2BP2 identified in patients with common variable immunodeficiency and autoimmunity.
Clin Immunol. 2024 Sep;266:110326. **Impact Factor: 9.100**

165. Zmajkovicova K, Pawar S, Sharapova SO, Geier CB, Wiest I, Nguyen C, Monticelli H, Maier-Munsa S, Chen K, Sleasman JW, Aleshkevich S, Polyakova E, Sakovich I, Warnatz K, **Grimbacher B**, Proietti M, Sondheimer N, Ujhazi B, Gordon S, Ellison M, Yilmaz M, Walter JE, Badarau A, Taveras AG, Neff JL, Bledsoe JR, Tarrant TK.
A novel transmembrane CXCR4 variant that expands the WHIM genotype-phenotype paradigm.
Blood Adv. 2024 Jul 23;8(14):3754-3759. **Impact Factor: 7.400**

164. Khoshnevisan R, Hassanzadeh S, Klein C, Rohlfs M, **Grimbacher B**, Molavi N, Zamanifar A, Khoshnevisan A, Jafari M, Bagherpour B, Behnam M, Najafi S, Sherkat R.

PEER-REVIEWED ARTICLES (11)

B-cells absence in patients diagnosed as inborn errors of immunity: a registry-based study.
Immunogenetics. 2024 Jun;76(3):189-202. **Impact Factor: 2.621**

163. Fischer AAM, Robertson HB, Kong D, Grimm MM, Grether J, Groth J, Baltes C, Fliegauf M, Lautenschläger F, **Grimbacher B**, Ye H, Helms V, Weber W.
Engineering Material Properties of Transcription Factor Condensates to Control Gene Expression in Mammalian Cells and Mice.
Small. 2024 Apr 4:e2311834. doi: 10.1002/smll.202311834. Online ahead of print. **Impact Factor: 13.300**

162. Czech M, Schneider S, Peltokangas N, El Khawanky N, Ghimire S, Andrieux G, Hülsdünker J, Krausz M, Proietti M, Braun LM, Rückert T, Langenbach M, Schmidt D, Martin I, Wenger V, de Vega E, Haring E, Pourjam M, Pfeifer D, Schmitt-Graeff A, **Grimbacher B**, Aumann K, Kircher B, Tilg H, Raffatellu M, Thiele Orberg E, Häcker G, Duyster J, Köhler N, Holler E, Nachbaur D, Boerries M, Gerner RR, Grün D, Zeiser R.
Lipocalin-2 expression identifies an intestinal regulatory neutrophil population during acute graft-versus-host disease.
Sci Transl Med. 2024 Feb 21;16(735):eadi1501. **Impact Factor: 17.100**

161. Caballero-Oteyza A, Crisponi L, Peng XP, Yauy K, Volpi S, Giardino S, Freeman AF, **Grimbacher B**, Proietti M.
GenIA, the Genetic Immunology Advisor database for inborn errors of immunity.
J Allergy Clin Immunol. 2023 Nov 30:S0091-6749(23)01513-0. **Impact Factor: 14.290**

160. Rensing-Ehl A, Lorenz MR, Führer M, Willenbacher W, Willenbacher E, Sopper S, Abinun M, Maccari ME, König C, Haegele P, Fuchs S, Castro C, Kury P, Pelle O, Klemann C, Heeg M, Thalhammer J, Wegehaupt O, Fischer M, Goldacker S, Schulte B, Biskup S, Chatelain P, Schuster V, Warnatz K, **Grimbacher B**, Meinhardt A, Holzinger D, Oommen PT, Hinze T, Hebart H, Seeger K, Lehmberg K, Leahy TR, Claviez A, Vieth S, Schilling FH, Fuchs I, Groß M, Rieux-Laucat F, Magerus A, Speckmann C, Schwarz K, Ehl S; ALPS Study Group.
Abnormal biomarkers predict complex FAS or FADD defects missed by exome sequencing.
J Allergy Clin Immunol. 2024 Jan;153(1):297-308.e12. **Impact Factor: 14.290**

159. Stapornwongkul C, Nieters A, Staus P, Rusch S, Delor A, Baumann U, Wehrle J, Boerries M, Seidel MG, **Grimbacher B**, Kindle G.
Research on Rare Diseases in Germany - The GAIN Registry: a registry for individuals with congenital multi-organ autoimmune diseases.
J Health Monit. 2023 Dec 13;8(4):24-30. **Impact Factor: 0.000**

158. Le Voyer T, Parent AV, Liu X, Cederholm A, Gervais A, Rosain J, Nguyen T, Perez Lorenzo M, Rackaityte E, Rinchai D, Zhang P, Bizien L, Hancioglu G, Ghillani-Dalbin P, Charuel JL, Philippot Q, Gueye MS, Maglorius Renkilaraj MRL, Ogishi M, Soudée C, Migaud M, Rozenberg F, Momenilandi M, Riller Q, Imberti L, Delmonte OM, Müller G, Keller B, Orrego J, Franco Gallego WA, Rubin T, Emiroglu M, Parvaneh N, Eriksson D, Aranda-Guillen M, Berrios DI, Vong L, Katelaris CH, Mustillo P, Raedler J, Bohlen J, Bengi Celik J, Astudillo C, Winter S; NF-κB Consortium; COVID Human Genetic Effort; McLean C, Guffroy A, DeRisi JL, Yu D, Miller C, Feng Y, Guichard A, Béziat V, Bustamante J, Pan-Hammarström Q, Zhang Y, Rosen LB, Holland SM, Bosticardo M, Kenney H, Castagnoli R, Slade CA, Boztuğ K, Mahlaoui N, Latour S, Abraham RS, Lougaris V, Hauck F, Sediva A, Atschekzei F, Sogkas G, Poli MC, Slatter MA, Palterer B, Keller MD, Pinzon-Charry A, Sullivan A, Droney L, Suan D, Wong M, Kane A, Hu H, Ma C, Grombiříková H, Ciznar P, Dalal I, Aladjidi N, Hie M, Lazaro E, Franco J, Keles S, Malphettes M, Pasquet M, Maccari ME, Meinhardt A, Ikinciogullari A, Shahrooei M, Celmeli F, Frosk P, Goodnow CC, Gray PE, Belot A, Kuehn HS, Rosenzweig SD, Miyara M, Licciardi F, Servettaz A, Barlogis V, Le Guenno G, Herrmann VM, Kuijpers T, Ducoux G, Sarrot-Reynauld F, Schuetz C, Cunningham-Rundles C, Rieux-Laucat F, Tangye SG, Sobacchi C, Doffinger R, Warnatz K, **Grimbacher B**, Fieschi C, Berteloot L, Bryant VL, Trouillet Assant S, Su H, Neven B, Abel L, Zhang Q, Boisson B, Cobat A, Jouanguy E, Kampe O, Bastard P, Roifman CM, Landegren N, Notarangelo LD, Anderson MS, Casanova JL, Puel A
Autoantibodies against type I IFNs in humans with alternative NF-κB pathway deficiency.
Nature. 2023 Nov;623(7988):803-813. **Impact Factor: 64.800**

157. Pellé O, Moreno S, Lorenz MR, Riller Q, Fuehrer M, Stolzenberg MC, Maccari ME, Lenoir C, Cheminant M, Hinze T, Hebart HF, König C, Schvartz A, Schmitt Y, Vinit A, Henry E, Touzart A, Villarese P, Isnard P, Neveux N, Landman-Parker J, Picard C, Fouyssac F, Neven B, **Grimbacher B**, Speckmann C, Fischer A, Latour S, Schwarz K, Ehl S, Rieux-Laucat F, Rensing-Ehl A, Magérus A.
Combined germline and somatic Human FADD mutations cause autoimmune lymphoproliferative syndrome.
J Allergy Clin Immunol. 2023 Oct 2:S0091-6749(23)01209-5. Online ahead of print. **Impact Factor: 14.290**

156. Arruda LK, Cordeiro DL, Langer SS, Koenigham-Santos M, Calado RT, Dias MM, Anhesini LR, Oliveira JB, **Grimbacher B**, Ferriani MPL.
Efficacy of dupilumab for the treatment of severe skin disease in cytotoxic T lymphocyte antigen-4 insufficiency: A role of type 2 inflammation?
J Allergy Clin Immunol Glob. 2022 Sep 22;2(1):114-117. eCollection 2023 Feb. **No Impact Factor**

155. Alizadeh Z, Fazlollahi MR, Mazinani M, Badalzadeh M, Heydarlou H, Carapito R, Molitor A, de Oteyza ACG, Proietti M, Bavani MS, Shariat M, Fallahpour M, Movahedi M, Moradi L, **Grimbacher B**, Bahram S, Pourpak Z.
Clinical, immunological and molecular findings of 8 patients with typical and atypical severe combined immunodeficiency: identification of 7 novel mutations by whole exome sequencing.
Genes Immun. 2023 Aug;24(4):207-214. Epub 2023 Jul 29. **Impact Factor: 4.248**

154. Ochoa S, Abers MS, Rosen LB, Rump A, Howe K, Lieberman JA, Wright BL, Suez D, Krausz M, **Grimbacher B**, Lionakis MS, Uzel G.
Management and outcome of COVID-19 in CTLA-4 insufficiency.
Blood Adv. 2023 Oct 10;7(19):5743-5751. **Impact Factor: 7.642**

PEER-REVIEWED ARTICLES (12)

153. Maccari ME, Wolkewitz M, Schwab C, Lorenzini T, Leiding JW, Aladjdi N, Abolhassani H, Abou-Chahla W, Aiuti A, Azarnoush S, Baris S, Barlogis V, Barzaghi F, Baumann U, Bloomfield M, Bohynikova N, Bodet D, Boutboul D, Bucciol G, Buckland MS, Burns SO, Cancrini C, Cathébras P, Cavazzana M, Cheminant M, Chinello M, Ciznar P, Coulter TI, D'Aveni M, Ekwall O, Eric Z, Eren E, Fasth A, Frange P, Fournier B, Garcia-Prat M, Gardembas M, Geier C, Ghosh S, Goda V, Hammarström L, Hauck F, Heeg M, Heropolitanska-Pliszka E, Hilfanova A, Jolles S, Karakoc-Aydiner E, Kindle GR, Kiykim A, Klemann C, Koletsi P, Koltan S, Kondratenko I, Körholz J, Krüger R, Jeziorski E, Levy R, Le Guenno G, Lefevre G, Lougaris V, Marzollo A, Mahlaoui N, Malphettes M, Meinhardt A, Merlin E, Meyts I, Milota T, Moreira F, Moshous D, Mukhina A, Neth O, Neubert J, Neven B, Nieters A, Nove-Josserand R, Oksenhendler E, Ozen A, Olbrich P, Perlat A, Pac M, Schmid JP, Pacillo L, Parra-Martinez A, Paschenko O, Pellier I, Sefer AP, Plebani A, Plantaz D, Prader S, Raffray L, Ritterbusch H, Riviere JG, Rivalta B, Rusch S, Sakovich I, Savic S, Scheible R, Schleinitz N, Schuetz C, Schulz A, Sediva A, Semeraro M, Sharapova SO, Shcherbina A, Slatter MA, Sogkas G, Soler-Palacin P, Speckmann C, Stephan JL, Suarez F, Tommasini A, Trück J, Uhlmann A, van Aerde KJ, van Montfrans J, von Bernuth H, Warnatz K, Williams T, Worth AJJ, Ip W, Picard C, Catherinot E, Nademi Z, **Grimbacher B**, Forbes Satter LR, Kracker S, Chandra A, Condliffe AM, Ehl S, European Society for Immunodeficiencies Registry Working Party
Activated phosphoinositide 3-kinase δ syndrome: Update from the ESID Registry and comparison with other autoimmune-lymphoproliferative inborn errors of immunity.
J Allergy Clin Immunol. 2023 Jun 28:S0091-6749(23)00812-6. Online ahead of print. **Impact Factor: 14.290**

152. Sindram E, Caballero-Oteyza A, Kogata N, Chor Mei Huang S, Alizadeh Z, Gámez-Díaz L, Fazlollhi MR, Peng X, **Grimbacher B**, Way M, Proietti M.
ARPC5 deficiency leads to severe early-onset systemic inflammation and mortality.
Dis Model Mech. 2023 Jul 1;16(7):dmm050145. Epub 2023 Jul 20. **Impact Factor: 4.300**

151. Minskaia E, Maimaris J, Jenkins P, Albuquerque AS, Hong Y, Eleftheriou D, Gilmour KC, Grace R, Moreira F, **Grimbacher B**; NIHR Bioresource-Rare Diseases Consortium; Morris EC, Burns SO.
Autosomal Dominant STAT6 Gain of Function Causes Severe Atopy Associated with Lymphoma.
J Clin Immunol. 2023 Oct;43(7):1611-1622. Epub 2023 Jun 14. **Impact Factor: 8.137**

150. Smits B, Goldacker S, Seneviratne S, Malphettes M, Longhurst H, Mohamed OE, Witt-Rautenberg C, Leeman L, Schwaneck E, Raymond I, Meghit K, Uhlmann A, Winterhalter C, van Montfrans J, Klima M, Workman S, Fieschi C, Lorenza L, Boyle S, Onyango-Odera S, Price S, Schmalzing M, Aurillac V, Prasse A, Hartmann I, Meerburg JJ, Kemner-van de Corput M, Tiddens H, **Grimbacher B**, Kelleher P, Patel SY, Korganow AS, Viallard JF, Tony HP, Bethune C, Schulze-Koops H, Witte T, Huissoon A, Baxendale H, Grigoriadou S, Oksenhendler E, Burns SO, Warnatz K.
The efficacy and safety of systemic corticosteroids as first line treatment for granulomatous lymphocytic interstitial lung disease.
J Allergy Clin Immunol. 2022 Dec 29:S0091-6749(22)02580-5. Online ahead of print. **Impact Factor: 14.290**

149. König S, Fliegauf M, Rhiel M, **Grimbacher B**, Cornu TI, Cathomen T, Mussolino C.
Allele-Specific Disruption of a Common STAT3 Autosomal Dominant Allele Is Not Sufficient to Restore Downstream Signaling in Patient-Derived T Cells.
Genes (Basel). 2022 Oct 20;13(10):1912. **Impact Factor: 4.141**

148. Strohmeier V, Andrieux G, Unger S, Pascual-Reguant A, Klocperk A, Seidl M, Marques OC, Eckert M, Gräwe K, Shabani M, von Spee-Mayer C, Friedmann D, Harder I, Gutenberger S, Keller B, Proietti M, Bulashevska A, **Grimbacher B**, Provaznik J, Benes V, Goldacker S, Schell C, Hauser AE, Boerries M, Hasselblatt P, Warnatz K.
Interferon-Driven Immune Dysregulation in Common Variable Immunodeficiency-Associated Villous Atrophy and Norovirus Infection.
J Clin Immunol. 2023 Feb;43(2):371-390. Epub 2022 Oct 25. **Impact Factor: 8.137**

147. Leiding JW, Vogel TP, Santarlas VGJ, Mhaskar R, Smith MR, Carisey A, Vargas-Hernández A, Silva-Carmona M, Heeg M, Rensing-Ehl A, Neven B, Hadjadj J, Hambleton S, Ronan Leahy T, Meesilpavikai K, Cunningham-Rundles C, Dutmer CM, Sharapova SO, Taskinen M, Chua I, Hague R, Klemann C, Kostyuchenko L, Morio T, Thatayatikom A, Ozen A, Scherbina A, Bauer CS, Flanagan SE, Gambineri E, Giovannini-Chami L, Heimall J, Sullivan KE, Allenspach E, Romberg N, Deane SG, Prince BT, Rose MJ, Bohnsack J, Mousallem T, Jesudas R, Santos Vilela MMD, O'Sullivan M, Pachlopnik Schmid J, Průhová Š, Klocperk A, Rees M, Su H, Bahna S, Baris S, Bartnikas LM, Chang Berger A, Briggs TA, Brothers S, Bundy V, Chan AY, Chandrakasan S, Christiansen M, Cole T, Cook MC, Desai MM, Fischer U, Fulcher DA, Gallo S, Gauthier A, Gennery AR, Gonçalo Marques J, Gottrand F, **Grimbacher B**, Grunebaum E, Haapaniemi E, Hämäläinen S, Heiskanen K, Heiskanen-Kosma T, Hoffman HM, Gonzalez-Granado LI, Guerrerio AL, Kainulainen L, Kumar A, Lawrence MG, Levin C, Martelius T, Neth O, Olbrich P, Palma A, Patel NC, Pozos T, Preece K, Lugo Reyes SO, Russell MA, Schejter Y, Seroogy C, Sinclair J, Skevofilax E, Suan D, Suegeorgz D, Szabolcs P, Velasco H, Warnatz K, Walkovich K, Worth A; STAT3 GOF Working Group members; Seppänen MRJ, Torgerson TR, Sogkas G, Ehl S, Tangye SG, Cooper MA, Milner JD, Forbes Satter LR.
Monogenic early-onset lymphoproliferation and autoimmunity: Natural history of STAT3 gain-of-function syndrome.
J Allergy Clin Immunol. 2022 Oct 11:S0091-6749(22)01182-4. Online ahead of print. **Impact Factor: 14.290**

146. Saghafi S, Zandieh F, Fazlollahi MR, Glocker C, Frede N, Buchta M, Yang L, Mahmoudi AH, Houshmand M, Pourpak Z, **Grimbacher B**, Moin M.
Confirmation of Hyperimmunoglobulin E Syndrome in Two Patients with an Ocular Problem: Detection of Two New DOCK8 Mutations.
Iran J Allergy Asthma Immunol. 2022 Jun 18;21(3):355-363. **Impact Factor: 1.570**

145. Sevdali E, Block V, Lataretu M, Li H, Smulski CR, Briem JS, Heitz Y, Fischer B, Ramirez NJ, **Grimbacher B**, Jäck HM, Voll RE, Hölzer M, Schneider P, Eibel H.
BAFFR activates PI3K/AKT signaling in human naive but not in switched memory B cells through direct interactions with B cell antigen receptors.

PEER-REVIEWED ARTICLES (13)

Cell Rep. 2022 Jun 28;39(13):111019. **Impact Factor: 9.995**

144. Trauth J, Discher T, Fritzenwanker M, Imirzalioglu C, Arnold T, Steiner D, Richter E, Crisponi L, **Grimbacher B**, Herold S.
Hodgkin Lymphoma after Disseminated Mycobacterium genavense Infection, Germany.
Emerg Infect Dis. 2022 Jul;28(7):1506-1509. **Impact Factor: 16.126**

143. Ye X, Maglione PJ, Wehr C, Li X, Wang Y, Abolhassani H, Deripapa E, Liu D, Borte S, Du L, Wan H, Plötner A, Giannoula Y, Ko HB, Hou Y, Zhu S, Grossman JK, Sander B, **Grimbacher B**, Hammarström L, Fedorova A, Rosenzweig SD, Shcherbina A, Wu K, Warnatz K, Cunningham-Rundles C, Pan-Hammarström Q.
Genomic characterization of lymphomas in patients with inborn errors of immunity.
Blood Adv. 2022 Sep 27;6(18):5403-5414. **Impact Factor: 25.669**

142. Wan R, Schieck M, Caballero-Oteyza A, Hofmann W, Cochino AV, Shcherbina A, Sherkat R, Wache-Mainier C, Fernandez A, Sultan M, Illig T, **Grimbacher B,** Proietti M, Steinemann D.
Copy Number Analysis in a Large Cohort Suggestive of Inborn Errors of Immunity Indicates a Wide Spectrum of Relevant Chromosomal Losses and Gains.
J Clin Immunol. 2022 Jul;42(5):1083-1092. Epub 2022 Apr 29. **Impact Factor: 8.137**

141. Harder I, Münchhalfen M, Andrieux G, Boerries M, **Grimbacher B**, Eibel H, Maccari ME, Ehl S, Wienands J, Jellusova J, Warnatz K, Keller B.
Dysregulated PI3K Signaling in B Cells of CVID Patients.
Cells. 2022 Jan 28;11(3):464. **Impact Factor: 7.666**

140. Volk T, Warnatz K, Marks R, Urbach H, Schluh G, Strohmeier V, Rojas-Restrepo J, **Grimbacher B**, Rauer S.
Pembrolizumab for treatment of progressive multifocal leukoencephalopathy in primary immunodeficiency and/or hematologic malignancy: a case series of five patients.
J Neurol. 2022 Feb;269(2):973-981. Epub 2021 Jul 1. **Impact Factor: 4.886**

139. James AE, West L, Schloss K, Nataraj P, Urban A, Hirsch A, Krausz M, Kumar S, Raasch J, Risma K, Church JA, **Grimbacher B**, Bergerson JRE, Chong H, Freeman AF.
Treatment of STAT3 Deficient Hyper IgE Syndrome with Monoclonal Antibodies Targeting Allergic Inflammation.
J Allergy Clin Immunol Pract. 2022 Jan 24 Online ahead of print. **Impact Factor: 8.861**

138. Sperlich JM, **Grimbacher B**, Soetedjo V, Workman S, Burns SO, Lowe DM, Hurst JR.
Predictive Factors for and Complications of Bronchiectasis in Common Variable Immunodeficiency Disorders.
J Clin Immunol. 2022 Jan 11. Online ahead of print. **Impact Factor: 6.374**

137. Hargreaves CE, Dhalla F, Patel AM, de Oteyza ACG, Bateman E, Miller J, Anzilotti C, Ayers L, **Grimbacher B**, Patel SY.
Resolving the polygenic aetiology of a late onset combined immune deficiency caused by NFKB1 haploinsufficiency and modified by PIK3R1 and TNFRSF13B variants.
Clin Immunol. 2022 Jan;234:108910. **Impact Factor: 3.969**

136. Yang L, Booth C, Speckmann C, Seidel MG, Worth AJ, Kindle G, Lankester AC, **Grimbacher B**; ESID Clinical and Registry Working Parties, Gennery AR, Seppanen MR, Morris EC, Burns SO.
Phenotype, genotype, treatment, and survival outcomes in patients with X-linked inhibitor of apoptosis deficiency.
J Allergy Clin Immunol. 2021 Dec 14:S0091-6749(21)02597-5. Online ahead of print. **Impact Factor: 10.793**

135. Bittner ZA, Liu X, Mateo Tortola M, Tapia-Abellán A, Shankar S, Andreeva L, Mangan M, Spalinger M, Kalbacher H, Düwell P, Lovotti M, Bosch K, Dickhöfer S, Marcu A, Stevanović S, Herster F, Cardona Gloria Y, Chang TH, Bork F, Greve CL,Löffler MW,Wolz OO, Schilling NA,Kümmerle-Deschner JB,Wagner S, Delor A, **Grimbacher B**, Hantschel O, Scharl M, Wu H, Latz E, Weber ANR.
BTK operates a phospho-tyrosine switch to regulate NLRP3 inflammasome activity.
J Exp Med. 2021 Nov 1;218(11):e20201656. **Impact Factor: 14.307**

134. Zielen S, Duecker RP, Woelke S, Donath H, Bakhtiar S, Buecker A, Kreyenberg H, Huenecke S, Bader P, Mahlaoui N, Ehl S, El-Helou SM, Pietrucha B, Plebani A, van der Flier M, van Aerde K, Kilic SS, Reda SM, Kostyuchenko L, McDermott E, Galal N, Pignata C, Pérez JLS, Laws HJ, Niehues T, Kutukculer N, Seidel MG, Marques L, Ciznar P, Edgar JDM, Soler-Palacín P, von Bernuth H, Krueger R, Meyts I, Baumann U, Kanariou M, **Grimbacher B**, Hauck F, Graf D, Granado LIG, Prader S, Reisli I, Slatter M, Rodríguez-Gallego C, Arkwright PD, Bethune C, Deripapa E, Sharapova SO, Lehmberg K, Davies EG, Schuetz C, Kindle G, Schubert R.
Simple Measurement of IgA Predicts Immunity and Mortality in Ataxia-Telangiectasia.
J Clin Immunol. 2021 Nov;41(8):1878-1892. **Impact Factor: 6.780**

133. Li J, Lei WT, Zhang P, Rapaport F, Seeleuthner Y, Lyu B, Asano T, Rosain J, Hammadi B, Zhang Y, Pelham SJ, Spaan AN, Migaud M, Hum D, Bigio B, Chrabieh M, Béziat V, Bustamante J, Zhang SY, Jouanguy E, Boisson-Dupuis S, El Baghdadi J, Aimanianda V, Thoma K, Fliegauf M, **Grimbacher B**, Korganow AS, Saunders C, Rao VK, Uzel G, Freeman AF, Holland SM, Su HC, Cunningham-Rundles C, Fieschi C, Abel L, Puel A, Cobat A, Casanova JL, Zhang Q, Boisson B.
Biochemically deleterious human NFKB1 variants underlie an autosomal dominant form of common variable immunodeficiency.
J Exp Med. 2021 Nov 1;218(11):e20210566. Epub 2021 Sep 2. **Impact Factor: 11.743**

132. Thalhammer J, Kindle G, Nieters A, Rusch S, Seppänen MRJ, Fischer A, **Grimbacher B**, Edgar D, Buckland M, Mahlaoui N, Ehl S; European Society for Immunodeficiencies Registry Working Party.
Initial presenting manifestations in 16,486 patients with inborn errors of immunity include infections and noninfectious

manifestations.
J Allergy Clin Immunol. 2021 Nov;148(5):1332-1341.e5. **Impact Factor: 10.793**

131. Keller B, Strohmeier V, Harder I, Unger S, Payne KJ, Andrieux G, Boerries M, Felixberger PT, Landry JJM, Nieters A, Rensing-Ehl A, Salzer U, Frede N, Usadel S, Elling R, Speckmann C, Hainmann I, Ralph E, Gilmour K, Wentink MWJ, van der Burg M, Kuehn HS, Rosenzweig SD, Kölsch U, von Bernuth H, Kaiser-Labusch P, Gothe F, Hambleton S, Vlagea AD, Garcia Garcia A, Alsina L, Markelj G, Avcin T, Vasconcelos J, Guedes M, Ding JY, Ku CL, Shadur B, Avery DT, Venhoff N, Thiel J, Becker H, Erazo-Borrás L, Trujillo-Vargas CM, Franco JL, Fieschi C, Okada S, Gray PE, Uzel G, Casanova JL, Fliegauf M, **Grimbacher B**, Eibel H, Ehl S, Voll RE, Rizzi M, Stepensky P, Benes V, Ma CS, Bossen C, Tangye SG, Warnatz K.
The expansion of human T-bet(high)CD21(low) B cells is T cell dependent.
Sci Immunol. 2021 Oct 15;6(64):eabh0891. **Impact Factor: 17.727**

130. Sogkas G, Dubrowinskaja N, Schütz K, Steinbrück L, Götting J, Schwerk N, Baumann U, **Grimbacher B**, Witte T, Schmidt RE, Atschekzei F.
Diagnostic Yield and Therapeutic Consequences of Targeted Next-Generation Sequencing in Sporadic Primary Immunodeficiency.
Int Arch Allergy Immunol. 2021 Oct 7:1-13. Online ahead of print. **Impact Factor: 2.749**

129. Haring E, Andrieux G, Uhl FM, Krausz M, Proietti M, Sauer B, Esser PR, Martin SF, Pfeifer D, Schmitt-Graeff A, Duyster J, Köhler N, **Grimbacher B**, Boerries M, Aumann K, Zeiser R, Apostolova P.
Therapeutic targeting of endoplasmic reticulum stress in acute graft-versus-host disease.
Haematologica. 2021 Aug 19. Online ahead of print. **Impact Factor: 7.116**

128. Haring E, Uhl FM, Andrieux G, Proietti M, Bulashevska A, Sauer B, Braun LM, de Vega Gomez E, Esser PR, Martin SF, Pfeifer D, Follo M, Schmitt-Graeff A, Buescher J, Duyster J, **Grimbacher B**, Boerries M, Pearce EL, Zeiser R, Apostolova P.
Bile acids regulate intestinal antigen presentation and reduce graft-versus-host disease without impairing the graft-versus-leukemia effect.
Haematologica. 2021 Aug 1;106(8):2131-2146. **Impact Factor: 7.116**

127. Wehr C, Houet L, Unger S, Kindle G, Goldacker S, **Grimbacher B**, Caballero Garcia de Oteyza A, Marks R, Pfeifer D, Nieters A, Proietti M, Warnatz K, Schmitt-Graeff A.
Altered Spectrum of Lymphoid Neoplasms in a Single-Center Cohort of Common Variable Immunodeficiency with Immune Dysregulation.
J Clin Immunol. 2021 Aug;41(6):1250-1265. **Impact Factor: 6.780**

126. Lehmkuhl P, Gentz M, Garcia de Otezya AC, **Grimbacher B**, Schulze-Koops H, Skapenko A.
Dysregulated immunity in PID patients with low GARP expression on Tregs due to mutations in LRRC32.
Cell Mol Immunol. 2021 Jul;18(7):1677-1691. **Impact Factor: 2.500**

125. Harrison SC, Tsilifis C, Slatter MA, Nademi Z, Worth A, Veys P, Ponsford MJ, Jolles S, Al-Herz W, Flood T, Cant AJ, Doffinger R, Barcenas-Morales G, Carpenter B, Hough R, Haraldsson Á, Heimall J, **Grimbacher B**, Abinun M, Gennery AR.
Hematopoietic Stem Cell Transplantation Resolves the Immune Deficit Associated with STAT3-Dominant-Negative Hyper-IgE Syndrome.
J Clin Immunol. 2021 Jul;41(5):934-943. Epub 2021 Feb 1. **Impact Factor: 6.780**

124. Català-Moll F, Ferreté-Bonastre AG, Li T, Weichenhan D, Lutsik P, Ciudad L, Álvarez-Prado ÁF, Rodríguez-Ubreva J, Klemann C, Speckmann C, Vilas-Zornoza A, Abolhassani H, Martínez-Gallo M, Dieli-Crimi R, Rivière JG, Martín-Nalda A, Colobran R, Soler-Palacín P, Kracker S, Hammarström L, Prosper F, Durandy A, **Grimbacher B**, Plass C, Ballestar E.
Activation-induced deaminase is critical for the establishment of DNA methylation patterns prior to the germinal center reaction.
Nucleic Acids Res. 2021 May 21;49(9):5057-5073. **Impact Factor: 16.971**

123. Thalhammer J, Kindle G, Nieters A, Rusch S, Seppänen MRJ, Fischer A, **Grimbacher B**, Edgar D, Buckland M, Mahlaoui N, Ehl S; European Society for Immunodeficiencies Registry Working Party.
Initial presenting manifestations in 16,486 patients with inborn errors of immunity include infections and noninfectious manifestations.
J Allergy Clin Immunol. 2021 Apr 23:S0091-6749(21)00654-0. **Impact Factor: 10.793**

122**.** Lin Wang, Dominik Aschenbrenner, Zhiyang Zeng, Xiya Cao, Daniel Mayr, Meera Mehta, Melania Capitani, Neil Warner, Jie Pan, Liren Wang, Qi Li, Tao Zuo, Sarit Cohen-Kedar, Jiawei Lu, Rico Chandra Ardy, Daniel J Mulder, Dilan Dissanayake, Kaiyue Peng, Zhiheng Huang, Xiaoqin Li, Yuesheng Wang, Xiaobing Wang, Shuchao Li, Samuel Bullers, Anís N Gammage, Klaus Warnatz, Ana-Iris Schiefer, Gergely Krivan, Vera Goda, Walter H A Kahr, Mathieu Lemaire, Chien-Yi Lu, Iram Siddiqui, Michael G Surette, Daniel Kotlarz, Karin R Engelhardt, Helen R Griffin, Robert Rottapel, Hélène Decaluwe, Ronald M Laxer, Michele Proietti, Sophie Hambleton, Suzanne Elcombe, Cong-Hui Guo, **Bodo Grimbacher**, Iris Dotan, Siew C Ng, Spencer A Freeman, Scott B Snapper, Christoph Klein, Kaan Boztug, Ying Huang, Dali Li, Holm H Uhlig, Aleixo M Muise
Gain-of-function variants in SYK cause immune dysregulation and systemic inflammation in humans and mice
Nat Genet. 2021 Apr. **Impact Factor: 27.603**

121. Stephanie C Harrison, Christo Tsilifis, Mary A Slatter, Zohreh Nademi, Austen Worth, Paul Veys, Mark J Ponsford, Stephen Jolles, Waleed Al-Herz, Terence Flood, Andrew J Cant, Rainer Doffinger, Gabriela Barcenas-Morales, Ben Carpenter, Rachael Hough, Ásgeir Haraldsson, Jennifer Heimall, **Bodo Grimbacher**, Mario Abinun, Andrew R Gennery

PEER-REVIEWED ARTICLES (15)

Hematopoietic Stem Cell Transplantation Resolves the Immune Deficit Associated with STAT3-Dominant-Negative Hyper-IgE Syndrome
J Clin Immunol. 2021 Feb 1**.** **Impact Factor: 4.128**

120. Maria Elena Maccari , Sebastian Fuchs, Patrick Kury, Geoffroy Andrieux, Simon Völkl, Bertram Bengsch, Myriam Ricarda Lorenz, Maximilian Heeg, Jan Rohr , Sabine Jägle, Carla N Castro , Miriam Groß, Ursula Warthorst, Christoph König , Ilka Fuchs, Carsten Speckmann , Julian Thalhammer, Friedrich G Kapp, Markus G Seidel Gregor Dückers, Stefan Schönberger, Catharina Schütz , Marita Führer , Robin Kobbe, Dirk Holzinger, Christian Klemann , Petr Smisek , Stephen Owens, Gerd Horneff , Reinhard Kolb, Nora Naumann-Bartsch, Maurizio Miano, Julian Staniek , Marta Rizzi , Tomas Kalina , Pascal Schneider, Anika Erxleben, Rolf Backofen, Arif Ekici, Charlotte M Niemeyer, Klaus Warnatz, **Bodo Grimbacher** , Hermann Eibel, Andreas Mackensen, Andreas Philipp Frei, Klaus Schwarz, Melanie Boerries , Stephan Ehl, Anne Rensing-Ehl
A distinct CD38+CD45RA+ population of CD4+, CD8+, and double-negative T cells is controlled by FAS
J Exp Med 2021 Feb 1. **Impact Factor: 11.743**

119. Raphael Scheible, Dennis Kadioglu, Stephan Ehl, Marco Blum, Martin Boeker, Michael Folz**, Bodo Grimbacher**, Jens Göbel, Christoph Klein, Alexandra Nieters, Stephan Rusch, Gerhard Kindle, Holger Storf
Enabling External Inquiries to an Existing Patient Registry by Using the Open Source Registry System for Rare Diseases: Demonstration of the System Using the European Society for Immunodeficiencies Registry
JMIR Med Inform 2020 Oct 7. **Impact Factor: 2.58**

118. Johana Norona, Petya Apostolova, Dominik Schmidt, Rebekka Ihlemann, Nadine Reischmann, Gregory Taylor, Natalie Köhler, Jocelyn de Heer, Steffen Heeg, Geoffroy Andrieux, Benjamin A Siranosian, Annette Schmitt-Graeff, Dietmar Pfeifer, Antonella Catalano, Ian J Frew , Michele Proietti, **Bodo Grimbacher**, Alla Bulashevska, Ami S Bhatt , Tilman Brummer, Till Clauditz, Tatjana Zabelina, Nicolaus Kroeger, Bruce R Blazar, Melanie Boerries, Francis Ayuk, Robert Zeiser
Glucagon-like peptide 2 for intestinal stem cell and Paneth cell repair during graft-versus-host disease in mice and humans
Blood 2020 Sep 17. **Impact Factor: 17.543**

117. Wolf T, Jin W, Zoppi G, Vogel IA, Akhmedov M, Bleck CKE, Beltraminelli T, Rieckmann JC, Ramirez NJ, Benevento M, Notarbartolo S, Bumann D, Meissner F, **Grimbacher B**, Mann M, Lanzavecchia A, Sallusto F, Kwee I, Geiger R.
Dynamics in protein translation sustaining T cell preparedness
Nat Immunol. 2020 Aug;21(8):927-937. **Impact Factor: 23.530**

116. Safa Meshaal, Rabab El Hawary, Rana Adel, Dalia Abd Elaziz, Aya Erfan, Sohilla Lotfy, Mona Hafez, Mona Hassan, Matthew Johnson, Jessica Rojas-Restrepo, Laura Gamez-Diaz, **Bodo Grimbacher**, Walaa Shoman, Yasmine Abdelmeguid, Jeannette Boutros, Nermeen Galal, Nancy El-Guindy, Aisha Elmarsafy
Clinical Phenotypes and Immunological Characteristics of 18 Egyptian LRBA Deficiency Patients
J Clin Immunol. 2020 Aug;40(6):820-832. **Impact Factor: 4.128**

115. Sonu Shai, Ruy Perez-Becker, Oliver Andres, Shahrzad Bakhtiar, Ulrich Bauman, Horst von Bernuth, Carl-Friedrich Classen, Gregor Dückers, Sabine M El-Helou, Andrea Gangfuß, Sujal Ghosh, **Bodo Grimbacher**, Fabian Hauck, Manfred Hoenig, Ralf A Husain, Gerhard Kindle, Florian Kipfmueller, Christian Klemann, Renate Krüger, Elke Lainka, Kai Lehmberg, Florens Lohrmann, Henner Morbach, Nora Naumann-Bartsch, Prasad Thomas Oommen, Ansgar Schulz, Kathrin Seidemann, Carsten Speckmann, Karl-Walter Sykora, Rüdiger von Kries, Tim Niehues
Incidence of SCID in Germany From 2014 to 2015 an ESPED* Survey on Behalf of the API*** Erhebungseinheit Für Seltene Pädiatrische Erkrankungen in Deutschland (German Paediatric Surveillance Unit) ** Arbeitsgemeinschaft Pädiatrische Immunologie
J Clin Immunol. 2020 Jul;40(5):708-717. **Impact Factor: 4.128**

114. Norona J, Apostolova P, Schmidt D, Ihlemann R, Reischmann N, Taylor G, Köhler N, de Heer J, Heeg S, Andrieux G, Siranosian BA, Schmitt-Graeff A, Pfeifer D, Catalano A, Frew I, Proietti M, **Grimbacher B**, Bulashevska A, Bhatt AS, Brummer T, Clauditz TS, Zabelina T, Kroeger N, Blazar BR, Boerries M, Ayuk F, Zeiser R.
Glucagon like peptide-2 for Intestinal stem cell and Paneth cell repair during graft-versus-host disease in mice and humans
Blood 2020 Jun 15. **Impact Factor: 16.562**

113. Béziat V, Tavernier SJ, Chen YH, Ma CS, Materna M, Laurence A, Staal J, Aschenbrenner D, Roels L, Worley L, Claes K, Gartner L, Kohn LA, De Bruyne M, Schmitz-Abe K, Charbonnier LM, Keles S, Nammour J, Vladikine N, Maglorius Renkilaraj MRL, Seeleuthner Y, Migaud M, Rosain J, Jeljeli M, Boisson B, Van Braeckel E, Rosenfeld JA, Dai H, Burrage LC, Murdock DR, Lambrecht BN, Avettand-Fenoel V, Vogel TP; Undiagnosed Diseases Network, Esther CR, Haskologlu S, Dogu F, Ciznar P, Boutboul D, Ouachée-Chardin M, Amourette J, Lebras MN, Gauvain C, Tcherakian C, Ikinciogullari A, Beyaert R, Abel L, Milner JD, **Grimbacher B**, Couderc LJ, Butte MJ, Freeman AF, Catherinot É, Fieschi C, Chatila TA, Tangye SG, Uhlig HH, Haerynck F, Casanova JL, Puel A.
Dominant-negative mutations in human IL6ST underlie hyper-IgE syndrome.
J Exp Med. 2020 Jun 1;217(6) **Impact Factor: 10.892**

112. Frye BC, Rump IC, Uhlmann A, Schubach F, Ihorst G, **Grimbacher B**, Zissel G, Quernheim JM.
Safety and efficacy of abatacept in patients with treatment-resistant SARCoidosis (ABASARC) - protocol for a multi-center, single-arm phase IIa trial.
Contemp Clin Trials Commun. 2020 May 29;19:100575. **Impact Factor: 0.226**

111. Tesch VK, Abolhassani H, Shadur B, Zobel J, Mareika Y, Sharapova S, Karakoc-Aydiner E, Rivière JG, Garcia-Prat M, Moes N, Haerynck F, Gonzales-Granado LI, Santos Pérez JL, Mukhina A, Shcherbina A, Aghamohammadi A,

PEER-REVIEWED ARTICLES (16)

Hammarström L, Dogu F, Haskologlu S, İkincioğulları AI, Bal SK, Baris S, Kilic SS, Karaca NE, Kutukculer N, Girschick H, Kolios A, Keles S, Uygun V, Stepensky P, Worth A, van Montfrans JM, Peters AMJ, Meyts I, Adeli M, Marzollo A, Padem N, Khojah AM, Chavoshzadeh Z, Stefanija MA, Bakhtiar S, Florkin B, Meeths M, Gamez L, **Grimbacher B**, Seppänen MR, Lankester A, Gennery AR, Seidel MG; Inborn Errors, Clinical, and Registry Working Parties of the European Society for Blood and Marrow Transplantation (EBMT) and the European Society of Immunodeficiencies (ESID).
Long-term outcome of LRBA deficiency in 76 patients after various treatment modalities as evaluated by the immune deficiency and dysregulation activity (IDDA) score.
J Allergy Clin Immunol. 2020 May;145(5):1452-1463. **Impact factor: 7.550**

110. Troilo A, Wehr C, Janowska I, Venhoff N, Thiel JD, Rawluk J, Frede N, Staniek J, Lorenzetti R, Schleyer MT, Herget GW, Konstantinidis L, Erlacher M, Proietti M, Camacho-Ordonez N, Voll RE, **Grimbacher B**, Warnatz K, Salzer U, Rizzi M.
Non permissive bone marrow environment impairs early B-cell development in common variable immunodeficiency.
Blood. 2020 Apr 23;135(17):1452-1457. **Impact Factor: 16.562**

109. Cekic S, Hartberger JM, Frey-Jakobs S, Huriyet H, Hortoglu MB, Neubauer JC, Karali Y, Abakay CD, Saraydaroglu O, Cavas T, **Grimbacher B**, Kilic SS.
Cancer Tendency in a Patient with ZNF341 Deficiency.
J Clin Immunol. 2020 Apr;40(3):534-538. **Impact factor: 4.128**

108. van de Ven A, Mader I, Wolff D, Goldacker S, Fuhrer H, Rauer S, **Grimbacher B**, Warnatz K.
Structural Noninfectious Manifestations of the Central Nervous System in Common Variable Immunodeficiency Disorders.
J Allergy Clin Immunol Pract. 2020 Mar;8(3):1047-1062.e6. **Impact factor: 7.550**

107. Schröder C, Sogkas G, Fliegauf M, Dörk T, Liu D, Hanitsch LG, Steiner S, Scheibenbogen C, Jacobs R, **Grimbacher B**, Schmidt RE, Atschekzei F.
Late-Onset Antibody Deficiency Due to Monoallelic Alterations in *NFKB1*.
Front Immunol. 2019 Nov 14;10:2618. **Impact factor: 6.429**

106. Jägle S, Heeg M, Grün S, Rensing-Ehl A, Maccari ME, Klemann C, Jones N, Lehmberg K, Bettoni C, Warnatz K, **Grimbacher B**, Biebl A, Schauer U, Hague R, Neth O, Mauracher A, Pachlopnik Schmid J, Fabre A, Kostyuchenko L, Führer M, Lorenz MR, Schwarz K, Rohr J, Ehl S.
Distinct molecular response patterns of activating STAT3 mutations associate with penetrance of lymphoproliferation and autoimmunity.
Clin Immunol. 2020 Jan;210:108316. **Impact factor: 4.128**

105. Jandus P, Frias Boligan K, Smith DF, de Graauw E, **Grimbacher B**, Jandus C, Abdelhafez MM, Despont A, Bovin N, Simon D, Rieben R, Simon HU, Cummings RD, von Gunten S.
The architecture of the IgG anti-carbohydrate repertoire in primary antibody deficiencies (PADs).
Blood. 2019 Nov 28;134(22):1941-1950. **Impact factor: 15.132**

104. Vandrovcova J, Salzer U, **Grimbacher B**, Wanders J, Rao K, Thrasher A, Burns S, Gilmore K, Bussel J, Cooper N.
FAS mutations are an uncommon cause of immune thrombocytopenia in children and adults without additional features of immunodeficiency.
Br J Haematol. 2019 Jun 6 **Impact factor: 5.128**

103. Freise N, Burghard A, Ortkras T, Daber N, Imam Chasan A, Jauch SL, Fehler O, Hillebrand J, Schakaki M, Rojas J, **Grimbacher B**, Vogl T, Hoffmeier A, Martens S, Roth J, Austermann J.
Signaling mechanisms inducing hypo-responsiveness of phagocytes during systemic inflammation.
Blood. 2019 May 10 **Impact factor: 15.132**

102. von Spee-Mayer C, Koemm V, Wehr C, Goldacker S, Kindle G, Bulashevska A, Proietti M, **Grimbacher B**, Ehl S, Warnatz K.
Evaluating laboratory criteria for combined immunodeficiency in adult patients diagnosed with common variable immunodeficiency.
Clin Immunol. 2019 Apr 17 **Impact factor: 3.557**

101. Seidel MG, Kindle G, Gathmann B, Quinti I, Buckland M, van Montfrans J, Scheible R, Rusch S, Gasteiger LM, **Grimbacher B**, Mahlaoui N, Ehl S; ESID Registry Working Party and collaborators.
The European Society for Immunodeficiencies (ESID) Registry Working Definitions for the Clinical Diagnosis of Inborn Errors of Immunity.
J Allergy Clin Immunol Pract. 2019 Feb 15 **Impact factor: 13.258**

100. Lougaris V, Baronio M, Moratto D, Tampella G, Gazzurelli L, Facchetti M, Martire B, Cardinale F, Lanzarotto F, Bondioni MP, Villanacci V, **Grimbacher B**, Plebani A.
A novel monoallelic gain of function mutation in p110δ causing atypical activated phosphoinositide 3-kinase δ syndrome (APDS-1).
Clin Immunol. 2019 Jan 9 **Impact factor: 3.557**

99. Schütz K, Alecsandru D, **Grimbacher B**, Haddock J, Bruining A, Driessen G, de Vries E, van Hagen PM, Hartmann I, Fraioli F, Milito C, Mitrevski M, Quinti I, Serra G, Kelleher P, Loebinger M, Litzman J, Postranecka V, Thon V, Babar J, Condliffe AM, Exley A, Kumararatne D, Screaton N, Jones A, Bondioni MP, Lougaris V, Plebani A, Soresina A, Sirignano C, Spadaro G, Galal N, Gonzalez-Granado LI, Dettmer S, Stirling R, Chapel H, Lucas M, Patel S, Farber CM, Meyts I, Banerjee AK, Hackett S, Hurst JR, Warnatz K, Gathmann B, Baumann U; Chest CT in

PEER-REVIEWED ARTICLES (17)

Antibody Deficiency Group.
Imaging of Bronchial Pathology in Antibody Deficiency: Data from the European Chest CT Group.
J Clin Immunol. 2018 Dec 13 **Impact factor: 4.227**

98. Odnoletkova I, Kindle G, Quinti I, **Grimbacher B**, Knerr V, Gathmann B, Ehl S, Mahlaoui N, Van Wilder P, Bogaerts K, de Vries E; Plasma Protein Therapeutics Association (PPTA) Taskforce.
The burden of common variable immunodeficiency disorders: a retrospective analysis of the European Society for Immunodeficiency (ESID) registry data.
Orphanet J Rare Dis. 2018 Nov 12 **Impact factor: 3.607**

97. De Bruyne M, Bogaert DJ, Venken K, Van den Bossche L, Bonroy C, Roels L, Tavernier SJ, van de Vijver E, Driessen A, van Gijn M, Gámez-Diaz L, Elewaut D, **Grimbacher B**, Haerynck F, Moes N, Dullaers M.
A novel LPS-responsive beige-like anchor protein (LRBA) mutation presents with normal cytotoxic T lymphocyte-associated protein 4 (CTLA-4) and overactive TH17 immunity.
J Allergy Clin Immunol. 2018 Sep 5 **Impact factor: 13.258**

96. Dorjbal B, Stinson JR, Ma CA, Weinreich MA, Miraghazadeh B, Hartberger JM, Frey-Jakobs S, Weidinger S, Moebus L, Franke A, Schäffer AA, Bulashevska A, Fuchs S, Ehl S, Limaye S, Arkwright PD, Briggs TA, Langley C, Bethune C, Whyte AF, Alachkar H, Nejentsev S, DiMaggio T, Nelson CG, Stone KD, Nason M, Brittain EH, Oler AJ, Veltri DP, Leahy TR, Conlon N, Poli MC, Borzutzky A, Cohen JI, Davis J, Lambert MP, Romberg N, Sullivan KE, Paris K, Freeman AF, Lucas L, Chandrakasan S, Savic S, Hambleton S, Patel SY, Jordan MB, Theos A, Lebensburger J, Atkinson TP, Torgerson TR, Chinn IK, Milner JD, **Grimbacher B**, Cook MC, Snow AL.
Hypomorphic caspase activation and recruitment domain 11 (CARD11) mutations associated with diverse immunologic phenotypes with or without atopic disease.
J Allergy Clin Immunol. 2018 Aug 28 **Impact factor: 13.258**

95. Borzutzky A, Rauter I, Fried A, Rachid R, McDonald DR, Hammarstrom L, **Grimbacher B**, Abraham RS, Geha RS.
Defective TLR9-driven STAT3 activation in B cells of patients with CVID.
Clin Immunol. 2018 Aug 23;197:40-44 **Impact factor: 3.557**

94. Meshaal SS, El Hawary RE, Eldash A, **Grimbacher B**, Camacho-Ordonez N, Abd Elaziz DS, Galal NM, Boutros JA, Shawky SM, Elmarsafy AM.
Diagnosis of DOCK8 deficiency using Flow cytometry Biomarkers: an Egyptian Center experience.
Clin Immunol. 2018 Oct;195:36-44. Epub 2018 Jul 24. **Impact factor: 3.557**

93. Lougaris V, Tabellini G, Baronio M, Patrizi O, Gazzurelli L, Mitsuiki N, Pozzi MR, **Grimbacher B**, Parolini S, Plebani A.
CTLA-4 regulates human Natural Killer cell effector functions.
Clin Immunol. 2018 Sep;194:43-45. Epub 2018 Jun 30. **Impact factor: 3.557**

92. Béziat V, Li J, Lin JX, Ma CS, Li P, Bousfiha A, Pellier I, Zoghi S, Baris S, Keles S, Gray P, Du N, Wang Y, Zerbib Y, Lévy R, Leclercq T, About F, Lim AI, Rao G, Payne K, Pelham SJ, Avery DT, Deenick EK, Pillay B, Chou J, Guery R, Belkadi A, Guérin A, Migaud M, Rattina V, Ailal F, Benhsaien I, Bouaziz M, Habib T, Chaussabel D, Marr N, El-Benna J, **Grimbacher B**, Wargon O, Bustamante J, Boisson B, Müller-Fleckenstein I, Fleckenstein B, Chandesris MO, Titeux M, Fraitag S, Alyanakian MA, Leruez-Ville M, Picard C, Meyts I, Di Santo JP, Hovnanian A, Somer A, Ozen A, Rezaei N, Chatila TA, Abel L, Leonard WJ, Tangye SG, Puel A, Casanova JL.
A recessive form of hyper-IgE syndrome by disruption of ZNF341-dependent STAT3 transcription and activity.
Sci Immunol. 2018 Jun 15;3(24). **Impact Factor: 10.551**

91. Sharapova SO, Haapaniemi E, Sakovich IS, Rojas J, Gámez-Díaz L, Mareika YE, Guryanova IE, Migas AA, Mikhaleuskaya TM, **Grimbacher B**, Aleinikova OV.
Novel LRBA Mutation and Possible Germinal Mosaicism in a Slavic Family.
J Clin Immunol. 2018 May;38(4):471-474. Epub 2018 May 26. **Impact factor: 3.253**

90. Maccari ME, Abolhassani H, Aghamohammadi A, Aiuti A, Aleinikova O, Bangs C, Baris S, Barzaghi F, Baxendale H, Buckland M, Burns SO, Cancrini C, Cant A, Cathébras P, Cavazzana M, Chandra A, Conti F, Coulter T, Devlin LA, Edgar JDM, Faust S, Fischer A, Garcia-Prat M, Hammarström L, Heeg M, Jolles S, Karakoc-Aydiner E, Kindle G, Kiykim A, Kumararatne D, **Grimbacher B**, Longhurst H, Mahlaoui N, Milota T, Moreira F, Moshous D, Mukhina A, Neth O, Neven B, Nieters A, Olbrich P, Ozen A, Schmid JP, Picard C, Prader S, Rae W, Reichenbach J, Rusch S, Savic S, Scarselli A, Scheible R, Sediva A, Sharapova SO, Shcherbina A, Slatter M, Soler-Palacin P, Stanislas A, Suarez F, Tucci F, Uhlmann A, van Montfrans J, Warnatz K, Williams AP, Wood P, Kracker S, Condliffe AM, Ehl S.
Disease Evolution and Response to Rapamycin in Activated Phosphoinositide 3-Kinase δ Syndrome: The European Society for Immunodeficiencies-Activated Phosphoinositide 3-Kinase δ Syndrome Registry.
Front Immunol. 2018 Mar 16;9:543. **Impact factor: 6.429**

89. Schwerd T, Twigg SRF, Aschenbrenner D, Manrique S, Miller KA, Taylor IB, Capitani M, McGowan SJ, Sweeney E, Weber A, Chen L, Bowness P, Riordan A, Cant A, Freeman AF, Milner JD, Holland SM, Frede N, Müller M, Schmidt-Arras D, **Grimbacher B**, Wall SA, Jones EY, Wilkie AOM, Uhlig HH.
A biallelic mutation in IL6ST encoding the GP130 co-receptor causes immunodeficiency and craniosynostosis.
J Exp Med. 2017 Sep 4;214(9):2547-2562. Epub 2017 Jul 26. **Impact factor: 11.991**

88. Sperlich JM, **Grimbacher B**, Workman S, Haque T, Seneviratne SL, Burns SO, Reiser V, Vach W, Hurst JR, Lowe DM.
Respiratory Infections and Antibiotic Usage in Common Variable Immunodeficiency.
J Allergy Clin Immunol Pract. 2017 Jul 19. **Impact factor: 5.317**

PEER-REVIEWED ARTICLES (18)

87. Simpson JK, Fröbel P, Seneviratne SL, Brown M, Lowe DM, **Grimbacher B**, Fliegauf M, Fearfield L.
Invasive dermatophyte infection with trichophyton interdigitale is associated with prurigo induced pseudoperforation and a STAT3 mutation.
Br J Dermatol. 2017 Jul 1. **Impact factor: 4.706**

86. Gámez-Díaz L, Neumann J, Jäger F, Proietti M, Felber F, Soulas-Sprauel P, Perruzza L, Grassi F, Kögl T, Aichele P, Kilimann M, **Grimbacher B**, Jung S.
Immunological phenotype of the murine Lrba knockout.
Immunol Cell Biol. 2017 Oct;95(9):789-802. Epub 2017 Jul 25. **Impact factor: 4.557**

85. Unger S, Seidl M, van Schouwenburg P, Rakhmanov M, Bulashevska A, Frede N, **Grimbacher B**, Pfeiffer J, Schrenk K, Munoz L, Hanitsch L, Stumpf I, Kaiser F, Hausmann O, Kollert F, Goldacker S, van der Burg M, Keller B, Warnatz K.
The TH1 phenotype of follicular helper T cells indicates an IFN-γ-associated immune dysregulation in patients with CD21low common variable immunodeficiency.
J Allergy Clin Immunol. 2017 May 26 **Impact factor: 13.081**

84. Seidel MG, Böhm K, Dogu F, Worth A, Thrasher A, Florkin B, İkincioğulları A, Peters A, Bakhtiar S, Meeths M, Stepensky P, Meyts I, Sharapova SO, Gámez-Díaz L, Hammarström L, Ehl S, **Grimbacher B**, Gennery AR; Inborn Errors Working Party of the European Group for Blood and Marrow Transplantation.
Treatment of severe forms of LPS-responsive beige-like anchor protein deficiency with allogeneic hematopoietic stem cell transplantation.
J Allergy Clin Immunol. 2017 May 10 **Impact factor: 13.081**

83. Greil C, Roether F, La Rosée P, **Grimbacher B**, Duerschmied D, Warnatz K.
Rescue of Cytokine Storm Due to HLH by Hemoadsorption in a CTLA4-Deficient Patient.
J Clin Immunol. 2017 Apr;37(3):273-276. Epub 2017 Mar 6. **Impact factor: 3.253**

82. Liu X, Pichulik T, Wolz OO, Dang TM, Stutz A, Dillen C, Delmiro Garcia M, Kraus H, Dickhöfer S, Daiber E, Münzenmayer L, Wahl S, Rieber N, Kümmerle-Deschner J, Yazdi A, Franz-Wachtel M, Macek B, Radsak M, Vogel S, Schulte B, Walz JS, Hartl D, Latz E, Stilgenbauer S, **Grimbacher B**, Miller L, Brunner C, Wolz C, Weber ANR.
Human NACHT, LRR, and PYD domain-containing protein 3 (NLRP3) inflammasome activity is regulated by and potentially targetable through Bruton tyrosine kinase.
J Allergy Clin Immunol. 2017 Oct;140(4):1054-1067.e10. Epub 2017 Feb 16. **Impact factor: 13.081**

81. Schröder C, Baerlecken NT, Pannicke U, Dörk T, Witte T, Jacobs R, Stoll M, Schwarz K, **Grimbacher B**, Schmidt RE, Atschekzei F.
Evaluation of RAG1 mutations in an adult with combined immunodeficiency and progressive multifocal leukoencephalopathy.
Clin Immunol. 2017 Jun;179:1-7. Epub 2017 Feb 20. **Impact factor: 3.990**

80. Bakhtiar S, Gámez-Díaz L, Jarisch A, Soerensen J, **Grimbacher B**, Belohradsky B, Keller KM, Rietschel C, Klingebiel T, Koletzko S, Albert MH, Bader P.
Treatment of Infantile Inflammatory Bowel Disease and Autoimmunity by Allogeneic Stem Cell Transplantation in LPS-Responsive Beige-Like Anchor Deficiency.
Front Immunol. 2017 Jan 31;8:52. **Impact factor: 6.429**

79. Lougaris V, Patrizi O, Baronio M, Tabellini G, Tampella G, Damiati E, Frede N, van der Meer JWM, Fliegauf M, **Grimbacher B**, Parolini S, Plebani A.
NFKB1 regulates human NK cell maturation and effector functions.
Clin Immunol. 2017 Feb;175:99-108. Epub 2016 Dec 3. **Impact factor: 3.990**

78. Navarini AA, Hruz P, Berger CT, Hou TZ, Schwab C, Gabrysch A, Higgins R, Frede N, Padberg Sgier BC, Kämpe O, Burgener AV, Marquardsen F, Baldin F, Bigler M, Kistner A, Jauch A, Bignucolo O, Meyer B, Meienberg F, Mehling M, Jeker LT, Heijnen I, Daikeler TD, Gebbers JO, **Grimbacher B**, Sansom DM, Jeker R, Hess C, Recher M.
Vedolizumab as a successful treatment of CTLA-4-associated autoimmune enterocolitis.
J Allergy Clin Immunol. 2017 Mar;139(3):1043-1046.e5. Epub 2016 Nov 28. **Impact factor: 13.081**

77. Coulter TI, Chandra A, Bacon CM, Babar J, Curtis J, Screaton N, Goodlad JR, Farmer G, Steele CL, Leahy TR, Doffinger R, Baxendale H, Bernatoniene J, Edgar JD, Longhurst HJ, Ehl S, Speckmann C, **Grimbacher B**, Sediva A, Milota T, Faust SN, Williams AP, Hayman G, Kucuk ZY, Hague R, French P, Brooker R, Forsyth P, Herriot R, Cancrini C, Palma P, Ariganello P, Conlon N, Feighery C, Gavin PJ, Jones A, Imai K, Ibrahim MA, Markelj G, Abinun M, Rieux-Laucat F, Latour S, Pellier I, Fischer A, Touzot F, Casanova JL, Durandy A, Burns SO, Savic S, Kumararatne DS, Moshous D, Kracker S, Vanhaesebroeck B, Okkenhaug K, Picard C, Nejentsev S, Condliffe AM, Cant AJ.
Clinical spectrum and features of activated phosphoinositide 3-kinase δ syndrome: A large patient cohort study.
J Allergy Clin Immunol. 2017 Feb;139(2):597-606.e4. Epub 2016 Jul 16. **Impact factor: 13.081**

76. Mokhtari M, Shakeri A, Mirminachi B, Abolhassani H, Yazdani R, **Grimbacher B**, Aghamohammadi A.
Important Factors Influencing Severity of Common Variable Immunodeficiency.
Arch Iran Med. 2016 Aug;19(8):544-50. **Impact factor: 0.931**

75. Keller B, Cseresnyes Z, Stumpf I, Wehr C, Fliegauf M, Bulashevska A, Usadel S, **Grimbacher B**, Rizzi M, Eibel H, Niesner R, Warnatz K.
Disturbed canonical nuclear factor of κ light chain signaling in B cells of patients with common variable immunodeficiency.
J Allergy Clin Immunol. 2017 Jan;139(1):220-231.e8. Epub 2016 Jun 14. **Impact factor: 13.081**

PEER-REVIEWED ARTICLES (19)

74. Ma CS, Wong N, Rao G, Nguyen A, Avery DT, Payne K, Torpy J, O'Young P, Deenick E, Bustamante J, Puel A, Okada S, Kobayashi M, Martinez-Barricarte R, Elliott M, Sebnem Kilic S, El Baghdadi J, Minegishi Y, Bousfiha A, Robertson N, Hambleton S, Arkwright PD, French M, Blincoe AK, Hsu P, Campbell DE, Stormon MO, Wong M, Adelstein S, Fulcher DA, Cook MC, Stepensky P, Boztug K, Beier R, Ikincioğullari A, Ziegler JB, Gray P, Picard C, Boisson-Dupuis S, Phan TG, **Grimbacher B**, Warnatz K, Holland SM, Uzel G, Casanova JL, Tangye SG.
Unique and shared signaling pathways cooperate to regulate the differentiation of human CD4+ T cells into distinct effector subsets.
J Exp Med. 2016 Jul 25;213(8):1589-608. Epub 2016 Jul 11. **Impact factor: 11.240**

73. Saghafi S, Pourpak Z, Nussbaumer F, Fazlollahi MR, Houshmand M, Hamidieh AA, Bemanian MH, Nabavi M, Parvaneh N, **Grimbacher B**, Moin M, Glocker C.
DOCK8 deficiency in six Iranian patients.
Clin Case Rep. 2016 May 17;4(6):593-600 **Impact factor: 0.540**

72. Toubiana J, Okada S, Hiller J, Oleastro M, Lagos Gomez M, Aldave Becerra JC, Ouachée-Chardin M, Fouyssac F, Girisha KM, Etzioni A, Van Montfrans J, Camcioglu Y, Kerns LA, Belohradsky B, Blanche S, Bousfiha A, Rodriguez-Gallego C, Meyts I, Kisand K, Reichenbach J, Renner ED, Rosenzweig S, **Grimbacher B**, van de Veerdonk FL, Traidl-Hoffmann C, Picard C, Marodi L, Morio T, Kobayashi M, Lilic D, Milner JD, Holland S, Casanova JL, Puel A.
Heterozygous STAT1 gain-of-function mutations underlie an unexpectedly broad clinical phenotype: an international survey of 274 patients from 167 kindreds.
Blood. 2016 Jun 23;127(25):3154-64. Epub 2016 Apr 25. **Impact factor: 10.452**

71. Routes J, Costa-Carvalho BT, **Grimbacher B**, Paris K, Ochs HD, Filipovich A, Hintermeyer M, de Melo KM, Workman S, Ito D, Ye X, Bonnet P, Li-McLeod J.
Health-Related Quality of Life and Health Resource Utilization in Patients with Primary Immunodeficiency Disease Prior to and Following 12 Months of Immunoglobulin G Treatment.
J Clin Immunol. 2016 Jul;36(5):450-61. Epub 2016 Apr 18. **Impact factor: 3.184**

70. Kobbe R, Kolster M, Fuchs S, Schulze-Sturm U, Jenderny J, Kochhan L, Staab J, Tolosa E, **Grimbacher B**, Meyer T.
Common variable immunodeficiency, impaired neurological development and reduced numbers of T regulatory cells in a 10-year-old boy with a STAT1 gain-of-function mutation.
Gene. 2016 Jul 25;586(2):234-8. Epub 2016 Apr 6. **Impact factor: 2.138**

69. Bauer CR, Knecht C, Fretter C, Baum B, Jendrossek S, Rühlemann M, Heinsen FA, Umbach N, **Grimbacher B**, Franke A, Lieb W, Krawczak M, Hütt MT, Sax U.
Interdisciplinary approach towards a systems medicine toolbox using the example of inflammatory diseases.
Brief Bioinform. 2017 May 1;18(3):479-487. **Impact factor: 9.617**

68. Mössner R, Diering N, Bader O, Forkel S, Overbeck T, Gross U, **Grimbacher B**, Schön MP, Buhl T.
Ruxolitinib induces interleukin-17 and ameliorates chronic mucocutaneous candidiasis caused by STAT1 gain-of-function mutation.
Clin Infect Dis. 2016 Apr 1;62(7):951-3. Epub 2016 Jan 19. **Impact factor: 8.886**

67. Schreiner F, Plamper M, Dueker G, Schoenberger S, Gámez-Díaz L, **Grimbacher B**, Hilger AC, Gohlke B, Reutter H, Woelfle J.
Infancy-onset T1DM, short stature and severe immunodysregulation in two siblings with a homozygous LRBA-mutation.
J Clin Endocrinol Metab. 2016 Mar;101(3):898-904. Epub 2016 Jan 8. **Impact factor: 6.209**

66. Brent J, Guzman D, Bangs C, **Grimbacher B**, Fayolle C, Huissoon A, Bethune C, Thomas M, Patel S, Jolles S, Alachkar H, Kumaratne D, Baxendale H, Edgar JD, Helbert M, Hambleton S, Arkwright PD.
Clinical and laboratory correlates of lung disease and cancer in adults with idiopathic hypogammaglobulinemia.
Clin Exp Immunol. 2016 Apr;184(1):73-82. Epub 2016 Jan 27. **Impact factor: 3.037**

65. Ma CS, Wong N, Rao G, Avery DT, Torpy J, Hambridge T, Bustamante J, Okada S, Stoddard JL, Deenick EK, Pelham SJ, Payne K, Boisson-Dupuis S, Puel A, Kobayashi M, Arkwright PD, Kilic SS, El Baghdadi J, Nonoyama S, Minegishi Y, Mahdaviani SA, Mansouri D, Bousfiha A, Blincoe AK, French MA, Hsu P, Campbell DE, Stormon MO, Wong M, Adelstein S, Smart JM, Fulcher DA, Cook MC, Phan TG, Stepensky P, Boztug K, Kansu A, İkincioğullari A, Baumann U, Beier R, Roscioli T, Ziegler JB, Gray P, Picard C, **Grimbacher B**, Warnatz K, Holland SM, Casanova JL, Uzel G, Tangye SG.
Monogenic mutations differentially affect the quantity and quality of T follicular helper cells in patients with human primary immunodeficiencies.
J Allergy Clin Immunol. 2015 Oct;136(4):993-1006. **Impact factor: 11.248**

64. Herbst M, Gazendam R, Reimnitz D, Sawalle-Belohradsky J, Groll A, Schlegel PG, Belohradsky B, Renner E, Klepper J, **Grimbacher B**, Kuijpers T, Liese J.
Chronic Candida albicans Meningitis in a 4-Year-Old Girl with a Homozygous Mutation in the CARD9 Gene (Q295X).
Pediatr Infect Dis J. 2015 Sep;34(9):999-1002. **Impact factor: 3.135**

63. Revel-Vilk S, Fischer U, Keller B, Nabhani S, Gámez-Díaz L, Rensing-Ehl A, Gombert M, Hönscheid A, Saleh H, Shaag A, Borkhardt A, **Grimbacher B**, Warnatz K, Elpeleg O, Stepensky P.
Autoimmune lymphoproliferative syndrome-like disease in patients with LRBA mutation.
Clin Immunol. 2015 Jul;159(1):84-92. Epub 2015 Apr 27. **Impact factor: 3.992**

62. Li J, Jørgensen SF, Maggadottir SM, Bakay M, Warnatz K, Glessner J, Pandey R, Salzer U, Schmidt RE, Perez E, Resnick E, Goldacker S, Buchta M, Witte T, Padyukov L, Videm V, Folseraas T, Atschekzei F, Elder JT, Nair RP,

PEER-REVIEWED ARTICLES (20)

Winkelmann J, Gieger C, Nöthen MM, Büning C, Brand S, Sullivan KE, Orange JS, Fevang B, Schreiber S, Lieb W, Aukrust P, Chapel H, Cunningham-Rundles C, Franke A, Karlsen TH, **Grimbacher B**, Hakonarson H, Hammarström L, Ellinghaus E.
Association of CLEC16A with human common variable immunodeficiency disorder and role in murine B cells.
Nat Commun. 2015 Apr 20;6:6804. **Impact factor: 10.742**

61. Saghafi S, Pourpak Z, Glocker C, Nussbaumer F, Babamahmoodi A, **Grimbacher B**, Moin M.
The diagnosis of hyper immunoglobulin e syndrome based on project management.
Iran J Allergy Asthma Immunol. 2015 Apr;14(2):126-32. **Impact factor: 1.013**

60. Rieber N, Singh A, Öz H, Carevic M, Bouzani M, Amich J, Ost M, Ye Z, Ballbach M, Schäfer I, Mezger M, Klimosch SN, Weber AN, Handgretinger R, Krappmann S, Liese J, Engeholm M, Schüle R, Salih HR, Marodi L, Speckmann C, **Grimbacher B**, Ruland J, Brown GD, Beilhack A, Loeffler J, Hartl D.
Pathogenic Fungi Regulate Immunity by Inducing Neutrophilic Myeloid-Derived Suppressor Cells.
Cell Host Microbe. 2015 Apr 8;17(4):507-514. **Impact factor: 12.194**

59. Aydin SE, Kilic SS, Aytekin C, Kumar A, Porras O, Kainulainen L, Kostyuchenko L, Genel F, Kütükcüler N, Karaca N, Gonzalez-Granado L, Abbott J, Al-Zahrani D, Rezaei N, Baz Z, Thiel J, Ehl S, Marodi L, Orange JS, Sawalle-Belohradsky J, Keles S, Holland SM, Sanal Ö, Ayvaz DC, Tezcan I, Al-Mousa H, Alsum Z, Hawwari A, Metin A, Matthes-Martin S, Hönig M, Schulz A, Picard C, Barlogis V, Gennery A, Ifversen M, van Montfrans J, Kuijpers T, Bredius R, Dückers G, Al-Herz W, Pai SY, Geha R, Notheis G, Schwarze CP, Tavil B, Azik F, Bienemann K, **Grimbacher B**, Heinz V, Gaspar HB, Aydin R, Hagl B, Gathmann B, Belohradsky BH, Ochs HD, Chatila T, Renner ED, Su H, Freeman AF, Engelhardt K, Albert MH; On behalf of the inborn errors working party of EBMT.
DOCK8 Deficiency: Clinical and Immunological Phenotype and Treatment Options - a Review of 136 Patients.
J Clin Immunol. 2015 Feb;35(2):189-98. **Impact factor: 2.654**

58. Wehr C, Gennery AR, Lindemans C, Schulz A, Hoenig M, Marks R, Recher M, Gruhn B, Holbro A, Heijnen I, Meyer D, Grigoleit G, Einsele H, Baumann U, Witte T, Sykora KW, Goldacker S, Regairaz L, Aksoylar S, Ardeniz Ö, Zecca M, Zdziarski P, Meyts I, Matthes-Martin S, Imai K, Kamae C, Fielding A, Seneviratne S, Mahlaoui N, Slatter MA, Güngör T, Arkwright PD, van Montfrans J, Sullivan KE, **Grimbacher B**, Cant A, Peter HH, Finke J, Gaspar HB, Warnatz K, Rizzi M.; the Inborn Errors Working Party of the European Society for Blood and Marrow Transplantation and the European Society for Immunodeficiency.
Multicenter experience in hematopoietic stem cell transplantation for serious complications of common variable immunodeficiency.
J Allergy Clin Immunol. 2015 Apr;135(4):988-997.e6. **Impact factor: 11.248**

57. Seidel MG, Hirschmugl T, Gamez-Diaz L, Schwinger W, Serwas N, Deutschmann A, Gorkiewicz G, Zenz W, Windpassinger C, **Grimbacher B**, Urban C, Boztug K.
Long-term remission after allogeneic hematopoietic stem cell transplantation in LPS-responsive beige-like anchor (LRBA) deficiency.
J Allergy Clin Immunol. 2014 Dec **Impact factor: 11.248**

56. Serwas NK, Kansu A, Santos-Valente E, Kuloğlu Z, Demir A, Yaman A, Yaneth Gamez Diaz L, Artan R, Sayar E, Ensari A, **Grimbacher B**, Boztug K.
Atypical manifestation of LRBA deficiency with predominant IBD-like phenotype.
Inflamm Bowel Dis. 2015 Jan;21(1):40-7. **Impact factor: 5.475**

55. Kracker S, Di Virgilio M, Schwartzentruber J, Cuenin C, Forveille M, Deau MC, McBride KM, Majewski J, Gazumyan A, Seneviratne S, **Grimbacher B**, Kutukculer N, Herceg Z, Cavazzana M, Jabado N, Nussenzweig MC, Fischer A, Durandy A.
An inherited immunoglobulin class-switch recombination deficiency associated with a defect in the INO80 chromatin remodeling complex.
J Allergy Clin Immunol. 2014 Oct 10. pii: S0091-6749(14)01205-6. **Impact Factor: 11.248**

54. Metzger ML, Michelfelder I, Goldacker S, Melkaoui K, Litzman J, Guzman D, **Grimbacher B**, Salzer U.
Low Ficolin-2 levels in CVID Patients with bronchiectasis.
Clin Exp Immunol. 2014 Sep 23. **Impact Factor: 3.410**

53. Frans G, Moens L, Schaballie H, Van Eyck L, Borgers H, Wuyts M, Dillaerts D, Vermeulen E, Dooley J, **Grimbacher B**, Cant A, Declerck D, Peumans M, Renard M, De Boeck K, Hoffman I, François I, Liston A, Claessens F, Bossuyt X, Meyts I.
Gain-of-function mutations in signal transducer and activator of transcription 1 (STAT1): Chronic mucocutaneous candidiasis accompanied by enamel defects and delayed dental shedding.
J Allergy Clin Immunol. 2014 Jul 18. **Impact Factor: 11.248**

52. Makatsori M, Kiani-Alikhan S, Manson AL, Verma N, Leandro M, Gurugama NP, Longhurst HJ, Grigoriadou S, Buckland M, Kanfer E, Hanson S, Ibrahim MA, **Grimbacher B**, Chee R, Seneviratne SL.
Hypogammaglobulinaemia after rituximab treatment-incidence and outcomes.
QJM: An International Journal of Medicine. 2014 Apr 28. **Impact Factor: 2.461**

51. Sic H, Kraus H, Madl J, Flittner KA, von Münchow AL, Pieper K, Rizzi M, Kienzler AK, Ayata K, Rauer S, Kleuser B, Salzer U, Burger M, Zirlik K, Lougaris V, Plebani A, Römer W, Loeffler C, Scaramuzza S, Villa A, Noguchi E, **Grimbacher B**, Eibel H.
Sphingosine-1-phosphate receptors control B-cell migration through signaling components associated with primary immunodeficiencies, chronic lymphocytic leukemia, and multiple sclerosis.
J Allergy Clin Immunol. 2014 Mar 25. **Impact Factor: 12.047**

PEER-REVIEWED ARTICLES (21)

50. Gao Y, Workman S, Gadola S, Elliott T, **Grimbacher B**, Williams AP.
Common variable immunodeficiency is associated with a functional deficiency of invariant natural killer T cells.
J Allergy Clin Immunol. 2014 Feb 26. **Impact Factor: 12.047**

49. Pieper K, Rizzi M, Speletas M, Smulski CR, Sic H, Kraus H, Salzer U, Fiala GJ, Schamel WW, Lougaris V, Plebani A, Hammarstrom L, Recher M, Germenis AE, **Grimbacher B**, Warnatz K, Rolink AG, Schneider P, Notarangelo LD, Eibel H.
A common single nucleotide polymorphism impairs B-cell activating factor receptor's multimerization, contributing to common variable immunodeficiency.
J Allergy Clin Immunol. 2014 Jan 7. **Impact Factor: 12.047**

48. Romberg N, Chamberlain N, Saadoun D, Gentile M, Kinnunen T, Ng YS, Virdee M, Menard L, Cantaert T, Morbach H, Rachid R, Martinez-Pomar N, Matamoros N, Geha R, **Grimbacher B**, Cerutti A, Cunningham-Rundles C, Meffre E.
CVID-associated TACI mutations affect autoreactive B cell selection and activation.
J Clin Invest. 2013 Oct 1;123(10):4283-93. **Impact Factor: 15.390**

47. Speckmann C, Lehmberg K, Albert MH, Damgaard RB, Fritsch M, Gyrd-Hansen M, Rensing-Ehl A, Vraetz T, **Grimbacher B,** Salzer U, Fuchs I, Ufheil H, Belohradsky BH, Hassan A, Cale CM, Elawad M, Strahm B, Schibli S, Lauten M, Kohl M, Meerpohl JJ, Rodeck B, Kolb R, Eberl W, Soerensen J, von Bernuth H, Lorenz M, Schwarz K, Zur Stadt U, Ehl S.
X-linked inhibitor of apoptosis (XIAP) deficiency: The spectrum of presenting manifestations beyond hemophagocytic lymphohistiocytosis.
Clin Immunol. 2013 Jul 31;149(1):133-141. **Impact Factor: 3.932**

46. Afzali B, Mitchell PJ, Edozie FC, Povoleri GA, Dowson SE, Demandt L, Walter G, Canavan JB, Scotta C, Menon B, Chana PS, Khamri W, Kordasti SY, Heck S, **Grimbacher B**, Tree T, Cope AP, Taams LS, Lechler RI, John S, Lombardi G.
CD161 expression characterizes a sub-population of human regulatory T cells that produces IL-17 in a STAT3 dependent manner.
Eur J Immunol. 2013 May 15. **Impact Factor: 4.970**

45. Scheuerman O, Hoffer V, Cohen AH, Woellner C, **Grimbacher B**, Garty BZ.
Reduced Bone Density in Patients with Autosomal Dominant Hyper-IgE Syndrome.
J Clin Immunol. 2013 Apr 19. **Impact Factor: 3.382**

44. Wong GK, Goldacker S, Winterhalter C, **Grimbacher B**, Chapel H, Lucas M, Alecsandru D, McEwen D, Quinti I, Martini H, Schmidt RE, Ernst D, Espanol T, Vidaller A, Carbone J, Fernandez-Cruz E, Lougaris V, Plebani A, Kutukculer N, Gonzalez-Granado LI, Contreras R, Kiani-Alikhan S, Ibrahim MA, Litzman J, Jones A, Gaspar HB, Hammarstrom L, Baumann U, Warnatz K, Huissoon AP; Clinical Working Party of the European Society for Immunodeficiencies (ESID).
Outcomes of splenectomy in patients with common variable immunodeficiency (CVID): a survey of 45 patients.
Clin Exp Immunol. 2013 Apr;172(1):63-72. **Impact Factor: 3.134**

43. Al Rushood M, McCusker C, Mazer B, Alizadehfar R, **Grimbacher B**, Depner M, Ben-Shoshan M.
Autosomal Dominant Cases of Chronic Mucocutaneous Candidiasis Segregates with Mutations of Signal Transducer and Activator of Transcription 1, But Not of Toll-Like Receptor 3.
J Pediatr. 2013 Mar 26. **Impact Factor: 4.115**

42. Stepensky P, Keller B, Buchta M, Kienzler AK, Elpeleg O, Somech R, Cohen S, Shachar I, Miosge LA, Schlesier M, Fuchs I, Enders A, Eibel H, **Grimbacher B**, Warnatz K.
Deficiency of caspase recruitment domain family, member 11 (CARD11), causes profound combined immunodeficiency in human subjects.
J Allergy Clin Immunol. 2013 Feb;131(2):477-85.e1 **Impact Factor: 12.047**

41. Luksch H, Romanowski MJ, Chara O, Tüngler V, Caffarena ER, Heymann MC, Lohse P, Aksentijevich I, Remmers EF, Flecks S, Quoos N, Gramatté J, Petzold C, Hofmann SR, Winkler S, Pessler F, Kallinich T, Ganser G, Nimtz-Talaska A, Baumann U, Runde V, **Grimbacher B**, Birmelin J, Gahr M, Roesler J, Rösen-Wolff A.
Naturally occurring genetic variants of human caspase-1 differ considerably in structure and the ability to activate interleukin-1β
Hum Mutat. 2013 Jan;34(1):122-31. **Impact Factor: 5.686**

40. Spielberger BD, Woellner C, Dueckers G, Sawalle-Belohradsky J, Hagl B, Anslinger K, Bayer B, Siepermann K, Niehues T, **Grimbacher B**, Belohradsky BH, Renner ED.
Challenges of genetic counseling in patients with autosomal dominant diseases, such as the hyper-IgE syndrome (STAT3-HIES).
J Allergy Clin Immunol. 2012 Dec;130(6):1426-8. **Impact Factor: 12.047**

39. Hernandez-Trujillo HS, Chapel H, Lo Re III V, Notarangelo LD, Gathmann B, **Grimbacher B**, Boyle JM, Hernandez-Trujillo VP, Scalchunes C, Boyle ML, Orange JS
Comparison of American and European practices in the management of patients with primary immunodeficiencies
Clin Exp Immunol, July 2012 169: 57–69 **Impact Factor: 3.134**

38. Speckmann C, Neumann C, Borte S, la Marca G, Sass JO, Wiech E, Fisch P, Schwarz K, Buchholz B, Schlesier M, Felgentreff K, **Grimbacher B**, Santisteban I, Bali P, Hershfield MS, Ehl S.
Delayed-onset adenosine deaminase deficiency: Strategies for an early diagnosis.
J Allergy Clin Immunol. 2012 Oct;130(4):991-4. Epub 2012 May 10 . **Impact Factor: 12.047**

PEER-REVIEWED ARTICLES (22)

37. Kotlarz D, Beier R, Murugan D, Diestelhorst J, Jensen O, Boztug K, Pfeifer D, Kreipe H, Pfister ED, Baumann U, Puchalka J, Bohne J, Egritas O, Dalgic B, Kolho KL, Sauerbrey A, Buderus S, Güngör T, Enninger A, Koda YK, Guariso G, Weiss B, Corbacioglu S, Socha P, Uslu N, Metin A, Wahbeh GT, Husain K, Ramadan D, Al-Herz W, **Grimbacher B**, Sauer M, Sykora KW, Koletzko S, Klein C.
Loss of Interleukin-10 Signaling and Infantile Inflammatory Bowel Disease - Implications for Diagnosis and Therapy.
Gastroenterology. 2012 Aug;143(2):347-55. Epub 2012 Apr 28. **Impact Factor: 12.032**

36. Al-Herz W, Ragupathy R, Massaad MJ, Al-Attiyah R, Nanda A, Engelhardt KR, **Grimbacher B**, Notarangelo L, Chatila T, Geha RS.
Clinical, immunologic and genetic profiles of DOCK8-deficient patients in Kuwait.
Clin Immunol. 2012 Jun;143(3):266-72. Epub 2012 Mar 30. **Impact Factor: 3.932**

35. Abdollahpour H, Appaswamy G, Kotlarz D, Diestelhorst J, Beier R, Schäffer AA, Gertz EM, Schambach A, Kreipe HH, Pfeifer D, Engelhardt KR, Rezaei N, **Grimbacher B**, Lohrmann S, Sherkat R, Klein C.
The phenotype of human STK4 deficiency.
Blood. 2012 Apr 12;119(15):3450-7. Epub 2012 Jan 31. **Impact Factor: 9.060**

34. Palendira U, Low C, Bell AI, Ma CS, Abbott RJ, Phan TG, Riminton DS, Choo S, Smart JM, Lougaris V, Giliani S, Buckley RH, **Grimbacher B**, Alvaro F, Klion AD, Nichols KE, Adelstein S, Rickinson AB, Tangye SG.
Expansion of somatically reverted memory CD8+ T cells in patients with X-linked lymphoproliferative disease caused by selective pressure from Epstein-Barr virus.
J Exp Med. 2012 Apr 9. **Impact Factor: 14.776**

33. Thiel J, Kimmig L, Salzer U, Grudzien M, Lebrecht D, Hagena T, Draeger R, Völxen N, Bergbreiter A, Jennings S, Gutenberger S, Aichem A, Illges H, Hannan JP, Kienzler AK, Rizzi M, Eibel H, Peter HH, Warnatz K, **Grimbacher B**, Rump JA, Schlesier M.
Genetic CD21 deficiency is associated with hypogammaglobulinemia.
J Allergy Clin Immunol. 2012 Mar;129(3):801-810.e6. Epub 2011 Oct 27. **Impact Factor: 12.047**

32. Kreuzaler M, Rauch M, Salzer U, Birmelin J, Rizzi M, **Grimbacher B**, Plebani A, Lougaris V, Quinti I, Thon V, Litzman J, Schlesier M, Warnatz K, Thiel J, Rolink AG, Eibel H.
Soluble BAFF Levels Inversely Correlate with Peripheral B Cell Numbers and the Expression of BAFF Receptors.
J Immunol. 2012 Jan 1;188(1):497-503. Epub 2011 Nov 28. **Impact Factor: 5.745**

31. Rizzi M, Neumann C, Fielding AK, Marks R, Goldacker S, Thaventhiran J, Tarzi MD, Schlesier M, Salzer U, Eibel H, Warnatz K, Finke J, **Grimbacher B**, Peter HH.
Outcome of allogeneic stem cell transplantation in adults with common variable immunodeficiency.
J Allergy Clin Immunol. 2011 Dec;128(6):1371-1374.e2. Epub 2011 Sep 17. **Impact Factor: 11.003**

30. Beitzke M, Enzinger C, Windpassinger C, Pfeifer D, Fazekas F, Woellner C, **Grimbacher B**, Kroisel PM.
Community acquired Staphylococcus aureus meningitis and cerebral abscesses in a patient with a Hyper-IgE and a Dubowitz-like syndrome.
J Neurol Sci. 2011 Oct 15;309(1-2):12-5. Epub 2011 Aug 19. **Impact Factor: 2.167**

29. Borte M, Pac M, Serban M, Gonzalez-Quevedo T**, Grimbacher B,** Jolles S, Zenker O, Neufang-Hueber J, Belohradsky B.
Efficacy and safety of hizentra(®), a new 20% immunoglobulin preparation for subcutaneous administration, in pediatric patients with primary immunodeficiency.
J Clin Immunol. 2011 Oct; 31(5): 752-61. Epub 2011 Jun 15. **Impact Factor: 3.007**

28. Khan S, **Grimbacher B**, Boecking C, Chee R, Allgar V, Holding S, Wong G, Huissoon A, Herriot R, Doré P, Sewell W.
Serum trough IgG level and annual intravenous immunoglobulin dose are not related to body size in patients on regular replacement therapy.
Drug Metab Lett. 2011 Apr;5(2): 132-6 **Impact Factor: 0.670**

27. Hoffmann F, **Grimbacher B**, Thiel J, Peter HH, Belohradsky BH; Vivaglobin Study Group.
Home-based subcutaneous immunoglobulin G replacement therapy under real-life conditions in children and adults with antibody deficiency.
Eur J Med Res. 2010 Jun 28;15(6):238-45. **Impact Factor: 1.130**

26. He B, Santamaria R, Xu W, Cols M, Chen K, Puga I, Shan M, Xiong H, Bussel JB, Chiu A, Puel A, Reichenbach J, Marodi L, Döffinger R, Vasconcelos J, Issekutz A, Krause J, Davies G, Li X, **Grimbacher B**, Plebani A, Meffre E, Picard C, Cunningham-Rundles C, Casanova JL, Cerutti A.
The transmembrane activator TACI triggers immunoglobulin class switching by activating B cells through the adaptor MyD88.
Nat Immunol. 2010 Sep;11(9):836-45. Epub 2010 Aug 1. **Impact Factor: 25.668**

25. Gathmann B, **Grimbacher B**, Beauté J, Dudoit Y, Mahlaoui N, Fischer A, Knerr V, Kindle G; ESID Registry Working Party.
The European internet-based patient and research database for primary immunodeficiencies: results 2006-2008.
Clin Exp Immunol. 2009 Sep;157 Suppl 1:3-11. **Impact Factor: 2.853**

24. Warnatz K, Salzer U, Rizzi M, Fischer B, Gutenberger S, Böhm J, Kienzler AK, Pan-Hammarström Q, Hammarström L, Rakhmanov M, Schlesier M, **Grimbacher B**, Peter HH, Eibel H.
B-cell activating factor receptor deficiency is associated with an adult-onset antibody deficiency syndrome in humans.
Proc Natl Acad Sci USA. 2009 Aug 18;106(33):13945-50. **Impact Factor 9.380**

PEER-REVIEWED ARTICLES (23)

23. Broides A, Shubinsky G, Parvari R, **Grimbacher B**, Somech R, Garty BZ, Levy J.
MHC class 2 deficiency and X-linked agammaglobulinaemia in a consanguineous extended family.
Int J Immunogenet. 2009 Aug;36(4):223-6. **Impact Factor 1.160**

22. Tuettenberg A, Huter E, Hubo M, Horn J, Knop J, **Grimbacher B**, Kroczek RA, Stoll S, Jonuleit H.
The role of ICOS directing T cell responses: ICOS-dependent induction of T cell anergy by tolerogenic dendritic cells.
J Immunol. 2009 Mar 15;182(6):3349-56. **Impact Factor: 6.000**

21. Garty BZ, Ben-Baruch A, Rolinsky A, Woellner C, **Grimbacher B**, Marcus N.
Pneumocystis jirovecii pneumonia in a baby with hyper-IgE syndrome.
Eur J Pediatr. 2009 Mar 24. **Impact Factor: 1.416**

20. Boztug K, Appaswamy G, Ashikov A, Schäffer AA, Salzer U, Diestelhorst J, Germeshausen M, Brandes G, Lee-Gossler J, Noyan F, Gatzke AK, Minkov M, Greil J, Kratz C, Petropoulou T, Pellier I, Bellanné-Chantelot C, Rezaei N, Mönkemöller K, Irani-Hakimeh N, Bakker H, Gerardy-Schahn R, Zeidler C, **Grimbacher B**, Welte K, Klein C.
A syndrome with congenital neutropenia and mutations in G6PC3.
N Engl J Med. 2009 Jan 1;360(1):32-43. **Impact Factor: 47.050**

19. Speckmann C, Enders A, Woellner C, Thiel D, Rensing-Ehl A, Schlesier M, Rohr J, Jakob T, Oswald E, Kopp MV, Sanal O, Litzman J, Plebani A, Pietrogrande MC, Franco JL, Espanol T, **Grimbacher B**, Ehl S.
Reduced memory B cells in patients with hyper IgE syndrome.
Clin Immunol. 2008 Dec;129(3):448-54. Epub 2008 Oct 2. **Impact Factor: 3.606**

18. Litzman J, Freiberger T, **Grimbacher B**, Gathmann B, Salzer U, Pavlík T, Vlček J, Postránecká V, Trávníčková Z, Thon V.
Mannose-binding lectin gene polymorphic variants predispose to the development of bronchopulmonary complications but have no influence on other clinical and laboratory symptoms or signs of common variable immunodeficiency.
Clin Exp Immunol. 2008 Sept 15;103(9):620-7. **Impact Factor: 2.853**

17. Ma CS, Chew GY, Simpson N, Priyadarshi A, Wong M, **Grimbacher B**, Fulcher DA, Tangye SG, Cook MC.
Deficiency of Th17 cells in hyper IgE syndrome due to mutations in STAT3.
J Exp Med. 2008 Jul 7;205(7):1551-7. **Impact Factor: 15.219**

16. Chapel H, Lucas M, Lee M, Bjorkander J, Webster D, **Grimbacher B**, Fieschi C, Thon V, Abedi M, Hammarstrom L.
Common variable immunodeficiency disorders: division into distinct clinical phenotypes.
Blood. 2008 Jul 15;112(2):277-86. **Impact Factor: 10.432**

15. Germeshausen M, Grudzien M, Zeidler C, Abdollahpour H, Yetgin S, Rezaei N, Ballmaier M, **Grimbacher B**, Welte K, Klein C.
Novel HAX1 mutations in patients with severe congenital neutropenia reveal isoform-dependent genotype-phenotype associations.
Blood. 2008 May 15;111(10):4954-7. Epub 2008 Mar 12. **Impact Factor: 10.432**

14. Zhang L, Radigan L, Salzer U, Behrens TW, **Grimbacher B**, Diaz G, Bussel J, Cunningham-Rundles C.
Transmembrane activator and calcium-modulating cyclophilin ligand interactor mutations in common variable immunodeficiency: clinical and immunologic outcomes in heterozygotes.
J Allergy Clin Immun. 2007 Nov;120(5):1178-85. **Impact Factor: 9.773**

13. Pan-Hammarstrom Q, Salzer U, Du L, Bjorkander J, Cunningham-Rundles C, Nelson DL, Bacchelli C, Gaspar HB, Offer S, Behrens TW, **Grimbacher B**, Hammarstrom L.
Reexamining the role of TACI coding variants in common variable immunodeficiency and selective IgA deficiency.
Nat Genet. 2007 Apr;39(4):429-30 **Impact Factor: 30.259**

12. Bossaller L, Burger J, Draeger R, **Grimbacher B,** Knoth R, Plebani A, Durandy A, Baumann U, Schlesier M, Welcher AA, Peter HH, Warnatz K.
ICOS deficiency is associated with a severe reduction of CXCR5+CD4 germinal center Th cells.
J Immunol. 2006 Oct 1;177(7):4927-32. **Impact Factor: 6.000**

11. Losi CG, Salzer U, Gatta R, Lougaris V, Cattaneo G, Meini A, Soresina A, **Grimbacher B**, Plebani A.
Mutational Analysis of Human BLyS in Patients with Common Variable Immunodeficiency.
J Clin Immunol. 2006 Jul;26(4):396-9. **Impact Factor: 3.248**

10. Kittner JM, **Grimbacher B**, Wulff W, Jager B, Schmidt RE.
Patients' attitude to subcutaneous immunoglobulin substitution as home therapy.
J Clin Immunol. 2006 Jul;26(4):400-5 **Impact Factor: 3.248**

9. van Zelm MC, Reisli I, an der Burg M, Castaño D, van Noesel CJM, van Tol MJD, Woellner C, **Grimbacher B**, Patiño PJ, van Dongen JJM, Franco JL.
Novel antibody deficiency in patients with CD19 gene defects.
New Engl. J. Med., 2006; 354:1901-1912 **Impact Factor: 50.017**

8. Kotter I, Vonthein R, Zierhut M, Eckstein A, Ness T, Gunaydin I, **Grimbacher B,** Blaschke S, Peter H, Stubiger N.
Differential efficacy of human recombinant interferon-alpha2a on ocular and extraocular manifestations of Behcet disease: results of an open 4-center trial.
Semin Arthritis Rheum. 2004 Apr; 33(5):311-9. **Impact Factor: 4.379**

PEER-REVIEWED ARTICLES (24)

7. Kotter I, Zierhut M, Eckstein A, Vonthein R, Ness T, Gunaydin I, **Grimbacher B,** Blaschke S, Peter HH, Kanz L, Stubiger N.
Human recombinant interferon-alpha2a (rhIFN alpha2a) for the treatment of Behcet's disease with sight-threatening retinal vasculitis.
Adv Exp Med Biol. 2003; 528: 521-3. **Impact Factor: 0.635**

6. Kotter I, Zierhut M, Eckstein AK, Vonthein R, Ness T, Gunaydin I, **Grimbacher B,** Blaschke S, Meyer-Riemann W, Peter HH, Stubiger N.
Human recombinant interferon alfa-2a for the treatment of Behcet's disease with sight threatening posterior or panuveitis.
Br J Ophthalmol. 2003 Apr; 87(4): 423-31. **Impact Factor: 2.459**

5. Atkinson TP, Schaffer AA, **Grimbacher B,** Schroeder HW Jr, Woellner C, Zerbe CS, Puck JM.
An immune defect causing dominant chronic mucocutaneous candidiasis and thyroid disease maps to chromosome 2p in a single family.
Am J Hum Genet. 2001 Oct; 69(4):791-803. **Impact Factor: 10.153**

4. Hundt M, Manger K, Dorner T, **Grimbacher B,** Kalden P, Rascu A, Weber D, Burmester GR, Peter HH, Kalden JR, Schmidt RE.
Treatment of acute exacerbation of systemic lupus erythematosus with high-dose immunoglobulin.
Rheumatology (Oxford). 2000 Nov; 39(11):1301-2. **Impact Factor: 4.136**

3. O'Connell AC, Puck JM, **Grimbacher B,** Facchetti F, Majorana A, Gallin JI, Malech HL, Holland SM.
Delayed eruption of permanent teeth in hyperimmunoglobulinemia E recurrent infection syndrome.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2000 Feb; 89(2):177-85. **Impact Factor: 0.865**

2. Aicher WK, Dinkel A, **Grimbacher B,** Haas C, Seydlitz-Kurzbach EV, Peter HH, Eibel H.
Serum response elements activate and cAMP responsive elements inhibit expression of transcription factor Egr-1 in synovial fibroblasts of rheumatoid arthritis patients.
Int Immunol. 1999 Jan;11(1):47-61. **Impact Factor: 3.181**

1. von Kempis J, Kalden P, Gutfleisch J, **Grimbacher B,** Krause T, Uhl M, Ketelsen UP, Volk B, Rother E, Vaith P, Peter HH.
Diagnosis of idiopathic myositis: value of 99mtechnetium pyrophosphate muscle scintigraphy and magnetic resonance imaging in targeted muscle biopsy.
Rheumatol Int. 1998;17(5):207-13. **Impact Factor: 1.327**

LETTERS

5. Fliegauf M, **Grimbacher B.**
Nuclear factor κB mutations in human subjects: The devil is in the details.
J Allergy Clin Immunol. 2018 Oct;142(4):1062-1065. Epub 2018 Aug 28. **Impact factor: 13.258**

4. Rauer S, Marks R, Urbach H, Warnatz K, Nath A, Holland S, Weiller C, **Grimbacher B**.
Treatment of Progressive Multifocal Leukoencephalopathy with Pembrolizumab.
N Engl J Med. 2019 Apr 10 **Impact factor: 79.260**

3. Gao Y, Gadola S, **Grimbacher B**, Williams AP.
Reply.
J Allergy Clin Immunol. 2014 Oct;134(4):990. **Impact Factor: 12.047**

2. Chua I, Lagos M, Charalambous BM, Workman S, Chee R, **Grimbacher B.**
Pathogen-specific IgG antibody levels in immunodeficient patients receiving immunoglobulin replacement do not provide additional benefit to therapeutic management over total serum IgG.
J Allergy Clin Immunol. 2011 Jun;127(6):1410-1. Epub 2011 Mar 3. (Letter) **Impact Factor: 11.003**

1. Woellner C, Schaffer AA, Puck JM, Renner ED, Knebel C, Holland SM, Plebani A, **Grimbacher B**.
The Hyper IgE Syndrome and Mutations in TYK2.
Immunity. 2007 May;26(5):535 (Letter) **Impact Factor: 20.579**

REVIEW ARTICLES

51. Murray CE, Jannoud E, Prader S, **Grimbacher B.**
How I Treat: STAT3 hyper IgE syndrome.
J Hum Immun. 2026 May 29;2(4):e20260038. **Impact Factor: 2.100**

TOTAL IMPACT FACTOR: 296.052

50. Caballero-Oteyza A, Crisponi L, Peng XP, Wang H, Mrovecova P, Olla S, Siguri C, Marnissi F, Jouhadi Z, Aksentijevich I, **Grimbacher B**, Proietti M.
OTULIN-related conditions: Report of a new case and review of the literature using GenIA.
Clin Immunol. 2024 Aug;265:110292. **Impact Factor: 9.100**

49. Uhlig HH, Booth C, Cho J, Dubinsky M, Griffiths AM, **Grimbacher B**, Hambleton S, Huang Y, Jones K, Kammermeier J, Kanegane H, Koletzko S, Kotlarz D, Klein C, Lenardo MJ, Lo B, McGovern DPB, Özen A, de Ridder L, Ruemmele F, Shouval DS, Snapper SB, Travis SP, Turner D, Wilson DC, Muise AM.

REVIEW ARTICLES (2)

Precision medicine in monogenic inflammatory bowel disease: proposed mIBD REPORT standards.
Nat Rev Gastroenterol Hepatol. 2023 Oct 3. Online ahead of print. **Impact Factor: 12.943**

48. Lee PY, Davidson BA, Abraham RS, Alter B, Arostegui JI, Bell K, Belot A, Bergerson JRE, Bernard TJ, Brogan PA, Berkun Y, Deuitch NT, Dimitrova D, Georgin-Lavialle SA, Gattorno M, Grimbacher B, Hashem H, Hershfield MS, Ichord RN, Izawa K, Kanakry JA, Khubchandani RP, Klouwer FCC, Luton EA, Man AW, Meyts I, Van Montfrans JM, Ozen S, Saarela J, Santo GC, Sharma A, Soldatos A, Sparks R, Torgerson TR, Uriarte IL, Youngstein TAB, Zhou Q, Aksentijevich I, Kastner DL, Chambers EP, Ombrello AK; DADA2 Foundation.
Evaluation and Management of Deficiency of Adenosine Deaminase 2: An International Consensus Statement.
JAMA Netw Open. 2023 May 1;6(5):e2315894. **Impact Factor: 13.353**

47. Ott N, Faletti L, Heeg M, Andreani V, Grimbacher B.
JAKs and STATs from a Clinical Perspective: Loss-of-Function Mutations, Gain-of-Function Mutations, and Their Multidimensional Consequences.
J Clin Immunol. 2023 Aug;43(6):1326-1359. Epub 2023 May 4. **Impact Factor: 8.137**

46. Rush-Kittle J, Gámez-Díaz L, **Grimbacher B**.
Inborn errors of immunity associated with defects of self-tolerance checkpoints: The CD28 family.
Pediatr Allergy Immunol. 2022 Dec;33(12):e13886. **Impact Factor: 5.464**

45. Peng XP, Caballero-Oteyza A, **Grimbacher B**.
Common Variable Immunodeficiency: More Pathways than Roads to Rome.
Annu Rev Pathol. 2023 Jan 24;18:283-310. Epub 2022 Oct 20. **Impact Factor: 32.375**

44. Salzer U, **Grimbacher B.**
TACI deficiency - a complex system out of balance.
Curr Opin Immunol. 2021 Aug;71:81-88. **Impact Factor: 7.290**

43. Ramirez NJ, Posadas-Cantera S, Caballero-Oteyza A, Camacho-Ordonez N, **Grimbacher B.**
There is no gene for CVID - novel monogenetic causes for primary antibody deficiency.
Curr Opin Immunol. 2021 Jun 18;72:176-185. doi: 10.1016/j.coi.2021.05.010. **Impact Factor: 7.290**

42. Gámez-Díaz L, **Grimbacher B**.
Immune checkpoint deficiencies and autoimmune lymphoproliferative syndromes.
Biomed J. 2021 Apr 19:S2319-4170(21)00038-X. Online ahead of print. **Impact Factor: 3.710**

41. Nadezhda Camacho-Ordonez, Esteban Ballestar, H Th Marc Timmers, **Bodo Grimbacher**
What can clinical immunology learn from inborn errors of epigenetic regulators?
J Allergy Clin Immunol. 2021 Feb 17 **Impact Factor: 14.110**

40. Mitsuiki N, Schwab C, **Grimbacher B**.
What did we learn from CTLA-4 insufficiency on the human immune system?
Immunol Rev. 2019 Jan;287(1):33-49. Review. **Impact factor: 9.217**

39. Jung S, Gámez-Díaz L, Proietti M, **Grimbacher B**.
"Immune TOR-opathies," a Novel Disease Entity in Clinical Immunology.
Front Immunol. 2018 May 9;9:966. eCollection 2018. Review. **Impact factor: 6.429**

38. Schmidt RE, **Grimbacher B,** Witte T.
Autoimmunity and primary immunodeficiency: two sides of the same coin?
Nat Rev Rheumatol. 2017 Dec 19;14(1):7-18. Review. **Impact factor: 12.188**

37. **Grimbacher B**, Warnatz K, Yong PF, Korganow AS, Peter HH.
The crossroads of autoimmunity and immunodeficiency: Lessons from polygenic traits and monogenic defects.
J Allergy Clin Immunol. 2016 Jan;137(1):3-17. **Impact factor: 11.476**

36. Verma N, **Grimbacher B**, Hurst JR.
Lung disease in primary antibody deficiency.
Lancet Respir Med. 2015 Jul 15. **Impact Factor: 9.629**

35. Yang L, Fliegauf M, **Grimbacher B**.
Hyper-IgE syndromes: reviewing PGM3 deficiency.
Curr Opin Pediatr. 2014 Dec;26(6):697-703 **Impact Factor: 2.744**

34. Kindle G, Gathmann B, **Grimbacher B.**
The use of databases in primary immunodeficiencies.
Curr Opin Allergy Clin Immunol. 2014 Sep 15. **Impact Factor: 3.400**

33. Engelhardt KR, **Grimbacher B**, Niehues T.
Primary immunodeficiency.
Z Rheumatol. 2013 Sep;72(7):643-52. [German] **Impact Factor: 0.450**

32. Verma N, Thaventhiran A, Gathmann B; for the ESID Registry Working Party, Thaventhiran J, **Grimbacher B.**
Therapeutic Management of Primary Immunodeficiency in Older Patients.
Drug Aging. 2013 Apr 20. **Impact Factor: 2.671**

REVIEW ARTICLES (3)

31. Pieper K, **Grimbacher B**, Eibel H.
B-cell biology and development.
J Allergy Clin Immunol. 2013 Apr;131(4):959-71. **Impact Factor: 12.047**

30. Yong PF, Freeman AF, Engelhardt KR, Holland S, Puck JM, **Grimbacher B.**
An update on the hyper-IgE syndromes.
Arthritis Res Ther. 2012 Nov 30;14(6):228. **Impact Factor: 4.450**

29. Engelhardt KR, **Grimbacher B**.
Mendelian traits causing susceptibility to mucocutaneous fungal infections in human subjects.
J Allergy Clin Immunol. 2012 Feb;129(2):294-305. **Impact Factor: 12.047**

28. Glocker EO, Kotlarz D, Klein C, Shah N, **Grimbacher B**.
IL-10 and IL-10 receptor defects in humans.
Ann N Y Acad Sci. 2011 Dec;1246(1):102-107. **Impact Factor: 2.847**

27. Glocker E, **Grimbacher B.**
Inflammatory bowel disease: is it a primary immunodeficiency?
Cell Mol Life Sci. 2012 Jan;69(1):41-8 **Impact Factor: 7.047**

26. Misbah S, Kuijpers T, van der Heijden J, **Grimbacher B**, Guzman D, Orange J.
Bringing immunoglobulin knowledge up to date: how should we treat today?
Clin Exp Immunol. 2011 Oct;166(1):16-25. **Impact Factor: 3.134**

25. Yong PF, Thaventhiran JE, **Grimbacher B.**
"A rose is a rose is a rose," but CVID is Not CVID: Common Variable Immune Deficiency, what do we know in 2011?
Adv Immunol. 2011;111:47-107. **Impact Factor: 7.195**

24. Glocker EO, **Grimbacher B.**
Mucosal antifungal defence: IL-17 signalling takes centre stage.
Immunol Cell Biol. 2011 Nov;89(8):823-5. **Impact Factor: 3.741**

23. Glocker E, **Grimbacher B**.
Chronic mucocutaneous candidiasis and congenital susceptibility to Candida.
Curr Opin Allergy Clin Immunol. 2010 Dec;10(6):542-50. **Impact Factor: 3.151**

22. Yong PF, Salzer U, **Grimbacher B.**
The role of costimulation in antibody deficiencies: ICOS and common variable immunodeficiency.
Immunol Rev. 2009 May;229(1):101-13. **Impact Factor: 11.761**

21. Yong PF, Chee R, **Grimbacher B.**
Hypogammaglobulinaemia.
Immunol Allergy Clin North Am. 2008 Nov;28(4):691-713, vii. **Impact Factor: 2.524**

20. Chua I, Quinti I, **Grimbacher B**.
Lymphoma in common variable immunodeficiency: interplay between immune dysregulation, infection and genetics.
Curr Opin Hematol. 2008 Jul;15(4):368-74. **Impact Factor: 4.779**

19. Yong PF, Tarzi M, Chua I, **Grimbacher B**, Chee R.
Common variable immunodeficiency: an update on etiology and management.
Immunol Allergy Clin North Am. 2008 May;28(2):367-86, ix-x. **Impact Factor: 2.524**

18. Knerr V, **Grimbacher B**.
Primary immunodeficiency registries.
Curr Opin Allergy Clin Immunol. 2007 Dec;7(6):475-80. **Impact Factor: 3.497**

17. Glocker E, Ehl S, **Grimbacher B**.
Common variable immunodeficiency in children.
Curr Opin Pediatr. 2007 Dec;19(6):685-92. **Impact Factor: 2.494**

16. Schaffer AA, Salzer U, Hammarstrom L, **Grimbacher B**.
Deconstructing common variable immunodeficiency by genetic analysis.
Curr Opin Genet Dev. 2007 Jun;17(3):201-12. **Impact Factor: 9.677**

15. Neumann C, **Grimbacher B**.
Molecular basis of common variable immunodeficiency
Dtsch Med Wochenschr. 2007 Apr 20;132(16):885-7. Review. German **Impact Factor: 0.625**

14. Salzer U, Jennings S, **Grimbacher B.**
To switch or not to switch - the opposing roles of TACI in terminal B cell differentiation.
Eur J Immunol. 2007 Jan; 37(1):17-20. **Impact Factor: 4.865**

13. Salzer U, **Grimbacher B.**
Common variable immunodeficiency: The power of co-stimulation.
Semin Immunol. 2006 Dec; 18(6):337-46. Epub 2006 Oct 4. **Impact Factor: 9.114**

REVIEW ARTICLES (3)

12. Salzer U, **Grimbacher B**.
Monogenetic defects in common variable immunodeficiency: what can we learn about terminal B cell differentiation?
Curr Opin Rheumatol. 2006 Jul; 18(4):377-82. **Impact Factor: 4.689**

11. Salzer U, **Grimbacher B**.
TACItly changing tunes: farewell to a yin and yang of BAFF receptor and TACI in humoral immunity?: New genetic defects in common variable immunodeficiency.
Curr Opin Allergy Clin Immunol. 2005 Dec;5(6):496-503. **Impact Factor: 3.497**

10. **Grimbacher B**, Holland SM, Puck JM.
Hyper-IgE syndromes.
Immunol Rev. 2005 Feb;203:244-50. **Impact Factor: 11.761**

9. Wintergerst U, Gruber R, **Grimbacher B.**
Treatment of primary immune defects
MMW Fortschr Med. 2005 Feb 3;147(5):32-5. [German] **No Impact Factor**

8. Hermann M. Wolf, Ulrich Baumann, Michael Borte, **B. Grimbacher**, Ilka Schulze, Volker Schuster und Michael Weiß.
Humorale Immundefizienz II: Antikörpermangelsyndrome mit bekanntem genetischem Defekt.
Allergologie. 2005 [German] **Impact Factor: 0.175**

7. E. Renner, B. Belohradsky, **B. Grimbacher**.
Hyper-IgE Syndrome
Allergologie. 2005 [German] **Impact Factor: 0.175**

6. **Grimbacher B,** Schaffer AA, Peter HH.
The genetics of hypogammaglobulinemia.
Curr Allergy Asthma Rep. 2004 Sep;4(5):349-58. **Impact Factor: 1.688**

5. Gadola S, Salzer U, Schultz H, **Grimbacher B.**
Adult-onset primary immunodeficiencies
Internist 2004 Aug;45(8):912-22 [German] **Impact Factor: 0.464**

4. Hubert A., U. Baumann, M. Borte, P. Habermehl, I. Schulze, V. Schuster, H. Wolf, und **B. Grimbacher**
Humorale Immundefizienz I: Antikörpermangelsyndrome ohne bekannten genetischen Defekt
Allergologie. 2004, 27:296-310. [German] **Impact Factor: 0.175**

3. **Grimbacher B,** Warnatz K, Peter HH.
The immunological synapse for B-cell memory: the role of ICOS and its ligand for the longevity of humoral immunity.
Curr Opin Allergy Clin Immunol. 2003 Dec;3(6):409-19. **Impact Factor: 3.497**

2. **Grimbacher B,** Belohradsky BH, Holland SM.
Immunoglobulin E in primary immunodeficiency diseases.
Allergy. 2002 Nov;57(11):995-1007. **Impact Factor: 6.204**

1. Renner ED, Belohradsky BH, **Grimbacher B**.
Hyper-IgE syndrom.
Monatsschr Kinderheilkd 2002. 150:1168-1179 [German] **Impact Factor: 0.269**

BOOK CHAPTERS

7. Defects in B Cell Survival and Activation. Yong P.F.K., Dziadzio M., **Grimbacher B.**
in: Encyclopedia of Immunobiology. Ratcliffe M.J.H. 5th edition, Elsevier, Oxford, 2016.

6. The Many Faces of the Hyper-IgE Syndrome. Engelhardt KR and **Grimbacher B**.
in: Primary Immunodeficiency Disorders – A Historic and Scientific Perspective. Etzioni, Ochs, 1st edition, Elsevier, Oxford, 2014

5. Hyper-IgE Recurrent Infection Syndromes. Freeman A. F., **Grimbacher B.**, Engelhardt K. R., Holland S. and Puck J. M.
in: Primary Immunodeficiency Diseases: A Molecular and Genetic Approach. Ochs, Smith, Puck [eds], 3rd edition, Oxford University Press, USA, 2014

4. IL-10 in Humans: Lessons from the Gut, IL-10/IL-10 Receptor Deficiencies, and IL-10 Polymorphisms. Engelhardt KR and **Grimbacher B**.
in: Interleukin-10 in Health and Disease (Current Topics in Microbiology and Immunology). Fillatreau, O'Garra, Springer Berlin Heidelberg, 2014

3. Hyper-IgE-Syndrome. Engelhardt KR and **Grimbacher B**.
in: Klinische Immunologie. Peter HH, Pichler WJ, Müller-Ladner U [Hrsg.] 3. Auflage, Urban & Fischer Verlag, Elsevier, München, 2012

2. Hyper-IgE syndrome. **Grimbacher B.** und Renner E.
in: Pädiatrische Allergologie und Immunologie. Wahn, Seger, Wahn, Holländer [Hrsg] , 4. Auflage, Urban & Fischer Verlag, Elsevier, München, 2006.

1. Immunologisch bedingte Krankheiten: Primäre Immundefekte. **Grimbacher B.** und Wintergerst U.
in: Medizinische Therapie 2005/2006, Schölmerich [Hrsg] 2. Auflage 2005. Springer Verlag Heidelberg.