

Publikationen

Originalarbeiten (Erst- / Letztautorenschaft)

1. Bockstahler M, Fischer A, Goetzke CC, Neumaier HL, Sauter M, Kespohl M, Müller AM, Meckes C, Salbach C, Schenk M, Heuser A, Landmesser U, Weiner J, Meder B, Lehmann L, Kratzer A, Klingel K, Katus HA, **Kaya Z***, **Beling A***. Heart-Specific Immune Responses in an Animal Model of Autoimmune-Related Myocarditis Mitigated by an Immunoproteasome Inhibitor and Genetic Ablation. **Circulation**. 2020 Mar 12. doi: 10.1161/CIRCULATIONAHA.119.043171. Online ahead of print. *: **equally contributed**.
Peer review, Impaktfaktor=23,6
2. Stroikova V, Fischer A, Bockstahler M, Müller AM, Katus HA, **Kaya Z**. Adiponectin deficiency has no effect in murine autoimmune myocarditis. **Cytokine** (2019); 116: 139-149
Peer review, Impaktfaktor=3,0
3. Fischer A, Bockstahler M, Müller AM, Stroikova V, Leib C, Pfitzer G, Katus HA, **Kaya Z**. FN14 Signaling Plays a Pathogenic Role in a Mouse Model of Experimental Autoimmune Myocarditis. **J Card. Fail.** (2019); 25(8): 674-685.
Peer review, Impaktfaktor=3,4
4. Müller AM, Bockstahler M, Hristov G, Weiß C, Fischer A, Korkmaz-Icöz S, Giannitsis E, Poller W, Schultheiss HP, Katus HA, **Kaya Z**. Identification of novel antigens contributing to autoimmunity in cardiovascular diseases. **Clin Immunol.** (2016); 173:64-75.
Peer review, Impaktfaktor=3,4
5. Bangert A; Andrassy M; Volz HC; Müller AM; Leib C; Göser S; Korkmaz S; Jungmann A; Lasitschka F, Pfitzer G; Müller O; Katus HA; **Kaya Z**. Critical role of RAGE and HMGB1 in inflammatory heart disease. **PNAS** (2016) 12;113(2):E155-64.
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6. Müller AM, Bockstahler M, Hristov G, Weiß C, Fischer A, Korkmaz-Icöz S, Giannitsis E, Poller W, Schultheiss HP, Katus HA, **Kaya Z**. Identification of novel antigens contributing to autoimmunity in cardiovascular diseases. **Clin Immunol.** (2016) Sep 12. pii: S1521-6616(16)30370-9. doi: 10.1016/j.clim.2016.09.003.
Peer review, Impaktfaktor=3,4
7. Korkmaz S, Zitron E, Bangert A, Seyler C, Li S, Hegedüs P, Scherer D, Li J, Fink T, Schweizer PA, Giannitsis E, Karck M, Szabó G, Katus HA, **Kaya Z**. Provocation of an autoimmune response to cardiac voltage-gated sodium channel NaV1.5 induces cardiac conduction defects in rats. **J Am Coll Cardiol.** (2013); 62(4): 340-9.
Peer review, Impaktfaktor=20,6
8. Zimmermann O, Homann JM, Bangert A, Müller AM, Hristov G, Goeser S, Wiehe JM, Zittrich S, Rottbauer W, Torzewski J, Pfitzer G, Katus HA, **Kaya Z**. Successful use of mRNA-nucleofection for overexpression of interleukin-10 in murine monocytes/macrophages for anti-inflammatory therapy in a murine model of autoimmune myocarditis. **J Am Heart Assoc.** (2012); 1(6): e003293.
Peer review, Impaktfaktor=4,6
9. Wiehe JM*, **Kaya Z***, Homann J, Wöhrle J, Vogt K, Nguyen T, Rottbauer W, Torzewski J, Fekete N, Rojewski M, Schrezenmeier H, Moepps B, Zimmermann O. GMP-adapted overexpression of CXCR4 in human mesenchymal stem cells for cardiac repair. **Int J Cardiol.** (2013); 167(5): 2073-81. (*: equally contributed).
Peer review, Impaktfaktor=3,2
10. Li J, Göser S, Leuschner S, Volz CH, Buss SJ, Andrassy M, Öttl R, Pfitzer G, Katus HA, **Kaya Z**. Mucosal Tolerance Induction in Autoimmune Myocarditis and Myocardial Infarction. **Int J Cardiol.** (2013); 162(3): 245-52.
Peer review, Impaktfaktor=3,2
11. Leib C, Göser S, Lüthje D, Öttl R, Tretter T, Lasitschka F, Zittrich S, Pfitzer G, Katus HA, **Kaya Z**. The Role of the Cholinergic Anti-inflammatory Pathway in Murine Autoimmune Myocarditis. **Circulation Research.** (2011); 109(2): 130-30.
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12. Volz CH, Buss SJ, Li J, Göser S, Andrassy M, Öttl R, Pfitzer G, Katus HA, **Kaya Z**. Autoimmunity against cardiac troponin I in ischemia/reperfusion injury. *Eur J Heart Fail.* (2011); 13(10): 1052-9.
Peer review, Impaktfaktor=11,6
13. **Kaya Z**, Leib C, Werfel S, Göser S, Öttl R, Leuchs B, Pfitzer G, Katus HA, Müller OJ. Comparison of IL-10 and MCP-1 7ND Gene Transfer with AAV9 Vectors for Protection from Murine Autoimmune Myocarditis. *Cardiovasc Res.* (2011); 91(1): 116-23.
Peer review, Impaktfaktor=8,2
14. **Kaya Z**, Goeser S, Buss SJ, Leuschner F, Öttl R, Li J, Völkens M, Zittrich S, Pfitzer G, Rose NR, Katus HA. Identification of Cardiac Troponin I Sequence Motifs Leading to Heart Failure by Inducing Myocardial Inflammation and Fibrosis. *Circulation.* (2008); 118(20): 2063-72.
Peer review, Impaktfaktor=23,6
15. Leuschner F, Li J, Goeser S, Reinhardt L, Oettl R, Bride P, Zehelein J, Pfitzer G, Remppis A, Giannitsis E, Katus HA, **Kaya Z**. Absence of Auto-Antibodies against Cardiac Troponin I Predicts Improvement of Left Ventricular Function after Acute Myocardial Infarction. *Eur Heart J.* (2008); 29(16): 1949-55.
Peer review, Impaktfaktor=22,7
16. Göser S, Andrassy M, Buss S, Leuschner F, Volz CH, Öttl R, Zittrich S, Blaudeck N, Hardt SE, Pfitzer G, Rose NR, Katus HA, **Kaya Z**. Cardiac troponin I but not cardiac troponin T induces severe autoimmune inflammation in the myocardium. *Circulation.* (2006); 114(16): 1693-1702.
Peer review, Impaktfaktor=23,6
17. **Kaya Z**, Tretter T, Schlichting J, Leuschner F, Afanasyeva M, Katus HA, Rose NR. Complement Receptors Regulate Lipopolysaccharide - induced T cell Stimulation. *Immunology.* (2005); 114(4): 493-498.
Peer review, Impaktfaktor=5,0
18. Göser S, Öttl R, Brodner A, Dengler TJ, Torzewski J, Egashira K, Rose NR, Katus HA, **Kaya Z**. Critical Role for MCP-1 and MIP-1 α in Induction of Experimental Autoimmune Myocarditis (EAM) and Effective Anti-MCP-1 Gene Therapy. *Circulation.* (2005); 112(22): 3400-7.
Peer review, Impaktfaktor=23,6
19. **Kaya Z**, Dohmen KM, Wang Y, Schlichting J, Afanasyeva M, Leuschner F, Rose NR. A critical role for IL-10 in induction of nasal tolerance in experimental autoimmune myocarditis (EAM). *J Immunol.* (2002); 168(4): 1552-1556.
Peer review, Impaktfaktor=4,9
20. **Kaya Z**, Afanasyeva M, Wang Y, Dohmen KM, Schlichting J, Tretter T, Fairweather D, Holers VM, Rose NR. Contribution of the innate immune system to autoimmune myocarditis: A role for complement. *Nature Immunology.* (2001); 2(8): 739-745.
Peer review, Impaktfaktor=20,5

Originalarbeiten (Koautorschaften)

1. Poller W, Haas J, Klingel K, Kühnisch J, Gast M, **Kaya Z**, Escher F, Kayvanpour E, Degener F, Opgen-Rhein B, Berger F, Mochmann HC, Skurk C, Heidecker B, Schultheiss HP, Monserrat L, Meder B, Landmesser U, Klaassen S. Familial Recurrent Myocarditis Triggered by Exercise in Patients With a Truncating Variant of the Desmoplakin Gene. *J Am Heart Assoc.* 2020 May 18;9(10):e015289. doi: 10.1161/JAHA.119.015289. Epub 2020 May 15
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3. Kespohl M, Bredow C, Klingel K, Voß M, Paeschke A, Zickler M, Poller W, **Kaya Z**, Eckstein J, Fechner H, Spranger J, Föhling M, Wirth EK, Radoshevich L, Thery F, Impens F, Berndt N, Knobloch KP, Beling A. Protein Modification With ISG15 Blocks Coxsackievirus Pathology by

- Antiviral and Metabolic Reprogramming. *Sci Adv.* 2020 Mar 11;6(11):eaay1109. doi: 10.1126/sciadv.aay1109. eCollection 2020 Mar.
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 5. Poller W, Haghikia A, Kasner M, **Kaya Z**, Bavendiek U, Wedemeier H, Epple HJ, Skurk C, Landmesser U. Cardiovascular Involvement in Chronic Hepatitis C Virus Infections - Insight from Novel Antiviral Therapies. *J Clin Transl Hepatol.* (2018); 6(2):161-167.
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 7. Poller W, **Kaya Z**, Mucche M, Kasner M, Skurk C, Kappert K, Tauber R, Escher F, Schultheiss HP, Epple HJ, Landmesser U. High incidence of cardiac dysfunction and response to antiviral treatment in patients with chronic hepatitis C virus infection. *Clin Res Cardiol.* (2017); doi: 10.1007/s00392-017-1086-1.
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 15. Volz HC, Laohachewin D, Seidel C, Lasitschka F, Keilbach K, Wienbrandt AR, Andrassy J, Bierhaus A, **Kaya Z**, Katus HA, Andrassy M. S100A8/A9 aggravates post-ischemic heart failure through activation of RAGE-dependent NF- κ B signaling. *Basic Res Cardiol.* (2012); 107(2): 250.

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17. Volz CH, Buss SJ, Li J, Göser S, Andrassy M, Öttl R, Pfitzer G, Katus HA, **Kaya Z**. Autoimmunity against cardiac troponin I in ischemia/reperfusion injury. *Eur J Heart Fail.* (2011); 13(10): 1052-9.
18. Andrassy M, Volz HC, Riedle N, Gitsioudis G, Seidel C, Laohachewin D, Zankl AR, **Kaya Z**, Bierhaus A, Giannitsis E, Katus HA, Korosoglou G. HMGB1 as a Predictor of Infarct Transmurality and Functional Recovery in Patients with Myocardial Infarction. *J Intern Med.* (2011); 270(3): 245-53.
19. Doesch AO, Mueller S, Nelles M, Konstandin M, Celik S, Frankenstein L, Goeser S, **Kaya Z**, Koch A, Zugck C, Katus HA. Impact of troponin I-autoantibodies in chronic dilated and ischemic cardiomyopathy. *Basic Res Cardiol.* (2011); 106(1): 25-35.
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21. Volz HC, Seidel C, Laohachewin D, **Kaya Z**, Müller OJ, Pleger ST, Lasitschka F, Bianchi ME, Remppis A, Bierhaus A, Katus HA, Andrassy M. HMGB1: the missing link between diabetes mellitus and heart failure. *Basic Res Cardiol.* (2010); 105(6): 805-20.
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23. Volz HC, **Kaya Z**, Katus HA, Andrassy M. The role of HMGB1/RAGE in inflammatory cardiomyopathy. *Semin Thromb Hemost.* (2010); 36(2): 185-94.
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26. Hoeger S, Reisenbuechler A, Gottmann U, Doyon F, Braun C, **Kaya Z**, Seelen M.A., van Son W.J., Waldherr R., Schnuelle P., Yard BA. Donor dopamine treatment in brain dead rats is associated with an improvement in renal function early after transplantation and a reduction in renal inflammation. *Transpl Int.* (2008); 21(11): 1072-80.
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Reviews:

1. von Stebut E, Boehncke W-H, Ghoreschi K, Gori T, **Kaya Z**, Thaci D and Schäffler A. IL-17A in Psoriasis and Beyond: Cardiovascular and Metabolic Implications. *Front. Immunol.* (2020); doi: 10.3389/fimmu.2019.03096
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4. Müller AM, Fischer A, Katus HA and **Kaya Z**. Mouse Models of Autoimmune Diseases - Autoimmune Myocarditis. *Curr Pharm Des.* (2015);21(18):2498-512.
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6. Leib C, Katus HA, **Kaya Z**. Cholinergic control of inflammation in cardiovascular diseases. *Trends Cardiovasc Med.* (2013); 23(2): 46-51.
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9. **Kaya Z**, Katus HA. Role of autoimmunity in dilated cardiomyopathy. *Basic Res Cardiol.* (2010); 105(1): 7-8.
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Case Reports

1. Nunes JPL, Faria MS, Sampaio S, Quintas J, Katus HA, **Kaya Z**. Partially reversible cardiomyopathy after renal transplant associated to anti-troponin I antibodies. *Cardiology.* (2013); 126(3): 173-4.
2. **Kaya Z**, Kotzerke J, Keller F. FDG PET diagnosis of septic kidney in a renal transplant patient. *Transpl Int.* (1999); 12:156.

Buchbeiträge

1. Elke C. Calamia and **Ziya Kaya**. Autoimmune myocarditis and pericarditis. *Encyclopedia of Medical Immunology*. 2014; Springer Verlag. ISBN: 978-0-387-84827-3.
2. Ian Mackay & Noel R. Rose. XIII. Cardiovascular System and Lungs – Myocarditis (Noel R. Rose and **Ziya Kaya**). *The Autoimmune Diseases, 5th Edition*. 2013; Academic press / Elsevier. ISBN: 978-0-12-384929-8
3. **Ziya Kaya** and Noel R. Rose. Innate Immunity in Experimental Autoimmune Myocarditis. *Molecular Autoimmunity*. 2005; Springer Verlag. ISBN: 0-387-24533-2.