

# LIST OF PUBLICATIONS

## A) ORIGINAL ARTICLES

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1. Ewert A, Rehberg M, Schlingmann KP, Hiort O, John-Kroegel U, Metzging O, Wühl E, Schaefer F, Kemper MJ, Derichs U, Richter-Unruh A, Patzer L, Albers N, Dunstheimer D, Haberland H, Heger S, Schröder C, Jorch N, Schmid E, Staude H, Weitz M, Freiberg C, **Leifheit-Nestler M**, Zivicnjak M, Schnabel D, Haffner D on behalf of the German Society for Pediatric Nephrology (GPN) and the German Society for Pediatric Endocrinology and Diabetology (DGKED). Effects of burosumab treatment on mineral metabolism in children and adolescents with X-linked hypophosphatemia. *J Clin Endocrinol Metab*, in revision, March 2023
2. Feger M, Alber J, Grund A, **Leifheit-Nestler M**, Haffner D, Föller M. Short-term fasting of mice elevates circulating fibroblast growth factor 23. *Acta Physiol*, in revision, March 2023
3. Bacchetta J, Schmitt CP, Bakkaloglu SA, Cleghorn S, **Leifheit-Nestler M**, Prytula A, Ranchin B, Schön A, Stabouli S, Van de Walle J, Vidal E, Haffner D, Shroff R. Diagnosis and management of mineral and bone disorders in infants with CKD: clinical practice points from the ESPN CKD-MBD and Dialysis working groups and the Pediatric Renal Nutrition Taskforce. *Pediatr Nephrol* 2023; Feb 4 online ahead of print
4. Richter B, Kapanadze T, Weingärtner N, Walter S, Vogt I, Grund A, Schmitz J, Bräsen JH, Limbourg FP, Haffner D, **Leifheit-Nestler M**. High phosphate-induced progressive proximal tubular injury is associated with the activation of Stat3/Kim-1 signaling pathway and macrophage recruitment. *FASEB J* 2022;36:e22407
5. Eitner F, Richter B, Schwänen S, Szaroszyk M, Vogt I, Grund A, Thum T, Heineke J, Haffner D, **Leifheit-Nestler M**. Comprehensive expression analysis of cardiac fibroblast growth factor 23 in health and pressure-induced cardiac hypertrophy. *Front Cell Dev Biol* 2022;9:791479
6. **Leifheit-Nestler M**, Wagner MA, Richter B, Piepert C, Eitner F, Boeckmann I, Vogt I, Grund A, Hille S, Foinquinos A, Zimmer K, Thum T, Müller OJ, Haffner D. Cardiac FGF23 excess does not induce left ventricular hypertrophy in healthy mice. *Front Cell Dev Biol* 2021;9:745892
7. Bakkaloglu S, Bacchetta J, AD Lalayiannis, **Leifheit-Nestler M**, Stabouli S, Haarhaus M, et al for the ESPN CKD-MBD working group. Bone evaluation in paediatric chronic kidney disease. *Nephrol Dial Transplant* 2021;36:413-425
8. Schoen A\*, **Leifheit-Nestler M\***, Deppe J, Fischer DC, Bayazit AK, Obrycki L, et al for the 4C Study consortium and the ESPN CKD-MBD working group. Active vitamin D is cardioprotective in experimental uraemia but not in children with CKD stages 3-5. *Nephrol Dial Transplant* 2021;36:442-451; \*shared first authorship
9. Ewert A, **Leifheit-Nestler M**, Hohenfellner K, Büscher A, Kemper M, Oh J, et al. Bone and mineral metabolism in children with nephropathic cystinosis compared with other CKD entities. *J Clin Endocrinol Metab* 2020;105:e2738-e2752
10. Kranaster L, Hoyer C, Mindt S, Neumaier M, Müller N, Zill P, ..., **Leifheit-Nestler M**, et al. The novel seizure quality index fort he antidepressant outcome prediction in electroconvulsive therapy: association with biomarkers in the cerebrospinal fluid. *Eur Arch Psychiatry Clin Neurosci* 2020;270:911-919
11. Böckmann I, Lischka J, Richter B, Deppe J, Rahn A, Fischer DC, Heineke J, Haffner D, **Leifheit-Nestler M**. FGF23-mediated activation of RAAS promotes cardiac hypertrophy and fibrosis. *Int J Mol Sci* 2019;20:4634
12. Sartorius A, Gilles M, Pfeifer AM, Deuschle M, Hoyer C, Haffner D, **Leifheit-Nestler M**, Kranaster L. Peripheral levels of anti-aging hormone Klotho in patients with depression. *J Neural Transm (Vienna)* 2019;126:771-776
13. Kranaster L, Hoyer C, Aksay SS, Bumb JM, Müller N, Zill P, Schwarz MJ, Moll N, Lutz B, Bindila L, Zerr I, Schmitz M, Blennow K, Zetterberg H, Haffner D, **Leifheit-Nestler M**, Ozbalci C, Janke C, Thiel M, Sartorius A. Biomarker of Antidepressant Efficacy of Electroconvulsive Therapy: An Exploratory Cerebrospinal Fluid Study. *Neuropsychobiology* 2019;77:13-22

14. **Leifheit-Nestler M**, Richter B, Basaran M, Nespor J, Vogt I, Alesutan I, Voelkl J, Lang F, Heineke J, Krickx, Haffner D. Impact of altered mineral metabolism on pathological cardiac remodeling in elevated fibroblast growth factor 23. *Front Endocrinol (Lausanne)* 2018;9:333
15. Ruben S, Kreuzer M, Büscher A, Büscher R, Thumfart J, Querfeld U, Staude H, Ahlenstiel-Grunow T, Melk A, Fischer DC, **Leifheit-Nestler M**, Pape L, Haffner D. Impaired microcirculation in children after kidney transplantation: Everolimus versus myophenolate based immunosuppression regimen. *Kidney Blood Press Res* 2018;43:793-806
16. Lerch C, Shroff R, Wan M, Rees L, Aitkenhead H, Bulut IP, Thurn D, Bayazit AK, Nimierska A, Canpolat N, Duzova A, Azukaitis K, Yimaz E, Yalcinkaya F, Harambat J, Kiyak A, Alpay H, Anarat A, Habbig S, Wygoda S, Zaloszyk A, Soylemezoglu O, Caliskan S, Baskin E, Candan C, Rosales A, Melk A, Querfeld U, **Leifheit-Nestler M**, Sander A, Schaefer F, Haffner D for the 4C Study consortium and the ESPN CKD-MBD working group. Effects of nutritional vitamin D supplementation on markers of bone and mineral metabolism in children with CKD. *Nephrol Dial Transplant* 2018;33:2208-2217
17. **Leifheit-Nestler M**, Kirchhoff F, Nespor J, Richter B, Soetje B, Klintschar M, Heineke J, Haffner D. FGF23 is induced by activated renin-angiotensin-aldosterone system in cardiac myocytes and promotes the pro-fibrotic crosstalk between cardiac myocytes and fibroblasts. *Nephrol Dial Transplant* 2018;33:1722-1734
18. Hoyer C, Sartorius A, Aksay SS, Bumb JM, Janke C, Thiel M, Haffner D, **Leifheit-Nestler M\***, Kranaster L\*. Electroconvulsive therapy enhances the anti-ageing hormone Klotho in the cerebrospinal fluid of patients with major depression. *Eur Neuropsychopharmacol* 2018;28:428-435. \*shared last authorship
19. **Leifheit-Nestler M**, Kucka J, Yoshizawa E, Behets G, D'Haese P, Bergen C, Meier M, Fischer DC, Haffner D. Comparison of calcimimetic R568 and calcitriol in mineral homeostasis in the Hyp mouse, a murine homolog of X-linked hyperphosphatemia. *Bone* 2017;103:224-232
20. **Leifheit-Nestler M**, Grabner A, Hermann L, Richter B, Schmitz K, Fischer DC, Yanucil C, Faul C, Haffner D. Vitamin D treatment attenuates cardiac FGF23/FGFR4 signaling and hypertrophy in uremic rats. *Nephrol Dial Transplant* 2017;32:1493-1503
21. Kreuzer M, Sollmann L, Ruben S, **Leifheit-Nestler M**, Fischer DC, Pape L, Haffner D. Endothelial dysfunction during long-term follow-up in children with STEC hemolytic-uremic syndrome. *Pediatr Nephrol* 2017;32:1005-1011
22. Richter B, Haller J, Haffner D, **Leifheit-Nestler M**. Klotho modulates FGF23-mediated NO synthesis and oxidative stress in human coronary artery endothelial cells. *Pflugers Arch – Eur J Physiol* 2016;468:1621-1635
23. Kunert SK, Hartmann H, Haffner D, **Leifheit-Nestler M**. Klotho and Fibroblast Growth Factor 23 in Cerebrospinal Fluid in Children. *J Bone Mineral Metab* 2017;35:215-226
24. Hensel N, Schön A, Konen T, Lübben V, Förthmann B, Baron O, Grothe C, **Leifheit-Nestler M\***, Claus P\*, Haffner D\*. Fibroblast growth factor 23 signaling in hippocampal cells: Impact on neuronal morphology and synaptic density. *J Neurochem* 2016;137:756-769. \*shared last authorship
25. **Leifheit-Nestler M**, große Siemer R, Flasbart K, Richter B, Kirchhoff K, Ziegler WH, Klintschar M, Becker JU, Erbersdobler A, Aufricht C, Seeman T, Fischer DC, Faul C, Haffner D. Induction of cardiac FGF23/FGFR4 expression is associated with left ventricular hypertrophy in patients with chronic kidney disease. *Nephrol Dial Transplant* 2016;31:1088-1099
26. Grabner A, Amaral AP, Schramm K, Singh S, Sloan A, Yanucil C, Li J, Shehadeh LA, Hare JM, David V, Martin A, Fornoni A, Di Marco GS, Kentrup D, Reuter S, Mayer AB, Pavenstädt H, Stypmann J, Kuhn C, Hille S, Frey N, **Leifheit-Nestler M**, Richter B, Haffner D, Abraham R, Bange J, Sperl B, Ullrich A, Brand M, Wolf M, Faul C. Activation of Cardiac Fibroblast Growth Factor Receptor 4 Causes Left Ventricular Hypertrophy. *Cell Metab* 2015;22:1020-1032
27. **Leifheit-Nestler M**, Wagner NM, Gogiraju R, et al. Importance of leptin signaling and signal transducer and activator of transcription-3 activation in mediating the cardiac hypertrophy associated with obesity. *J Transl Med* 2013;11:170-182

28. Schroeter MR, **Leifheit-Nestler M**, Hubert A, et al. Leptin promotes neointima formation and smooth muscle cell proliferation via NADPH oxidase activation and signalling in caveolin-rich microdomains. *Cardiovasc Res* 2013;99:555-565
29. Schroeter MR, Eschholz N, Herzberg S, Jerchel I, **Leifheit-Nestler M**, Czepluch FS, et al. Leptin-dependent and leptin-independent paracrine effects of perivascular adipose tissue on neointima formation. *Arterioscler Thromb Vasc Biol* 2013;33:980-987
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31. **Leifheit-Nestler M**, Conrad G, Heida NM, et al. Overexpression of integrin beta 5 enhances the paracrine properties of circulating angiogenic cells via Src kinase-mediated activation of STAT3. *Arterioscler Thromb Vasc Biol* 2010;30:1398-1406
32. Heida NM, Müller JP, Cheng IF, **Leifheit-Nestler M**, et al. Effects of obesity and weight loss on the functional properties of early outgrowth endothelial progenitor cells. *J Am Coll Cardiol* 2010;55:357-367
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34. Schroeter MR, **Leifheit M**, Sudholt P, et al. Leptin enhances the recruitment of endothelial progenitor cells into neointimal lesions after vascular injury by promoting integrin-mediated adhesion. *Circ Res* 2008;103:536-544
35. Dellas C, Schäfer K, Rohm IK, Lankeit M, **Leifheit M**, Loskutoff DJ, et al. Leptin signaling and leptin-mediated activation of human platelets: importance of JAK2 and the phospholipases Cgamma2 and A2. *Thromb Haemost* 2007;98:1063-1071

## B) REVIEWS

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1. Haffner D, **Leifheit-Nestler M**, Grund A, Schnabel D. Rickets guidance: part II – Management. *Pediatr Nephrol* 2022;37:2289-2302
2. Printza N, Dotis J, Sinha M, **Leifheit-Nestler M**. Editorial: Mineral and Bone Disorders in CKD. *Front Pediatr* 2022;10:856656
3. Haffner D, **Leifheit-Nestler M**, Alioli C, Bacchetta J. Muscle and bone impairment in infantile nephropathic cystinosis: new concepts. *Cells* 2022;11:170
4. Haffner D, **Leifheit-Nestler M**, Grund A, Schnabel D. Rickets guidance: part I – Diagnostic workup. *Pediatr Nephrol* 2022;37:2013-2036
5. **Leifheit-Nestler M**, Haffner D. How FGF23 shapes multiple organs in chronic kidney disease. *Mol Cell Pediatr* 2021;8:12
6. Grund A, Sinha MD, Haffner D, **Leifheit-Nestler M**. Fibroblast growth factor 23 and left ventricular hypertrophy in chronic kidney disease – A pediatric perspective. *Front Pediatr* 2021;9:702719
7. Haffner D, Grund A, **Leifheit-Nestler M**. Renal effects of growth hormone in health and kidney disease. *Pediatr Nephrol* 2021;36:2511-2530
8. Haffner D and **Leifheit-Nestler M**. CKD-MBD post kidney transplantation. *Pediatr Nephrol* 2021;36:41-50
9. Haffner D and **Leifheit-Nestler M**. Treatment of hyperphosphatemia: The dangers of aiming for normal PTH levels. *Pediatr Nephrol* 2020;35:485-491
10. Vogt I, Haffner D and **Leifheit-Nestler M**. FGF23 and phosphate – Cardiovascular toxins in CKD. *Toxins* 2019;11:647
11. **Leifheit-Nestler M** and Haffner D. Paracrine effects of FGF23 on the heart. *Front Endocrinol (Lausanne)* 2018;9:278

12. Haffner D and **Leifheit-Nestler M**. Extrarenal effects of FGF23. *Pediatr Nephrol* 2017;32:753-765

### C) BOOK CHAPTER

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1. **Leifheit-Nestler M**, Vogt I, Haffner D, Richter B. Phosphate is a Cardiovascular Toxin. Springer Nature text book: Phosphate Dysregulation; Book series: *Adv Exp Med and Biol* 2022;1362:107-134
2. **Leifheit-Nestler M**. Chapter: Pathophysiologische Grundlagen der X-chromosomalen Hyperphosphatämie. Book: X-chromosomale Hypophosphatämie – Phosphatdiabetes - XLH. *UNI-MED Science* 2022, ISBN 978-3-8374-2442-3
3. **Leifheit-Nestler M**, Richter B, Haffner D. Chapter 10: FGF23 and heart and vascular disease. Book: Fibroblast Growth Factor 23. *Elsevier* 2021, ISBN 9780128180365

### D) PUBLISHED ABSTRACTS (NATIONAL AND INTERNATIONAL MEETINGS)

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#### German Society of Pediatric Nephrology (GPN), Annual Meetings 2014-2023

1. **Leifheit-Nestler M**, Grund A, Vogt I, Richter B, Haffner D. Etelcalcetid verbessert die systolische Herzfunktion bei Mäusen unter Hochphosphatdiät. [Abstract] *Nieren- und Hochdruckkrankheiten* 2023;52(x):x. *Short Oral Presentation*
2. Pott V, Kanzelmeyer N, Baumann U, Memaran N, von der Born J, Melk A, Das AM, Druber J, Haffner D, **Leifheit-Nestler M**. Pädiatrische Referenzwerte für Parameter und Regulatoren der Phosphathomöostase. [Abstract] *Nieren- und Hochdruckkrankheiten* 2023;52(x):x. *Short Oral Presentation*
3. Lahring J, Ewert A, Tietze H, Pott V, Köppl C, Herzig N, Hohenfellner K, Haffner D, **Leifheit-Nestler M**. Vergleich des Knochenstoffwechsels von Kindern und Erwachsenen mit Nephropatischer Cystinose. [Abstract] *Nieren- und Hochdruckkrankheiten* 2023;52(x):x. *Short Oral Presentation*
4. Walles F, Weingärtner N, Richter B, Haffner D, **Leifheit-Nestler M**. Phosphat induziert die Entstehung tertiärer lymphoider Strukturen in der Niere. [Abstract] *Nieren- und Hochdruckkrankheiten* 2023;52(x):x. *Oral Presentation*
5. Vogt I, Richter B, Walter S, Kapanadze T, Schmitz J, Bräsen JH, Schmitt R, Limbourg FP, Haffner D, **Leifheit-Nestler M**. Eine hohe Phosphatlast verursacht eine Schädigung des proximalen Tubulus mit Inflammation und Fibrose. [Abstract] *Nieren- und Hochdruckkrankheiten* 2021;50(9):367. *Poster Presentation*
6. Richter B, Walter S, Vogt I, Schmitt R, Haffner D, **Leifheit-Nestler M**. Bei chronischer Phosphatbelastung führt die renale Aktivierung von PiT-2/ERK1/2 unabhängig von FGF23 zur Internalisierung von NaPi-2a in proximalen Tubuluszellen. [Abstract] *Nieren- und Hochdruckkrankheiten* 2021;50(9):366. *PosterPresentation*
7. **Leifheit-Nestler M**, Vogt I, Richter B, Grund A, Wagner M, Bariani M, Eitner F, Thum T, Müller OJ, Haffner D. Hohes Phosphat trägt über die O-Glykosylierung von kardialem FGF23 zur Induktion pathologischer kardialer Veränderungen bei. [Abstract] *Nieren- und Hochdruckkrankheiten* 2021;50(9):354. *Oral Presentation*
8. **Leifheit-Nestler M**, Schön A, Deppe J, Bayazit AK, Obrycki L, Canpolat N, et al. Effects of active vitamin D on uremic cardiomyopathy and the klotho/FGF23 system in pediatric CKD and experimental uremia. [Abstract] *Nieren- und Hochdruckkrankheiten* 2020;49(3):95. *Short Oral Presentation*
9. Vogt I, Walter S, Veenstra AC, Kapanadze T, Schmitz J, Bräsen JH, Limbourg F, Haffner D, **Leifheit-Nestler M**. Chronic high phosphate load causes renal injury in healthy mice. [Abstract] *Nieren- und Hochdruckkrankheiten* 2020;49(3):126. *Short Oral Presentation*

10. Ewert A, **Leifheit-Nestler M**, Hohenfellner K, Büscher A, Kemper M, Oh J, et al. Bone and mineral metabolism in children with nephropathic cystinosis compared to other CKD entities. [Abstract] *Nieren- und Hochdruckkrankheiten* 2020;49(3):130. *Oral Presentation*
11. **Leifheit-Nestler M**, Wagner MA, Richter B, Böckmann I, Foinquions A, Thum T, Meier M, Müller OJ, Haffner D. Cardiotoxic effects of FGF23 – Is FGF23 really the bad guy? [Abstract] *Nieren- und Hochdruckkrankheiten* 2019;48(3):106. *Oral Presentation*
12. **Leifheit-Nestler M**, Schmaltz S, Richter B, Meier M, Szaroszyk M, Heineke J, Foinquions A, Thum T, Haffner D. Conditional cardiac FGF23 knockout results in impaired heart function and enhanced mortality. [Abstract] *Nieren- und Hochdruckkrankheiten* 2019;48(3):166. *Short Oral Presentation*
13. **Leifheit-Nestler M**, Richter B, Kirchhoff F, Nespör J, Heineke J, Haffner D. Renin-angiotensin-aldosterone system is activated by FGF23 in the heart and associates with myocardial fibrosis in dialysis patients. [Abstract] *Nieren- und Hochdruckkrankheiten* 2018;47(2):77. *Short Oral Presentation*
14. **Leifheit-Nestler M**, Richter B, Basaran M, Alesutan I, Voelkl J, Lang F, Krick S, Haffner D. Impact of serum phosphate on pathological cardiac remodeling in two animal models of FGF23 excess and klotho deficiency. [Abstract] *Nieren- und Hochdruckkrankheiten* 2018;47(2):91. *Oral Presentation*
15. Wagner M, Richter B, Cuykens K, Piepert C, Müller O, Haffner D, **Leifheit-Nestler M**. Cardiac specific overexpression of FGF23 impaires cardiac function in mice. [Abstract] *Nieren- und Hochdruckkrankheiten* 2018;47(2):103. *Short Oral Presentation*
16. Schmaltz S, Szaroszyk M, Heineke J, Haffner D, **Leifheit-Nestler M**. Impact of cardiac FGF23 on pressure overload-induced myocardial hypertrophy in mice. [Abstract] *Nieren- und Hochdruckkrankheiten* 2018;47(2):93. *Short Oral Presentation*
17. Böckmann I, Zeaiter N, Heineke J, Haffner D, **Leifheit-Nestler M**. Novel role of renin-angiotensin-aldosterone system in FGF23-mediated cardiac hypertrophy and fibrosis. [Abstract] *Nieren- und Hochdruckkrankheiten* 2018;47(2):56. *Short Oral Presentation*
18. **Leifheit-Nestler M**, Grabner A, Hermann L, Richter B, Nespör J, Heineke J, Fischer DC, Faul C, Haffner D. Vitamin D therapy and FGF23 levels in experimental uremia: A paradox for the cardiovascular outcome? [Abstract] *Nieren- und Hochdruckkrankheiten* 2016;45(2):75-76. *Oral Presentation*
19. Richter B, Haffner D, **Leifheit-Nestler M**. FGF23 and Klotho promote nitric oxide release in human coronary artery endothelial cells in vitro. [Abstract] *Nieren- und Hochdruckkrankheiten* 2016;45(2):85-86. *Poster Presentation*
20. Ruben S, Kreuzer M, Büscher R, Staude H, Thumfart J, Querfeld U, Melk A, **Leifheit-Nestler M**, Fischer DC, Pape L, Büscher A, Haffner D. Endothelfunktion und Gefäßsteifigkeit nach Nierentransplantation: Everolimus + low dose Calcineurininhibitor vs. Standardimmunsuppression. [Abstract] *Nieren- und Hochdruckkrankheiten* 2016;45(2):87-88. *Oral Presentation*
21. Basaran M, Völkl J, Haffner D, Lang F, **Leifheit-Nestler M**. The role of fibroblast growth factor 23 in left ventricular hypertrophy in a mouse model of Klotho deficiency. [Abstract] *Nieren- und Hochdruckkrankheiten* 2015;44(2):42. *Oral Presentation*
22. Basaran M, Haffner D, **Leifheit-Nestler M**. Cardiac fibroblast growth factor 23 signaling in a mouse model of X-linked hypophosphatemia (XLH): effect of vitamin D therapy. [Abstract] *Nieren- und Hochdruckkrankheiten* 2015;44(2):42. *Poster Presentation*
23. Hermann L, Fischer DC, Haffner D, **Leifheit-Nestler M**. Vitamin D treatment ameliorates fibroblast growth factor 23 driven left ventricular hypertrophy in experimental uremia. [Abstract] *Nieren- und Hochdruckkrankheiten* 2015;44(2):62. *Oral Presentation*
24. **Leifheit-Nestler M**, Kirchhoff F, Haffner D. The impact of cardiac fibroblast growth factor 23 expression on myocardial fibrosis in patients with chronic kidney disease. [Abstract] *Nieren- und Hochdruckkrankheiten* 2015;44(2):70. *Oral Presentation*

25. **Leifheit-Nestler M**, Große Siemer R, Flasbart K, Richter B, Seeman T, Aufricht C, Ziegler WH, Fischer DC, Faul C, Haffner D. Involvement of fibroblast growth factor 23, FGF receptor 4 and Klotho myocardial expression in cardiorenal syndrome. [Abstract] *Nieren- und Hochdruckkrankheiten* 2015;44(2):77. *Oral Presentation*
26. Richter B, Haller J, Ziegler WH, Haffner D, **Leifheit-Nestler M**. Fibroblast growth factor 23 affects endothelial function according to  $\alpha$ -Klotho availability in human vascular endothelial cells *in vitro*. [Abstract] *Nieren- und Hochdruckkrankheiten* 2015;44(2):89. *Poster Presentation*
27. Sollmann L, Kreuzer M, **Leifheit-Nestler M**, Fischer DC, Pape L, Haffner D. Kinder mit typischem hämolytisch-urämischem Syndrom weisen noch Jahre nach der akuten Phase eine endotheliale Dysfunktion auf. [Abstract] *Nieren- und Hochdruckkrankheiten* 2015;44(2):96. *Poster Presentation*
28. Yoshizawa E, Fischer DC, Haffner D, **Leifheit-Nestler M**. Differential Effects of the Calcimimetic R-568 and Calcitriol on the FGF23-Vitamin D-PTH Axis in the Hyp Mouse as an Animal Model of Post-Transplant Hypophosphatemia. [Abstract] *Nieren- und Hochdruckkrankheiten* 2015;44(2):107-108. *Poster Presentation*
29. Große Siemer R\*, **Leifheit-Nestler M\***, Flasbart K, Fischer DC, Klintschar M, Becker JU, et al. Cardiac FGF23 expression is associated with left ventricular hypertrophy in pediatric patients with chronic kidney disease. [Abstract] *Nieren- und Hochdruckkrankheiten* 2014;43(2):50. (\*contributed equally) *Oral Presentation*
30. Kunert S\*, **Leifheit-Nestler M\***, Hartmann H, Haffner D. Cerebrospinal fluid FGF23 and Klotho are blood and brain-derived and associated with gender, height and vitamin D status in children with normal renal function. [Abstract] *Nieren- und Hochdruckkrankheiten* 2014;43(2):74. (\*contributed equally) *Poster Presentation*
31. Haller J, Richter B, Haffner D, **Leifheit-Nestler M**. FGF23 regulates endothelial function via secretion of soluble  $\alpha$ -klotho in human vascular endothelial cell *in vitro*. [Abstract] *Nieren- und Hochdruckkrankheiten* 2014;43(2):49-50. *Oral Presentation*
32. Schön A, Hensel N, Baron O, Grothe C, Claus P, Haffner D, **Leifheit-Nestler M**. Endocrine FGF23 acting on hippocampal neurons: impact on neuronal morphology and synapse formation. [Abstract] *Nieren- und Hochdruckkrankheiten* 2014;43(2):58. *Oral Presentation*
33. Kreuzer M, Ruben S, **Leifheit-Nestler M**, Melk A, Fischer DC, Haffner D. Skin microcirculation is impaired in about half of patients after pediatric kidney transplantation. [Abstract] *Nieren- und Hochdruckkrankheiten* 2014;43(2):55-56. *Oral Presentation*

### **European Society for Paediatric Nephrology (ESPN) and International Pediatric Nephrology Association (IPNA), Annual Meetings 2014-2023**

1. **Leifheit-Nestler M**, Pott V, Tietze H, Kanzelmeyer N, Baumann U, Memaran N, von der Born J, Melk A, Das AM, Schnabel D, Drube J, Haffner D. Age-related pediatric reference values for parameter of phosphate homeostasis, intact fibroblast growth factor 23 and soluble Klotho. 55<sup>th</sup> Annual Meeting of the ESPN, Vilnius, Lithuania, 28.09.-01.10.2023. Abstract submitted.
2. **Leifheit-Nestler M**, Walter S, Walles F, Richter B, Haffner D. High inorganic phosphate intake causes renal phosphate wasting by PiT-2/ERK1/2 mediated downregulation of NPT2a. 55<sup>th</sup> Annual Meeting of the ESPN, Vilnius, Lithuania, 28.09.-01.10.2023. Abstract submitted.
3. **Leifheit-Nestler M**, Grund A, Haffner D. Etelcalcetide improves systolic cardiac function, myocardial fibrosis and impaired cardiomyocyte contractility in mice exposed to chronic high phosphate load. 55<sup>th</sup> Annual Meeting of the ESPN, Vilnius, Lithuania, 28.09.-01.10.2023. Abstract submitted.
4. Böckmann I, **Leifheit-Nestler M**, John U, Metzging O, Rehberg M, Schlingmann KP et al. Kidney health in children with X-linked hypophosphatemia: A real-world study in Germany and Switzerland. 55<sup>th</sup> Annual Meeting of the ESPN, Vilnius, Lithuania, 28.09.-01.10.2023. Abstract submitted.

5. Weingärtner N, Richter B, Walles F, Kapanadze T, Limbourg FP, Haffner D, **Leifheit-Nestler M**. High phosphate diet induces tertiary lymphoid structures in the kidney of mice. 55<sup>th</sup> Annual Meeting of the ESPN, Vilnius, Lithuania, 28.09.-01.10.2023. Abstract submitted.
6. Walles F, Richter B, Weingärtner N, Bräsen JH, Haffner D, **Leifheit-Nestler M**. Etelcalcetide ameliorates the progression of high phosphate diet induced tubular injury in mice. 55<sup>th</sup> Annual Meeting of the ESPN, Vilnius, Lithuania, 28.09.-01.10.2023. Abstract submitted.
7. Lahring J, Ewert A, Köppl C, Herzig N, Büscher A, Thumfart J, Hohenfellner K, Haffner D, **Leifheit-Nestler M**. Bone and mineral metabolism in children and adults with nephropathic cystinosis. 55<sup>th</sup> Annual Meeting of the ESPN, Vilnius, Lithuania, 28.09.-01.10.2023. Abstract submitted.
8. Richter GS, Grund A, Haffner D, **Leifheit-Nestler M**. Chronic high phosphate load causes left ventricular dilatation associated with impaired cardiomyocyte contractility and increased fibrosis in mice. 55<sup>th</sup> Annual Meeting of the ESPN, Vilnius, Lithuania, 28.09.-01.10.2023. Abstract submitted.
9. **Leifheit-Nestler M**, Vogt I, Grund A, Richter B, Garrido AM, Heineke J, Haffner D. High phosphate diet causes left ventricular dilatation and cardiomyocyte hypercontractility in mice. 19<sup>th</sup> Congress of the International Pediatric Nephrology Association (IPNA), Calgary, Canada, 07.-11.09.2022. Oral Presentation OP-0281.
10. **Leifheit-Nestler M**, Vogt I, Grund A, Richter B, Haffner D. Treatment with calcimimetic AMG416 improves high phosphate diet-induced cardiac dysfunction in mice. 19<sup>th</sup> Congress of the International Pediatric Nephrology Association (IPNA), Calgary, Canada, 07.-11.09.2022. Poster P2-272.
11. Böckmann I, **Leifheit-Nestler M**, John U, Metzinger O, Rehberg M, Schlingmann KP et al. Renal comorbidities in pediatric XLH patients in the German XLH registry / cohort study. 19<sup>th</sup> Congress of the International Pediatric Nephrology Association (IPNA), Calgary, Canada, 07.-11.09.2022. Poster P1-042.
12. Richter B, Weingärtner N, Vogt I, Walter S, Kapanadze T, Limbourg FP, Haffner D, **Leifheit-Nestler M**. Characterization of tertiary lymphoid structures in a phosphate-induced renal injury mouse model. 19<sup>th</sup> Congress of the International Pediatric Nephrology Association (IPNA), Calgary, Canada, 07.-11.09.2022. Poster P2-288.
13. Richter B, Kapanadze T, Weingärtner N, Walter S, Vogt I, Grund A, Schmitz J, Bräsen JH, Limbourg FP, Haffner D, **Leifheit-Nestler M**. Proximal tubular injury induced by dietary phosphate load is linked to Stat3/Kim-1 signaling and macrophage recruitment in mice. 19<sup>th</sup> Congress of the International Pediatric Nephrology Association (IPNA), Calgary, Canada, 07.-11.09.2022. Poster P2-424.
14. **Leifheit-Nestler M**, Vogt I, Grund A, Richter B, Bariani M, Wagner M, Eitner F, Thum T, Müller OJ, Haffner D. Phosphate stabilizes cardiac FGF23 via Galnt3 and thereby worsens cardiac function. [Abstract] *Pediatr Nephrol* 2021;36:3289. *Oral Presentation*
15. Vogt I, Walter S, Kapanadze T, Schmitz J, Bräsen JH, Schmitt R, Limbourg FP, Haffner D, Richter B, **Leifheit-Nestler M**. Inflammatory response to chronic high dietary phosphate-induced proximal tubular injury in mice. [Abstract] *Pediatr Nephrol* 2021;36:3301. *Oral Presentation*
16. Richter B, Walter S, Vogt I, Haffner D, **Leifheit-Nestler M**. Renal activation of PiT-2/ERK1/2 signaling by phosphate mediates internalization of NaPi-2a in the proximal tubule independent of FGF23. [Abstract] *Pediatr Nephrol* 2021;36:3304. *Oral Presentation*
17. Kreuzer M, Mohamad L, Leifheit-Nestler M, Haffner D. Endothelial dysfunction is common in children with CKD stage III-V. [Abstract] *Pediatr Nephrol* 2021;36:3392. *Short Oral Presentation*
18. **Leifheit-Nestler M**, Wagner MA, Richter B, Boeckmann I, Vogt I, Foinquinos A, Thum T, Meier M, Müller OJ, Haffner D. Cardiac-specific overexpression of FGF23 does not lead to a pathological cardiac phenotype in mice. [Abstract] *Pediatr Nephrol* 2019;34:1966. *Oral Presentation*

19. Boeckmann I, Lischka J, Richter B, Hermann L, Deppe J, Heineke J, Fischer DC, Haffner D, **Leifheit-Nestler M**. FGF23 induces cardiac hypertrophy and fibrosis via activation of RAAS. [Abstract] *Pediatr Nephrol* 2019;34:1967. *Oral Presentation*
20. Schöne A, **Leifheit-Nestler M**, Bayazit A, Obrycki L, Canpolat N, Kaplan Bulut I, Azukaitis K, Stangl G, Baur AC, Behnisch R, Shroff R, Bacchetta J, Querfeld U, Schaefer F, Haffner D for the 4C Study consortium and the ESPN CKD-MBD working group. Effects of active vitamin D on left ventricular hypertrophy and klotho/FGF23 system in pediatric CKD. [Abstract] *Pediatr Nephrol* 2019;34:2017. *Poster Presentation*
21. Ewert A, **Leifheit-Nestler M**, Hohenfellner K, Büscher A, Kemper M, Oh J, Billing H, Thumfart J, Stangl G, Weber LT, Acham-Roschitz B, Arbeiter K, Tönshoff B, Zivicnjak M, Haffner D. Bone and mineral metabolism in children with nephropathic cystinosis compared to other CKD entities. [Abstract] *Pediatr Nephrol* 2019;34:2045. *Poster Presentation – Poster prize winner*
22. **Leifheit-Nestler M**, Kirchhoff F, Nesporek J, Richter B, Heineke J, Haffner D. Cardiac FGF23 is stimulated by active renin-angiotensin-aldosterone system and induces a pro-fibrotic crosstalk between cardiac myocytes and fibroblasts. [Abstract] *Pediatr Nephrol* 2017;32:1713. *Poster Presentation*
23. **Leifheit-Nestler M**, Richter B, Basaran M, Alesutan I, Voelkl J, Lang F, Haffner D. Impact of FGF23 excess and klotho deficiency on cardiac remodeling: lessons from two mouse models. [Abstract] *Pediatr Nephrol* 2017;32:1714. *Poster Presentation*
24. Richter B, Haller J, Haffner D, **Leifheit-Nestler M**. Klotho modulates FGF23-mediated NO synthesis and oxidative stress in human coronary artery endothelial cells. [Abstract] *Pediatr Nephrol* 2016;31:1985-2012. *Oral Presentation FP-S25-03 - Trainee award session*
25. **Leifheit-Nestler M**, Grabner A, Hermann L, Richter B, Fischer DC, Faul C, Haffner D. Calcitriol treatment ameliorates FGF23/FGFR4-induced cardiac myocyte hypertrophy in vitro and in vivo. [Abstract] *Pediatr Nephrol* 2016;31: 1985-2012. *Oral Presentation FP-S31-3*
26. **Leifheit-Nestler M**, Kirchhoff F, Haffner D. Circulating klotho and cardiac fibroblast growth factor 23 modulate myocardial fibrosis in patients with chronic kidney disease. [Abstract] *Pediatr Nephrol* 2015;30:1563. *Oral Presentation*
27. **Leifheit-Nestler M**, Basaran M, Alesutan I, Kuro-O M, Voelkl J, Lang F, Haffner D. Cardiac expression of fibroblast growth factor 23 correlate with left ventricular hypertrophy in klotho-hypomorphic mice. [Abstract] *Pediatr Nephrol* 2015;30:1601. *Poster Presentation*
28. **Leifheit-Nestler M**, Hermann L, Fischer DC, Haffner D. Vitamin D treatment ameliorates fibroblast growth factor 23 driven left ventricular hypertrophy in experimental uremia. [Abstract] *Pediatr Nephrol* 2015;30:1602. *Poster Presentation*
29. **Leifheit-Nestler M**, Schön A, Hensel N, Konen T, Baron O, Grothe C, Claus P, Haffner D. Fgf23 acting on hippocampal neurons: impact on neuronal morphology and synapse formation ex vivo. [Abstract] *Pediatr Nephrol* 2014;29:1664. *Oral Presentation*
30. **Leifheit-Nestler M**, große Siemer R, Flasbart K, Ziegler WH, Klintschar M, Becker JU, Aufrecht C, Seeman T, Fischer DC, Haffner D. Cardiac FGF23 correlates with left ventricular hypertrophy and chronic phosphate load in CKD patients. [Abstract] *Pediatr Nephrol* 2014;29:1664. *Oral Presentation*
31. **Leifheit-Nestler M**, Kunert S, Hartmann H, Haffner D. Cerebrospinal fluid Fgf23 and Klotho are blood and brain-derived and associated with gender and vitamin D status in children with normal renal function. [Abstract] *Pediatr Nephrol* 2014;29:1706. *Poster Presentation*
32. Richter B, Haller J, Ziegler WH, Haffner D, **Leifheit-Nestler M**. FGF23 enhances NO Release via secretion of soluble  $\alpha$ -klotho in human vascular endothelial cells *in vitro*. [Abstract] *Pediatr Nephrol* 2014;29:1669. *Oral Presentation*
33. Kreuzer M, Ruben S, **Leifheit-Nestler M**, Melk A, Pape L, Fischer DC, Haffner D. Skin microcirculation is impaired in about half of patients after pediatric kidney transplantation. [Abstract] *Pediatr Nephrol* 2014;29:1771. *Poster Presentation*



## European Renal Association (ERA), Annual Meetings 2019-2022

1. Grund A, Vogt I, Richter GS, Richter B, Trogisch F, Garrido AM, Heineke J, Dittrich-Breiholz O, Haffner D, **Leifheit-Nestler M**. Chronic high phosphate level impairs cardiac health. [Abstract] *Nephrol Dial Transplant* 2022;37, Issue Supplement\_3, FC026. *Oral Presentation*
2. Richter B, Kapanadze T, Weingärtner N, Walter S, Vogt I, Grund A, Schmitz J, Bräsen JH, Limbourg F, Haffner D, **Leifheit-Nestler M**. Progressive tubular injury caused by high phosphate intake is associated with activation of STAT3/Kim-1 signalling and macrophage recruitment in mice. [Abstract] *Nephrol Dial Transplant* 2022;37, Issue Supplement\_3, MO448. *Short Oral Presentation*
3. **Leifheit-Nestler M**, Bariani M, Wagner M, Vogt I, Eitner F, Grund A, Thum T, Müller OJ, Haffner D. High dietary phosphate intake and intra-cardiac synthesis of fibroblast growth factor 23 synergistically worsen cardiac function. [Abstract] *Nephrol Dial Transplant* 2021;36, Issue Supplement\_1, FC018. *Oral Presentation*
4. Walter S, Vogt I, Thiele M, Schmitt R, Haffner D, **Leifheit-Nestler M**. Phosphate facilitates phosphaturia by PiT-2 mediated activation of ERK1/2 signalling internalizing NaPi-2a from the apical brush border membrane independent of FGF23. [Abstract] *Nephrol Dial Transplant* 2021;36, Issue Supplement\_1, FC004. *Short Oral Presentation*
5. **Leifheit-Nestler M**, Schön A, Deppe J, Bayazit AK, Obrycki L, Canpolat N et al. Treatment with active vitamin D does not improve left ventricular hypertrophy but further increases FGF23 and accelerates CKD progression in children. [Abstract] *Nephrol Dial Transplant* 2020;35, Issue Supplement\_3, MO026. *Short Oral Presentation*
6. Vogt I, Walter S, Veenstra AC, Kapanadze T, Schmitz J, Bräsen JH, Schmitt R, Limbourg F, Haffner D, **Leifheit-Nestler M**. High dietary phosphate intake enhances intact FGF23 and causes tubular injury with severe inflammation and fibrosis in untreated mice. [Abstract] *Nephrol Dial Transplant* 2020;35, Issue Supplement\_3, MO044. *Short Oral Presentation*
7. **Leifheit-Nestler M**, Wagem MA, Nowak J, Richter B, Böckmann I, Foinquinos A, Thum T, Meier M, Müller OJ, Haffner D. Chronic FGF23 overload fails to induce cardiac dysfunctions. [Abstract] *Nephrol Dial Transplant* 2019;34, Issue Supplement\_1, FO083. *Oral Presentation*

## American Society of Nephrology (ASN), Annual Meetings 2013-2022

1. Richter B, Weingärtner N, Vogt I, Kapanadze T, Haffner D, **Leifheit-Nestler M**. High phosphate diet induces the development of tertiary lymphoid structures and fibrosis in murine kidneys. [Abstract] *J Am Soc Nephrol* 2022;33:SA-PO987. *Poster Presentation*
2. **Leifheit-Nestler M**, Vogt I, Grund A, Richter B, Haffner D. Etelcalcetide improves cardiac dysfunction in mice on a high phosphate diet. [Abstract] *J Am Soc Nephrol* 2022;33:TH-PO156. *Poster Presentation*
3. Vogt I, Richter B, Walter S, Schmitz J, Braesen JH, Schmitt R, Haffner M, **Leifheit-Nestler M**. High dietary phosphate intake causes inflammatory tubular injury and fibrosis in mice. [Abstract] *J Am Soc Nephrol* 2021;32: PO2433. *ePoster Presentation*
4. Richter B, Walter S, Vogt I, Schmitt R, Haffner D, **Leifheit-Nestler M**. Renal FGF23 resistance by phosphate leads to NaPi-2a internalization via activated PiT-2/ERK1/2 signaling in proximal tubule. [Abstract] *J Am Soc Nephrol* 2021;32:PO0532. *ePoster Presentation*
5. **Leifheit-Nestler M**, Böckmann I, Lischka J, Richter B, Hermann L, Deppe J, Heineke J, Fischer DC, Haffner D. FGF23-mediated activation of RAAS contributes to cardiac hypertrophy and fibrosis. [Abstract] *J Am Soc Nephrol* 2019;30:TH-PO513. *Poster Presentation*
6. **Leifheit-Nestler M**, Schmaltz S, Szaroszyk M, Richter B, Heinek J, Haffner D. Cardiac-specific FGF23 knockout leads to increased cardiovascular risk. [Abstract] *J Am Soc Nephrol* 2018;29:994. *Poster Presentation*

7. **Leifheit-Nestler M**, Wagner M, Richter B, Haffner D. Cardiac-specific overexpression of FGF23 fails to induce cardiac hypertrophy in mice without CKD. [Abstract] *J Am Soc Nephrol* 2018;29:994. *Poster Presentation*
8. Richter B, Basaran M, Alesutan I, Voelkl J, Lang F, Haffner D, **Leifheit-Nestler M**. Different outcome of cardiac remodeling in two mouse models with FGF23 excess and klotho deficiency. [Abstract] *J Am Soc Nephrol* 2017;28:56. *Oral Presentation*
9. **Leifheit-Nestler M**, Kirchhoff F, Nespore J, Richter B, Heineke J, Haffner D. Cardiac fibroblast growth factor 23 is induced by activated renin-angiotensin-aldosterone system and promotes the pro-fibrotic crosstalk between cardiac myocytes and fibroblasts. [Abstract] *J Am Soc Nephrol* 2017;28:468. *Poster Presentation*
10. **Leifheit-Nestler M**, Richter B, Haller J, Haffner D. Klotho modulates FGF23-mediated NO synthesis and oxidative stress in human coronary artery endothelial cells. [Abstract] *J Am Soc Nephrol* 2016;27:217A. *Poster Presentation*
11. **Leifheit-Nestler M**, Kučka J, Geert Behets, Patrick D'Haese, Haffner D. Comparison of calcimimetic R568 and calcitriol in mineral homeostasis in *Hyp* mice: an animal model of X-linked hypophosphatemia. [Abstract] *J Am Soc Nephrol* 2016;27:861A. *Poster Presentation*
12. **Leifheit-Nestler M**, Hermann L, Fischer DC, Haffner D. Differential Effects of Calcitriol on FGF23/Klotho System and LVH in Experimental Uremia. [Abstract] *J Am Soc Nephrol* 2015;26:27A. *Oral Presentation*
13. **Leifheit-Nestler M**, Faul C, Haffner D. Soluble Klotho and Cardiac FGF23 Modulate LVH in CKD Patients. [Abstract] *J Am Soc Nephrol* 2015;26:196A. *Poster Presentation*
14. **Leifheit-Nestler M**, Basaran M, Kuro-O M, Alesutan I, Voelkl J, Lang F, Haffner D. Role of FGF23 Mediating LVH in a Mouse Model of Klotho Deficiency. [Abstract] *J Am Soc Nephrol* 2015;26:196A. *Poster Presentation*
15. **Leifheit-Nestler M**, Kirchhoff F, Haffner D. Cardiac FGF23 in Concert with Klotho Deficiency Affect Myocardial Fibrosis in Dialysis Patients. [Abstract] *J Am Soc Nephrol* 2015;26:196A-197A. *Poster Presentation*
16. **Leifheit-Nestler M**, Richter B, Haller J, Ziegler WH, Haffner D. FGF23 Enhances the Release of Nitric Oxide via Secretion of Soluble  $\alpha$ -Klotho in Human Vascular Endothelial Cells In Vitro. [Abstract] *J Am Soc Nephrol* 2014;25:159A. *Poster Presentation*
17. **Leifheit-Nestler M**, Schön A, Hensel N, Konen T, Baron O, Grothe C, Claus P, Haffner D. FGF23 and  $\alpha$ -Klotho Acting on Hippocampal Neurons: Impact on Neuronal Morphology and Synapse Formation Ex Vivo. [Abstract] *J Am Soc Nephrol* 2014;25:236A. *Poster Presentation*
18. **Leifheit-Nestler M**, Yoshizawa E, Fischer DC, Haffner D. Differential Effects of the Calcimimetic R-568 and Calcitriol on the FGF23-Vitamin D-PTH Axis in the *Hyp* Mouse as an Animal Model of Post-Transplant Hypophosphatemia. [Abstract] *J Am Soc Nephrol* 2014;25:247A. *Poster Presentation*
19. **Leifheit-Nestler M**, Flasbart K, große Siemer R, Klintschar M, Becker JU, Fischer DC, et al. Cardiac FGF23 Expression Is Associated with Left Ventricular Hypertrophy in Pediatric Patients with Chronic Kidney Disease. [Abstract] *J Am Soc Nephrol* 2013;24:7A. *Oral Presentation*
20. **Leifheit-Nestler M**, Haller J, Haffner D. FGF23 Enhances Nitric Oxide Synthesis, and Reduces Production of Reactive Oxygen Species in Human Endothelial Cells In Vitro. [Abstract] *J Am Soc Nephrol* 2013;24:37A. *Oral Presentation*

#### **German Society of Cardiology (DGK), Annual Meetings 2008-2022, Mannheim**

1. **Leifheit-Nestler M**, Richter B, Eitner F, Szaroszyk M, Grund A, Thum T, Heineke J, Haffner D. Expressionsanalyse des kardialen Fibroblasten-Wachstumsfaktors 23 in gesunden Mäusen nach druckinduzierter Herzhypertrophie. [Abstract] *Clin Res Cardiol* 2022;111 (Suppl 1):P371. *Poster Presentation*

2. Grund A, Vogt I, Richter GS, Trogisch FA, Garrido AM, Heineke J, Dittrich-Breiholz O, Haffner D, **Leifheit-Nestler M**. Chronic high phosphate overload impairs cardiac contractility. [Abstract] Clin Res Cardiol 2022;111 (Suppl 1):P948. *Poster Presentation*
3. **Leifheit-Nestler M**, Bariani M, Eitner F, Wagner MA, Vogt I, Zimmer K, Hille SS, Thum T, Müller OJ, Haffner D. Phosphate promotes the cardiotoxicity of FGF23. [Abstract] Clin Res Cardiol 2021;110 (Suppl 1):P846. *Short Oral Presentation*
4. Eitner F, Schwänen S, Szaroszyk M, Zimmer K, Thum T, Heineke J, Haffner D, **Leifheit-Nestler M**. Cardiac myocyte specific knockout of fibroblast growth factor 23 does not protect against high-pressure-induced cardiac hypertrophy. [Abstract] Clin Res Cardiol 2021;110 (Suppl 1):P851. *Short Oral Presentation*
5. **Leifheit-Nestler M**, Bariani M, Vogt I, Zimmer K, Thum T, Müller OJ, Haffner D. Cardiotoxicity of FGF23 – Is phosphate the key mediator? [Abstract] Clin Res Cardiol 2020;109 (Suppl 1):V1789. *Oral Presentation*
6. **Leifheit-Nestler M**, Wagner MA, Richter B, Böckmann I, Foinquinos A, Zimmer K, Thum T, Meier M, Müller OJ, Haffner D. Induction of cardiac fibroblast growth factor 23 does not induce heart failure. [Abstract] Clin Res Cardiol 2019;108 (Suppl 1):V1326. *Oral Presentation*
7. **Leifheit-Nestler M**, Böckmann I, Zeaiter N, Nespor J, Richter B, Kirchhoff F, Heineke J, Haffner D. Fibroblast growth factor 23 targets cardiac fibroblasts leading to fibroblast activation and myocardial fibrosis at least partially by activation of local renin-angiotensin-aldosterone system [Abstract] Clin Res Cardiol 2018;107 (Suppl 1):P359. *Poster Presentation*
8. **Leifheit-Nestler M**, große Siemer R, Flasbart F, Ziegler WH, Haffner D. Cardiac *FGF23* correlates with left ventricular hypertrophy in patients with chronic kidney disease. [Abstract] Clin Res Cardiol 2015;104 (Suppl 1):P1393. *Poster Presentation*
9. **Leifheit-Nestler M**, Kirchhoff F, Haffner D. Impact of cardiac fibroblast growth factor 23 expression on myocardial fibrosis in patients with chronic kidney disease. [Abstract] Clin Res Cardiol 2015;104 (Suppl 1):P1394. *Poster Presentation*
10. Schroeter M, **Leifheit-Nestler M**, Eschholz N, Hasenfuß G, Konstantinides S, Schäfer K. Leptin Promotes Neointima Formation and SMC Proliferation via ROS Signaling in Caveolin-Rich Membrane Microdomains: Importance of Apolipoprotein E. [Abstract] Clin Res Cardiol 2013;102 (Suppl 1):V946. *Oral Presentation*
11. Schroeter M, Eschholz N, Herzberg S, **Leifheit-Nestler M**, Czepluch FS, Schäfer K. Parakrine Wirkungen des periadventitiellen Fettgewebes auf die Neointimabildung nach experimenteller Gefäßverletzung: Bedeutung von Leptin. [Abstract] Clin Res Cardiol 2012;101 (Suppl 1):V1207. *Oral Presentation*
12. Schroeter M, **Leifheit-Nestler M**, Hasenfuß G, Konstantinides S, Schäfer K. Der Effekt von Leptin auf die Größe vaskulärer Läsionen und die Proliferation glatter Gefäßmuskelzellen ist abhängig von Apolipoprotein E. [Abstract] Clin Res Cardiol 2011;100 (Suppl 1):V143. *Oral Presentation*
13. **Leifheit M**, Conrad G, Heida NM, Cheng IF, Schäfer K, Konstantinides S. Mechanismen der proangiogenetischen Wirkung der Überexpression von Integrin  $\alpha\beta 5$  in endothelialen Vorläuferzellen. [Abstract] Clin Res Cardiol 2009;98 (Suppl 1):V1547. *Oral Presentation*
14. Heida NM, **Leifheit M**, Schroeter M, Müller JP, Cheng IF, Limbourg A, et al. Leptin fördert die proangiogenetischen Eigenschaften endothelialer Progenitorzellen über *Src*-Kinasevermittelte Aktivierung von Integrin  $\alpha\beta 5$ . [Abstract] Clin Res Cardiol 2009;98 (Suppl 1):V828. *Oral Presentation*
15. **Leifheit M**, Schroeter M, Konstantinides S, Schäfer K. Mechanismen einer wechselseitigen Interaktion von  $\alpha\beta 5$  Integrin und Leptin in Endothelvorläuferzellen. [Abstract] Clin Res Cardiol 2008;97 (Suppl 1):V72. *Oral Presentation*
16. **Leifheit M**, Conrad G, Heida NM, Cheng IF, Konstantinides S, Schäfer K. Überexpression der Integrin beta 5-Kette fördert die proangiogenetischen Eigenschaften humaner Endothelvorläuferzellen. [Abstract] Clin Res Cardiol 2008;97 (Suppl 1):V74. *Oral Presentation*

17. Heida NM, Schroeter M, Cheng IF, **Leifheit M**, Müller JP, Hasenfuß G, et al. Leptin verstärkt die angiogenetischen Eigenschaften endothelialer Progenitorzellen *in vitro* und *in vivo*. [Abstract] Clin Res Cardiol 2008;97 (Suppl 1):P1428. *Poster Presentation*

#### **American Heart Association (AHA) Scientific Session, Annual Meetings 2008-2010, USA**

1. Schroeter MR, Stein S, Heida N, **Leifheit-Nestler M**, Christiansen H, Cheng IF, et al. Leptin Promotes the Mobilization of Fetal Liver Kinase 1-Positive Vascular Progenitor Cells From the Bone Marrow in a NOX2 / MMP9-dependent Manner and Enhances Neovascularization after Ischemia. [Abstract] Circulation. Nov 2010; 122: A\_10416. *Oral Presentation*
2. **Leifheit M**, Conrad G, Heida NM, Schroeter MR, Hasenfuss G, Konstantinides S, et al. Overexpression of Integrin Beta 5 Enhances the Paracrine Angiogenic Properties of Early Outgrowth Endothelial Progenitor Cells via Src Kinase-Mediated Activation of STAT3. [Abstract] Circulation. Nov 2009; 120: S\_1151. *Poster Presentation*
3. Schroeter MR, Stein S, Heida NM, **Leifheit M**, Hasenfuss G, Konstantinides S, et al. Leptin Promotes Mobilization of Flk1-positive Vascular Progenitor Cells From the Bone Marrow and Enhances Neovascularization After Peripheral Ischemia. [Abstract] Circulation. Nov 2009; 120: S\_1053. *Poster Presentation*
4. **Leifheit M**, Conrad G, Heida NM, Cheng IF, Hasenfuss G, Konstantinides S, et al. Overexpression Of Integrin Beta 5 Enhances The Proangiogenic Properties Of Human Endothelial Progenitor Cells. [Abstract] Circulation. Oct 2008; 118: S\_461. *Poster Presentation*

#### **E) UNPUBLISHED ABSTRACTS**

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##### **German Society of Nephrology (DGfN), Annual Meetings 2014-2022**

1. **Leifheit-Nestler M**, Vogt I, Grund A, Richter B, Haffner D. Die Behandlung mit Etelcalcedid verbessert die systolische Herzfunktion bei Mäusen unter Hochphosphatdiät. [Abstract] 2022; PV193 und P193, *Short Oral Presentation and Poster Präsentation*
2. Weingärtner N, Richter B, Walter S, Vogt I, Kapanadze F, Limbourg D, Haffner D, **Leifheit-Nestler M**. Entstehung tertiärer lymphoider Strukturen im Rahmen einer Hochphosphatdiät-induzierten Nierenschädigung in gesunden Mäusen. [Abstract] 2022; PV161 und P161, *Short Oral Presentation and Poster Präsentation*
3. Richter B, Kapanadze T, Weingärtner N, Vogt I, Grund A, Schmitz J, Bräsen JH, Limbourg F, Haffner D, **Leifheit-Nestler M**. Hochphosphatdiät führt bei Mäusen zur Stat3/Kim-1 vermittelten Makrophagenrekrutierung und progredienten tubulären Schädigung und Fibrose. [Abstract] 2022; PV145 und P145, *Short Oral Presentation and Poster Präsentation*
4. Richter GS, Grund A, Vogt I, Haffner D, **Leifheit-Nestler M**. Eine chronisch hohe Phosphatbelastung führt zu einer Dilatation des linken Ventrikels mit vermehrter perivaskulärer Fibrose in Mäusen. [Abstract] 2022; P227, *Poster Präsentation*
5. **Leifheit-Nestler M**, Vogt I, Richter B, Grund A, Wagner M, Bariani M, Eitner F, Thum T, Müller OJ, Haffner D. Phosphate stabilizes cardiac FGF23 via Galnt3 and thereby worsen cardiac function. [Abstract] 2021; P118, *Short Oral Presentation*
6. Vogt I, Richter B, Walter S, Kapanadze T, Schmitz J, Bräsen JH, Schmitt R, Limbourg FP, Haffner D, **Leifheit-Nestler M**. Eine chronisch hohe Phosphatlast verursacht eine Schädigung des proximalen Tubulus mit Inflammation in Mäusen. [Abstract] 2021; FV32, *Oral Presentation*
7. Richter B, Walter S, Vogt I, Schmitt R, Haffner D, **Leifheit-Nestler M**. Bei chronischer Phosphatbelastung führt die renale Aktivierung von PiT-2/ERK1/2 unabhängig von FGF23 zur Internalisierung von NaPi-2a in proximalen Tubuluszellen. [Abstract] 2021; P240, *Short Oral Presentation*
8. Lischka J, Boeckmann I, Richter B, Hermann L, Deppe J, Fischer DC, Haffner D, **Leifheit-Nestler M**. FGF23 führt über die Aktivierung des RAAS zur Herzhypertrophie und Fibrose. [Abstract]. 2019, P299, *Poster Presentation*

9. Wagner M, Richter B, Cuykens K, Müller O, Haffner D, **Leifheit-Nestler M**. Cardiac specific overexpression of FGF23 does not result in LVH in mice without CKD. [Abstract]. 2018, FV27, *Oral Presentation*
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