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Current Position

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Publications

→ **Book chapters**

1. **Nousheen Zaidi** and Hubert Kalbacher. Cathepsin E, Invited chapter in: *The Handbook of Proteolytic Enzymes* 3rd Edition. 2012.

→ **Articles in Refereed Journals**

Cumulative Impact factor: 74.14

1. Ameer F, Munir R, Usman H, Rashid R, Shahjahan M, Hasnain S, **Zaidi N**: Lipid-load in peripheral blood mononuclear cells: impact of food-consumption, dietary-macronutrients, extracellular lipid availability and demographic factors. *Biochimie* 2017.
2. Usman H, Ameer F, Munir R, Iqbal A, Zaid M, Hasnain S, Scandiuizzi L, **Zaidi N**: Leukemia cells display lower levels of intracellular cholesterol irrespective of the exogenous cholesterol availability. *Clin Chim Acta* 2016, 457:12-17.
3. Iqbal A, Zaid M, Munir R, Usman H, Kalbacher H, Scandiuizzi L, Zaidi N: Atypical plasma lipid profiles in leukemia. *Clin Chim Acta* 2016, 452:129-133.
4. Usman H, Rashid R, Ameer F, Iqbal A, Zaid M, Hasnain S, Kalbacher H, **Zaidi N**: Revisiting the dyslipidemia associated with acute leukemia. *Clin Chim Acta* 2015, 444:43-49.
5. Rashid R, Ameer F, Kalbacher H, Scandiuizzi L, **Zaidi N**: Aberrant de novo cholesterologenesis: Clinical significance and implications. *Clin Chim Acta* 2015.
6. Munir R, Usman H, Hasnain S, Smans K, Kalbacher H, **Zaidi N**: Atypical plasma lipid profile in cancer patients: cause or consequence? *Biochimie* 2014, 102:9-18.
7. Daniels VW, Smans K, Royaux I, Chypre M, Swinnen JV, **Zaidi N**: Cancer cells differentially activate and thrive on de novo lipid synthesis pathways in a low-lipid environment. *PLoS One* 2014, 9:e106913.
8. Ameer F, Scandiuizzi L, Hasnain S, Kalbacher H, **Zaidi N**: De novo lipogenesis in health and disease. *Metabolism* 2014.
9. **Zaidi N**, Lupien L, Kuemmerle NB, Kinlaw WB, Swinnen JV, Smans K: Lipogenesis and lipolysis: The pathways exploited by the cancer cells to acquire fatty acids. *Prog Lipid Res* 2013, 52:585-589.
10. **Zaidi N**, Swinnen JV, Smans K: ATP-citrate lyase: a key player in cancer metabolism. *Cancer Res*

2012, 72:3709-3714.

11. **Zaidi N**, Royaux I, Swinnen JV, Smans K: ATP citrate lyase knockdown induces growth arrest and apoptosis through different cell- and environment-dependent mechanisms. *Mol Cancer Ther* 2012, 11:1925-1935.
12. Chypre M, **Zaidi N**, Smans K: ATP-citrate lyase: a mini-review. *Biochem Biophys Res Commun* 2012, 422:1-4.
13. **Zaidi N**, Maurer A, Nieke S, Kalbacher H: Cathepsin D: a cellular roadmap. *Biochem Biophys Res Commun* 2008, 376:5-9.
14. **Zaidi N**, Kalbacher H: Cathepsin E: a mini review. *Biochem Biophys Res Commun* 2008, 367:517-522.
15. **Zaidi N**, Herrmann C, Herrmann T, Kalbacher H: Emerging functional roles of cathepsin E. *Biochem Biophys Res Commun* 2008, 377:327-330.
16. Waraich RS, **Zaidi N**, Moeschel K, Beck A, Weigert C, Voelter W, Kalbacher H, Lehmann R: Development and precise characterization of phospho-site-specific antibody of Ser(357) of IRS-1: elimination of cross reactivity with adjacent Ser(358). *Biochem Biophys Res Commun* 2008, 376:26-31.
17. Burster T, Reich M, **Zaidi N**, Voelter W, Boehm BO, Kalbacher H: Cathepsin E regulates the presentation of tetanus toxin C-fragment in PMA activated primary human B cells. *Biochem Biophys Res Commun* 2008, 377:1299-1303.
18. **Zaidi N**, Herrmann T, Voelter W, Kalbacher H: Recombinant cathepsin E has no proteolytic activity at neutral pH. *Biochem Biophys Res Commun* 2007, 360:51-55.
19. **Zaidi N**, Herrmann T, Baechle D, Schleicher S, Gogel J, Driessen C, Voelter W, Kalbacher H: A new approach for distinguishing cathepsin E and D activity in antigen-processing organelles. *FEBS J* 2007, 274:3138-3149.
20. **Zaidi N**, Burster T, Sommandas V, Herrmann T, Boehm BO, Driessen C, Voelter W, Kalbacher H: A novel cell penetrating aspartic protease inhibitor blocks processing and presentation of tetanus toxoid more efficiently than pepstatin A. *Biochem Biophys Res Commun* 2007, 364:243-249.

→ **Abstracts published in Journals**

1. **Zaidi N**. Impact of low-lipid environment on de novo lipid synthesis pathways in cancer cells. *Journal for ImmunoTherapy of Cancer* 2015, 3(Suppl 2):P424
2. Abbas F, Sanaullah R, **Zaidi N**, Talati J, Siddiqui AA, Siddiqui K. A comparative assessment of the sensitivity of telomerase assay with other molecular markers for the diagnosis of human bladder cancer. *JPMA* (2002) 52: [Suppl12] ppS33.
3. Abbas F, Sanaullah R, **Zaidi N**, Talati J, Siddiqui AA, Siddiqui K. A comparative assessment of the sensitivity of TRAP assay in diagnosis of human bladder cancer. *BJU International* 2004. Vol 94, Supplement

Previous major research projects

1. Identification and validation of tumor markers in the field of tumor metabolism. (**Postdoctoral Research** at Drug Discovery Group, Department of Oncology, Janssen Research and Development, a division of Janssen Pharmaceutica, Belgium). 2011-2012 Jan.
2. Roles of B7x in autoimmune diseases. (**Postdoctoral Research** at Albert Einstein College of Medicine, New York, USA). 2009-2010
3. Role of Cathepsin E in MHC II pathway. (**PhD project** at Eberhard Karls University, Tübingen, Germany). 2005-2008.
4. Identification and Validation of diagnostic targets for bladder cancer (**Predoctoral Research** at The Aga Khan University, Karachi). 2002-2004