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Structural and biochemical characterization of the human neutral amino acid transporter ASCT2

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**Structural and biochemical
characterization of the human neutral
amino acid transporter ASCT2**

Alisa Garaeva

The work published in this thesis was carried out in the research group Membrane Enzymology of the Groningen Biomolecular Science and Biotechnology Institute (GBB) of the University of Groningen in the Netherlands. The research was financially supported by the Netherlands Organization for Scientific Research (NWO) and by the European Research Council (ERC).

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A certain color is assigned to each chapter of this thesis and symbolizes the respective scientific idea. The entire thesis book is not the mere sum of its chapters – it is a canvas on which different ideas mingle together in curious ways, hopefully, contributing to future innovation, just like the chapters' colors diluted in alcohol ink create a complex painting on the cover page.

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Structural and biochemical characterization of the human neutral amino acid transporter ASCT2

PhD thesis

to obtain the degree of PhD at the
University of Groningen
on the authority of the
Rector Magnificus Prof. C. Wijmenga
and in accordance with
the decision by the College of Deans.

This thesis will be defended in public on

Friday 9 October 2020 at 9.00 hours

by

Alisa Garaeva

born on 7 April 1993
in Smolensk, Russia

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“Dandelion wine. The words were summer on the tongue.
The wine was summer caught and stoppered...sealed away
for opening on a January day with snow falling fast
and the sun unseen for weeks...”

— Ray Bradbury —

Chapter 1	
Characteristics of Alanine Serine Cysteine Transporter 2	11
Chapter 2	
Elevator-type mechanism of membrane transport	31
Chapter 3	
Cryo-EM structure of the human neutral amino acid transporter ASCT2	59
Chapter 4	
A one-gate elevator mechanism for the human neutral amino acid transporter ASCT2	91
Chapter 5	
Lipid-nanodiscs environment promotes outward-facing conformations of the human glutamine transporter ASCT2	121
Chapter 6	
Structural basis for stereospecific inhibition of ASCT2 from rational design	155
Chapter 7	
Summary and perspective	199
Addendum	
Nederlandse samenvatting	210
List of publications and achievements	214
Acknowledgements	215