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Molecular and cellular responses to renal injury : a (phospho)-proteomic approach

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Citation

Graauw, M. de. (2007, June 7). *Molecular and cellular responses to renal injury : a (phospho)-proteomic approach*. Retrieved from <https://hdl.handle.net/1887/12036>

Version: Not Applicable (or Unknown)
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Molecular and cellular responses to renal injury

A (phospho)-proteomic approach

Marjo de Graauw

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Molecular and cellular responses to renal injury: A (phospho)-proteomic approach

Thesis, Leiden University, 2007

ISBN: 978-90-9021870-0

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Lay out and cover design: Marjo de Graauw

Cover front: ‘proteomic’ spots filled with 2D-DIGE data (ch. 4), scattered cells (ch. 6), *in vivo* stress fibers and focal adhesions (ch. 3), and a cyst (ch. 6) on top of a mass-spectrum.

Cover back: ‘proteomic’ spot filled with AnxA2 protein sequence interrupted with words.

Poem Leo Vroman: originally appeared in “Connections: a short course about connections between arts, literature and science” written as part of the Leonardo Leerstoel, Tilburg University.

Printing: PrintPartners Ipskamp B.V., Enchede

Molecular and cellular responses to renal injury

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Proefschrift

ter verkrijging van
de graad van Doctor aan de Universiteit Leiden,
op gezag van Rector Magnificus prof. mr. P.F. van der Heijden,
volgens besluit van het College voor Promoties
te verdediging op donderdag 7 juni 2007
klokke 13.45

door

Marjo de Graauw

geboren te Gouda in 1978

PROMOTIECOMMISSIE

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The studies presented in this thesis were performed at the Division of Toxicology of the Leiden/Amsterdam Center for Drug Research (LACDR), Leiden, the Biomolecular Mass Spectrometry Unit of the Department of Parasitology, Leiden University Medical Center (LUMC), Leiden, the Department of Molecular Cell Biology of Sanquin Research, Amsterdam and the Ludwig Institute for Cancer Research (LICR), London, UK.

The research described in this thesis was financially supported by a grant from the Netherlands Organization of Scientific Research (NWO/ZonMW #902-21-902)

Printing of this thesis was financially supported by:

Leiden/Amsterdam Center for Drug Research (LACDR)

J.E. Jurriaanse Stichting

Tebu-bio

Nierstichting Nederland

See our bodies write their news!
And the letters that they use
are our protein residues.

each body writes the proteins in it
at ten to the sixteenth a minute:
my inside news is near-infinite!

One second of my life would need
twenty million years to read
at a more than human speed-

But what flickering, slanting light
do I shed on what I write
deep into my body's night?

My old words burn to give the flame
that lights the words I just became ...
that will be ashes, all the same.

Leo Troman

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