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

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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

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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.

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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.

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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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