

# Mehdi Rastmanesh

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## Education

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- 2004-2008: **PhD doctorate (Title: SOCS and Inflammation in Chronic Renal Failure)**  
Department of Nephrology and Hypertension  
Univ. Med. Cent. Utrecht. The Netherlands
- 2001-2003: **MSc in Bio-Pharmaceutical Sciences (Track: Toxicology)**  
University of Leiden. The Netherlands
- 1993-1999: **MSc in Pharmacy (Pharm.D)**  
Ahwaz Univ. of Medical Sciences. Iran

## Work Experience

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- 2010-2011: Co-working with the Genetic laboratory of dr. Farhoud to set up the state-of-the-art screening / risk assessment / prognostics and diagnostics tests within the scope of personalized healthcare.
- 2008-2009: **Regulatory project leader (Case manager)** at the Dutch Medicine Evaluation Board (**MEB**); responsibilities: Leading the MRPs (mutual recognition procedures) and DCPs (Decentralized procedures) (European procedures), Type II variations and Withdrawals. (9 months).
- 2004: **Regulatory project leader (case manager)** at the Dutch Medicine Evaluation Board (**MEB**); responsibilities: evaluation of the SPC (Summary of Product Characteristics) and PL (Patient's Leaflets) texts (6 months)
- 1999-2000: **Pharmacist.** Fulfilling the normal tasks of a pharmacist in a public pharmacy (for 11 months)

## Publications

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- 1- **M.M. Rastmanesh**, H.A.R. Bluysen, J.A. Joles, et al. Increased expression of SOCS3 in monocytes and SOCS1 in lymphocytes correlates with progressive loss of renal function and cardiovascular risk factors in chronic kidney disease. **Eur. J. Pharmacology**, 2008. 593; 99-104.
- 2- **M.M. Rastmanesh**, B. Braam, J.A. Joles, et al. Increased SOCS expression in PBMC of ESRD patients is related to the gender and dialysis modality. **Eur. J. Pharmacology**, 2009. 602; 163-167.
- 3- **M.M. Rastmanesh**, H.A.R. Bluysen, P. Boer, et al. IFN $\gamma$ -dependent SOCS3 expression inhibits IL-6-induced STAT3 activation and differentially affects IL-6-mediated transcriptional responses in endothelial cells. **AJP Cell Physiology**, 2010, 299(2); C354-362.
- 4- K.E. Jie, M.A. Zaikova, M.W. Bergevoet, P.E. Westerweel, **M.M. Rastmanesh**, et al. Progenitor cells and vascular function are impaired in patients with chronic kidney disease. **Nephrology Dialysis Transplantation**, 2010, 25(6); 1875-1882.

## Research Experience

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- 2004-2008: **PhD research.**  
**Title:** Dysregulation of Jak/STAT& SOCS pathway in facilitated atherosclerosis in renal failure. During my PhD research I characterized the expression of SOCS genes in peripheral blood mononuclear cells of patients in different stages of renal failure and its relation to the known markers of cardiovascular diseases. Furthermore, I studied the role of Jak/STAT&SOCS pathway in cross-talk between IFN $\gamma$  and IL-6 signalling in endothelial cells and how that affects down-stream target genes. And finally using STAT1<sup>-/-</sup> mice model I studied the role of STAT1 in IL-6 signalling (*this part has been done at NYU, NY, USA*). My PhD research was performed under supervision of Dr. H. Bluysen, Dr. B. Braam, and Prof. G. Pasterkamp
- 2002-2003: **Subject of final project**  
**Title:** *XPC-GFP/hHR23B accumulation is specifically induced by NER-type DNA damage* (3 months). Department Cell-Biology and Genetics (headed by Prof. Hoeijmakers), Faculty of Medicine, Erasmus University; Mentor: Dr. Vermeulen.
- 2002: **Subject of final project**  
**Title:** *Phosphorylation of the adapter protein paxillin by c-Jun N-terminal kinase (JNK) in vincristine-induced apoptosis* (8 months). Department of Toxicology, Leiden/Amsterdam Center for Drug Research, University of Leiden; Mentor: Dr. B. van de Water.
- 1998-1999: **Subject of final project**  
**Title:** *Study of the effect of hydro-alcoholic extract of Cichorium Intybus in liver toxicity induced by CCl4 in mice.* Department of Toxicology (headed by Dr. Klantari); Mentor: Dr. H. Klantari

**Summary of the techniques that have been used in the above mentioned projects:** Cell culture, immuno-fluorescence microscopy, Western-blotting, flow cytometry, isolation of peripheral blood mononuclear cells, real time PCR, proliferation assay, adhesion assay, siRNA, ELISA, animal testing and Illumina gene array. Set up of a clinical study in human, caspase-3 activity assay, site-directed mutagenesis, standard molecular biologic techniques (sub-cloning, transformation, agarose gel electrophoresis, mini-& maxi prep), confocal laser scan microscopy, pathological analysis for necrosis and lipodosis, measurement of the liver enzymes in blood (SGPT and SGOT).

## Workshops and Courses

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- 2010: **BioDetection Systems**, (two day) organized by BioDetection Systems, The Netherlands
- 2010: **Business Plan and sale** (one day) organized by Nebib, Almere, The Netherlands
- 2007: **Mission RNAi**, (3days) Viral and non-viral-based systems for gene silencing. Sigma, Saint Louis, MO, USA
- 2007: **Mission RNAi**, (2 days) Knockdown Quantification Technologies; qRT-PCR, Proteomics (one day). Sigma, Saint Louis, MO, USA
- 2008: **General introduction to FACS**, (1 day). Utrecht Univ. The Netherlands

## Scientific meetings and Conferences

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- 2007: **American Society of Nephrology (ASN)**  
San Francisco, CA, USA  
*Poster presentation:* Cross-talk between IFN $\gamma$  and IL6 increases inflammatory response in EC and is SOCS dependent  
*Poster presentation:* SOCS expression in MNC of renal patients is related to the stage of renal disease and dialysis modality
- 2006: **American Society of Nephrology (ASN)**  
San Diego, CA, USA  
*Poster presentation:* Increase monocyte SOCS3 in CRF vs. SOCS1 in ESRD reflects activation of different intracellular cytokines pathway
- 2005: **American Society of Nephrology (ASN)**  
Philadelphia, PA, USA  
*Poster presentation:* Similarity of combined IFN- $\gamma$  and H<sub>2</sub>O<sub>2</sub> and of uremic plasma on SOCS gene expression in endothelial cells (ECs)

## References

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- 1- **Prof. Dr. G. Pasterkamp**, Dep. Experimental cardiology, Univ. Med. Center Utrecht, The Netherlands, Tel: 088-755-6051
- 2- **Prof. Dr. M.C. Verhaar**, Dep. Nephrology and Hypertension, Univ. Med. Center Utrecht, The Netherlands, Tel: 088-755-9662
- 3- **Dr. P. Boer**, Dep. Nephrology and Hypertension, Univ. Med. Center Utrecht, The Netherlands, Tel: 088-755-6508

## Knowledge of Languages

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Fluent in Persian, English and Dutch