

Iryna Samarska (e/v Lymarenko)

MD, PhD

Personal Data:

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Email: iryna.samarska@mumc.nl; i.v.samarska@gmail.com

Date and place of Birth: 8.01.1979 in Kyiv, Ukraine

Citizenship: Netherlands (vanaf 2012)

Language: Ukrainian (native), English (fluent), Nederlands (fluent), Russian (fluent/native).

EDUCATION/Certifications

January 2018- 1 year fellowship Genitourinary Pathology, Prof. J.I. Epstein, Department of Pathology,
December Johns Hopkins University.
2018
May 2013 – Pathology Resident, Department of Pathology, University of Maastricht, the
December Netherlands.
2018 2015-2016 – 14 month rotation, Department of Pathology, Viecuri, Venlo.
2010-2012 Procedure of the Medical doctors assessment. The BIG-registration: 79913267001
2006-2010 Pharmacologist (as part of the PhD period), UMCG, RUG, Groningen
1996-2002 MD, National Medical University of Ukraine, Kiev, Ukraine
1985-1996 School №67, Kiev, Ukraine

EXPERIENCE:

January 2019 Pathologist (Gastrointestinal, Pancreatobiliary, Liver pathology and Genitourinary
and present pathology), Department of Pathology, University of Maastricht, the Netherlands.
May 2013 – Pathology Resident, Department of Pathology, University of Maastricht, the Netherlands.
December Including 1 year fellowship Genitourinary Pathology (Prof. J.I. Epstein, Department of
2018 Pathology, Johns Hopkins University) and in 2015-2016 – 14 month rotation (Department
of Pathology, Viecuri, Venlo, the Netherlands).
September Postdoc, Department of Anesthesiology, University of Groningen, University Medical
2011- 2013 Center Groningen, the Netherlands.
May 2006- PhD-student, Department of Clinical pharmacology, University of Groningen, University
September Medical Center Groningen, the Netherlands. Thesis defense is on 6th of April 2011
2011 http://www.rug.nl/corporate/nieuws/archief/archief2011/promoties_oraties/13_Samarska
November Junior scientist, Department of cardiovascular medicines, Institute of Pharmacology and
2005 -April Toxicology of the Academy of Medical science of Ukraine.
2006 Supervisor: MD, PhD, Prof. Mohort M.A.
October 2002- PhD-student, Department of cardiovascular medicines, Institute of Pharmacology and
October 2005 Toxicology of the Academy of Medical science of Ukraine.
Title of the thesis (the defense was on 15th Februari 2006): The search of the novel
potential detrusor-selective compounds among guanidine derivatives (pinacidil's
analogues)
2002-2003 Internship in Organization of Medical care (Public Health)

Courses:

- USCUP 2016 till 2019 (many courses)
- Participant of Uropathology EQA scheme (BAUP, GB) since 2015
- 19th Annual Current Topics in Gastrointestinal and Liver Pathology, 19-20 October 2019, Johns Hopkins, Baltimore, the USA.
- 18th Annual Current Topics in Gastrointestinal and Liver Pathology, 20-21 October 2018, Johns Hopkins, Baltimore, the USA.
- European Society of Pathology annual congress, Amsterdam, 2017
- Course on Soft Tissue Pathology, Leuven, 28-29 April 2017
- Cervico-vaginal cytology, 10 June 2017, UZA, Belgium
- The BDIAP 110th Symposium on Uropathology, 20-21 November 2015, London
- Upper gastrointestinal and pancreatobiliary pathology, 2-3 December 2016, London

Research related Courses:

- The Course on Laboratory Animal Science September 2006

- Autumn School Vascular Medicine September 2006
- PhD-training course 'Vascular Biology' at Papendal, Arnhem October 2006
- Techniques in Molecular biology December 2006
- School Vascular Medicine March 2007
- Publishing in English October 2007
- Cellular Imaging Course March 2008
- Good Research Practices: GLP/GCP May 2008
- Membranes, Signal Transduction and Transport March 2009
- Medical Statistics June 2009
- Project management in Science research June 2008- April 2010

Teaching experience:

- Practical course for students of the faculty of Medical Science. "Vascular reactivity changes"
- Tutor in the block 2.2, 3.3, 3.4 (second and third year) in the IBM program RUG, Groningen

Review paper: for Acta Pharmacologica Sinica, British Journal of Anaesthesia

Membership: USCAP, The European Society of Pathology, the British Division of the International Academy of Pathology, Dutch Society of Clinical Pathology

Professional/Academic Honors and Awards:

- Second Award at the session of the fundamental medicine at the International Scientific Conference of the Medical students, PhD-students and young researcher "Lomonosov", 12-15 April 2005, Moscow State University, Moscow, Russia.
- First Award at the session Nephrology/Urology at the 16th European Students' Conference, 19-23 October 2005, at University Medical Centre "Charite" (CCM), Berlin, Germany.
- Award for the Best Young Pharmacologist 2006 ("Cherkes Award"), Association of pharmacologist AMS of Ukraine, and Institute of the Pharmacology and Toxicology of the Academy of Medical Science of Ukraine, 2006.

PUBLICATIONS:

Articles Published:

Samarska IV, Epstein JI. Condyloma Acuminatum of Urinary Bladder: Relation to Squamous Cell Carcinoma. *Am J Surg Pathol.* 2019 Nov;43(11):1547-1553.

Pederzoli F, Murati Amador B, **Samarska I**, Lombardo KA, Kates M, Bivalacqua TJ, Matoso A. Diagnosis of urothelial carcinoma in situ using blue light cystoscopy and the utility of immunohistochemistry in blue light-positive lesions diagnosed as atypical. *Hum Pathol.* 2019 Aug;90:1-7.

Zhou AG, Salles DC, **Samarska IV**, Epstein JI. How Are Gleason Scores Categorized in the Current Literature: An Analysis and Comparison of Articles Published in 2016-2017. *Eur Urol.* 2019 Jan;75(1):25-31.

Willemsen M, Dielis AWJH, **Samarska IV**, Koster A, van Marion AM. Case Report A Rare Case of Angioimmunoblastic T-Cell Lymphoma with Epstein-Barr Virus-Negative Reed-Sternberg-Like B-Cells, Chylous Ascites, and Chylothorax. *Case Rep Hematol.* 2017;2017:1279525.

Adriaans BP, **Samarska IV**, de Vries B, Bekkers SC. A patient with progressive dyspnoea. *Neth Heart J.* 2015 Jul;23(7-8):399-401.

Samarska IV, Bouma HR, Buikema H, Mungroop HE, Houwertjes MC, Absalom AR, Epema AH, Henning RH. S1P1 receptor modulation preserves vascular function in mesenteric and coronary arteries after CPB in the rat independent of depletion of lymphocytes. *PLoS One.* 2014 May 12;9(5):e97196.

Bouma HR, **Samarska IV**, Schenk M, Dahlem KK, van den Bos H, Brebenel I, Duin M, Houwertjes MC, Loef BG, Mungroop HE, Struys MM, Epema AH, Henning RH. Microarray analysis of gene expression profiles in the rat kidney demonstrates a local inflammatory response induced by cardiopulmonary bypass. *Eur J Anaesthesiol.* 2013 Aug;30(8):492-500.

Samarska IV, Henning RH, Buikema H Bouma HR Houwertjes MC Mungroop H Struys MM Absalom AR, Epema AH. Troubleshooting the rat model of cardiopulmonary bypass: effects of avoiding blood transfusion on long-term survival, inflammation and organ damage. *J Pharmacol Toxicol Methods.* 2013 Mar-Apr;67(2):82-90.

Samarska IV, van Meurs M, Buikema H, Houwertjes MC, Wulfert FM, Molema G, Epema AH, Henning RH. Adjunct nitrous oxide normalizes vascular reactivity changes after hemorrhagic shock in mice under isoflurane anesthesia. *Anesthesiology.* 2009 Sep;111(3):600-8.

Mokhort NA, **Samarskaia IV**, Iagupol'skaia LM. [\[Comparative study of the effects of new fluorine-containing pinacidyl analogs on bladder contractile function and vessel tone\]](#). *Eksp Klin Farmakol.* 2007 Jul-Aug;70(4):32-4.

Russian. PubMed PMID: 18078040.

Mokhort MA, **Lymarenko IV**. [[Adenine triphosphate-sensitive potassium channels: classification, structure and functions](#)]. Fiziol Zh. 2005;51(1):109-20. Ukrainian. PubMed PMID: 15801208.

Lymarenko IV. [[The comparative study of the effect of new fluorine-containing guanidine-derivate compounds and pinacidil on contractile function of the urinary bladder in vitro](#)]. Fiziol Zh. 2005;51(3):88-91. Ukrainian. PubMed PMID: 16108231.

Lymarenko I.V. The comparative characteristics of the effect of new fluorine-containing pinacidil's analogue and pinacidil. // Medicines-2005-№1-2-P.81-85. (in Ukrainian).

Lymarenko I.V. Biochemical aspects of activation of the ATP-sensitive potassium channels of vessels and cardiomyocytes // Bukov.Med.Bulletin.-2005.-№2.-P.152-153 (in Ukrainian).

Lymarenko I.V. Possibilities of pharmacological and phytotherapeutic correction of urinary bladder hyperactivity// Phytoth. J.-2005.-№3.-P.29-31. (in Ukrainian).

Mohort M.A., Yagupolskii L.M., **Lymarenko I.V.** Modulation of contractile activity of urinary bladder and vessels by novel fluorine-containing pinacidil's analogues// Russian Biomedical Journal medline.ru-2005.-6:№176- P.725-742. <http://www.medline.ru/public/art/tom6/art176pdf.phtml> (in Russian)

Mohort M.A., **Samarska I.V.** Functional role of potassium channels under physiological and pathological conditions // Clin. Exper. Path.J.-2004.-T.3,№2,Ч.1.-P.193-195. (in Ukrainian)

Samarska I.V. The influence of novel fluorine-containing guanidine derivatives (pinacili's analogues) on the contractile function m. detrusor vesicae.// Biomed. Biosoc.anthropol.- 2004.-№3-P.105-108. (in Ukrainian).

Mohort M.A, **Samarska I.V.** Pharmacological activity of potassium channels openers. // Ukr.Med.J.-2003.-№6/38.-P.26-38. (in Ukrainian)

Articles in process:

Samarska IV, Matoso A. Clinicopathologic Findings of Recurrent and Non-recurrent urethral stricture disease.

Karl Benz, **Iryna V. Samarska**, Mahir Maruf, Eleonora Duregon, Jody Hooper, Adeboye Osunkoya, Shamlal Mangray, Andres Matoso, Amin S. Herati. Altered Testicular Histopathology after Immunotherapy with Immune Checkpoint Inhibitors.

Poster presentations, including abstracts accepted for USCAP 2020:

Relation of BK virus-positive urinary cytology to urothelial cell carcinoma of the urinary bladder	Accepted for USCAP 2020 (First author)
Expression of mismatch repair proteins (MSH2, MSH6, MLH1, and PMS2), c-Myc, PTEN and ERG in in prostate adenocarcinoma in patients under 50 years: correlation with grade groups and biochemical recurrence	Accepted for USCAP 2020 (First author)
Relation of Squamous Cell Carcinoma (SCC) to Condyloma Acuminatum of Urinary Bladder.	USCAP 2019, Mar 16 - 22, 2019, National Harbor, Maryland. (First author)
Histopathologic Findings in Testes Post-Immunotherapy for Metastatic Melanoma.	USCAP 2019, Mar 16 - 22, 2019, National Harbor, Maryland. (First author)
Clinicopathologic Findings of Recurrent and Non-recurrent urethral stricture disease	USCAP 2019, Mar 16 - 22, 2019, National Harbor, Maryland. (First author)
Detection of Carcinoma in Situ of the Bladder Using Blue Light Cystoscopy (BLC) and the Role and Reliability of Traditional Histomorphology Over Immunohistochemistry in the Diagnosis of Dubious BLC-Positive Lesions.	USCAP 2019, Mar 16 - 22, 2019, National Harbor, Maryland. (Second author)
Outcome of Unexpected Prostatic Urethral Involvement at Cystoprostatectomy for Non-Muscle Invasive Bladder Cancer: Implications for Prostate Sparing Cystectomy.	USCAP 2019, Mar 16 - 22, 2019, National Harbor, Maryland. (Second author)
Morphologic Characterization of High-Grade Bladder Tumors with Negative Urine Cytology: Comparison of Findings with Blue Light versus White Light Cystoscopy.	USCAP 2019, Mar 16 - 22, 2019, National Harbor, Maryland. (Second author)
Molecular Characterization of Prostate Carcinoma with Paneth Cell-like Neuroendocrine Differentiation.	USCAP 2019, Mar 16 - 22, 2019, National Harbor, Maryland. (Secondauthor)
FIGON Medicine Days 2008, Lunteren, the Netherlands.	October 2008 (First author)
Cerebral vascular biology 2011, Leiden, the Netherlands.	June 2011(First author)
Case report: systemic amyloidosis in an ICU patient, Wetenschapsavond VieCuri Medisch Centrum.	December 2015(Third author).

Abstracts published

Anaesthetic techniques affect vascular responsiveness in experimental hemorrhagic shock: 4AP9-3 **Samarska, I.; Epema, A. H.; Buikema, H.; Aarts, L. P. H. J.; Henning, R. H.** European Journal of Anaesthesiology, **2007,24:55**.
Changes in EDHF-mediated relaxation in coronary vessels after cardiopulmonary bypass: P04-06. **Samarska I. V., Buikema J. H., Houwertjes M., Epema A. H., Henning R. H.** Basic & Clinical Pharmacology & Toxicology, 2008, 102: 21–57.

Microarray analysis reveals a local inflammatory response induced by cardiopulmonary bypass in rat kidney: 4AP10-6 **Bouma, H. R.; Samarska, I. V.; Struys, M. M.R.F.; Henning, R. H.; Epema, A. H.** European Journal of Anaesthesiology, **2011, 28:66**.

Oral presentations and poster discussion presentation

1. FIGON Medicine Days 2007, Lunteren, the Netherlands **oral presentation** October 2007
3. 2007 Annual Meeting of the American Society of Anesthesiologists, San-Francisco, the USA **poster discussion** October 2007
4. 4^e Wetenschapsdag anesthesiologie, Amsterdam, the Netherlands **poster discussion** November 2007
5. FIGON Medicine Days 2008, Lunteren, the Netherlands **oral presentation** October 2008
6. PhysPhar 2011, Liège, Belgium, **oral presentation** March 2011

References

Prof. Jonathan I. Epstein, Professor, Departments of Pathology, Urology, & Oncology The Reinhard Professor of Urologic Pathology Johns Hopkins Medical Institutions Director of Surgical Pathology Department of Pathology, Johns Hopkins Hospital	The Johns Hopkins Hospital, The Weinberg Building, Rm. 2242, 401 N. Broadway Street, Baltimore, MD 21231, USA. jepstein@jhmi.edu P +1 410 614 6330; +1 410 955 5043 F +1 443 287 3818
Prof. Axel zur Hausen, Head Department of Pathology, University of Maastricht, the Netherlands.	P. Debyelaan 25, 6229 HX Maastricht, Netherlands +31 43 387 46 11 Axel.zurhausen@mumc.nl
Dr. Andres Matoso, Surgical and Urologic Pathology Director of Immunohistochemistry, Johns Hopkins Hospital, Assistant Professor of Pathology and Oncology, Johns Hopkins University School of Medicine	The Johns Hopkins Hospital, The Weinberg Building, 401 N Broadway / Room 2242, Baltimore, MD 21231- 2410 P: (410) 955-5082 F: (410) 367-3223 amatoso1@jhmi.edu
Prof. Robert H. Henning, Department of Clinical Pharmacy and Pharmacology, University of Groningen, University Medical Center Groningen.	Hanzeplein 1, PO BOX 30001, 9700RB, Groningen, Netherlands. +31 50 361 7870 r.h.henning@umcg.nl