ABRAHAM NYSKA, DVM, Dipl. ECVP, Fellow IATP,
Diplomate, European College of Veterinary pathology (Dipl. ECVP),
Fellow, International Academy of Toxicologic Pathology
Expert in Toxicologic Pathology
Visiting Full Professor of Pathology, Sackler School of Medicine, Tel Aviv University
Yehuda HaMaccabi 31, Tel Aviv, 6200515, Israel
CELL: 054 3003447
EMAIL: anyska@nyska.net
Website: http://www.nyska.net

SUMMARY OF BIOGRAPHY AND EXPERTISE:

- Prof. Abraham Nyska is an **expert in toxicologic pathology**, holding two diplomas and formal recognition in **toxicologic pathology**, reflecting a formal recognition by international professional organizations, desired by regulatory agencies (such as the **FDA** and **EMA**)

1. **Diplomate of the European College of Veterinary Pathologist (Board ECVP)**
website https://ebvs.eu/colleges/ECVP/members/prof-abraham-nyska
Information about the "European College of Veterinary Pathologists"
The Board ECVP is equivalent to the Board ACVP, and are mutually recognized by international regulatory agencies such as the FDA.
The Board ECVP qualification is accepted on equal terms by the well-established American College of Veterinary Pathologists (ACVP).
2007;34(4):473-7. https://pubmed.ncbi.nlm.nih.gov/18287475/
The certification is presented in the Appendix A, below.

2. **Fellow of the International Academy of Toxicologic Pathology (IATP)**
http://iatpfellow.org/index.php
Information about the "International Academy of Toxicologic Pathology"
The International Academy of Toxicologic Pathology (IATP) is a global professional scientific organization that establishes the criteria of excellence and accomplishments in

toxicologic pathology for accreditation of members (fellows), serves as a worldwide source of experts in toxicologic pathology and organizes unique educational opportunities for toxicologic pathologists, related scientists, and trainees.

- Prof. Abraham Nyska, is a Visiting Full Professor of Pathology, Sackler School of Medicine, Tel Aviv University.

- Prof. Nyska has more than 46 years' experience in **consultation, evaluation, and pre-clinical risk assessment**, dealing with toxicologic pathology aspects of **chemicals, drugs, medical devices, and stem cells. These consultations are pivotal, contributing to the commercial success of the start-up/ and or, pharma companies.** Some **examples** of these commercial successes in which prof. Nyska did the toxicologic pathology evaluation, are as follows:

  - Alcon buys Israeli glaucoma treatment co Optonol https://en.globes.co.il/en/article-1000522484
  - Mitsubishi Tanabe buys up NeuroDerm https://www.fiercebiotech.com/biotech/mitsubishi-tanabe-buys-up-neuroderm-1-1b-deal
  - $1b SPAC deal seen for Israeli medical robotics co Memic https://en.globes.co.il/en/article-1b-spac-deal-seen-for-israeli-medical-robotics-co-memic-1001371702
  - Bard buys Israeli hernia mesh co LifeBond https://en.globes.co.il/en/article-bard-buys-israeli-hernia-mesh-co-lifebond-1001314875
  - The phase I/II clinical study of the first european DNA vaccine against COVID-19 has started in Italy https://www.rottapharmbiotech.com/01-march-2021-press-release/
  - NRx and Israel partner to advance Covid-19 vaccine development

    https://www.pharmaceutical-technology.com/news/nrx-israel-vaccine-development/

  - Stryker buys Israeli orthopedic device co OrthoSpace for $220m https://en.globes.co.il/en/article-stryker-buys-israeli-orthopedic-device-co-orthospace-for-220m-1001278114

- Prof. Nyska worked for 10 years as a senior staff scientist and expert in Toxicologic Pathology at the **American National Toxicology Program (NTP**) of the National Institute of Health (NIH), followed by 8 year as an NTP Consultant. **Examples of awards related to his work at the NTP are presented in Appendix A.**

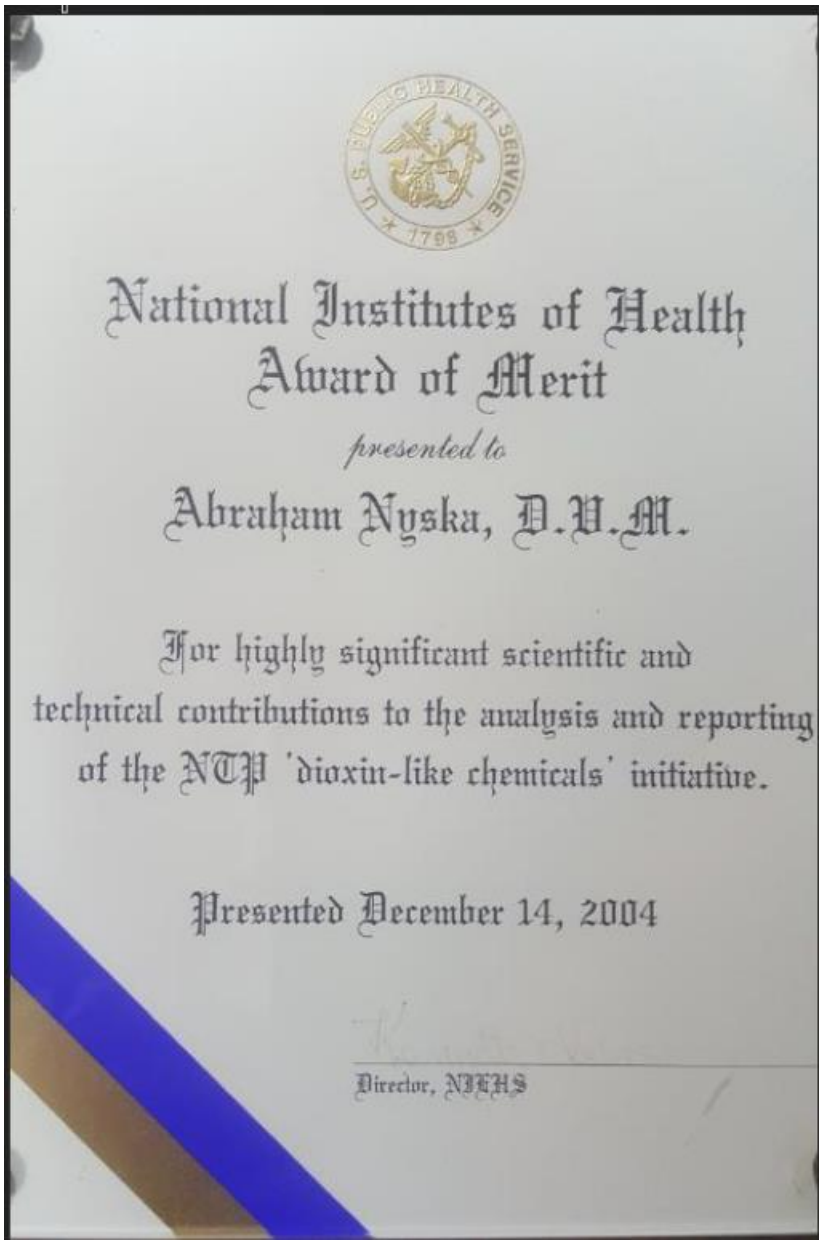
- Prof. Nyska served for 15 years as an Associate Editor of "Toxicologic Pathology", and now serves as a senior adviser to this journal. He has strong research-oriented attitude and vast collaboration with top federal research institutes (i.e., NIH, EPA) and academic institutes, with more than **500 publications** in peer-reviewed journals (**see link for publications as follows:** https://www.researchgate.net/profile/Abraham-Nyska), **and few examples of titles from recent publications, included in Appendix B**. **Prof. Nyska is a consultant in Toxicologic Pathology to pharmaceutical companies, CRO's, and Federal institutes in Israel, Europe, India and the USA.**

- His considerable deep knowledge, long-standing expertise, and dedication in the area of Toxicologic Pathology has earned him twice the highly valued NIH Director Award ***"In recognition of consistent dedication and teamwork, insuring quality evaluation and interpretation of pathology aspects of NTP studies", and "For highly significant scientific and technical contributions to the analysis and reporting of the NTP "dioxin-like chemicals" initiative".***

APPENDIX A:

Diploma, European College Veterinary Pathologist (Diplomate ECVP)

Examples of National Institute of Health (NIH) awards:



National Institutes of Health
Award of Merit

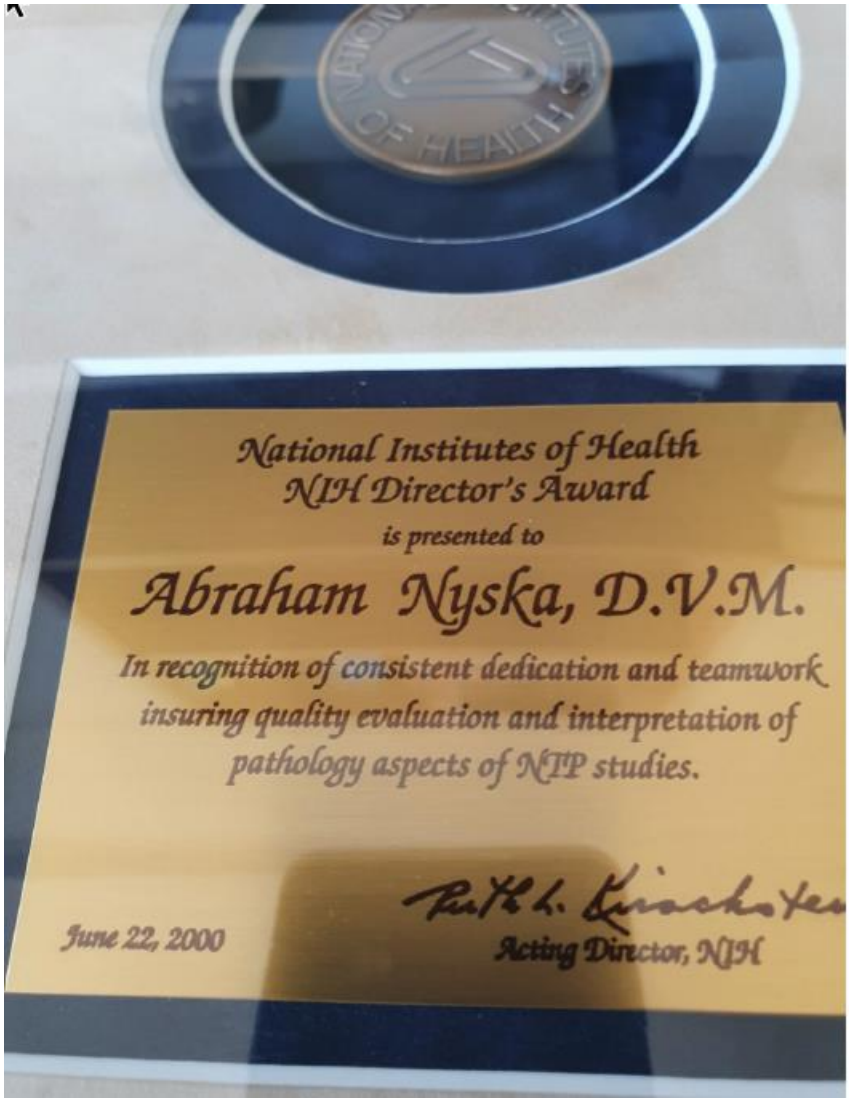
presented to

Abraham Nyska, D.V.M.

For highly significant scientific and technical contributions to the analysis and reporting of the NTP 'dioxin-like chemicals' initiative.

Presented December 14, 2004

Director, NIEHS


National Institutes of Health
NIH Director's Award
is presented to
Abraham Nyska, D.V.M.
In recognition of consistent dedication and teamwork insuring quality evaluation and interpretation of pathology aspects of NTP studies.
June 22, 2000
Acting Director, NIH

APPENDIX B: Examples of titles of recent publications:

Regulatory Toxicology and Pharmacology
Available online 10 February 2023, 105343
In Press, Journal Pre-proof What's this?

Oral chronic toxicity and carcinogenicity study of *alpha*-glycosyl isoquercitrin (AGIQ) in Sprague Dawley rats

Robert Maronpot [a], Yuval Ramot [b c], Abraham Nyska [d], Christopher Sproul [e], Rebecca Moore [e], Brad Bolon [f], Shim-mo Hayashi [g]

Show more

Int J Toxicol. 2023 Jan 12;10915818231152613. doi: 10.1177/10915818231152613. Online ahead of print.

Preclinical In-Vivo Safety of a Novel Thyrotropin-Releasing Hormone-Loaded Biodegradable Nanoparticles After Intranasal Administration in Rats and Primates

Yuval Ramot [1 2], Yakir Rottenberg [1 3], Abraham J Domb [4], Michael J Kubek [5], Kevin D Williams [6], Abraham Nyska [7]

J Toxicol Pathol. 2023 Jan;36(1):11-19. doi: 10.1293/tox.2022-0079. Epub 2022 Oct 31.

Safety and efficacy of a novel robotic, fractional micro-coring device in a swine model

Yuval Ramot [1 2], Udi Vazana [3], Orna Cacical [3], Abraham Nyska [4 5]

Affiliations + expand

PMID: 36683728 PMCID: PMC9837470 DOI: 10.1293/tox.2022-0079
Free PMC article

J Toxicol Pathol 2021; 34: 11–22

Original Article

Treatment of contaminated radial fracture in Sprague-Dawley rats by application of a degradable polymer releasing gentamicin

Yuval Ramot[1†], Michal Steiner[2†], Netanel Amouyal[2], Yossi Lavie[2], Guy Klaiman[2], Abraham J. Domb[3], Abraham Nyska[4*], and Tal Hagigit[5]

[1] Faculty of Medicine, The Hebrew University of Jerusalem, Israel; The Department of Dermatology, Hadassah Medical Center, POB 12000, Jerusalem, 9112001, Israel
[2] Envigo CRS (Israel), Einstein Street, 13B, P.O.B 4019, Science Park, Ness Ziona, Israel
[3] Institute of Drug Research, School of Pharmacy-Faculty of Medicine, The Hebrew University of Jerusalem, POB 12000, Jerusalem, 9112001 Israel
[4] Consultant in Toxicologic Pathology, Tel Aviv and Tel Aviv University, Yehuda HaMaccabi 31, Tel Aviv, 6200515, Israel
[5] Dexcel Pharma Technologies Ltd., 1 Dexcel St., Or-Akiva, 3060000, Israel

J Toxicol Pathol 2021; 34: 181–211

Review

The toxicologic pathology aspects of selected natural herbal products and related compounds

Ruba Ibrahim[1, 2], Abraham Nyska[3, 4*], June Dunnick[5], and Yuval Ramot[1, 2]

[1] Faculty of Medicine, Hebrew University of Jerusalem, Jerusalem, Israel
[2] Department of Dermatology, Hadassah Medical Center, Jerusalem, Israel
[3] Consultant in Toxicologic Pathology, Yehuda HaMaccabi 31, floor 5, Tel Aviv 6200515, Israel
[4] Tel Aviv University, Tel Aviv, Israel
[5] Toxicology Branch, Division of the National Toxicology Program, National Institute of Environmental Health Sciences, Research Triangle Park, NC, USA

Special issue: Review

polymers advanced technologies

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(wileyonlinelibrary.com) DOI: 10.1002/pat.3238

Histopathology of biodegradable polymers: challenges in interpretation and the use of a novel compact MRI for biocompatibility evaluation†

Abraham Nyska[a]*, Yael S. Schiffenbauer[b], Catherine T. Brami[b], Robert R. Maronpot[c] and Yuval Ramot[d]

Original Article

Local Tolerability and Performance Evaluation in Domestic Pigs of a Fractional Radiofrequency Device for Dermatologic Treatment

Toxicologic Pathology
1-8

DOI: 10.1177/0192623320922958
journals.sagepub.com/home/tpx

Yuval Ramot[1], Guy Klaiman[2], Michal Steiner[2], Yossi Lavie[2], Inna Belenky[3], and Abraham Nyska[4]

Food and Chemical Toxicology 97 (2016) 354–366

Contents lists available at ScienceDirect

Food and Chemical Toxicology

journal homepage: www.elsevier.com/locate/foodchemtox

Ninety-day toxicity and single-dose toxicokinetics study of *alpha*-glycosyl isoquercitrin in Sprague-Dawley rats

Abraham Nyska [a, *], Shim-mo Hayashi [b], Mihoko Koyanagi [b], Jeffrey P. Davis [c], Micheal P. Jokinen [c], Yuval Ramot [d], Robert R. Maronpot [e]

[a] Sackler School of Medicine, Tel Aviv University, Toxicologic Pathology, Timrat, Israel
[b] Global Scientific and Regulatory Affairs, San-Ei Gen, F.F.I., Inc., Osaka, Japan
[c] Integrated Laboratory Systems, Research Triangle Park, NC, USA
[d] Hadassah - Hebrew University Medical Center, Jerusalem, Israel
[e] Maronpot Consulting LLC, Raleigh, NC, USA

Original Article

Local Tolerance and Biodegradability of a Novel Biodegradable Artificial Dura Mater Graft Following Implantation Onto a Dural Defect in Rabbits

Toxicologic Pathology
1-9

DOI: 10.1177/0192623320947075
journals.sagepub.com/home/tpx

Yuval Ramot[1], Sagi Harnof[2], Ido Klein[3], Netanel Amouyal[3], Michal Steiner[3], Nora Nseir Manassa[4], Amir Bahar[4], Serge Rousselle[5], and Abraham Nyska[6]

Original Article

Chemical-Induced Oral Squamous Cell Neoplasms in Rodents: An Overview of NTP 2-Year Cancer Studies

Toxicologic Pathology
1-15

DOI: 10.1177/0192623321989956
journals.sagepub.com/home/tpx
SAGE

Ruba Ibrahim[1,2], Amy Brix[3], David E. Malarkey[4], Abraham Nyska[5], Michal Asif[1,2], and Yuval Ramot[1,2]

Brief Communications

Microscope-Based Automated Quantification of Liver Fibrosis in Mice Using a Deep Learning Algorithm

Toxicologic Pathology
1-8

DOI: 10.1177/01926233211003866
journals.sagepub.com/home/tpx
SAGE

Yuval Ramot[1,2], Ameya Deshpande[3], Virginia Morello[4], Paolo Michieli[4,5], Tehila Shlomov[1,6], and Abraham Nyska[7]

BASIC INVESTIGATION

OPEN

CorNeat KPro: Ocular Implantation Study in Rabbits

Gilad Litvin, MD, Ido Klein, BSc, MBA,* Yoav Litvin, PhD,† Guy Klaiman, PhD,‡ and Abraham Nyska, DVM§*

*J Toxicol Pathol 2021; 34: **–***

Original Article

Safety and efficacy of sFilm-FS, a novel biodegradable fibrin sealant, in Göttingen minipigs

Yuval Ramot[1,2†], Michal Steiner[3†], Yossi Lavie[3], Nati Ezov[3], Orgad Laub[4], Eran Cohen[4], Yotam Schwartz[4], and Abraham Nyska[5,6*]

[1] Faculty of Medicine, Hebrew University of Jerusalem, Jerusalem, Israel
[2] Department of Dermatology, Hadassah Medical Center, Jerusalem, 91120, Israel
[3] Envigo CRS (Israel), Ness Ziona, 7403617, Israel
[4] Sealantium Medical, Afek Industrial Area, P.O.B. 11817, Rosh Ha'Ayin, 4809239, Israel
[5] Consultant in Toxicologic Pathology, Yehuda HaMaccabi 31, floor 5, Tel Aviv, 6200515, Israel
[6] Tel Aviv University, 6200515, Israel

Original Article

Toxicity and Local Tolerance of COVID-eVax, a Plasmid DNA Vaccine for SARS-CoV-2, Delivered by Electroporation

Toxicologic Pathology
1-14

DOI: 10.1177/0192623321042263
journals.sagepub.com/home/tpx
SAGE

Yuval Ramot[1,2], Gianfranco Caselli[3], Luigi Aurisicchio[4,5], Isabella Andreini[6], Emanuele Marra[4], Laura Luberto[4], Daniela Stoppoloni[4], Maria Lucrezia Pacello[4], Laura Monetini[7], and Abraham Nyska[8]

Toxicologic Pathology, 43: 1127-1140, 2015

ISSN: 0192-6233 print / 1533-1601 online
DOI: 10.1177/0192623315600275

Long-term Local and Systemic Safety of Poly(L-lactide-co-epsilon-caprolactone) after Subcutaneous and Intra-articular Implantation in Rats

Yuval Ramot[1], Abraham Nyska[2], Elana Markovitz[3], Assaf Dekel[3], Guy Klaiman[4], Moran Haim Zada[5], Abraham J. Domb[5], and Robert R. Maronpot[6]

[1]*Hadassah—Hebrew University Medical Center, Jerusalem, Israel*
[2]*Tel Aviv University and Consultant in Toxicologic Pathology, Timrat, Israel*
[3]*Ortho-Space Ltd., Caesarea, Israel*
[4]*Harlan Biotech Israel Ltd., Rehovot, Israel*
[5]*Institute for Drug Research, School of Pharmacy, Faculty of Medicine, The Hebrew University of Jerusalem, Ein Kerem, Jerusalem, Israel*
[6]*Maronpot Consulting LLC, Raleigh, North Carolina, USA*

Biocompatibility and Systemic Safety of a Novel Implantable Annuloplasty Ring for the Treatment of Mitral Regurgitation in a Minipig Model

Toxicologic Pathology
1-8

DOI: 10.1177/0192623315627217
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Yuval Ramot[1], Serge D. Rousselle[2], Nadav Yellin[3], Udi Willenz[4], Itai Sabag[4], Avi Avner[5], and Abraham Nyska[6]

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Article

Biodegradable Breast Tissue Marker Clip

Moran Haim Zada, Zehava Gallimidi, Michal Schlesinger−Laufer, Abraham Nyska, and Abraham J. Domb*