

## Scholar

About 30 results: 10+ articles and 2 patents published; 3 biomarkers discovered; 2+ human syndromes solved (0.1 century)

### Skills:

#### Molecular biology

Microarray  
Multiplex  
RNAseq  
siRNA  
CRISPR  
Western blot  
BAP/TAP  
PCR/qPCR  
ChIP

#### Cellular biology

Primary human cells  
Primary murine cells  
Cell-based assays  
Flow cytometry  
Cell cycle analysis  
Microscopy  
Viral works

#### Immunology

Signal transduction  
Transgenic mice  
Immunoprecipitation  
Human blood RNA  
Plasma cytokines  
B-lymphocytes  
Macrophage  
ELISA  
ICH  
IHC

#### Software

Proteomic databases  
Genomic databases  
LSM Browser  
Total Lab  
ImageJ  
Vector NTI

Did you mean: [Starokadomskyy Petro, PhD](#)

### User profile for Starokadomskyy Petro



Research Scientist at UT Southwestern Medical center, Dallas, TX  
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### Summary

**PhD degree in biotechnology, 8 years of practical experience in immunology and cancer biology:**

4 years of postdoctoral training at UT Southwestern Medical Center, Dallas, TX, USA

2 years of postdoctoral training at Weizmann Institute of Science, Israel

#### Experienced with:

- Potential target discovery in immune and oncology-related signaling pathways in human (*immunology*)
- Biochemical characterization of signaling pathways and protein networks in cancer and inflamed cells (*biochemistry*)
- Establishing of the cellular and animal models of diseases, including primary human cells (*cell biology*)

### Selected publications

DNA polymerase- $\alpha$  regulates type I interferon activation through cytosolic RNA:DNA synthesis.

[P Starokadomskyy, et al. Nature Immunology, 2016](#)

Discovered that *POLA1* is a causative gene in patients with XLPDR syndrome. We found, that a new role of well-known polymerase is to restrict excessive activation of type I interferon response through generation of previously unknown cytoplasmic RNA:DNA hybrids...

CCDC22 deficiency in humans blunts activation of proinflammatory NF- $\kappa$ B signaling

[P Starokadomskyy, et al. - Journal of Clinical Investigation, 123\(5\): 2244-2256, 2013](#)

Identification of the role of previously uncharacterized protein CCDC22 in the human inflammatory response using skin fibroblasts and blood cells from several patients with XLID syndrome...

### Experience

**UT Southwestern Medical Center (Dallas, TX)**

2010 – present

**Research Scientist / Postdoctoral researcher II**

- Discovered the gene mutation and mechanism leading to immunologic disorders in patients with XLPDR syndrome
- Discovered the critical role of CCDC22 protein in the human inflammatory response in patients with XLID

**Published 7 articles**

**Supervised 4 summer students**

**Weizmann Institute of Science (Israel)**

2007 – 2010

**Postdoctoral Fellow**

- Extensive research of a major inflammatory regulator NIK (MAP3K14)
- Patented as a single author a new technology of Ultrasound-Assisted Immunoassay

**Published 1 article**

**Obtained 1 patent**

**Institute of Molecular Biology and Genetics (Ukraine)**

2005 – 2007

**Staff Scientist / PhD student**

- Developed a protocol for affinity purification of recombinant human growth hormone using intein-based technology

**Published 7 articles**

**Earned PhD degree in biotechnology**

**Phage Biotechnology Corporation (Ukraine)**

2000 – 2005

**Staff Scientist / PhD student**

- Executed preclinical study of chewing gum with insulin for treatment of diabetes-associated oral disorders
- Designed and patented the insulin-containing chewing gum as a new concept of anti-diabetic drug

**Published 6 articles**

**Obtained 1 patent**

### Education

**Ph.D. Biotechnology**

2006

Institute of Molecular Biology and Genetics, Kiev (Ukraine)

GPA – 5.0 (5.0 is top score, top 10% of class)

**M.S. Biochemistry**

1999

National University 'Ivan Franko', Lviv (Ukraine)

GPA – 4.75 (5.0 is top score, top 10% of class)

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