

# Curriculum Vitae

Personal information Lyudmil Antonov

## Work experience

- 1. Employer: Bulgarian Drug Agency Start date: 10.2004
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  - End date: Present Position: Chief Expert

  - Activities: Assessing medicinal products dossiers Issuing Marketing Authorisations
  - Country: Bulgaria
- 2. Employer: Diagnosis C & S Ltd.
  - Start date: 02.2001 End date: 10.2004

  - Position: Medical Statistician and IT Manager Activities: Statistics support of clinical trials Administration of the corporate IT System
  - Country: Bulgaria
- 3. Employer: Institute of Genetic Engineering Start date: 09.1987

  - End date: 01.2001 Position: Biostatistician and Research Associate
  - Activities: Statistical support of research activities
- Country: Bulgaria
   Employer: Institute of Molecular Biology
  - - Start date: 08.1983 End date: 08.1987
    - Position: Biostatistician
    - Activities: Statistical support of research
  - Country: Bulgaria
- Employer: Medical Academy, St Naum University Hospital in Neurology, Psychiatry and Neurosurgery
   Start date: 06.1980
  - . End date: 07.1983
  - Position: Statistician
  - Activities: Statistical analysis of results from clinical trials Set\_up of experimental design
  - Country: Bulgaria

## Education and training

- 1. Subject: Molecular and Computational Biology
  - Start date: 10.1975 End date: 06.1980

  - Qualification: Master of Science (M.Sc.) Organisation: Sofia University St. Kliment Ohridski Country: Bulgaria
- 2. Subject: Bio- and Medical Statistics Start date: 01.1981
  - End date: 05.1983

  - Qualification: Post\_Diploma Qualification Organisation: Medical Academy, Sofia
- Country: Bulgaria 3. Specialisation on a joint VT-IGE project
  - Start date: 09.1988
  - End date: 05.1992
  - Qualification: Graduate Student Organisation: Virginia Polytechnic Institute & State University Country: USA
- 4. Subject: Microbiology, Virology and Immunology Start date: 06.1992 End date: 07.1995

  - Qualification: Doctor of Philosophy (Ph. D.) Organisation: Institute of Genetic Engineering
  - Country: Bulgaria

### Additional information

#### Publications

- 1. Chakarska, Deniza and Lyudmil Antonov. Application of intuitionistic fuzzy sets in plant tissue culture and
- Chakarska, Deinza and Eydnini Antoniov. Application of infutitionistic 1022y sets in plant dissue culture and in vitro selection, Notes on IFS, 1(1):70-73, 1995
   Todorovska E., Atanassova A., Antonov L., Atanassov A. Studies on the mouse rpL32 pseudogene family: features of a new member, Biological Chemistry, 378(12):1531-5, PubMed ID (PMID):9461352, 1997
   Atanassov I, Antonov L., Russinova E., Atanassov A. Expression of an anther\_specific chalcone synthase\_like gene is correlated with uninucleate microspore development in Nicotiana sylvestris, Plant
- Molecular Biology, 38(6):1169-78, PubMed ID (PMID):9869422, 1998
   Todorovska E., Antonov L., Dudov K. RFLPs in human genome detected by human ribosomal protein cDNA probe, Biotechnology and Biotechnological Equipment, 10(2-3): 10-17, 1996

	<ol> <li>Antonov L., Atanassov A., Dudov K. Site_specific inactivation of bacterial genes involved in plant soft rot, Biotechnology and Biotechnological Equipment 9(1):14-28, 1995</li> <li>Vayda M., Yang Z., Antonov L., Butler W. Hypoxic stress inhibits aerobic wound_induced resistance and activates hypoxic resistance to bacterial soft rot, American Potato Journal, 69(4):239-253, DOI 10.1007/BF02853878, 1992</li> <li>Antonov L., Milanov K. Antibodies to myelin basic protein in multiple sclerosis: a long-term study, Bulletin of the Institute of Neurology, Psychiatry and Neurosurgery, 27:65-68, 1983</li> <li>Milanov K., Antonov L., Manolova Z. Microcomplement fixation with myelin basic protein as a test for multiple sclerosis, Bulletin of the Institute of Neurology, Psychiatry and Neurosurgery, 27:69-72, 1983</li> <li>Antonov L and Milanov K. Inhibition of synaptic acetylcholineseterase by antibodies found in sera of schizophrenic patients, Bulletin of the Institute of Neurology, Psychiatry and Neurosurgery, 6:105-108, 1982</li> <li>A. Stoimenova, Lyudmil Antonov. Biological, biotechnological and biosimilar medicinal products, Annual for Hospital Pharmacy, 1(1): 16-24, 2015</li> <li>A. Stoimenova, A. Savova, Lyudmil Antonov. Quality assurance aspects of the biotechnological medicinal products. Chapter 9 in Biotechnological medicines: from the laboratory to the patient. St. Kliment Ohridski University Publishing House. Sofia, 2016</li> <li>Fauconnier A., Antonov L. Manufacturing and quality control issues: Quality development of biosimilar medicinal products. Chapter 5 in Biosimilar Drug Product Development, Vol. 216 of Drugs and the Pharmaceutical Sciences Series (L. Endrenyi, P. Declerck, ShCh. Chow, eds.), CRC Press, Taylor &amp; Francis Group, LLC, Boca Raton, FL, 2017</li> <li>Bogdan Kirilov, Lyudmil Antonov, E. Grigorov. Dynamics and sources of adverse drug reaction reports related to COVID-19 vaccines in Bulgaria (in Bulgarian). Sotsialna medicina, Medical University-Varna,</li></ol>
Projects	<ul> <li>Small nuclear RNAs and spliceosomes in eukaryotes, 1978-1980, MSc. Thesis</li> <li>Immunological activities of myelin basic protein in multiple sclerosis, 1980-1983</li> <li>Sequence analysis of ribosomal RNA genes in eukaryotes, 1983-1986</li> <li>Comparative analysis of pectate lyase genes from the bacterium Erwinia carotovora, 1987-1992, Ph. D. Dissertation</li> <li>Sequence analysis of chalcone synthase gene from Nicotiana tabacum, 1993-1996</li> <li>Sequence analysis of the mouse L32 pseudogene family, 1997-2000</li> <li>Statistical analysis of clinical bioequivalence studies at Diagnosis C &amp; S Ltd., 2001-2004</li> <li>Statistical analysis of the pharmacovigilance database at the Bulgarian Drug Agency, 2020-Present</li> </ul>
Memberships	<ul> <li>BWP Member, EMA, 2009-Present</li> <li>TIGes Member, EMA, 2008-2013</li> <li>CMDh Member, EMA, 2015-2021</li> <li>Member of the Editorial Board of "Biotechnology and Biotechnological Equipment", 1997-2001</li> <li>Member of Bulgarian Association for Medicinal Information, 2011-Present</li> </ul>

#### Other Relevant Information

- Evaluation team member for the statistical part of the CP procedure for GAZIVARO (obinutuzumab), Roche . Registration Ltd. •
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- Registration Ltd. Evaluation team member for the statistical part |Design space) of the veterinary CP procedure for Imrestor (Pegbovigrastim), Elanco GmbH Consultant for the scientific advice (statistical part, Q4) of RGB-03 (Rituximab biosimilar to Mabthera), Gedeon Richter Plc., EMEA/H/SA/2222/1/FU/2/2014/III Consultant for the scientific advice (statistical part) of Repatha (evolocumab), Amgen Consultant for the scientific advice (statistical analysis of stability studies) of Focetria (influenza vaccine H1N1V (surface antigen, inactivated, adjuvanted), Novartis Vaccines and Diagnistics s.r.l. Core Team Member on Reflection Paper "Statistical Methodology for the comparative assessment of quality attributes in drug development", EMA Project Moderator at Session 3 "Statistical Considerations in Setting Acceptance Criteria" at Expert Workshop on Setting Specifications for Biotech Products, 9 Sept. 2011, EMA