



НОВ БЪЛГАРСКИ УНИВЕРСИТЕТ
NEW BULGARIAN UNIVERSITY



EXPLOITATION RESULTS OF MIS IMUNOLOG

I. Penjurov, P. Mihova, J. Vinarova

Department of biomedical sciences, NBU, Bulgaria

penjurov@nbu.bg, pmihova@nbu.bg, jvinarova@nbu.bg



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Ne varietatem timeamus



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Master Class of Raina Kabaivanska 2008

Singers—students and professionals up to the age of 32 years and abroad are eligible for the Master Class in Opera Singing.

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History



In July 1989 some university teachers and research-workers established the Society for New...

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☐ Yes
☐ No

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(Display results)

NBU Today

EVENTS



Second European Congress of Early Prevention in Children with Verbal Communication Disorders

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The University: A special world of Freedom. Bogdan Bogdanov. The book comprises articles, studies, speeches: "The University as a Historical From and Tradition..."

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DEFINITION OF LUPUS

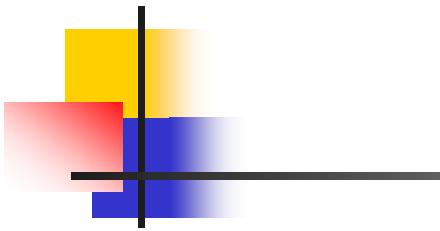
- ❑ Lupus is a **chronic, autoimmune, connective tissue disease** which causes inflammation in various parts of the body. The body's immune system, which normally protects the body against foreign invaders such as germs, viruses, flu and bacteria, for some reason, loses the ability to tell the difference between these foreign substances and the body's own cells and tissues.
- ❑ The immune system becomes overactive, mistakenly turns against itself (**auto = self**) and attacks the person's own body, causing inflammation and possible **long-term or chronic** damage to various parts of the body.
- ❑ Lupus is known as a **connective tissue** or **rheumatic disease** which is a group of disorders that cause aches and pains in the connective tissues - joints, muscles and bones, however, lupus can also affect many other parts of the body, including the skin, kidneys, heart, lungs, blood vessels and brain.

Country/Region	Extrapolated Prevalence	Population Estimated Used
Lupus in North America (Extrapolated Statistics)		
USA	1,511,461	293,655,405 ¹
Canada	167,319	32,507,874 ²
Mexico	540,233	104,959,594 ²
Lupus in Central America (Extrapolated Statistics)		
Belize	1,404	272,945 ²
Guatemala	73,503	14,280,596 ²
Nicaragua	27,586	5,359,759 ²
Lupus in Caribbean (Extrapolated Statistics)		
Puerto Rico	20,063	3,897,960 ²
Lupus in South America (Extrapolated Statistics)		
Brazil	947,579	184,101,109 ²
Chile	81,446	15,823,957 ²
Colombia	217,776	42,310,775 ²
Paraguay	31,867	6,191,368 ²
Peru	141,772	27,544,305 ²
Venezuela	128,765	25,017,387 ²
Lupus in Northern Europe (Extrapolated Statistics)		
Denmark	27,863	5,413,392 ²
Finland	26,839	5,214,512 ²
Iceland	1,513	293,966 ²
Sweden	46,253	8,986,400 ²
Lupus in Western Europe (Extrapolated Statistics)		
Britain (United Kingdom)	310,216	60,270,708 for UK ²
Belgium	53,263	10,348,276 ²
France	311,006	60,424,213 ²
Ireland	20,431	3,969,558 ²
Luxembourg	2,381	462,690 ²
Monaco	166	32,270 ²
Netherlands (Holland)	83,990	16,318,199 ²
United Kingdom	310,216	60,270,708 ²
Wales	15,019	2,918,000 ²

Lupus in Central Europe (Extrapolated Statistics)		
Austria	42,075	8,174,762 ²
Czech Republic	6,414	1,0246,178 ²
Germany	424,244	82,424,609 ²
Hungary	51,637	10,032,375 ²
Liechtenstein	172	33,436 ²
Poland	198,812	38,626,349 ²
Slovakia	27,915	5,423,567 ²
Slovenia	10,353	2,011,473 ²
Switzerland	38,350	7,450,867 ²
Lupus in Eastern Europe (Extrapolated Statistics)		
Belarus	53,068	10,310,520 ²
Estonia	6,905	1,341,664 ²
Latvia	11,870	2,306,306 ²
Lithuania	18,570	3,607,899 ²
Russia	741,042	143,974,059 ²
Ukraine	245,679	47,732,079 ²
Lupus in the Southwestern Europe (Extrapolated Statistics)		
Azerbaijan	40,499	7,868,385 ²
Georgia	24,159	4,693,892 ²
Portugal	54,168	10,524,145 ²
Spain	207,327	40,280,780 ²
Lupus in Southern Europe (Extrapolated Statistics)		
Greece	54,803	10,647,529 ²
Italy	298,825	58,057,477 ²
Lupus in the Southeastern Europe (Extrapolated Statistics)		
Albania	18,245	3,544,808 ²
Bosnia and Herzegovina	2,097	407,608 ²
Bulgaria	38,695	7,517,973 ²
Croatia	23,145	4,496,869 ²
Macedonia	10,500	2,040,085 ²
Romania	115,065	22,355,551 ²
Serbia and Montenegro	55,721	10,825,900 ²

Lupus in Northern Asia (Extrapolated Statistics)		
Mongolia	14,161	2,751,314 ²
Lupus in Central Asia (Extrapolated Statistics)		
Kazakhstan	77,945	15,143,704 ²
Tajikistan	36,088	7,011,556 ²
Uzbekistan	135,935	26,410,416 ²
Lupus in Eastern Asia (Extrapolated Statistics)		
China	6,685,245	1,298,847,624 ²
Hong Kong s.a.r.	35,283	6,855,125 ²
Japan	655,390	127,333,002 ²
Macau s.a.r.	2,291	445,286 ²
North Korea	116,825	22,697,553 ²
South Korea	248,262	48,233,760 ²
Taiwan	117,094	22,749,838 ²
Lupus in Southwestern Asia (Extrapolated Statistics)		
Turkey	354,601	68,893,918 ²
Lupus in Southern Asia (Extrapolated Statistics)		
Afghanistan	146,761	28,513,677 ²
Bangladesh	727,487	141,340,476 ²
Bhutan	11,249	2,185,569 ²
India	5,481,981	1,065,070,607 ²
Pakistan	819,392	159,196,336 ²
Sri Lanka	102,453	19,905,165 ²
Lupus in Southeastern Asia (Extrapolated Statistics)		
East Timor	5,246	1,019,252 ²
Indonesia	1,227,331	238,452,952 ²
Laos	31,232	6,068,117 ²
Malaysia	121,071	23,522,482 ²
Philippines	443,891	86,241,697 ²
Singapore	22,409	4,353,893 ²
Thailand	333,866	64,865,523 ²
Vietnam	425,470	82,662,800 ²

Lupus in the Middle East (Extrapolated Statistics)		
Gaza strip	6,819	1,324,991 ²
Iran	347,442	67,503,205 ²
Iraq	130,605	25,374,691 ²
Israel	31,906	6,199,008 ²
Jordan	28,881	5,611,202 ²
Kuwait	11,619	2,257,549 ²
Lebanon	19,441	3,777,218 ²
Saudi Arabia	132,773	25,795,938 ²
Syria	92,733	18,016,874 ²
United Arab Emirates	12,990	2,523,915 ²
West Bank	11,895	2,311,204 ²
Yemen	103,069	20,024,867 ²
Lupus in Northern Africa (Extrapolated Statistics)		
Egypt	391,780	76,117,421 ²
Libya	28,986	5,631,585 ²
Sudan	201,497	39,148,162 ²
Lupus in Western Africa (Extrapolated Statistics)		
Congo Brazzaville	15,431	2,998,040 ²
Ghana	106,837	20,757,032 ²
Liberia	17,451	3,390,635 ²
Niger	58,473	11,360,538 ²
Nigeria	91,362	12,5750,356 ²
Senegal	55,856	10,852,147 ²
Sierra Leone	30,284	5,883,889 ²
Lupus in Central Africa (Extrapolated Statistics)		
Central African Republic	19,262	3,742,482 ²
Chad	49,095	9,538,544 ²
Congo kinshasa	300,161	58,317,030 ²
Rwanda	42,404	8,238,673 ²



Lupus in Eastern Africa (Extrapolated Statistics)		
Ethiopia	367,173	71,336,571 ²
Kenya	169,760	32,982,109 ²
Somalia	42,744	8,304,601 ²
Tanzania	185,658	36,070,799 ²
Uganda	135,832	26,390,258 ²
Lupus in Southern Africa (Extrapolated Statistics)		
Angola	56,507	10,978,552 ²
Botswana	8,437	1,639,231 ²
South Africa	228,778	44,448,470 ²
Swaziland	6,018	1,169,241 ²
Zambia	56,749	11,025,690 ²
Zimbabwe	18,899	1,2671,860 ²
Lupus in Oceania (Extrapolated Statistics)		
Australia	102,494	19,913,144 ²
New Zealand	20,556	3,993,817 ²
Papua New Guinea	27,898	5,420,280 ²

- **EXTRAPOLATED STATISTICS ONLY!** Not based on data sources from individual countries. These statistics are calculated extrapolations of various prevalence or incidence rates against the populations of a particular country or region. The statistics used for prevalence/incidence of Lupus are typically based on US, UK, Canadian or Australian prevalence or incidence statistics, which are then extrapolated using only the population of the other country



Diagnosis of Lupus

- Difficult to diagnose Lupus
 - Lupus symptoms mirror other diseases' symptoms, and Lupus symptoms often come and go
- No single lab test to diagnose Lupus
- American College of Rheumatology (ACR) issued a list of 11 symptoms and tests to help diagnose Lupus patients.
 - A person with Lupus experiences at least four of these symptoms or prove positive to at least 4 of these tests. The symptoms do not have to occur at the same time though.
- Medical history (including family history)
- Complete physical examination
- Laboratory tests
- Skin or kidney biopsy



LUPUS RESEARCH

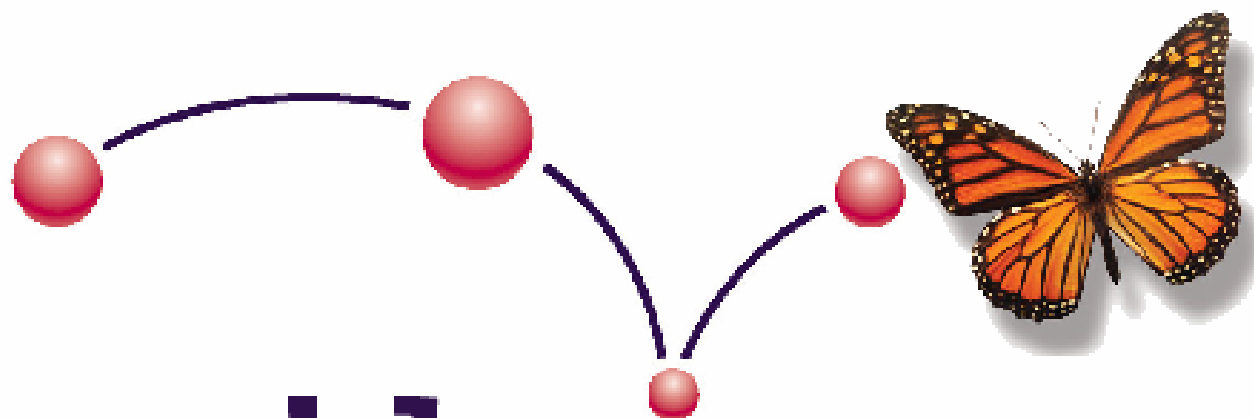
- How does the immune system work?
 - What causes the disease?
 - What is the best way to treat lupus?
- ✓ Clinical trials
 - ✓ Identify genes
 - ✓ Find a cause
 - ✓ Test + develop new medications
 - ✓ Find a cure

Data base IMMUNOLOG

+ Алгоритми на диагнозата и лечението на някои аутоимунни заболявания



Лични Данни Визити Справки Администратор Изход



Be Like Us

TO INVESTIGATE LUPUS




COMMON LABORATORY TESTS

- Antinuclear Antibody (ANA)
- Anti DNA
- Anti-Sm
- Anti-RNP
- Anti-Ro (SSA)
- Anti-La (SSB)

Please choose Criteria for Search :

- ☐ Malar rash
- ☐ Discoid rash
- ☐ Photosensitivity
- ☐ Aphthosa
- ☐ Arthritis
- ☐ Serositis
- ☐ Nephritis
- ☐ Neurolupus
- ☐ Hematological involvement
- ☐ Immunological investigations
 - ☐ C3
 - ☐ C4
 - ☐ ANCA
 - ☐ ANA
 - ☐ iga
 - ☐ igg
 - ☐ igm
 - ☐ igaac1
 - ☐ iggac1
 - ☐ igmac1
 - ☐ igaB2
 - ☐ aggB2
 - ☐ igmB2
 - ☐ La
 - ☐ Factor V
 - ☐ 20210

 Search Clear

Personal data

	PIN	Visit number	Date	Disease beginning

 Statistics

Please choose searching criteria :

☐ Skin involvement

- ☐ Malar rash
- ☐ Photosensitivity
- ☐ Discoid rash
- ☐ Alopecia
- ☐ Purpura
- ☐ Rash
- ☐ Teleangiectasiae
- ☐ Urticaria
- ☐ Digital skin vasculitis
- ☐ Leg ulcers
- ☐ Subcutaneous nodules
- ☐ Itch
- ☐ Paniculitis
- ☐ Perinungual erythema
- ☐ Bullae
- ☐ Periorbital oedema
- ☐ Livedo reticularis

☐ Cardiac involvement

- ☐ Pericarditis
- ☐ Myocarditis
- ☐ Endocarditis
- ☐ Arrhythmia
- ☐ Myocardial infarction
- ☐ Valvular involvement

☐ Neuro-psychiatric manifestations

- ☐ Cerebellar ataxia
- ☐ Depressia
- ☐ Organic Brain Syndrom
- ☐ lupus headache
- ☐ psychosis
- ☐ scizures
- ☐ cranial nerve disfunction
- ☐ peripheral neuropathy
- ☐ cerebrovascular incidents
- ☐ paralyses,parese,etc.
- ☐ sensory disturbance
- ☐ aseptic meningitis
- ☐ pseudotumor cerebi
- ☐ coordination disturbance

- ☐ omnibulation,spoor,coma
- ☐ cortical atrophy
- ☐ lacunar infarction

☐ Joint and muscular involvement

- ☐ Arthritis
- ☐ Arthralgiae
- ☐ Deforming arthritis
- ☐ Tendinitis
- ☐ Myositis
- ☐ Myalgiae
- ☐ Muscle weakness

☐ Lung involvement

- ☐ Pleuritis
- ☐ Pulmonitis
- ☐ Atelectases
- ☐ Interstitial involvement
- ☐ Diaphragmal involvement
- ☐ Dyspnea during rest
- ☐ Dyspnea during effort
- ☐ Pulmonary hypertension

☐ Ocular manifestation

- ☐ Retinopathy
- ☐ Conjunctivitis
- ☐ Keratoconjunctivitis secca

☐ Hematological involvement

- ☐ Hemolitic anemia
- ☐ Leukopeny
- ☐ Thrombocytopeny
- ☐ Lymphocytopeny
- ☐ Non-hemolitic anemia
- ☐ Lymphadenopathy

☐ Vascular involvement

- ☐ Arterial thromboses
- ☐ Venous thromboses
- ☐ Arterial hypertension
- ☐ Raynaud Phenomena

☐ Abdominal involvements

- ☐ Oral ulcerations
- ☐ Nausea/Vomiting
- ☐ Abdominal pain
- ☐ Serositis
- ☐ Pancreatitis
- ☐ Vasculitis of the gut
- ☐ Hepatitis
- ☐ Ascitis
- ☐ Hepatomegaly
- ☐ Splenomegaly

☐ Renal involvement

- ☐ Serum creatinin
- ☐ Creatinin clearance
- ☐ Proteinuria
- ☐ Hematuria
- ☐ Piuria
- ☐ Sediment
- ☐ Renal histology

☐ Obsterics investigation

- ☐ Placenta thromboses
- ☐ Тромбоза на пъпна връв
- ☐ Abortion
- ☐ Death birth
- ☐ Еклампсия
- ☐ Прееклампсия
- ☐ HEELP

☐ Immunological investigations

- ☐ C3
- ☐ C4
- ☐ ANCA
- ☐ factor V
- ☐ 20210
- ☐ Ribosomal Ab

Search		Clear		Personal data	
PIN	Visit number	Date	Dis. beginning		

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| <input type="checkbox"/> dsDNA | <input type="checkbox"/> dsDNA |
| <input type="checkbox"/> ssDNA | <input type="checkbox"/> ssDNA |
| <input type="checkbox"/> sm | <input type="checkbox"/> sm |
| <input type="checkbox"/> RND | <input type="checkbox"/> RND |
| <input type="checkbox"/> Ro | <input type="checkbox"/> Ro |
| <input type="checkbox"/> La | <input type="checkbox"/> La |
| <input type="checkbox"/> scl-70 | <input type="checkbox"/> scl-70 |
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| <input type="checkbox"/> Histone B | <input type="checkbox"/> Histone B |
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Please choose Activity criteria:

Result above :

- ☐ Seizure
- ☐ Psychosis
- ☐ Organic brain syndrome
- ☐ Ocular manifestations
- ☐ Cranial nerve involvement
- ☐ Lupus headache
- ☐ CVA
- ☐ Vasculitis
- ☐ Arthritis
- ☐ Myositis
- ☐ Active urinary sediment
- ☐ Hematuria
- ☐ Proteinuria
- ☐ Piuria
- ☐ Alopecia
- ☐ Mucosal ulcerations
- ☐ Pleuritis
- ☐ Pericarditis
- ☐ Low complement level
- ☐ DNA
- ☐ High fever
- ☐ Thrombocytopeny
- ☐ Leukopeny

Search

Clear

Personal data

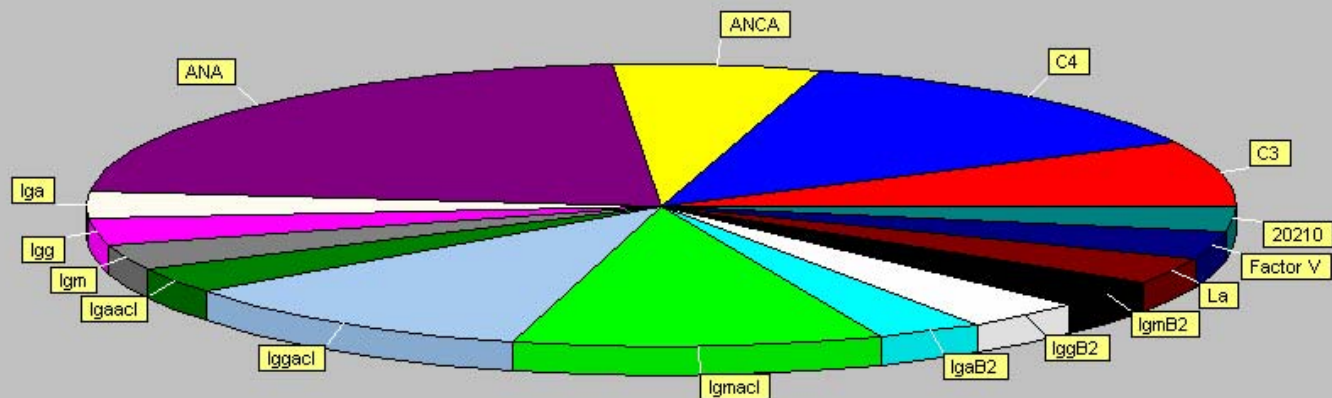
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ARA Критерии



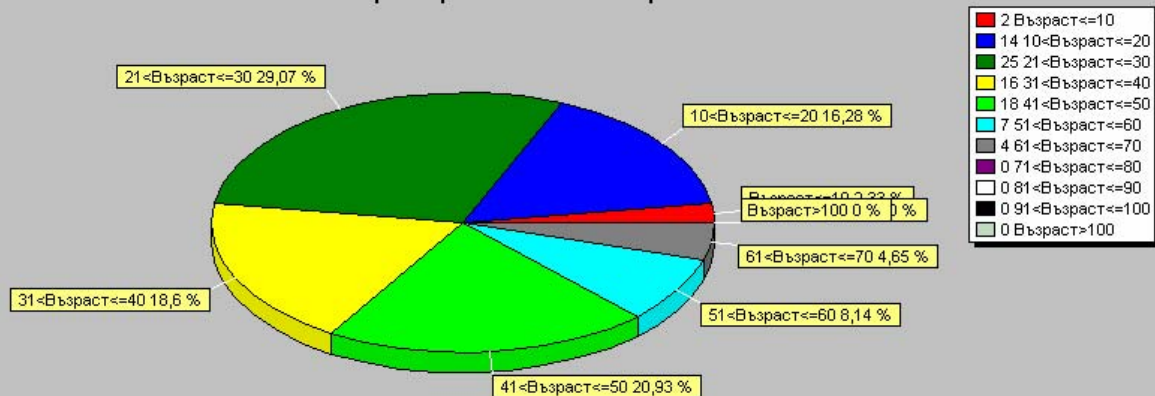
128	Пеперудообразен еритем
43	Дискоидни лезии
136	Фотосенсибилизация
40	Аптоза
232	Артрит
99	Серозит
247	Нефрит
83	Невролупус
157	Кръвна тъкан

Имунологични отклонения



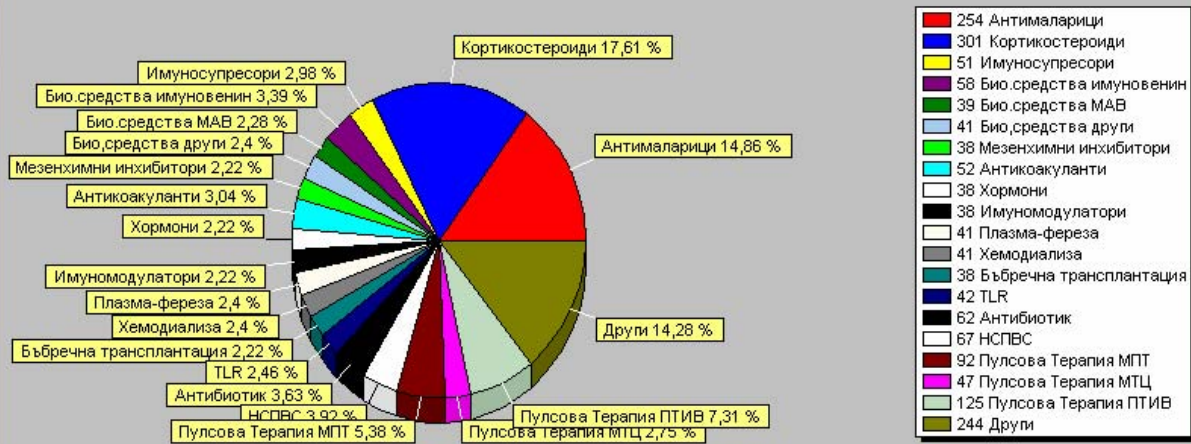
93	C3
164	C4
73	ANCA
276	ANA
38	Iga
38	Igg
37	Igm
38	IgaacI
130	IggacI
130	IgmacI
38	IgaB2
41	IggB2
41	IgmB2
39	La
38	Factor V
38	20210

Статистика по възраст при попълване на протокола



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Статистика лечения

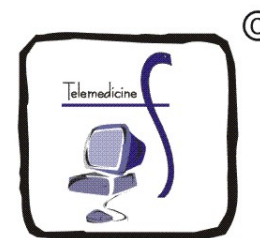
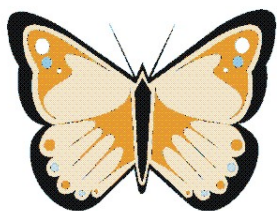


Експорт към Excel



НОВ БЪЛГАРСКИ УНИВЕРСИТЕТ
NEW BULGARIAN UNIVERSITY

Департамент "Медикобиологични науки"



**Компютърни приложения за
избрани ревматоидни
заболявания**

Съставители: И. Пенджуров, П. Михова

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Thank You

