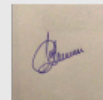


DEZVOLTAREA UNUI SISTEM DE DIAGNOSTICARE AL PSEUDOPUBERTĂȚII PRECOCE LA ȘOBOLANI INDUSĂ DE EXPUNEREA LA LUMINA ALBASTRĂ

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Danku Alex



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Timis Daniel



Stilul de viață modern se caracterizează prin expunerea constantă la lumina artificială, care este asociată cu alterări ale ritmurilor biologice, cu pubertatea precoce cât și cu modificări metabolice.

Acest studiu își propune:

- să **identifice mecanismul de inducere a pubertății precoce și legătura dintre aceasta și**
- să **identifice modificările ce au loc la nivel metabolic în condițiile expunerii la lumina albastră**

Expunerea la lumina albastră determină inducerea precoce a pubertății printr-o serie de modificări:

- **la nivel fizic** - greutate corporală
 - deschidere vaginală
 - evoluția țesutului glandular mamar
 - dimensiunii testiculare
- **la nivel metabolic** -modificarea profilului lipidic
 - modificarea metabolismului glucidic
 - modificarea markerilor de inflamație și stress oxidativ cu potențial în inducerea bolilor asociate

1. **Evaluarea instalării pseudopubertății** precoce la șobolanii cu vârsta de 21 de zile, în urma expunerii la lumina albastră prin **monitorizarea modificărilor clinice evidente:**

- greutatea corporală
- cuantificarea deschiderii vaginale
- evoluția dimensiunii țesutului glandular mamar în cazul femelelor
- măsurarea dimensiunii testiculare în cazul masculilor

OBIECTIVE SPECIFICE – REALIZATE

2. **Evaluarea instalării pseudopubertății** precoce în urma expunerii la lumina albastră prin evaluarea
 - **ritmului circadian** cu determinarea nivelului de *melatonină* și *cortizol*
 - **metabolismului lipidic** cu determinarea nivelului seric de *leptină*, *colesterol*, *lipoproteine de înaltă densitate (HDL)*, *lipoproteine cu densitate joasă (LDL)*, *triglyceride*
 - **metabolismului glucidic** cu determinarea nivelului seric de *glucoză*, *insulină*
 - **funcției hepatice** cu determinarea nivelului seric de AST, ALT
 - **funcției renale**: uree
 - **statusul inflamației generale** (TNF, IL-6)
 - **evaluarea stresului oxidativ** (TOS, MDA, NO)

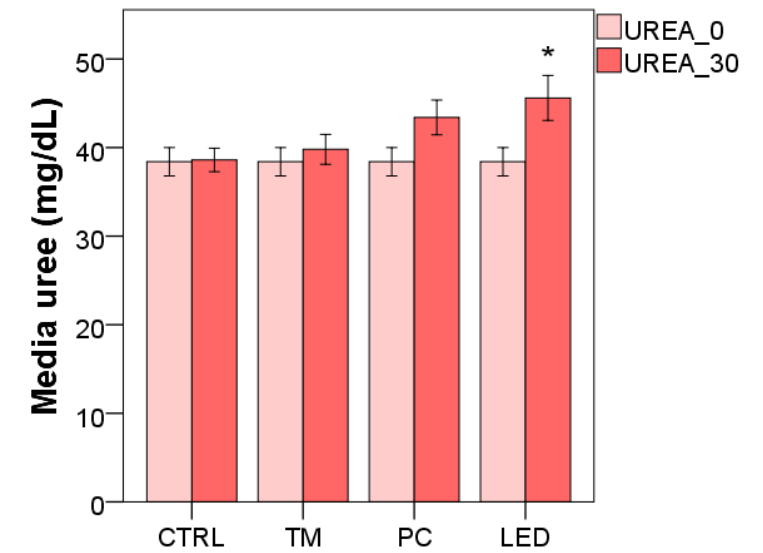
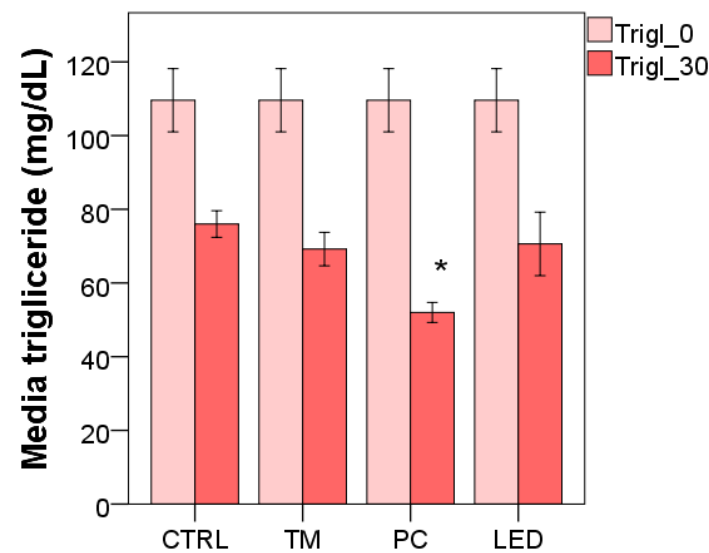
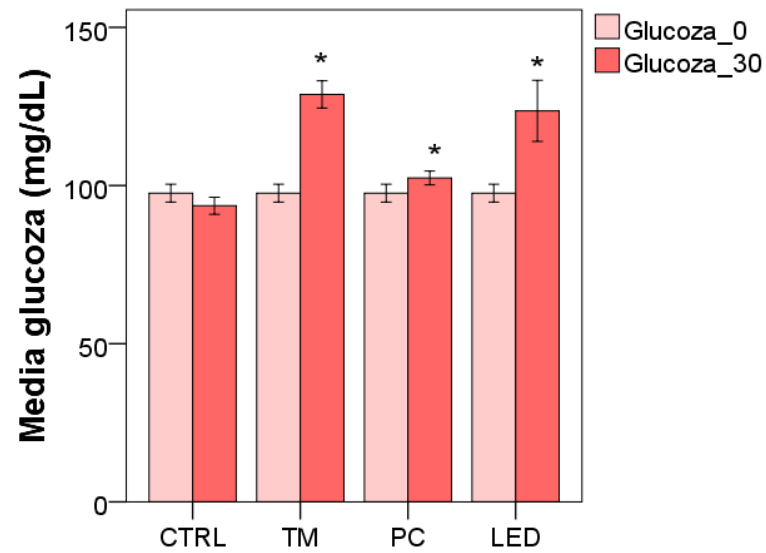
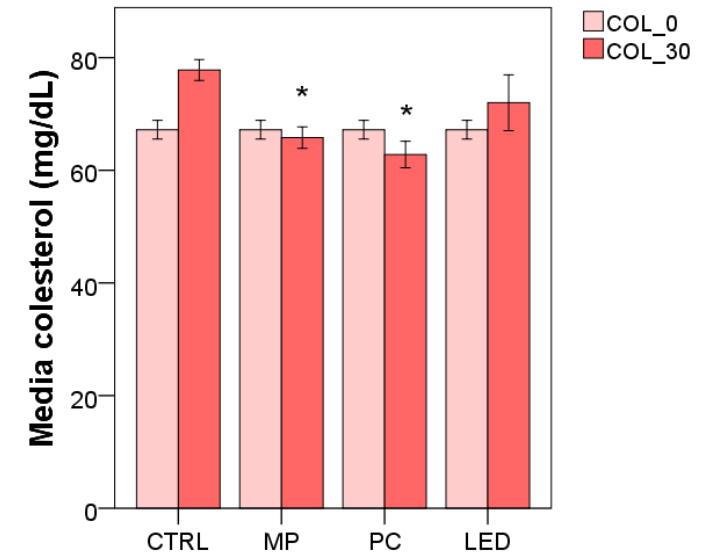
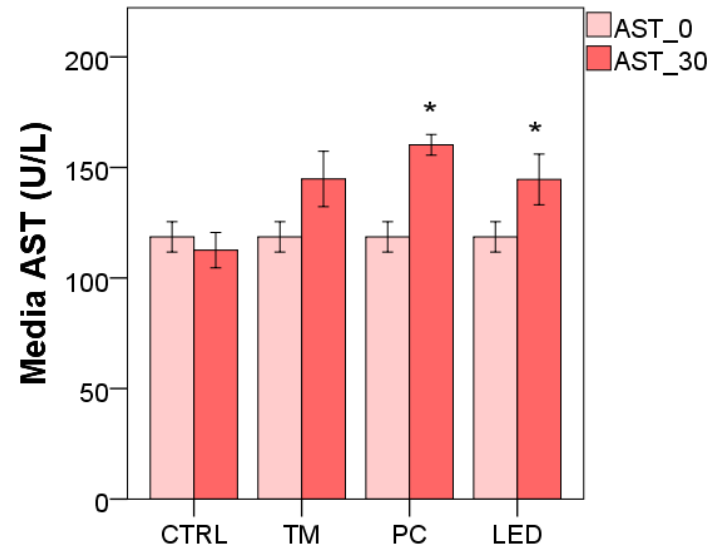
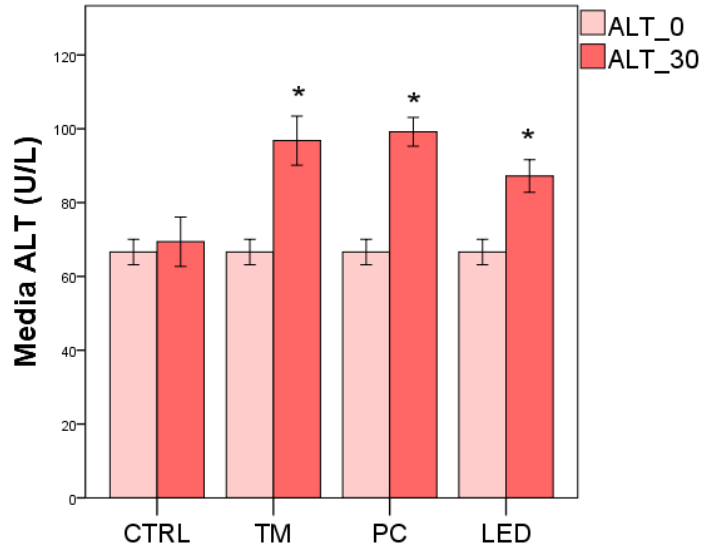
LIVRABILE

Gantt	Activitate/ luna	Implicare membrii proiect						2023						2024														
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O1	PL1																											
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	PL2																											
	A.2.1.	X	X	X																								
	A.2.3.	x	X	X																								
	A.2.5.	x	x	x																								
O2	PL3																											
	A.3.1.	x	X																									
	A.3.2.	x	X																									
	A.3.3.	x	X																									
O3	PL4																											
	A.4.1	x				X	X	X																				
	A.4.2.	x				X	X	X																				
	A.4.3.	x				X	X	X																				
	A.4.4.	X				X	X	X																				
	PL5																											
	A.5.1.	X	X	X	X	X	X																					
	PL6																											
	A.6.1.	X	X	X	X	X	X																					
A.6.2.	X																											
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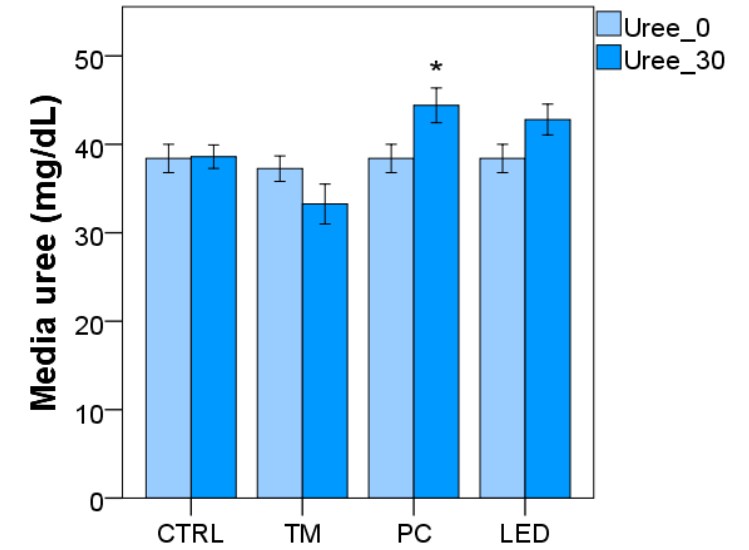
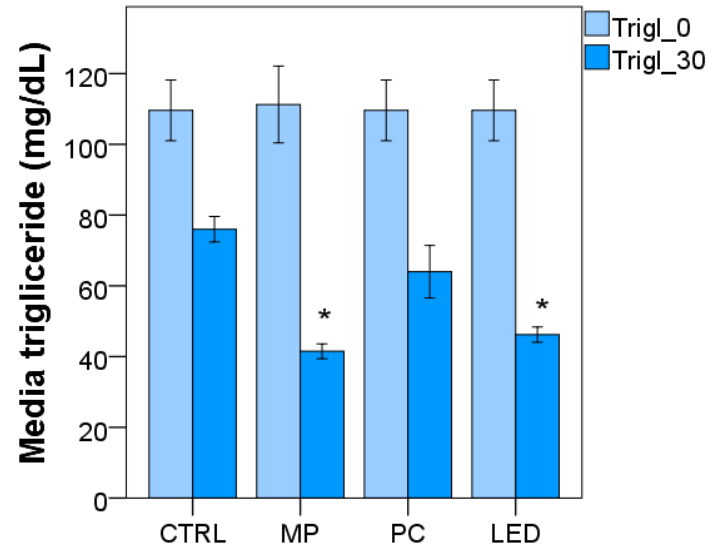
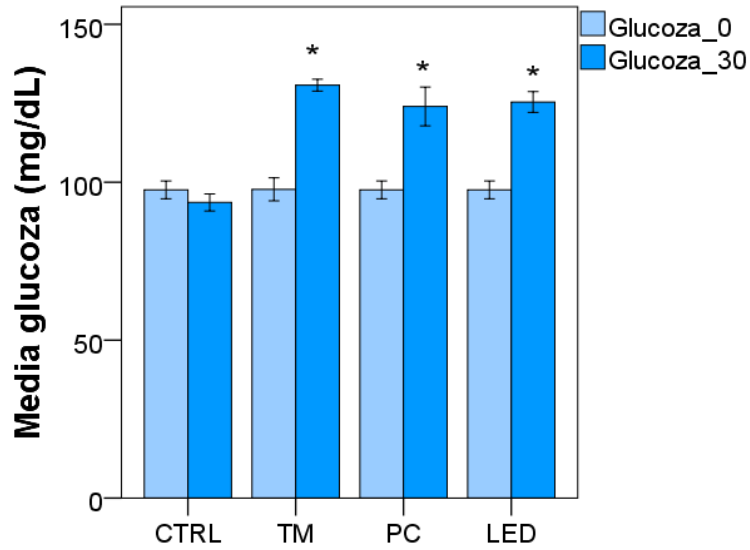
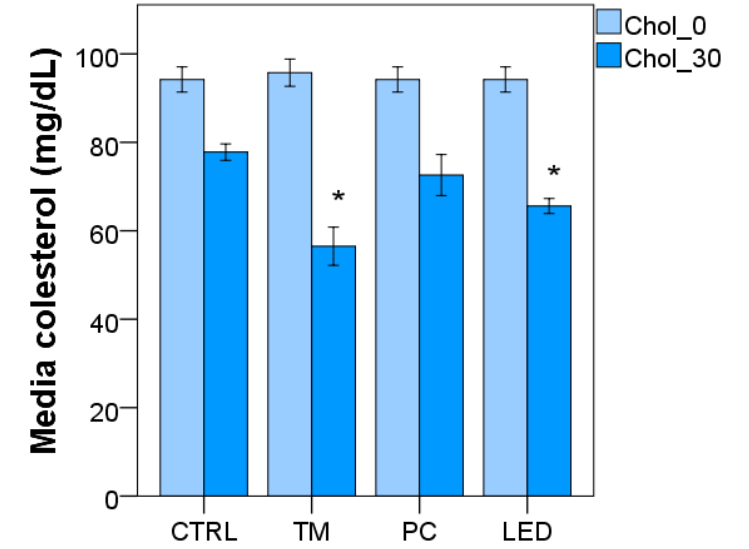
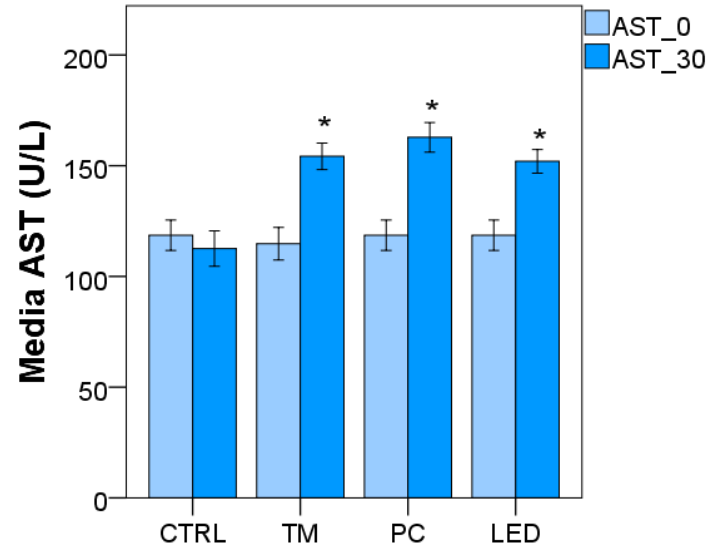
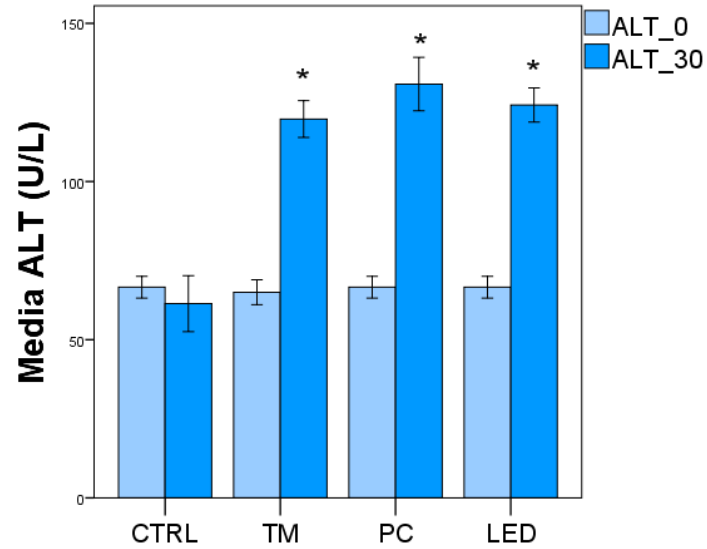
Legenda: DP-Director proiect; M (1-6) - Membru in echipa; RMP-Pop Raluca Maria; GLM-Gherman Luciana-Mădălina
MEL-Mogosan Emilia-Laura; DA-Danku Alex; LN-Lorenzovici Noemi; TD-Timis Daniel

- raport privind perioada deschiderii vaginale (L1)
- raport examen citologic si imaginile frotiurilor vaginale (L2)
- raport privind evaluarea tesutului mamar (L3)
- raport analiza privind evolutia greutatii (L4)
- raport analize biochimice (L5)
- raport analize ELISA (L6)
- raport examen anatomopatologic(L7)
- Baza de date (L8)
- Raport privind sistemul de diagnosticare (L9)
- Sistem de diagnosticare (L10)
- 2 articole ISI quartila Q1/Q2 (L11)
- Raport financiar și științific anual (L12)

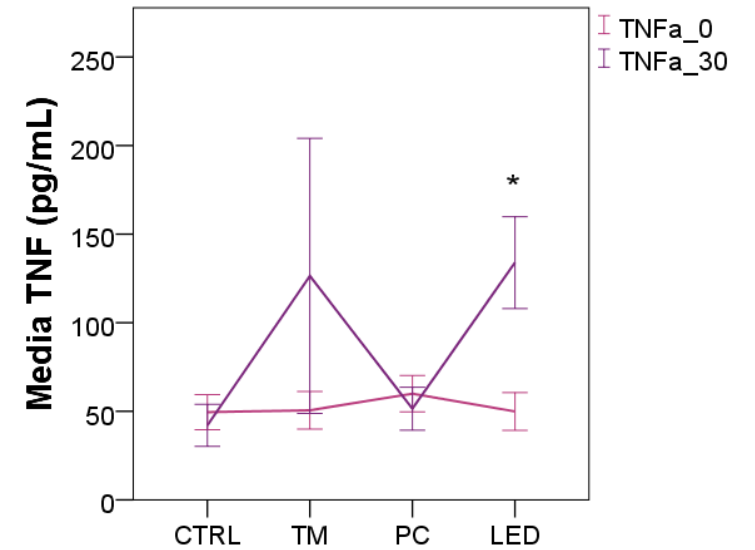
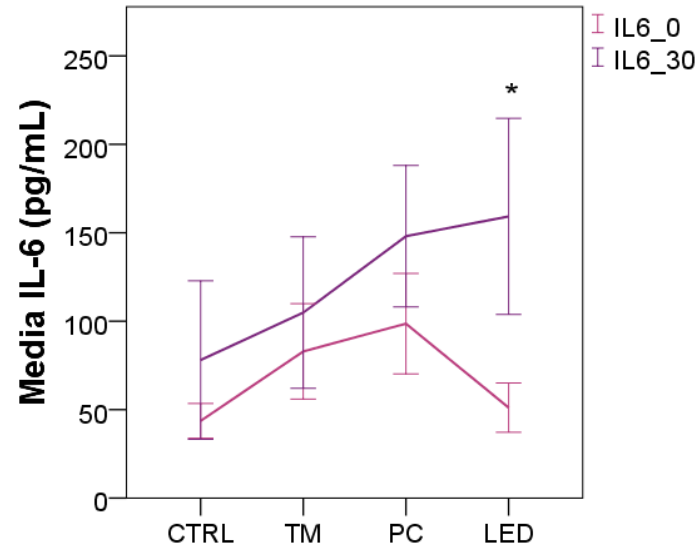
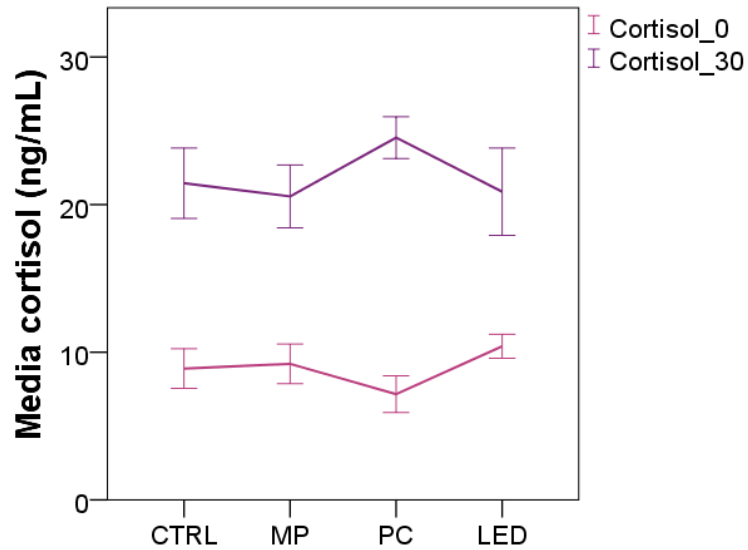
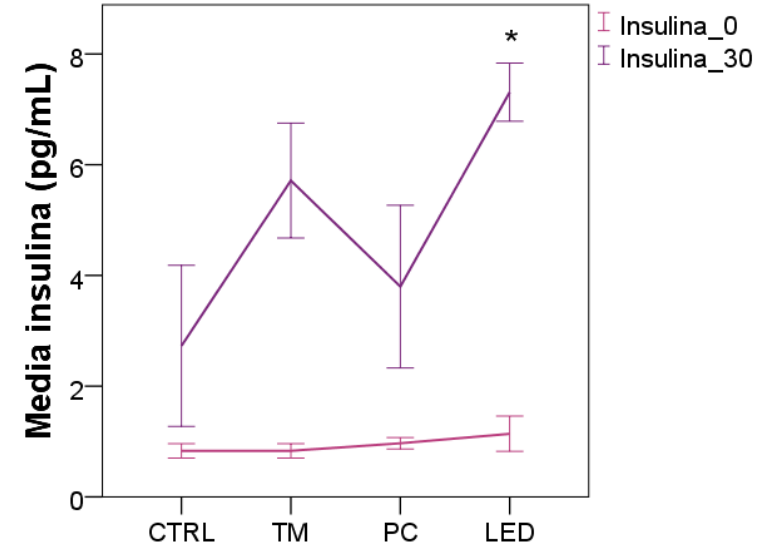
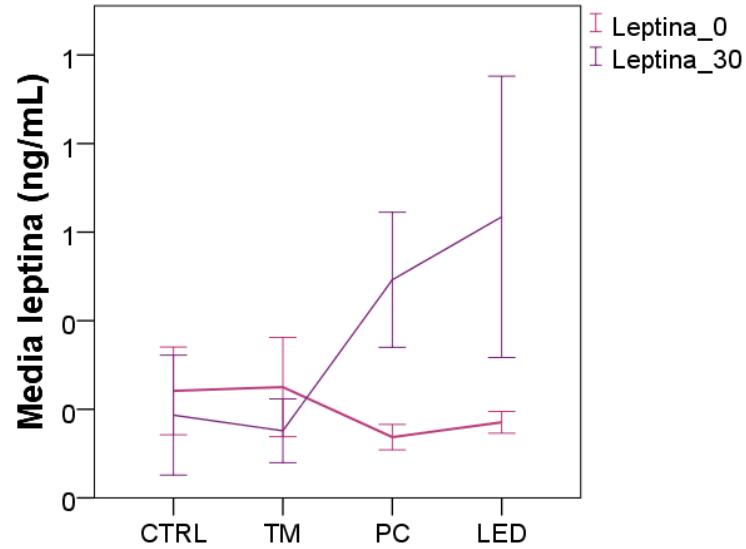
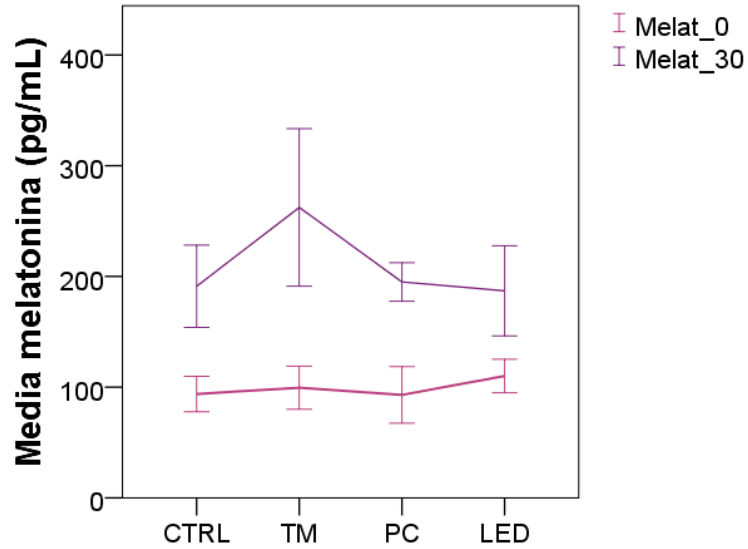
Raport privind analizele biochimice (L5)



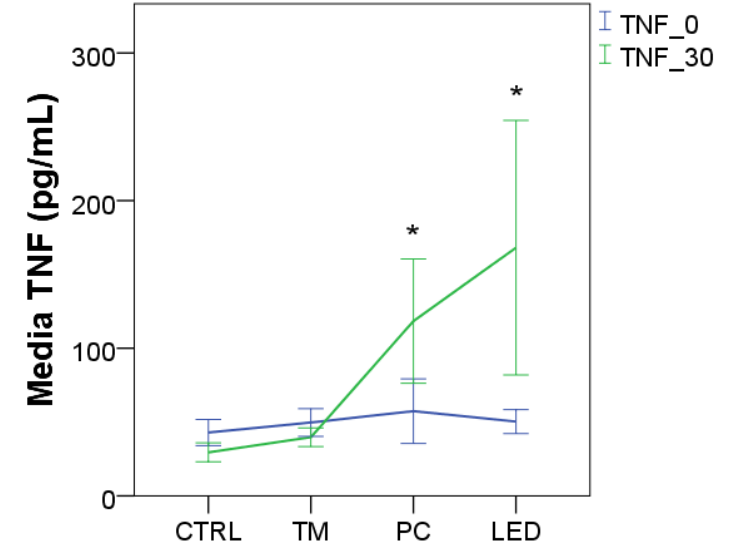
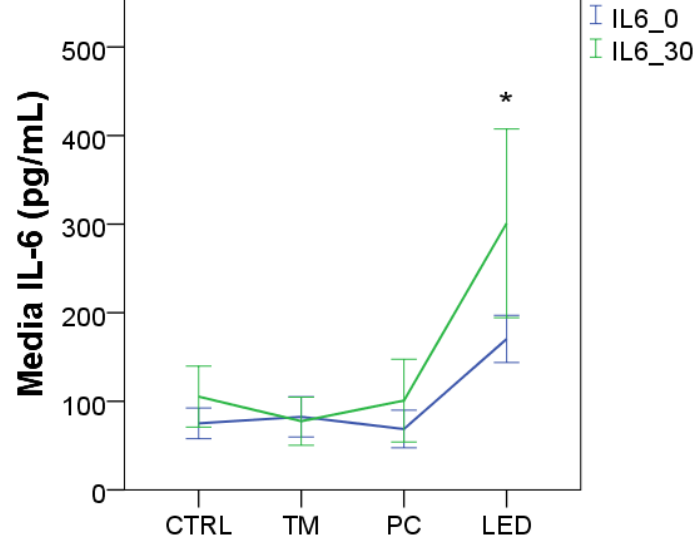
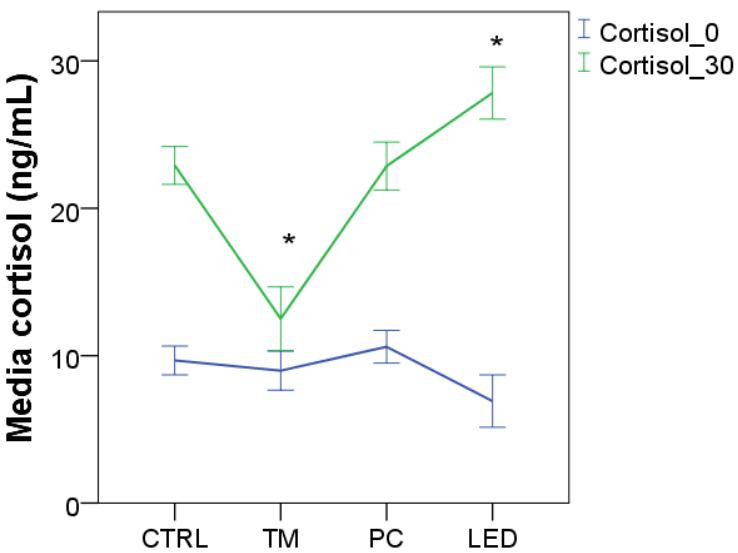
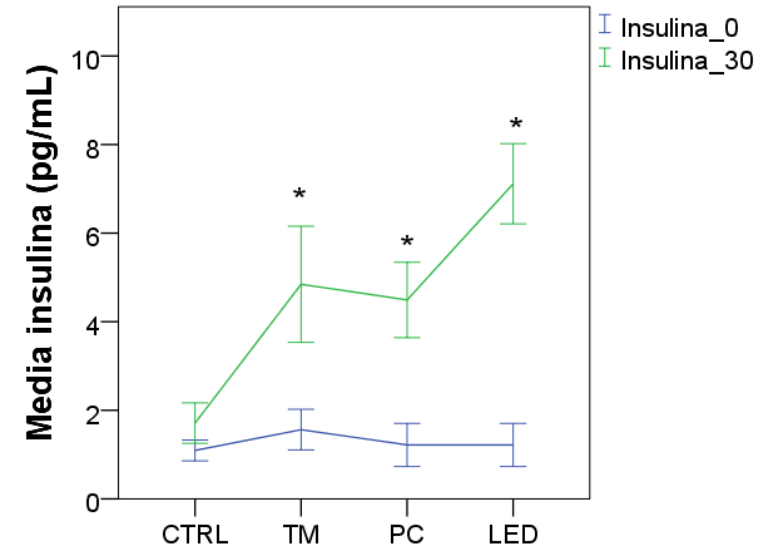
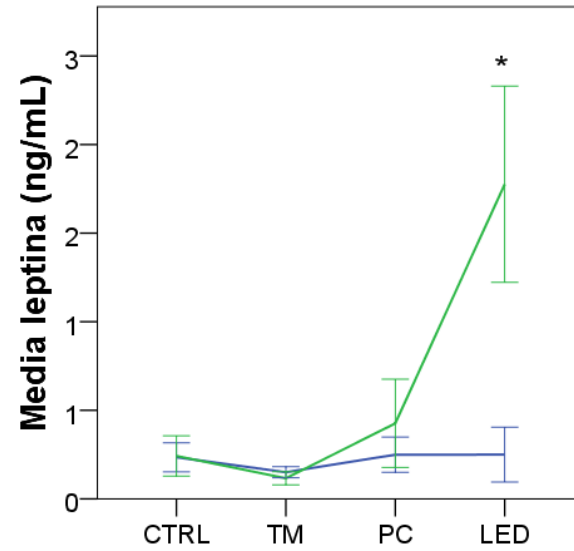
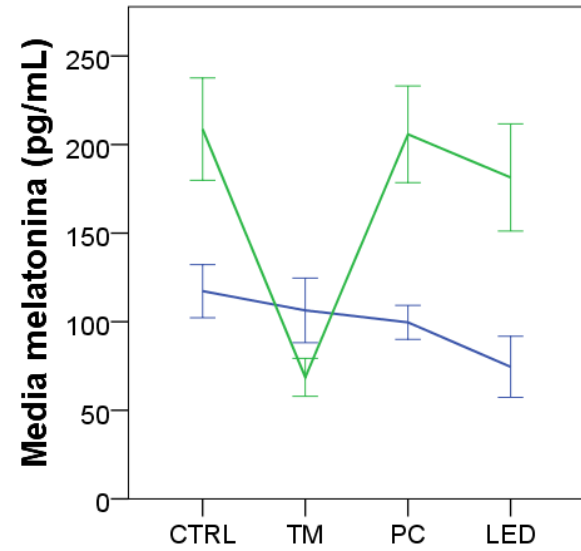
Raport privind analizele biochimice (L5)



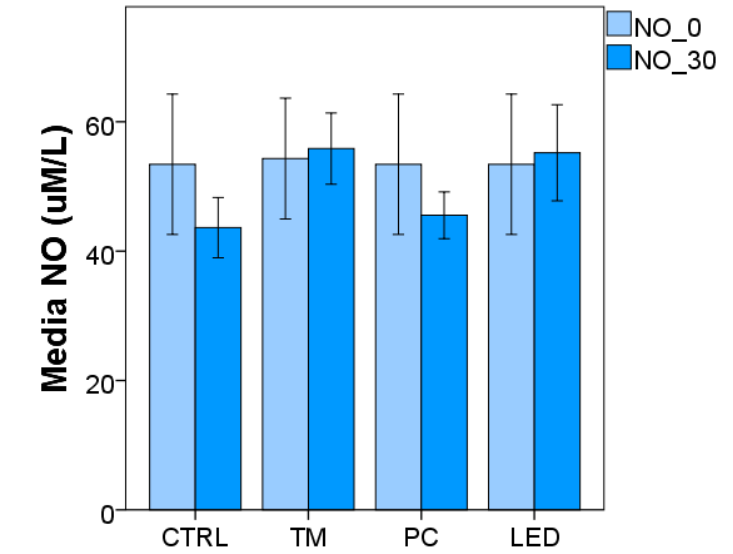
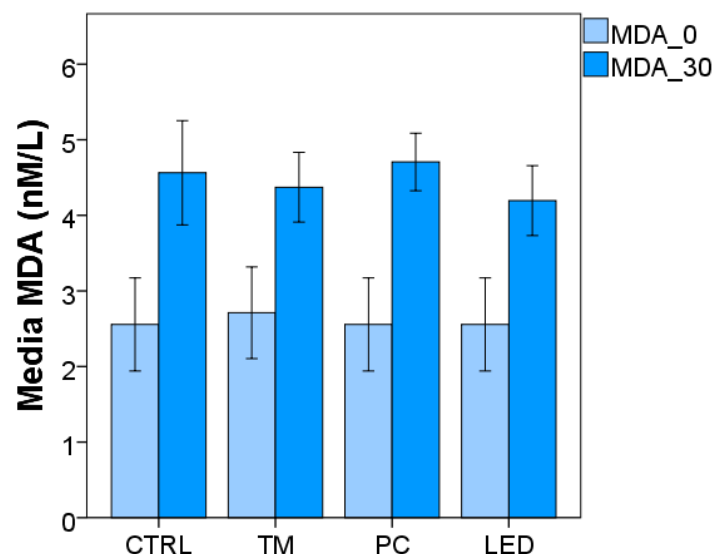
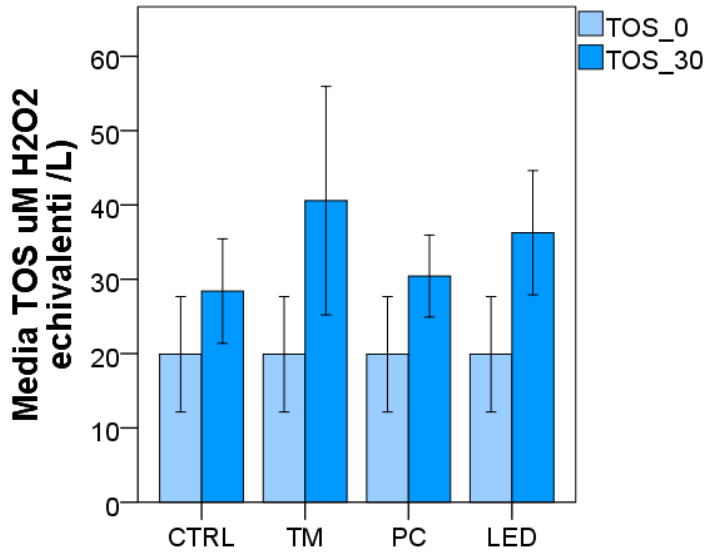
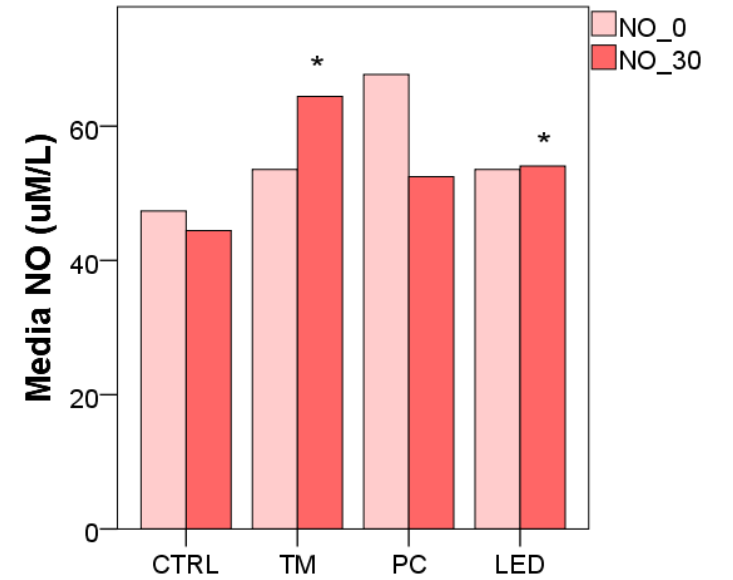
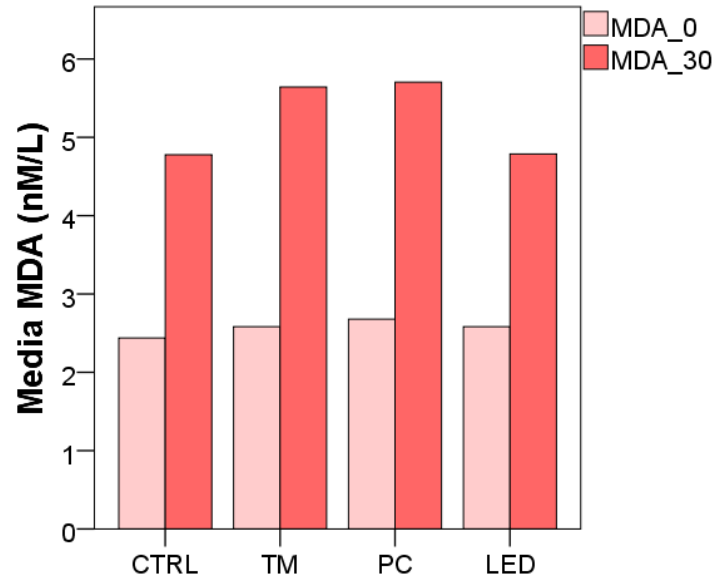
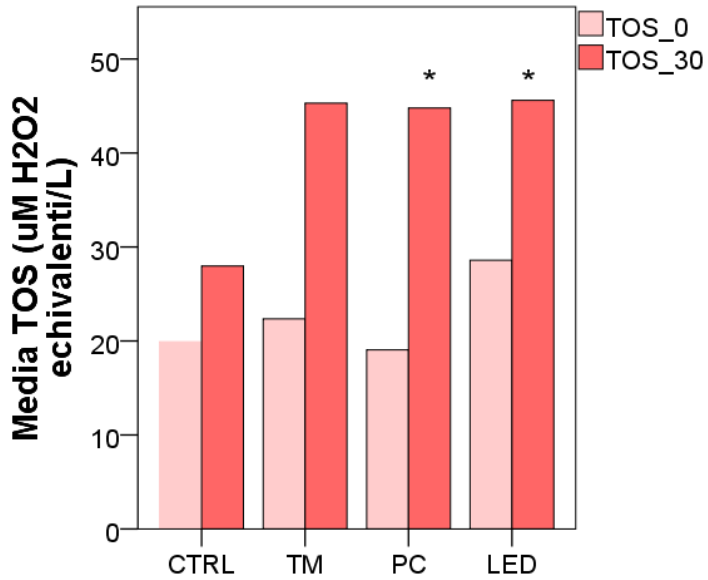
Raport privind rezultatele analizei ELISA (L6)



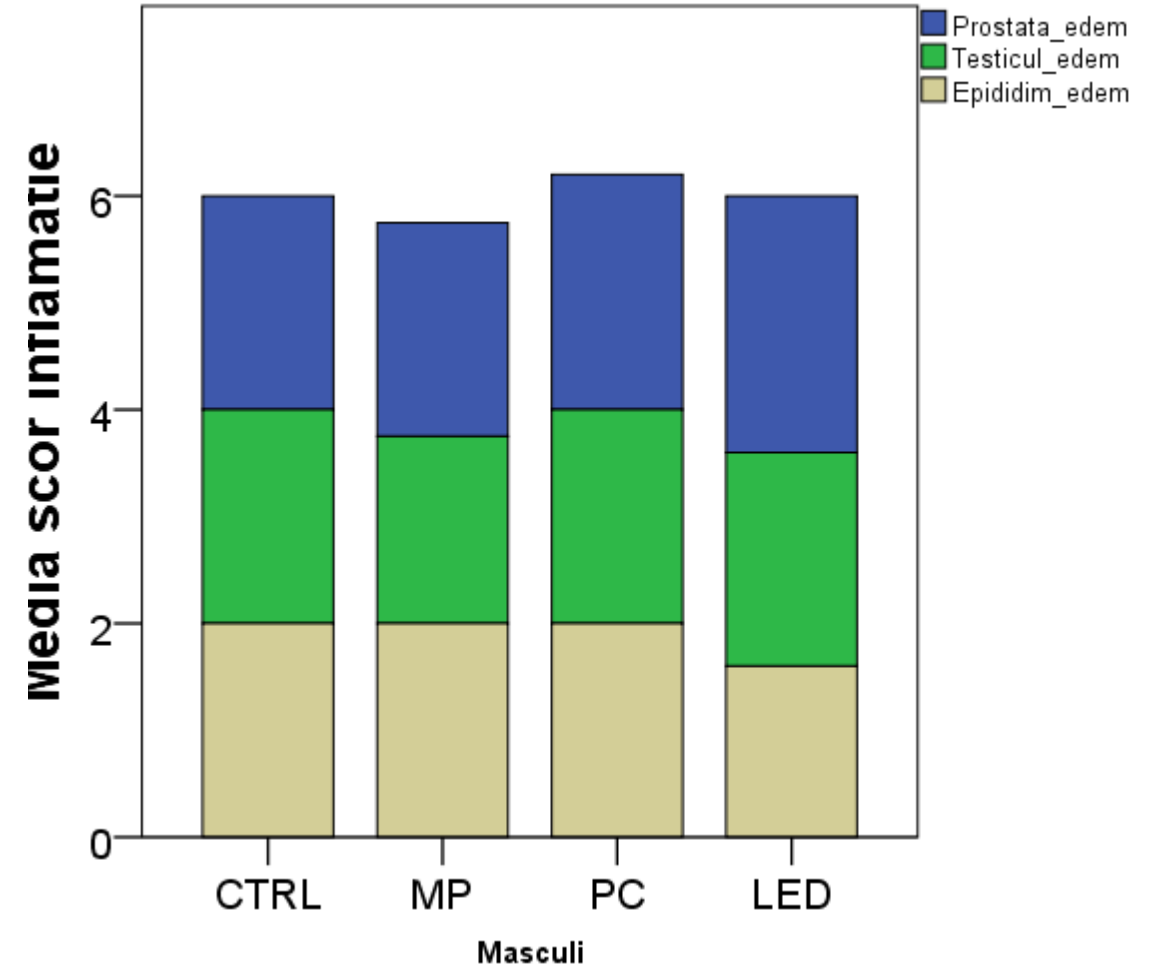
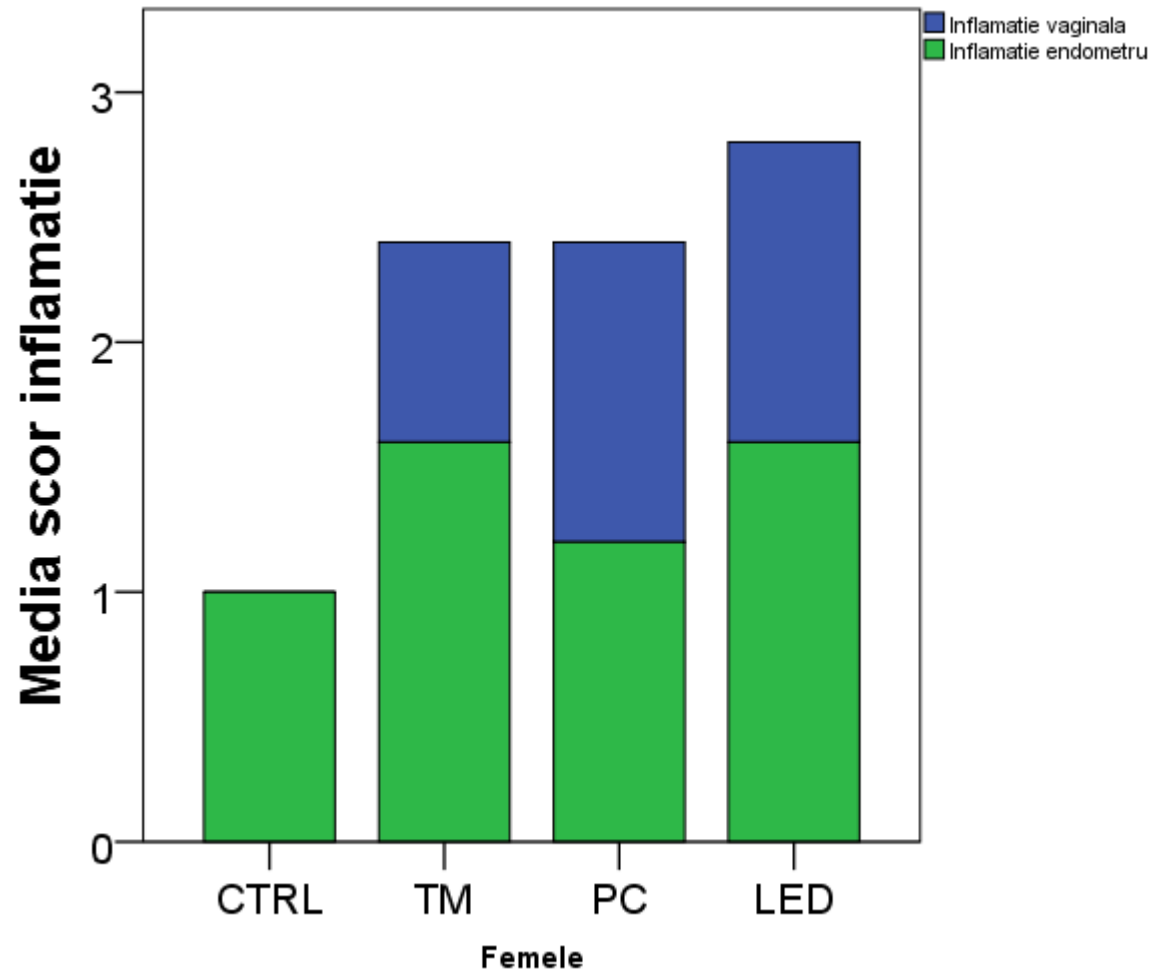
Raport privind rezultatele analizei ELISA (L6)



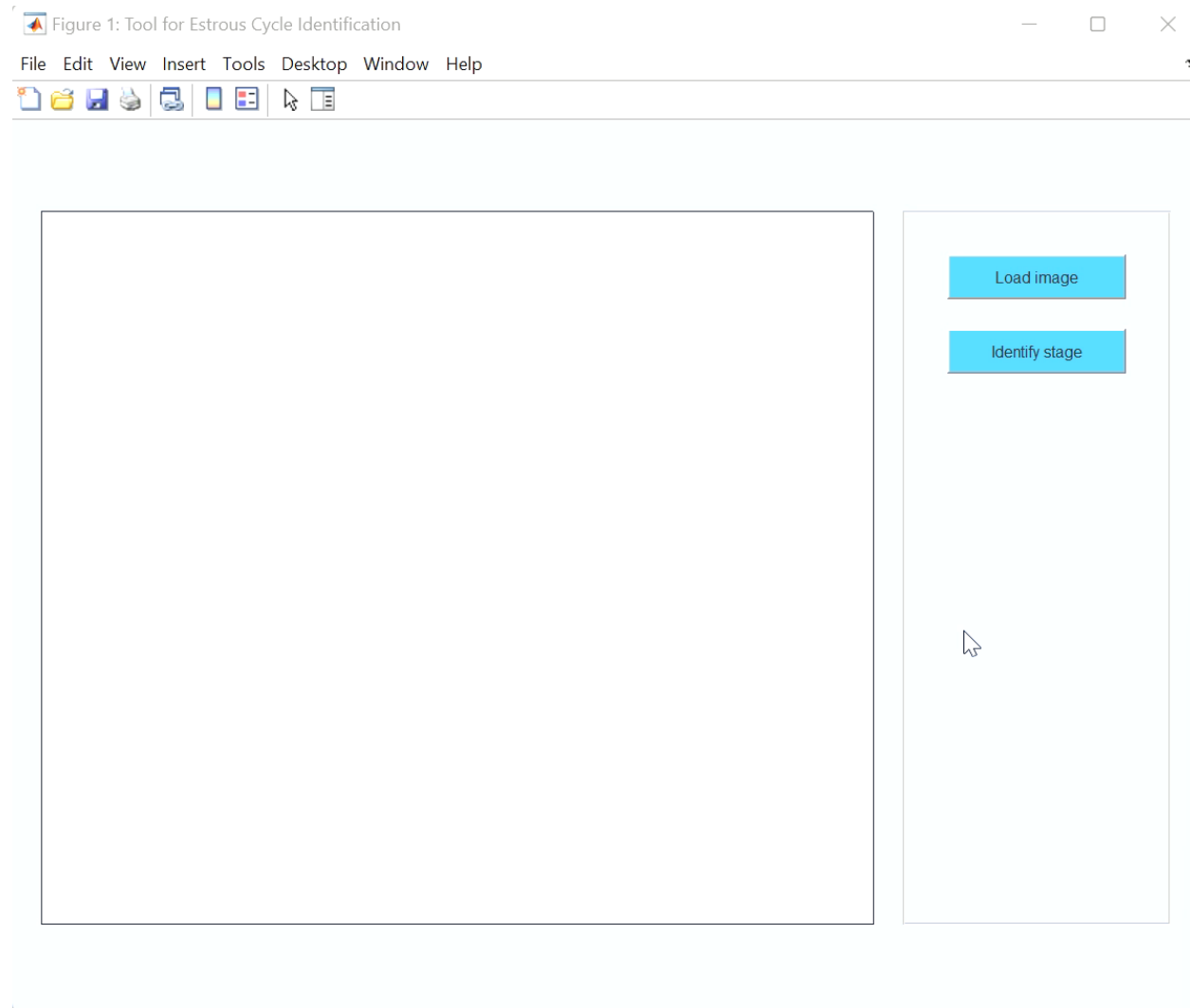
Raport privind rezultatele analizei de stress oxidativ (L6)



Raport examen anatomopatologic (L7)



Sistemul de diagnosticare (L8, L9, L10)





VĂ MULȚUMESC !