

Forum:Seminar papers/Biophysics/2. LF/2014-2015/Group 2

Group 2:

Biophysical principles in regenerative medicine

Subquestions

- Tissue engineering principle – reasons for establishment and progress
- Basic procedure of artificial tissue preparation
- Scaffolds in tissue engineering, required properties of scaffolds
- Tissue engineering detection (property analysis) - point out biophysical principles of some detection techniques used in tissue engineering

Responsibility for the page content

| Subquestion (Link to the subquestion) | Developed by username (Surname, First name) | Team | Started | To be checked | Checked | Evaluation | Notice |
|--|--|------|------------|---------------|---------|------------|--------|
| Tissue engineering principle | Gruberan (Gruber, Andreas) | 2H | 06.12.2014 | 10.12.2014 | | *** | |
| Basic procedure of artificial tissue preparation | Katarinam (Minarovicova, Katarina) | 2E | 6.12.2014 | 7.12.2014 | | ** | |
| Scaffolds in tissue engineering | Ramkumar nagarajan (Nagarajan, Ramkumar) | 2E | 2014-11-30 | 2014-11-30 | | **** | |
| Tissue engineering detection | Tom Tietken (Tietken,Tom) AlexanderS(Schmitz, Sebastian Heinrich) | 2H | 06.12.2014 | 10.12.2014 | | ** | |

Biological membrane and membrane transport

Subquestions

- Lipid bilayer
- Biological membrane – differences in structure and permeability for different molecules
- Passive membrane transport
 - Ion channel – biophysical principle of transport by channels, types of ion channels
- Active membrane transport (primary and secondary)
- Comparison of transport by carrier protein and channel
- Facilitate diffusion

Responsibility for the page content

| Subquestion (Link to the subquestion) | Developed by username (Surname, First name) | Team | Started | To be checked | Checked | Evaluation | Notice |
|--|---|----------|------------|---------------|---------|------------|-----------------------------------|
| Lipid bilayer | Therese george (George, Therese) Linda?? (Hettenkofer, Linda) | 2G | 01/12/14 | 07/12/14 | | **** | Fill in your username too, Linda! |
| Biological membrane | LukasI (Losch,Lukas) | 2G | 06/12/14 | 07/12/14 | | ** | |
| Passive membrane transport | SalmanK (Karsan, Salman) Umaraslam (Umar, Mohammed) | 2E | 05/12/14 | 07/12/14 | | **** | |
| Ion channel | Alex (Schejbal, Jan Alexander) Alberto (Laubschat, Alberto) | 2F 2G | 02/12/14 | 06/12/14 | | **** | |
| Active membrane transport | Bhayani.j (Bhayani, Jason) | 2F | 06/12/14 | 07/12/14 | | ** | |
| Comparison of transport | Christoph Wawoczny (Wawoczny, Christoph) VerenaLeppmeier (Leppmeier, Verena) | 2H | 30/11/14 | 06/12/14 | | **** | |
| Facilitate diffusion | Haseeb ali (Ali, Muhammad Haseeb) Jcandersson (Andersson, Jan Christian) | 2F | 2014-11-28 | 06/12/14 | | ** | |

Evaluation of the article:

- * – this article is not good
- ** – this article could be worse
- *** – this article is good
- **** – this article is very good
- ***** – this article is excellent

Preparing subquestions

Click on your red coloured subquestion on the table above. The appropriate edit window will be opened and you will start creating the content.

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- Every article must have sources (bibliography); see [Template:Cite/documentation](#) how to cite sources.

Instructions

- Every wikipage (i. e. *subquestion*) should be prepared by **one student**.
 - Only in the case when the number of students in the group is greater than the number of the subquestions is allowed that some subquestions will be prepared by two co-operated students; every of them has to edit appropriate part of the wikipage.
- Fill your *Username* and *real name* in the column: *Developed by username (Surname, First name)*.
- Fill the date in the column *Started* when you start editing the page.
- The **deadline for this seminar work is on Sunday, December 7th**.
- After the Wikipage is written it has to be checked by the professor Carmel J Caruana. Then:
 - On the beginning of the wikipage must be inserted the template:

`{{Check|Carmeljcaruana}}`

- - Then fill the date in the column *To be checked*.
 - When in doubt e-mail to: carmel.j.caruana@um.edu.mt