

| Cell biology - Lecture curriculum<br>2nd semester of academic year 204/25 |                                   |     |  |          |         |            |             |  |
|---|-----------------------------------|-----|--|----------|---------|------------|-------------|--|
| WEEK  | DATE                              | NR. | TOPIC  | LECTURER | SEMINAR |            |             |  |
|   |                                   |     |  |          | TOPIC   | TEACHER I. | TEACHER II. |  |
| 1   | 11, Febr (Tuesday - MED)          | 1   | Introduction. Origin of life. Basic functions and constituents of cells.           | VGY      | Intro   | NE         | FZS         |  |
|   | 13, Febr (Thursday - DENT)        |     |  |          |         |            |             |  |
|   | 12, Febr (Wednesday - MED)        | 2   | Cell membrane, intracellular compartmentalization                                  | KT       |         |            |             |  |
|   | 14, Febr (Friday - DENT)          |     |  |          |         |            |             |  |
| 2   | 18, Febr (Tuesday - MED)          | 3   | Passive transport processes  | HP       | 1-2     | VGY        | KT          |  |
|   | 20, Febr (Thursday - DENT)        |     |  |          |         |            |             |  |
|   | 19, Febr (Wednesday - MED)        | 4   | Active transport processes   | GK       |         |            |             |  |
|   | 21, Febr (Friday - DENT)          |     |  |          |         |            |             |  |
| 3   | 25, Febr (Tuesday - MED)          | 5   | Ca homeostasis   | VZ       | 3-4     | HP         | VaGY        |  |
|   | 27, Febr (Thursday - DENT)        |     |  |          |         |            |             |  |
|   | 26, Febr (Wednesday - MED)        | 6   | Osmo-, volume and pH regulation  | PGY      |         |            |             |  |
|   | 28, Febr (Friday - DENT)          |     |  |          |         |            |             |  |
| 4   | 4, March (Tuesday - MED, DENT)    | 7   | Cytoskeleton I. (microtubules)   | ML       | 5-6     | PGY        | VZ          |  |
|   | 5, March (Wednesday - MED, DENT)  |     |  |          |         |            |             |  |
| 5   | 11, March (Tuesday - Med, DENT)   | 9   | Cell-cell and cell-matrix contacts   | KT       | 7-8     | ML         | KGK         |  |
|   | 12, March (Wednesday - Med, DENT) |     |  |          |         |            |             |  |
|   | 18, March (Tuesday - MED, DENT)   | 11  | Nucleus, chromatin   | VaGY     | 9-10    | SZJ        | NP          |  |
|   | 19, March (Wednesday - MED, DENT) |     |  |          |         |            |             |  |
| <b>week 7, 1st SCT 24 March, Monday (1-10 lecture)</b>                    |                                   |     |  |          |         |            |             |  |
| 7   | 25, March (Tuesday - MED, DENT)   | 13  | Vesicular transport I.   | NP       | 11-12   | VaGY       | GK          |  |
|   | 26, March (Wednesday - MED, DENT) |     |  |          |         |            |             |  |
| 8   | 1, April (Tuesday - MED, DENT)    | 15  | Cell division (mitosis, meiosis). Mechanics of cell division.                      | BZS      | 13-14   | NP         | ML          |  |
|   | 2, April (Wednesday - MED, DENT)  |     |  |          |         |            |             |  |
| 9   | 8, April (Tuesday - MED, DENT)    | 17  | Cell signaling I. General concepts. Nuclear receptors. G-protein coupled receptors | VGY      | 15-16   | BZS        | SZG         |  |
|   | 9, April (Wednesday - MED, DENT)  |     |  |          |         |            |             |  |
| 10  | 15, April (Tuesday - MED, DENT)   | 19  | Cell signaling III. Proteolytic Signals. Pathways to the nucleus                   | VGY      | 17-18   | VGY        | DBA         |  |
|   | 16, April (Wednesday - MED, DENT) |     |  |          |         |            |             |  |
| 11  | 22, April (Tuesday - MED, DENT)   | 21  | Cell fates: Differentiation  | DBA      | 19-20   | SzöÁ       | VGY         |  |
|   | 23, April (Wednesday - MED, DENT) |     |  |          |         |            |             |  |
| 12  | 29, April (Tuesday - MED, DENT)   | 23  | Cell fates: Cell senescence, apoptosis   | BZS      | 21-22   | DBA        | PGY         |  |
|   | 30, April (Wednesday - MED, DENT) |     |  |          |         |            |             |  |
| 13  | 6, May (Tuesday - MED, DENT)      | 25  | From genes to cell function: overview of the main regulatory mechanisms            | ZF       | 23-24   | BZS        | VGY         |  |
|   | 7, May (Wednesday - MED, DENT)    |     |  |          |         |            |             |  |
| <b>week 14, 2nd SCT 12 May, Monday (11-24 lecture)</b>                    |                                   |     |  |          |         |            |             |  |
| 14  | 13, May (Tuesday - MED, DENT)     | 27  | Cell motility  | ML       | 25-26   | SzöÁ       | ZF          |  |
|   | 14, May (Wednesday - MED, DENT)   |     |  |          |         |            |             |  |
|   |                                   | 28  | Consultation   | ZF       |         |            |             |  |