

Podklady pro habilitační řízení - Strukturovaná bibliografie

Mgr. Robert Černý, Ph.D.

Původní vědecké publikace: **17**; citace dle WOS (listopad 2019): **476**; *h*-index **11**

Cerny, R., Meulemans, D., Berger, J., Wilsch-Brauninger, M., Kurth, T., Bronner-Fraser, M., Epperlein, H.-H. (2004): Combined intrinsic and extrinsic influences pattern cranial neural crest migration and pharyngeal arch morphogenesis in axolotl. *Developmental Biology* 266: 252-269.

- IF = 5,4; citováno 36x

Cerny, R., Lwigale, P., Ericsson, R., Meulemans, D., Epperlein, H.-H., Bronner-Fraser, M. (2004): Developmental origins and evolution of jaws: new interpretation of "maxillary" and "mandibular". *Developmental Biology* 276: 225-236.

- IF = 5,4; citováno 89x

Ericsson, R., **Cerny, R.**, Falck, P., Olsson, L. (2004): The role of cranial neural crest cells in visceral arch muscle positioning and patterning in the Mexican axolotl, *Ambystoma mexicanum*. *Developmental Dynamics* 231: 237-247.

- IF = 3,8; citováno 53x

Olsson, L., Ericsson, R., **Cerny, R.** (2005): Vertebrate head development: Segmentation, novelties and homology. *Theory in Biosciences* 124: 145-163.

- IF = 0,9; citováno 30x

Cerny, R., Horacek, I., Olsson, L. (2006): The Trabecula cranii: development and homology of an enigmatic vertebrate head structure. *Animal Biology* 56: 503-518.

- IF = 0,96; citováno 6x

Epperlein, H.-H., Selleck, M.A., Meulemans, D., Mchedlishvili, L., **Cerny, R.**, Sobkow, L., Bronner-Fraser, M. (2007): Migratory patterns and developmental potential of trunk neural crest cells in the axolotl embryo. *Developmental Dynamics* 236: 389-403.

- IF = 3,33; citováno 16x

Soukup, V., Epperlein, H.-H., Horacek, I., **Cerny, R.** (2008): Dual epithelial origin of vertebrate oral teeth. *Nature* 455: 795-798.

- IF = 28,75; citováno 53x

Cerny, R., Cattell, M., S.Spengler, T., Bronner-Fraser, M., Yu, F., M.Medeiros, D. (2010): Evidence for the prepattern/cooption model of vertebrate jaw evolution. *Proceedings of the National Academy of Sciences* 107(40): 17262-17267.

- IF = 9,77; citováno 54x

Fraser, G.J., **Cerny, R.**, Soukup, V., Bronner-Fraser, M., Streelman, J.T. (2010): The Odontode Explosion: The origin of tooth-like structures in vertebrates. *BioEssays* 32: 808-817.

- IF = 4,48; citováno 49x

Kurth, T., Berger, J., Wilsch-Brauninger, M., Kretschmar, S., **Cerny, R.**, Schwartz, H., Lofberg, J., Piendl, T., Epperlein, H. (2010): Electron microscopy of the amphibian model systems *X. laevis* and *A. mexicanum*. *Methods in Cell Biology* 96: 395-423.

- IF = 1,87; citováno 9x

Kralovic, M., Horáček, I., **Cerny, R.** (2010): Mouth development in the Senegal bichir *P. senegalus* does not involve the oropharyngeal membrane: possible implications for the ecto-endoderm boundary and tooth initiation. *Journal of Applied Ichthyology* 26: 179-182.

- IF = 0,94; citováno 4x

Cattell, M., Lai, S., **Cerny, R.**, M.Medeiros, D. (2011): A new mechanistic scenario for the origin and evolution of vertebrate cartilage. *PLOS One* 6(7)e22474.

- IF = 4,09; citováno 17x

Soukup, V., Horacek, I., **Cerny, R.** (2013): Development and evolution of vertebrate primary mouth. *Journal of Anatomy* 222: 79-99.

- IF = 2,23; citováno 18x

Jandzik, D., Hawkins, M., Cattell, M., **Cerny, R.**, Square, T., Medeiros, D. (2014): Roles for FGF in lamprey pharyngeal pouch formation and skeletogenesis highlight ancestral functions in the vertebrate head. *Development* 141: 629-638.

- IF = 6,46; citováno 16x

Square, T., Jandzik, D., Romasek, M., **Cerny, R.**, Medeiros, D (2017): The origin and diversification of the developmental mechanisms that pattern the vertebrate head skeleton. *Developmental biology* 427: 219-229.

- IF = 3,26; citováno 8x

Minarik, M., Stundl, J., Fabian, P., Jandzik, D., Metscher, B.D., Psenicka, M., Gela, D., Osorio-Pérez, A., Arias-Rodriguez, L., Horáček, I., **Cerny, R.** (2017): Pre-oral gut contributes to facial structures in non-teleost fishes. *Nature* 547: 209-212.

- IF = 41,57; citováno 7x

Stundl, J., Pospisilova, A., Jandzik, D., Fabian, P., Dobiasova, B., Minarik, M., Metscher, B.D., Soukup, V., **Cerny, R.** (2019): Bichir external gills arise via heterochronic shift that accelerates hyoid arch development. *eLife* 8:e43531, 1-13.

- IF = 7,55; citováno 0x