

CURICULUM VITAE

Mgr. Karel Kleisner, Ph.D.

Born on the 2nd of February 1979 in Most, Czech Republic

RESEARCH EXPERIENCE

2006-present: Assistant Professor, Department of Philosophy and History of Science; Charles University

2004-2006: Assistant, Department of Philosophy and History of Science; Charles University

2003–2004: Scientific Researcher; Research Centre for the History of Sciences and Humanities (Czech Academy of Science)

EDUCATION

2006: Ph.D. – Philosophy and History of Science; Faculty of Science, Charles University in Prague

2002: Mgr. – Biology; Faculty of Science, Charles University in Prague

TEACHING PRAXIS

Organism – order and dis-order (since 2003)

On the origin of natural sciences (since 2007)

Practices from evolutionary biology (since 2010)

OTHER ACTIVITIES

Editorial Board member of the international peer-reviewed journal *Biosemiotics* (Springer)

Co-founder and co-editor (with T. Hermann) of book series AMFIBIOS/Studies in Philosophy and History of Sciences; over 15 books already published in this series.

Board member of the Governing Committee of the International Society of Biosemiotic Studies

Member of Czech Entomological Society

Participated on organization of three conferences hosted in Prague: *Gathering in Biosemiotics* 2009; *Goethes Naturwissenschaft und der heutige goetheanistische Naturwissenschaft* (2004); and *Gatherings in Biosemiotics* 2004.

2006-2007: participated on the project GPSS ID 10012: *Body and Calculus in 20th Century Science*; between 2007-2009 took part on GPSS Major Awards Program (a joint program of the Interdisciplinary University of Paris and Elon University): *Both proximate and foreign. Approach to the phenomenon of life*.

Since 2011: Main holder of GACR P407/11/1464 Linking psychological characteristics with morphospace of human face and body: possible association to iris color.

Since 2011: participating P505/11/1459, P505 Factors responsible for behaviour of predators towards aposematic prey.

SUMMARY OF ACTIVITIES SINCE 2008

Books – **1**; Edited Books – **1**; Journal Articles – **15** published/**1** accepted/**3** submitted; Book Chapters – **5**; Papers in Edited Volumes – **3**; Popular Articles, Reviews etc.– **9**; Invited Lectures – **7**; Conference Abstracts – **15**.

The most important results published since 2008 were: the discovery that eye color indirectly influences the perception of trustworthiness via its association with a particular facial shape; the discovery that fighting ability can be predicted from aggressiveness ratings of male faces, the

discovery of the influence of eye color to perceived dominance in males, and the first observed relationship between eye color and facial morphology; revision of the evolutionary history of testicular descent, origin mammalian scrotum and its functional role; the proposal and definitions of terms such as homosemiosis, semantic organ and semiotic co-option that serves to integration of evolutionary, semiotic, and cognitive perspectives bordering the natural and social science

SELECTED PUBLICATIONS (LAST FIVE YEARS)

Papers in peer-reviewed journals:

- Trebicky, V., Havlicek, J., Roberts, S. C., Little, A. C., & Kleisner, K. Perceived aggressiveness predicts fighting performance in Mixed Martial Arts fighters. *Psychological Science* (in press).
- Kleisner, K., Priplatova, J., Frost, P., Flegr, J. (2013). Trustworthy-looking face meets brown eyes. *PLoS ONE* 8(1): e53285. *PloS ONE*
- Moore, F. R., Coetzee, V., Contreras-Garduño, J., Debruine, L. M., Kleisner, K., Krams, I., Marcinkowska, U., Nord, A., Perrett, D. I., Rantala, M. J., Schaum, N. & Suzuki, T. N. (2013) Cross-cultural variation in women's preferences for cues to sex- and stress-hormones in the male face. *Biology Letters* 9(3):20130050.
- Kočandrle, R. & Kleisner, K. (2012). Evolution Born of Moisture: Analogies and Parallels Between Anaximander's Ideas on Origin of Life and Man and Later Pre-Darwinian and Darwinian Evolutionary Concepts. *Journal of the History of Biology*, 46: 103-124
- Kleisner, K; Keil, P.; Jaroš, F. (2012). Biogeography of elytral ornaments in Palearctic genus *Carabus*: disentangling the effects of space, evolution and environment at a continental scale. *Evolutionary Ecology*, 4:1025-1040.
- Kleisner, K.(2011). Perceive, Co-opt, Modify, and Live! Organism as a Centre of Experience. *Biosemiotics*, 4:223-241.
- Kočandrle, R. & Kleisner, K. (2011) Evoluce ve vlhku zrozená: Analogie a paralely Anaximandrový pra-evoluce a darwinovské evoluce. *Dějiny Věd a Techniky*, 44 (4): 219-236.
- Maran, T. & Kleisner, K. (2010). Towards an Evolutionary Biosemiotics: Semiotic Selection and Semiotic Co-option. *Biosemiotics*, 3: 189-200.
- Stella, M. & Kleisner, K. (2010). Uexküllian Umwelt as Science and as Ideology: The Light and the Dark Side of a Concept. *Theory in Biosciences*, 129: 39-51.
- Kleisner, K.; Kočnar, T.; Rubešová, A. & Flegr, J. (2010). Eye color predicts but does not directly influence perceived dominance in men. *Personality and Individual Differences*, 49: 59-64.
- Kleisner, K.; Ivell, R.; Flegr, J. (2010). The Evolutionary History of Testicular Externalization and the Origin of the Scrotum. *Journal of Biosciences*, 35: 27-37.
- Kleisner, K.; Stella, M. (2009). Monsters We Met, Monsters We Made: On the Parallel Emergence of Phenotypic Similarity under Domestication. *Sign Systems Studies*, 37: 104-124.
- Kleisner, K. ; Markoš, A. (2009). Mutual Understanding and Misunderstanding in Biological Systems Mediated by Self-representational Meaning of Organisms. *Sign Systems Studies*, 37.1: 329-340.
- Kleisner, K. (2008). The Semantic Morphology of Adolf Portmann: A Starting Point for the Biosemiotics of Organic Form? *Biosemiotics*, 1: 207-219.
- Kleisner, K. (2008). Homosemiosis, Mimicry, and Superficial Similarity: Notes on the Conceptualization of Independent Emergence of Similarity in Biology. *Theory in Biosciences*, 127: 15-21.

Co-authored Book:

Markoš A, Grygar F, Hajnal L, Kleisner K, Kratochvíl Z, Neubauer Z (2009) *Life As Its Own Designer: Darwin's Origin and Western Thought*. Springer, Dordrecht.

Edited Book:

Kleisner, K (ed.) (2008). *Biologie ve službách zjevu: K teoreticko-biologickým myšlenkám Adolfa Portmanna*. AMFIBIOS vol. 8, Mervart, Červený Kostelec.

FULL BIBLIOGRAPHY

Co-authored Book:

Markoš A, Grygar F, Hajnal L, Kleisner K, Kratochvíl Z, Neubauer Z (2009) *Life As Its Own Designer: Darwin's Origin and Western Thought*. Springer, Dordrecht.

Edited Books

Kleisner, K (ed.) (2008). *Biologie ve službách zjevu: K teoreticko-biologickým myšlenkám Adolfa Portmanna*. AMFIBIOS vol. 8, Mervart, Červený Kostelec.

Kliková, A. & Kleisner, K (eds.) (2006). *Umwelt: Koncepte žitého světa Jakoba von Uexküllla*. AMFIBIOS vol. 4, Mervart, Červený Kostelec.

Papers in peer-reviewed journals

Kocnar, T, Drbalova, K, Kleisner, K. (2013) Do dominant-looking males have brown eyes? A further investigation on the role of iris colour for dominance perception. *Anthropologie* (accepted)

Trebický, V., Kleisner, K., Havlicek, J. (2013) Attractive traits of human male physique. *Anthropologie* (accepted)

Trebický, V., Havlicek, J., Roberts, S. C., Little, A. C., & Kleisner, K. (2013). Perceived aggressiveness predicts fighting performance in Mixed Martial Arts fighters. *Psychological Science* (accepted)

Kleisner, K., Priplatova, J., Frost, P, Flegr, J. (2013). Trustworthy-looking face meets brown eyes. *PLoS ONE* 8(1): e53285.

Kočandrle, R. & Kleisner, K. (2013). Evolution Born of Moisture: Analogies and Parallels Between Anaximander's Ideas on Origin of Life and Man and Later Pre-Darwinian and Darwinian Evolutionary Concepts. *Journal of the History of Biology* (DOI: 10.1007/s10739-012-9334-8)

Kleisner, K; Keil, P.; Jaroš, F. (2012). Biogeography of elytral ornaments in Palearctic genus *Carabus*: disentangling the effects of space, evolution and environment at a continental scale. *Evolutionary Ecology*, 4:1025-1040.

Kleisner, K.(2011). Perceive, Co-opt, Modify, and Live! Organism as a Centre of Experience. *Biosemiotics*, 4:223–241.

Kočandrle, R. & Kleisner, K. (2011) Evoluce ve vlhku zrozená: Analogie a paralely Anaximandrový pra-evoluce a darwinovské evoluce. *Dějiny Věd a Techniky*, 44 (4): 219-236.

Maran, T. & Kleisner, K. (2010). Towards an Evolutionary Biosemiotics: Semiotic Selection and Semiotic Co-option. *Biosemiotics*, 3: 189-200.

Stella, M. & Kleisner, K. (2010). Uexküllian Umwelt as Science and as Ideology: The Light and the Dark Side of a Concept. *Theory in Biosciences*, 129: 39-51.

Kleisner, K.; Kočnar, T.; Rubešová, A. & Flegr, J. (2010). Eye color predicts but does not directly influence perceived dominance in men. *Personality and Individual Differences*, 49: 59-64.

Kleisner, K.; Ivell, R.; Flegr, J. (2010). The Evolutionary History of Testicular Externalization and the Origin of the Scrotum. *Journal of Biosciences*, 35: 27-37.

Kleisner, K.; Stella, M. (2009). Monsters We Met, Monsters We Made: On the Parallel Emergence of Phenotypic Similarity under Domestication. *Sign Systems Studies*, 37: 104-124.

- Kleisner, K. ; Markoš, A. (2009). Mutual Understanding and Misunderstanding in Biological Systems Mediated by Self-representational Meaning of Organisms. *Sign Systems Studies*, 37.1: 329-340.
- Kleisner, K. (2008). The Semantic Morphology of Adolf Portmann: A Starting Point for the Biosemiotics of Organic Form? *Biosemiotics*, 1: 207-219.
- Kleisner, K. (2008). Homosemiosis, Mimicry, and Superficial Similarity: Notes on the Conceptualization of Independent Emergence of Similarity in Biology. *Theory in Biosciences*, 127: 15-21.
- Stella, M. & Kleisner, K. (2007). Welt, Umwelt, Lebensraum: Uexküll, Lorenz a Gehlen: spor o světě člověka a světech zvířat. *Lidé Města/Urban People*, 21: 7-26.
- Kleisner, K. (2007) The formation of the theory of homology in biological sciences. *Acta Biotheoretica*, 55: 317–340.
- Kleisner, K. & Markoš, M. (2005) The Semetic Rings: Towards the New Concept of Mimetic Resemblances. *Theory in Biosciences*, 123: 209-222.
- Hermann, T. & Kleisner, K. (2005). Biolog Michail M. Novikov - kapitola z dějin ruské vědy v emigraci (Biologist Mikhail M. Novikov – A Chapter from the History of Russian Science in Emigration). *Český časopis historický/Czech Historical Review*, 103: 313-353.
- Hermann, T. & Kleisner, K. (2005) The Five “Homes” of Zoologist Mikhail M. Novikov (1876-1965). Analogy and Adaptation in One's Life and as a Principle of Biological Investigation, *Jahrbuch für Europäische Wissenschaftskultur/Yearbook for History of European Culture of Science*, 1: 87-130.

Book Chapters

- Kleisner, K.; Maran, T. Visual communication in animals: Applying Portmannian and Uexküllian biosemiotic approach. In Machin, D.(ed.) *Visual Communication*. De Gruyter. (accepted)
- Markoš, A.; Grygar, F.; Hajnal, L.; Kleisner, K.; Kratochvíl, Z. & Neubauer Z. (2009). Aut Moses, Aut Darwin? In: *Global Perspectives on Science and Spirituality*; Pranab Das (ed.), pp. 127-142.
- Kočnar, T. & Kleisner, K. (2009). Oko za Oko: Struktura a význam v evoluci ornamentury organismálních povrchů. In: *Krása, krajina, příroda. Kapitoly o roli estetických hodnot ve vztahu k přírodě, krajině a životnímu prostředí*; Stibral, K. & Dadejík, O. (Eds), Nakladatelství Dokořán, pp. 254-264.
- Kleisner, K. (2008). Mezi formou a funkcí aneb po stopách knížete niternosti. K základům Portmannovy teoretické biologie. In: *Biologie ve službách zjevu: K teoreticko-biologickým myšlenkám Adolfa Portmanna*. K. Kleisner (ed.), AMFIBIOS vol. 8, Mervart, Červený Kostelec, pp. 109-135.
- Kleisner, K. (2008). Mimetische Ähnlichkeiten und ihre Interpretationen. In: *Naturwissenschaft heute im Ansatz Goethes. Ein Prager Symposium* D. Plestil; W. Schad (eds.), Mayer, Stuttgart, pp. 155-164.
- Markoš, A.; Grygar, F.; Kleisner, K.; Neubauer, Z. (2007). Towards a Darwinian biosemiotics. Life as mutual understanding. In: *Introduction to biosemiotics* (M. Barbieri (ed.)). Springer, Dordrecht, pp. 235-255.
- Stella, M. & Kleisner, K. (2006). Odvrácená strana umweltu aneb o čem se (ne)mluví. In: *Umwelt: Koncepce žitého světa* Jakoba von Uexküllä, A. Kliková & K. Kleisner (eds.) AMFIBIOS, vol. 4., pp. 123-159.

Papers in edited volumes

- Hermann, T. & Kleisner, K. (2009). Between Science and Politics: Activities of Russian biologists in inter-war Czechoslovakia. In: *Conference proceedings from 3rd ICESHs, Vienna, September 2008*.

- Kleisner, K. (2009) Chitin a čas: poznámky k dějinám oboru entomologie v českých zemích (1900 - 1950) (Chitin and time: Notes to the History of Entomology in Czech lands, 1900 – 1950). *Práce z dějin vědy/Studies in the History of Sciences and Humanities*, vol. 21, pp. 457-474.
- Kleisner, K. (2004). Idealistic morphology and correlations in Rádl's biology. In: Emanuel Rádl – vědec a filosof / Emanuel Rádl – Scientist and Philosopher, *Práce z dějin vědy/Studies in the History of Sciences and Humanities*, vol. 16 (Oikoymenh), pp. 143-152.
- Hermann, T. & Kleisner, K. (2004). Der russische Zoologe Michail Michailovitsch Novikov (1876-1965) als Emigrant und theoretischer Biologe. *Práce z dějin vědy/ Studies in the History of Sciences and Humanities*, vol. 17, pp. 222-241.

Popular articles, reviews and others

- Pecháček, P., Stella, D., Kleisner, K. (2012). Ultrafialový svět bezobratlých. *Živa*, 60 (1): 25-28.
- Kleisner, K. (2008). Portmann a jeho parta. *Vesmír*, 87: 417.
- Kleisner, K. (2008). Slovo úvodem: "Po stezkách" versus "Na scestí". In: *Biologie ve službách zjevu: K teoreticko-biologickým myšlenkám Adolfa Portmanna*. K. Kleisner (ed.), AMFIBIOS vol. 8, Merwart, Červený Kostelec, pp. 7-9.
- Kleisner, K. & Stella, M. (2007). O umweltu aneb chráníme svůj svět (Popular article). *Ekolist* 06/07: 20-21
- Kleisner, K. (2006). Slovo úvodem (Introduction). In: AMFIBIOS, vol. 4: A. Kliková & K. Kleisner, (eds.), *Umwelt: Koncepte žitého světa Jakoba von Uexküllä*. Merwart, Červený Kostelec.
- Kleisner, K. (2006). Biologické omalovánky aneb volte Portwina (Epilogue). In: Stibral, K. *Darwin a estetika*. AMFIBIOS vol. 3., Merwart, Červený Kostelec, pp. 153-157.
- Hermann, T. & Kleisner, K. (2005) Ediční poznámka (Editorial). In: AMFIBIOS vol. 2: Daněk, T. & Markoš, T., *Život čmelákův*, pp. 202-203. Merwart, Červený Kostelec.
- Havlíček, J. & Kleisner, K. (2005). Rudá žeň (Book review). *Vesmír*, 84: 752-753.
- Hermann, T. & Kleisner, K. (2004). Znaky a struktura života (Report). *Kuděj: časopis pro kulturní dějiny*, 6: 103-105.

Translation

- Lavers, Ch. (2004) Proč mají sloni velké uši (orig. Why elephants have big ears), *Argo & Dokořán*, 264 pp.

Selected conference abstracts, talks and posters

- Kleisner, K.: Idealistic morphology and correlations in Rádl's biology. Emanuel Rádl - vědec a filosof / Emanuel Rádl - Scientist and Philosopher; Prague: 9. – 12. 2. 2003.
- Hermann, T.; Kleisner, K: Věda v exilu: konference z cyklu „Česká věda ve dvacátém století“; „Pět vlastní zoologa M.M. Novikova“, Praha: 11. – 12. 11. 2003
- Kleisner, K.; Stella, M.: Die Horizonte der Umwelten. Erbwelt und Umwelt. (International workshop; CZ, Germany, Österreich); castle Hrubá Skála: 13. – 15. 2. 2004.
- Kleisner, K.: Genes – Memes – Semes: Towards the New Concept of Mimicry. *Gatherings in Biosemiotics IV*, Prague: 1. – 4. 7. 2004.

- Kleisner, K.: The Biological Turmoil on the Border of Homology: the Quest for a New Concept of Resemblances in Living Nature. *Goethes Naturwissenschaft und der heutige goetheanistische Naturwissenschaft*; Prague: 24. – 26. 9. 2004
- Kleisner, K.; Hajnal L.: The pretty carabids in a small world: Inferring biological resemblances from the small world network. *Gatherings in Biosemiotics V*; Urbino (Italy): 20 – 24. 7. 2005.
- Kleisner, K.; Markoš, A.: Mutual understanding as a prerequisite of biotic evolution. *The 9th World Congress of the International Association for Semiotic Studies - Helsinki/Imatra: June 11-17, 2007.*
- Kočnar, T.; Kleisner, K.: Oko za oko: Znak, struktura a význam v evoluci ornamentury organismálních povrchů KRÁSA, KRAJINA, PŘÍRODA: Interdisciplinární konference o roli estetických hodnot ve vztahu k přírodě, krajině a životnímu prostředí. Praha 16.-17.10.2007
- Kleisner, K.: Eye for Eye: On the Evolution of Semantic Organs by Means of Signification. *The 8th Annual Gatherings in Biosemiotics. University of the Aegean, Syros, Greece: June 23-28, 2008.*
- Hermann, T.; Kleisner, K.: Between Science and Politics: Activities of Russian Biologists in Interwar Czechoslovakia. *The 3rd International Conference of the European Society for the History of Science: Styles of Thinking in Science and Technology Vienna, September 10 - 12, 2008.*
- Kleisner, K.: Resemblance and re-evolution: internalistic explanation of the parallel emergence of biological similarities in phenotypic evolution. *Resemblances in nature and culture: theoretical and semiotic perspectives. University of Tartu and Estonian Naturalists' Society, Tartu, Estonia, November 8 – 9, 2008.*
- Maran, T. & Kleisner, K. (2009): Semiotic Selection, Cooption, and Good Old Darwin: Is There a Common Basis for the Explanation of Mimicry, Sexual Selection, and Domestication? *The Ninth Annual International Gatherings in Biosemiotics, Prague, Czech Republic, June 30 -July 5, 2009.*
- Valentová, j.; Kleisner, K. & Havlíček, H.: Face of sexual orientation: Differences in facial shape between heterosexual and homosexual men. *Annual Meeting of International Academy of Sex Research, Prague, Czech Republic; July 25-28, 2010. (poster)*
- Kleisner, K. & Kočnar, T.: Eye color and facial shape form one semantic ornament: On the semiotic co-option of iris color. *The Tenth Annual International Gatherings in Biosemiotics, Braga, Portugal, June 22-27, 2010.*
- Kleisner, K.: Geometric morphometrics – a possible method for zoosemiotics. *International conference “Zoosemiotics and Animal Representations” Tartu, Estonia, April 4–8, 2011.*
- Třebický, V., Kleisner, K. & Havlíček, J. (2012). Vliv tělesné výšky hodnotitelů na vnímání agresivity MMA zápasníků. 38. Etologické konference České a Slovenské etologické společnosti. *Nové město na Moravě. s. 34.*
- Trebicky, V., Havlicek, J., Roberts, S. C., Little, A. C., & Kleisner, K. (2012). Perceived aggressiveness predicts fighting performance in Mixed Martial Arts fighters. *XXI Biennial Conference on Human Ethology (p. 90). Vienna, 13. – 17. 8. 2012*
- Třebický, V., Kleisner, K., & Havlíček, J. (2012). Perceived aggressiveness predicts fighting performance in Mixed Martial Arts Fighters. *7th Annual Conference of European Human Behaviour and Evolution Association (p. 70). Durham.*
- Kleisner, K. Kočnar, T. (2012). Seeing each other: An international comparison of the eye colour effect on perception of trustworthiness, dominance and attractiveness. *Gatherings in Biosemiotics 2012, Tartu. July 17-21, 2012.*
- Linke, L. & Kleisner, K. (2012). Big Boss, Big Trust: Occupational Hierarchy Predicts Perceived Trustworthiness in Executive Managers. *XXI Biennial Conference on Human Ethology. Vienna, 13. – 17. 8. 2012.*

Kleisner, K., Kočnar, T., Frost, P., Flegr, J. (2012). Correlation between eye color, face shape, and perceived trustworthiness. XXI Biennial Conference on Human Ethology. Vienna, 13. – 17. 8. 2012.

Pecháček, P., Stella, D., Kleisner, K. (2012) Vliv prostředí na tvarovou variabilitu ultrafialových signálů u *Gonepteryx rhamni*. 39. etologická konference, Nové Město na Moravě 7. - 10. 11. 2012.