

## Literatur

---

- Academy of Medical Sciences (2010): *Exploring the Boundaries. Report on a Public Dialogue into Animals Containing Human Material*. <http://www.acmedsci.ac.uk> vom September 2010.
- Academy of Medical Sciences (2011): *Animals Containing Human Material*. <http://www.acmedsci.ac.uk> vom Juli 2011.
- Allen, Colin (2002): Real Traits, Real Functions? In: Ariews, Andre; Cummins, Robert; Perlman, Mark (Hg.): *Functions. New Essays in the Philosophy of Psychology and Biology*. Oxford: Oxford University Press, S. 373-389.
- Allis, C. David; Jenuwein, Thomas; Reinberg, Danny (Hg.) (2009): *Epigenetics*. Cold Spring Harbor: Cold Spring Harbor Laboratory Press.
- Anker, Suzanne; Nelkin, Dorothy (2004): *The Molecular Gaze. Art in the Genetic Age*. Cold Spring Harbor: Cold Spring Harbor Laboratory Press.
- Arnold, Michael L. (2006): *Evolution Through Genetic Exchange*. Oxford: Oxford University Press.
- Atkins, John F.; Baranov, Pavel V. (2007): Translation: Duality in the Genetic Code. In: *Nature* 448, S. 1004-1005.
- Atran, Scott (1999): Folk Biology. In: Wilson, Robert A.; Keil, Frank C. (Hg.): *The MIT Encyclopedia of the Cognitive Sciences*. Cambridge: MIT Press, S. 316-317.
- Avise, John C. (2001): Evolving Genomic Metaphors: A New Look at the Language of DNA. In: *Science* 294, S. 86-87.
- Ayers, Michael R. (1981): Locke versus Aristotle on Natural Kinds. In: *The Journal of Philosophy* 78, S. 247-272.
- Bader, Michael (2009): Problems With Terminology and Definitions. In: Taupitz, Jochen; Weschka, Marion (Hg.): *Chimbrids – Chimeras and Hybrids in Comparative European and International Research. Scientific, Ethical, Philosophical and Legal Aspects*. Berlin: Springer, S. 5-6.

- Bader, Michael; Schreiner, Regine; Wolf, Eckhard (2009): Scientific Background. In: Taupitz, Jochen; Weschka, Marion (Hg.): *Chimbrids – Chimeras and Hybrids in Comparative European and International Research. Scientific, Ethical, Philosophical and Legal Aspects*. Berlin: Springer, S. 21-59.
- Badura-Lotter, Gisela; Düwell, Marcus (2007): Chimären und Hybride. Ethische Aspekte. In: *Jahrbuch für Recht und Ethik* 15, S. 83-104.
- Balaban, Evan; Teillet, Marie-Aimée; Le Douarin, Nicole M. (1988): Application of the Quail-Chick Chimera System to the Study of Brain Development and Behavior. In: *Science* 241, S. 1339-1342.
- Bannister, Andrew J.; Kouzarides, Tony (2005): Reversing Histone Methylation. In: *Nature* 436, S. 1103-1106.
- Baylis, Françoise; Robert, Jason Scott (2007): Part-Human Chimeras: Worrying the Facts, Probing the Ethics. In: *The American Journal of Bioethics* 7, S. 41-45.
- Beadle, George Wells; Beadle, Muriel (1969): *Die Sprache des Lebens*. Stuttgart: S. Fischer.
- Beck, Matthias (2008): Mensch-Tier-Wesen. Zur ethischen Problematik von Hybriden, Chimären, Parthenoten. Paderborn: Schöningh.
- Beddie, Andrew D. (1942): Natural Root Grafts in New Zealand Trees. In: *Transactions and Proceedings of the Royal Society of New Zealand* 71, S. 199-203.
- Benham, Jason; Buffington, Nancy (2007): *The Chimera. From Mythological Creature to Modern Controversy*. <http://www.stanford.edu> vom 12.03.2007.
- Bentley, David (2002): The mRNA Assembly Line. Transcription and Processing Machines in the Same Factory. In: *Current Opinion in Cell Biology* 14, S. 336-342.
- Bernhard, Hans-Peter; Badura-Lotter, Gisela (2009): Case 4 – Fink: Porcine Xenografts in Parkinson’s Disease and Huntington’s Disease Patients. Scientific/Ethical Considerations. In: Taupitz, Jochen; Weschka, Marion (Hg.): *Chimbrids – Chimeras and Hybrids in Comparative European and International Research. Scientific, Ethical, Philosophical and Legal Aspects*. Berlin: Springer, S. 263-270.
- Beurton, Peter (2000): A Unified View of the Gene, or How to Overcome Reductionism. In: Beurton, Peter; Falk, Raphael; Rheinberger, Hans-Jörg (Hg.): *The Concept of the Gene in Development and Evolution. Historical and Epistemological Perspectives*. Cambridge: Cambridge University Press, S. 286-314.
- Beurton, Peter (2005): Genbegriffe. In: Krohs, Ulrich; Toepfer, Georg (Hg.): *Philosophie der Biologie*. Frankfurt am Main: Suhrkamp, S. 195-211.

- Birnbaum, Ramon Y.; Clowney, E. Josephine; Agamy, Orly; Kim, Mee J.; Zhao, Jingjing et al. (2012): Coding Exons Function as Tissue-Specific Enhancers of Nearby Genes. In: *Genome Research* 22, S. 1059-1068.
- Black, Max (1996): Die Metapher. In: Haverkamp, Anselm (Hg.): *Theorie der Metapher*. Darmstadt: Wissenschaftliche Buchgesellschaft, S. 55-79.
- Blewitt, Marnie E.; Vickaryous, Nicola K.; Paldi, Andras; Koseki, Haruhiko; Whitelaw, Emma (2006): Dynamic Reprogramming of DNA Methylation at an Epigenetically Sensitive Allele in Mice. In: *PLoS Genetics* 2/4, S. 399-405.
- Blute, Marion (2005): If the Genome Isn't a God-like Ghost in the Machine, Then What is it? In: *Biology and Philosophy* 20, S. 401-407.
- Bobbert, Monika (2007): Was macht Menschsein aus, wenn Biotechniken die Spezies verändern? Ethische Fragen der Forschung mit embryonalen Stammzellen, alternativen Klonverfahren und Chimären. In: *Ethica* 15, S. 7-49.
- Bok, Hilary (2003): What's Wrong with Confusion? In: *The American Journal of Bioethics* 3, S. 25-26.
- Boklage, Charles E. (2006): Embryogenesis of Chimeras, Twins and Anterior Midline Asymmetries. In: *Human Reproduction* 21, S. 579-591.
- Bonnicksen, Andrea L. (2009): *Chimeras, Hybrids, and Interspecies Research. Politics and Policymaking*. Washington, D.C.: Georgetown University Press.
- Bono, James J. (1995): *The Word of God and the Languages of Man: Interpreting Nature in Early Modern Science and Medicine*. Madison: University of Wisconsin Press.
- Borges, Jorge Luis (2000): *Einhorn, Sphinx und Salamander. Das Buch der imaginären Wesen*. Frankfurt am Main: Fischer.
- Boyd, Richard (1999): Homeostasis, Species, and Higher Taxa. In: Wilson, Robert A. (Hg.): *Species. New Interdisciplinary Essays*. Cambridge: MIT Press, S. 141-185.
- Brandt, Christina (2004): *Metapher und Experiment*. Göttingen: Wallstein.
- Brett, David; Pospisil, Heike; Valcarcel, Juan; Reich, Jens; Bork, Peer (2002): Alternative Splicing and Genome Complexity. In: *Nature Genetics* 30, S. 29-30.
- Brink, Royal Alexander (1927): Genetics and the Problems of Development. In: *The American Naturalist* 61, S. 280-283.
- Brown, Terry A. (2007): *Genome und Gene. Lehrbuch der molekularen Genetik*. Berlin: Spektrum.
- Brunton, Thomas Lauder; Macfadyen, Allan (1889): The Ferment-Action of Bacteria. In: *Proceedings of the Royal Society of London* 46, S. 542-553.

- Buiting, Karin; Gross, Stephanie; Lich, Christina; Gillissen-Kaesbach, Gabriele; el-Maarri, Osman et al. (2003): Epimutations in Prader-Willi and Angelman Syndromes: A Molecular Study of 136 Patients with an Imprinting Defect. In: *American Journal of Human Genetics* 72, S. 571-577.
- Bunge, Mario; Mahner, Martin (2004): *Über die Natur der Dinge. Materialismus und Wissenschaft*. Stuttgart: Hirzel.
- Burian, Richard M. (2004): Molecular Epigenesis, Molecular Pleiotropy, and Molecular Gene Definitions. In: *History and Philosophy of the Life Sciences* 26, S. 59-80.
- Burian, Richard M. (2005): Too Many Kinds of Genes? Some Problems Posed by Discontinuities in Gene Concepts and the Continuity of the Genetic Material. In: Burian, Richard M.: *The Epistemology of Development, Evolution, and Genetics*. Cambridge: Cambridge University Press, S. 166-178.
- Butler, Judith (2009): *Das Unbehagen der Geschlechter*. Frankfurt am Main: Suhrkamp.
- Camporesi, Silvia; Boniolo, Giovanni (2008): Fearing a Non-Existing Minotaur? The Ethical Challenges of Research on Cytoplasmic Hybrid Embryos. In: *Journal of Medical Ethics* 34, S. 821-825.
- Cao, Yilin; Vacanti, Joseph P.; Paige, Keith T.; Upton, Joseph; Vacanti, Charles A. (1997): Transplantation of Chondrocytes Utilizing a Polymer-Cell Construct to Produce Tissue-Engineered Cartilage in the Shape of a Human Ear. In: *Plastic and Reconstructive Surgery* 100, S. 297-302.
- Carlson, Elof Axel (1966): *The Gene. A Critical History*. Philadelphia/London: Saunders.
- Carrier, Martin; Wimmer, Reiner (1995): Prozeß. In: Mittelstraß, Jürgen (Hg.): *Enzyklopädie Philosophie und Wissenschaftstheorie*. Stuttgart/Weimar: Metzler, S. 385-387.
- Castle, David (2003): Hopes against Hopeful Monsters. In: *The American Journal of Bioethics* 3, S. 28-30.
- Chan, William F.N.; Gurnot, Cécile; Montine, Thomas J.; Sonnen, Joshua A.; Guthrie, Katherine A. et al. (2012): Male Microchimerism in the Human Female Brain. In: *PLoS ONE* 7/9, S. e45592.
- Charisius, Hanno (2007): Keine Angst vor der Chimäre. In: *Süddeutsche Zeitung* vom 6.9.2007, S. 16.
- Charland, Louis C. (2003): Are There Answers? In: *The American Journal of Bioethics* 3, S. W1-2.
- Cheng, Jill; Kapranov, Philipp; Drenkow, Jorg; Dike, Sujit; Brubaker, Shane et al. (2005): Transcriptional Maps of 10 Human Chromosomes at 5-Nucleotide Resolution. In: *Science* 308, S. 1149-1154.

- Cohen, Cynthia B. (2003): Creating Human-Nonhuman Chimeras: Of Mice and Men. In: *The American Journal of Bioethics* 3, S. W3-5.
- Collins, Francis S.; Green, Eric D.; Guttmacher, Alan E.; Guyer, Mark S. (2003): A Vision for the Future of Genomics Research. In: *Nature* 422, S. 835-847.
- Cook, Christopher D.K. (1969): On the Determination of Leaf Form in *Ranunculus Aquatilis*. In: *New Phytologist* 68, S. 469-480.
- Costa, Fabrício F. (2010): Non-Coding RNAs: Meet Thy Masters. In: *BioEssays* 32, S. 1-10.
- Cramer, William; Bearn, Andrew R. (1906): The Effect of Heat on Enzyme Activity. In: *The Journal of Physiology* 34 (Suppl.), S. xxxvi-xxxvii.
- Cuypers, Stefaan E. (2005): Das Problem der personalen Identität in der analytischen Philosophie. In: *e-Journal Philosophie der Psychologie* 3, S. 1-17.
- Daly, Chris (1998): Natural Kinds. In: Craig, Edward (Hg.): *Routledge Encyclopedia of Philosophy*, London/New York: Routledge, Bd. 6, S. 682-685.
- Dawkins, Richard (2000): *Das egoistische Gen*. Reinbek bei Hamburg: Rowohlt.
- DeGrazia, David (2007): Human-Animal Chimeras: Human Dignity, Moral Status, and Species Prejudice. In: *Metaphilosophy* 38, S. 309-329.
- Dellios, Paulette (2008): The Chimera: The Untameable Lexical Monster. In: *Studia Universitatis Petru Maior – Philologia* 07, S. 161-166.
- Deutscher Ethikrat (2008): *Wortprotokoll der Plenarsitzung des Deutschen Ethikrates*. <http://www.ethikrat.org> vom 26.06.2008.
- Deutscher Ethikrat (2011a): *Jahresbericht 2010*. <http://www.ethikrat.org> vom März 2011.
- Deutscher Ethikrat (2011b): *Mensch-Tier-Mischwesen in der Forschung. Stellungnahme*. <http://www.ethikrat.org> vom September 2011.
- Devitt, Michael (2008): Resurrecting Biological Essentialism. In: *Philosophy of Science* 75, S. 344-382.
- Downes, Stephen M. (2004): Alternative Splicing, the Gene Concept, and Evolution. In: *History and Philosophy of the Life Sciences* 26, S. 91-104.
- Drewery, Alice (Hg.) (2006): *Metaphysics in Science*. Malden: Blackwell.
- Duan, Zhijun; Blau, Carl Anthony (2012): The Genome in Space and Time: Does Form Always Follow Function? In: *BioEssays* 34, 800-810.
- Dupré, John (1993): *The Disorder of Things. Metaphysical Foundations of the Disunity of Science*. Cambridge, MA: Harvard University Press.
- Dupré, John (2001): Natural Kinds. In: Newton-Smith, William H. (Hg.): *A Companion to the Philosophy of Science*. Malden: Blackwell, S. 311-319.
- Dupré, John (2006): Is ›Natural Kind‹ a Natural Kind Term? In: Dupré, John: *Humans and Other Animals*. Oxford: Oxford University Press, S. 103-123.

- Dupré, John (2010): The Polygenomic Organism. In: Parry, Sarah; Dupré, John (Hg.): *Nature After the Genome*. Malden: Wiley-Blackwell, S. 19-31.
- Dupré, John; O'Malley, Maureen A. (2007): Metagenomics and Biological Ontology. In: *Studies in History and Philosophy of Science Part C* 38, S. 834-846.
- Eiraku, Mototsugu; Takata, Nozomu; Ishibashi, Hiroki; Kawada, Masako; Sakakura, Eriko et al. (2011): Self-Organizing Optic-Cup Morphogenesis in Three-Dimensional Culture. In: *Nature* 472, S. 51-56.
- El-Hani, Charbel Niño (2007): Between the Cross and the Sword: The Crisis of the Gene Concept. In: *Genetics and Molecular Biology* 30, S. 297-307.
- Ellis, Brian (2001): *Scientific Essentialism*. Cambridge: Cambridge University Press.
- Ellis, Brian (2002): *The Philosophy of Nature*. Montreal u.a.: Acumen.
- Ellis, Brian (2006): Physical Realism. In: Drewery, Alice (Hg.): *Metaphysics in Science*. Malden: Blackwell, S. 1-13.
- Ereshefsky, Marc (2006): Species. In: *Stanford Encyclopedia of Philosophy*. <http://plato.stanford.edu/vom/17.03.2006>.
- Ereshefsky, Marc (2009): Natural Kinds in Biology. In: *Routledge Encyclopedia of Philosophy Online*. <http://www.rep.routledge.com>
- Eriksson, Lena; Webster, Andrew (2008): Standardizing the Unknown: Practicable Pluripotency as Doable Futures. In: *Science as Culture* 17, S. 57-69.
- Falk, Raphael (2000): The Gene – A Concept in Tension. In: Beurton, Peter; Falk, Raphael; Rheinberger, Hans-Jörg (Hg.): *The Concept of the Gene in Development and Evolution. Historical and Epistemological Perspectives*. Cambridge: Cambridge University Press, S. 317-348.
- Falk, Raphael (2004): Long Live the Genome! So Should the Gene. In: *History and Philosophy of the Life Sciences* 26, S. 105-121.
- Falk, Raphael (2009): *Genetic Analysis. A History of Genetic Thinking*. Cambridge: Cambridge University Press.
- Farabaugh, Philip J. (1996): Programmed Translational Frameshifting. In: *Annual Review of Genetics* 30, S. 507-528.
- Fehilly, Carole B.; Willadsen, Steen M.; Tucker, Elizabeth M. (1984): Interspecific Chimaerism Between Sheep and Goat. In: *Nature* 307, S. 634-636.
- Felsenfeld, Gary; Groudine, Mark (2003): Controlling the Double Helix. In: *Nature* 421, S. 448-453.
- Findlay, George H.; Moores, Phyllis P. (1980): Pigment Anomalies of the Skin in the Human Chimaera: Their Relation to Systematized Naevi. In: *British Journal of Dermatology* 103, S. 489-499.

- Fogle, Thomas (2000): The Dissolution of Protein Coding Genes in Molecular Biology. In: Beurton, Peter; Falk, Raphael; Rheinberger, Hans-Jörg (Hg.): *The Concept of the Gene in Development and Evolution. Historical and Epistemological Perspectives*. Cambridge: Cambridge University Press, S. 3-25.
- Futuyma, Douglas J. (2005): *Evolution*. Sunderland: Sinauer.
- Gayon, Jean (2000): From Measurement to Organization: A Philosophical Scheme for the History of the Concept of Heredity. In: Beurton, Peter; Falk, Raphael; Rheinberger, Hans-Jörg (Hg.): *The Concept of the Gene in Development and Evolution. Historical and Epistemological Perspectives*. Cambridge: Cambridge University Press, S. 69-90.
- Gehring, Walter J. (2005): New Perspectives on Eye Development and the Evolution of Eyes and Photoreceptors. In: *Journal of Heredity* 96, S. 171-184.
- Gehring, Walter J.; Ikeo, Kazuho (1999): Pax 6: Mastering Eye Morphogenesis and Eye Evolution. In: *Trends in Genetics* 15, S. 371-377.
- Gelman, Susan A. (2005): *The Essential Child. Origins of Essentialism in Everyday Thought*. Oxford: Oxford University Press.
- Gelman, Susan A.; Hirschfeld, Lawrence A. (1999): How Biological Is Essentialism? In: Medin, Douglas L.; Atran, Scott (Hg.): *Folkbiology*. Cambridge: MIT Press, S. 403-446.
- Gerstein, Mark B.; Bruce, Can; Rozowsky, Joel S.; Zheng, Deyou; Du, Jiang et al. (2007): What Is a Gene, Post-ENCODE? History and Updated Definition. In: *Genome Research* 17, S. 669-681.
- Gilbert, Scott F. (1995): Resurrecting the Body: Has Postmodernism Had Any Effect on Biology? In: *Science in Context* 8, S. 563-577.
- Gilbert, Scott F. (2012): Commentary: ›The Epigenotype‹ by C.H. Waddington. In: *International Journal of Epidemiology* 41, S. 20-23.
- Gilbert, Scott F.; Epel, David (2009): *Ecological Developmental Biology. Integrating Epigenetics, Medicine, and Evolution*. Sunderland: Sinauer.
- Glenn, Linda MacDonald (2003): When Pigs Fly? Legal and Ethical Issues in Transgenics and the Creation of Chimeras. In: *The Physiologist* 46, S. 251-255.
- Godfrey-Smith, Peter (2000): On the Theoretical Role of ›Genetic Coding‹. In: *Philosophy of Science* 67, S. 26-44.
- Godfrey-Smith, Peter (2007): Information in Biology. In: Hull, David L.; Ruse, Michael (Hg.): *The Cambridge Companion to the Philosophy of Biology*. New York u. a.: Cambridge University Press, S. 103-119.
- Graveley, Brenton R. (2001): Alternative Splicing: Increasing Diversity in the Proteomic World. In: *Trends in Genetics* 17, S. 100-107.

- Gray, Russell D. (1992): Death of the Gene: Developmental Systems Fight Back. In: Griffiths, Paul (Hg.): *Trees of Life. Essays in Philosophy of Biology*. Dordrecht: Kluwer, S. 165-209.
- Greely, Henry T. (2003): Defining Chimeras...and Chimeric Concerns. In: *The American Journal of Bioethics* 3, S. 17-20.
- Greely, Henry T.; Cho, Mildred K.; Hogle, Linda F.; Satz, Debra M. (2007): Thinking About the Human Neuron Mouse. In: *The American Journal of Bioethics* 7, S. 27-40.
- Greene, Mark; Schill, Kathryn; Takahashi, Shoji; Bateman-House, Alison; Beauchamp, Tom et al (2005): Moral Issues of Human-Non-Human Primate Neural Grafting. In: *Science* 309, S. 385-386.
- Grewe, Felix; Herres, Stefan; Viehöver, Prisca; Polsakiewicz, Monika; Weisshaar, Bernd et al. (2011): A Unique Transcriptome: 1782 Positions of RNA Editing Alter 1406 Codon Identities in Mitochondrial mRNAs of the Lycophte *Isoetes engelmannii*. In: *Nucleic Acids Research* 39, S. 2890-2902.
- Griesemer, James R. (2000): Reproduction and the Reduction of Genetics. In: Beurton, Peter; Falk, Raphael; Rheinberger, Hans-Jörg (Hg.): *The Concept of the Gene in Development and Evolution. Historical and Epistemological Perspectives*. Cambridge: Cambridge University Press, S. 240-285.
- Griesemer, James R. (2006): Genetics from an Evolutionary Process Perspective. In: Neumann-Held, Eva M.; Rehmann-Sutter, Christoph (Hg.): *Genes in Development. Re-Reading the Molecular Paradigm*. Durham: Duke University Press, S. 199-237.
- Griffiths, Paul E. (1999): Squaring the Circle: Natural Kinds with Historical Essences. In: Wilson, Robert A. (Hg.): *Species. New Interdisciplinary Essays*. Cambridge: MIT Press, S. 209-228.
- Griffiths, Paul E.; Neumann-Held, Eva M. (1999): The Many Faces of the Gene. In: *BioScience* 49, S. 656-662.
- Griffiths, Paul E.; Stotz, Karola (2006): Genes in the Postgenomic Era. In: *Theoretical Medicine and Bioethics* 27, S. 499-521.
- Griffiths, Paul E.; Stotz, Karola (2007): Gene. In: Hull, David L.; Ruse, Michael (Hg.): *The Cambridge Companion to the Philosophy of Biology*. New York u. a.: Cambridge University Press, S. 85-102.
- Hacking, Ian (1991): A Tradition of Natural Kinds. In: *Philosophical Studies* 61, S. 109-126.
- Hägl, Rudolf-Peter (1994): *Kritik des neuen Essentialismus. Logisch-philosophische Untersuchungen über Identität, Modalität und Referenz*. Paderborn: Schöningh.

- Haig, David (2004): The (Dual) Origin of Epigenetics. In: *Cold Spring Harbor Symposia on Quantitative Biology* 69, S. 1-4.
- Haig, David (2007): Weismann Rules! OK? Epigenetics and the Lamarckian Temptation. In: *Biology and Philosophy* 22, S. 415-428.
- Haig, David (2012): Commentary: The Epidemiology of Epigenetics. In: *International Journal of Epidemiology* 41, S. 13-16.
- Hauskeller, Christine (2004): Genes, Genomes and Identity. Projections on Matter. In: *New Genetics & Society* 23, S. 285-299.
- Hauskeller, Michael (2007): *Biotechnology and the Integrity of Life. Taking Public Fears Seriously*. Aldershot u.a.: Ashgate.
- Hecht, Julia; Grewe, Felix; Knoop, Volker (2011): Extreme RNA Editing in Coding Islands and Abundant Microsatellites in Repeat Sequences of *Selaginella moellendorffii* Mitochondria: The Root of Frequent Plant mtDNA Recombination in Early Tracheophytes. In: *Genome Biology and Evolution* 3, S. 344-358.
- Houdebine, Louis-Marie (2003): *Animal Transgenesis and Cloning*. Chichester: Wiley.
- Hull, David L. (1978): A Matter of Individuality. In: *Philosophy of Science* 45, S. 335-360.
- Hull, David L.; Ruse, Michael (Hg.) (2007): *The Cambridge Companion to the Philosophy of Biology*. New York u. a.: Cambridge University Press.
- Human Fertilisation and Embryology Authority (2007): *Hybrids and Chimeras. A Report on the Findings of the Consultation*. <http://www.hfea.gov.uk> vom Oktober 2007.
- Ingensiep, Hans Werner (2000): Chimären – Die alte Seelenordnung und neue Grenzprobleme in der Bioethik. In: Cobet, Justus (Hg.): *Europa: die Gegenwartigkeit der antiken Überlieferung*. Aachen: Shaker, S. 141-168.
- Jablonka, Eva (2002): Information: Its Interpretation, Its Inheritance, and Its Sharing. In: *Philosophy of Science* 69, S. 578-605.
- Jablonka, Eva; Lamb, Marion J. (2006): *Evolution in Four Dimensions. Genetic, Epigenetic, Behavioral and Symbolic Variation in the History of Life*. Cambridge: MIT Press.
- Jablonka, Eva; Raz, Gal (2009): Transgenerational Epigenetic Inheritance. Prevalence, Mechanisms, and Implications for the Study of Heredity and Evolution. In: *Quarterly Review of Biology* 84, S. 131-176.
- Jacob, François; Monod, Jacques (1961): Genetic Regulatory Mechanisms in the Synthesis of Proteins. In: *Journal of Molecular Biology* 3, S. 318-356.
- James, Michael (2008): Race. In: *Stanford Encyclopedia of Philosophy*. <http://plato.stanford.edu> vom 28.05.2008.

- Jenuwein, Thomas; Allis, C. David (2001): Translating the Histone Code. In: *Science* 293, S. 1074-1080.
- Johannes, Frank; Porcher, Emmanuelle; Teixeira, Felipe K.; Saliba-Colombani, Vera; Simon, Matthieu et al. (2009): Assessing the Impact of Transgenerational Epigenetic Variation on Complex Traits. In: *PLoS Genetics* 5/6, S. e1000530.
- Johnston, Josephine; Eliot, Christopher (2003): Chimeras and ›Human Dignity‹. In: *The American Journal of Bioethics* 3, S. W6-8.
- Juengst, Eric; Huss, John (2009): From Metagenomics to the Metagenome. Conceptual Change and the Rhetoric of Translational Genomic Research. In: *Genomics, Society and Policy* 5, S. 1-19.
- Kac, Eduardo (2002): GFP Bunny. In: *Kunstforum International* 158, S. 46-57.
- Kaneko, Kunihiko (2006): *Life. An Introduction to Complex Systems Biology*. Berlin: Springer.
- Karpowicz, Phillip (2003): In Defense of Stem Cell Chimeras: A Response to ›Crossing Species Boundaries‹. In: *The American Journal of Bioethics* 3, S. W17-19.
- Karpowicz, Phillip; Cohen, Cynthia B.; van der Kooy, Derek J. (2004): It Is Ethical to Transplant Human Stem Cells Into Nonhuman Embryos. In: *Nature Medicine* 10, S. 331-335.
- Karpowicz, Phillip; Cohen, Cynthia B.; van der Kooy, Derek J. (2005): Developing Human-Nonhuman Chimeras in Human Stem Cell Research: Ethical Issues and Boundaries. In: *Kennedy Institute of Ethics Journal* 15, S. 107-134.
- Kay, Lily E. (2005): *Das Buch des Lebens. Wer schrieb den genetischen Code?* Frankfurt am Main: Suhrkamp.
- Kegel, Bernhard (2009): *Epigenetik. Wie Erfahrungen vererbt werden*. Köln: DuMont.
- Keil, Frank C.; Richardson, Daniel C. (1999): Species, Stuff, and Patterns of Causation. In: Wilson, Robert A. (Hg.): *Species. New Interdisciplinary Essays*. Cambridge: MIT Press, S. 263-281.
- Keller, Evelyn Fox (1994): Rethinking the Meaning of Genetic Determinism. In: *The Tanner Lectures on Human Values* 15, S. 113-139.
- Keller, Evelyn Fox (2001): *Das Jahrhundert des Gens*. Frankfurt am Main: Campus.
- Keller, Evelyn Fox (2003): *Making Sense of Life. Explaining Biological Development with Models, Metaphors, and Machines*. Cambridge: Harvard University Press.
- Keller, Evelyn Fox (2005): The Century Beyond the Gene. In: *Journal of Bioscience* 30, S. 3-10.

- Kendall, Paul (2001): Brain of a Mouse that is Quarter Human. In: *Daily Mail* vom 26.2.2001, S. 31.
- Khorasanizadeh, Sepideh (2004): The Nucleosome: From Genomic Organization to Genomic Regulation. In: *Cell* 116, S. 259-272.
- Khosrotehrani, Kiarash; Bianchi, Diana W. (2005): Multi-Lineage Potential of Fetal Cells in Maternal Tissue: A Legacy in Reverse. In: *Journal of Cell Science* 118, S. 1559-1563.
- Kitano, Hiroaki (2002): Systems Biology: A Brief Overview. In: *Science* 295, S. 1662-1664.
- Kitcher, Philip (1982): Genes. In: *British Journal for the Philosophy of Science* 33, S. 337-359.
- Kitts, David B.; Kitts, David J. (1979): Biological Species as Natural Kinds. In: *Philosophy of Science* 46, S. 613-622.
- Knoop, Volker (2011): RNA-Editing in Pflanzen: dem Editor auf der Spur. In: *Biologie in unserer Zeit* 41, S. 228-229.
- Kolata, Gina (2012): Bits of Mystery DNA, Far From ›Junk‹, Play Crucial Role. In: *The New York Times Magazine* vom 05.09.2012.
- Kono, Tomohiro; Tsunoda, Yukio; Watanabe, Tadao; Nakahara, Tatsuo (1989): Development of Chimaeric Two-Cell Mouse Embryos Produced by Allogenic Exchange of Single Nucleus From Two- and Eight-Cell Embryos. In: *Gamete Research* 24, S. 375-384.
- Koslowsky, Donna J. (2004): A Historical Perspective on RNA Editing. How the Peculiar and Bizarre Became Mainstream. In: Gott, Jonathan M. (Hg.): *RNA Interference, Editing, and Modification. Methods and Protocols*. Totowa, NJ: Humana Press, S. 161-197.
- Kovács, László (2009a): Die Be-Deutung der genetischen Information in der Öffentlichkeit. In: Hildt, Elisabeth; Kovács, László (Hg.): *Was bedeutet ›genetische Information‹?* Berlin: de Gruyter, S. 123-141.
- Kovács, László (2009b): *Medizin – Macht – Metaphern. Sprachbilder in der Humangenetik und ethische Konsequenzen ihrer Verwendung*. Frankfurt am Main: Lang.
- Krieger, Lisa (2002): Scientists Put a Bit of Man Into a Mouse. Ethics Issues in Mixing Brain Cells. In: *San Jose Mercury News* vom 14.2.2002, S. 1B.
- Kucharski, Robert; Maleszka, Joanna; Foret, Sylvain; Maleszka, Ryszard (2008): Nutritional Control of Reproductive Status in Honeybees via DNA Methylation. In: *Science* 319, S. 1827-1830.
- Küppers, Bernd-Olaf (1990): *Der Ursprung biologischer Information*. München: Piper.

- Kuře, Josef (2009): Etymological Background and Further Clarifying Remarks Concerning Chimeras and Hybrids. In: Taupitz, Jochen; Weschka, Marion (Hg.): *Chimbrids – Chimeras and Hybrids in Comparative European and International Research. Scientific, Ethical, Philosophical and Legal Aspects*. Berlin: Springer, S. 7-20.
- La Cruz, Xavier de; Lois, Sergio; Sánchez-Molina, Sara; Martínez-Balbás, Marian A. (2005): Do Protein Motifs Read the Histone Code? In: *BioEssays* 27, S. 164-175.
- Lakoff, George; Johnson, Mark (2008): *Leben in Metaphern. Konstruktion und Gebrauch von Sprachbildern*. Heidelberg: Auer.
- Lancaster, Alex K.; Bardill, J. Patrick; True, Heather L.; Masel, Joanna (2010): The Spontaneous Appearance Rate of the Yeast Prion [PSI<sup>+</sup>] and Its Implications for the Evolution of the Evolvability Properties of the [PSI<sup>+</sup>] System. In: *Genetics* 184, S. 393-400.
- Lane, Natasha; Dean, Wendy; Erhardt, Sylvia; Hajkova, Petra; Surani, Azim et al. (2003): Resistance of IAPs to Methylation Reprogramming May Provide a Mechanism for Epigenetic Inheritance in the Mouse. In: *Genesis* 35, S. 88-93.
- Lange, Ulrike C.; Schneider, Robert (2010): What an Epigenome Remembers. In: *BioEssays* 32, S. 659-668.
- Laubichler, Manfred D.; Maienschein, Jane (Hg.) (2007): *From Embryology to Evo-Devo. A History of Developmental Evolution*. Cambridge: MIT Press.
- Lavieri, Robert R. (2007): The Ethical Mouse: Be Not Like Icarus. In: *The American Journal of Bioethics* 7, S. 57-58.
- Le Douarin, Nicole M. (1993): Embryonic Neural Chimaeras in the Study of Brain Development. In: *Trends in Neurosciences* 16, S. 64-72.
- Le Douarin, Nicole M.; Maclaren, Anne (Hg.) (1984): *Chimeras in Developmental Biology*. London: Academic.
- Lee, Jeannie T. (2012): Epigenetic Regulation by Long Noncoding RNAs. In: *Science* 338, S. 1435-1439.
- Lesk, Arthur M. (2012): *Introduction to Genomics*. Oxford: Oxford University Press.
- Lewis, Edward B. (1992): Clusters of Master Control Genes Regulate the Development of Higher Organisms. In: *The Journal of the American Medical Association* 267, S. 1524-1531.
- Li, Mingyao; Wang, Isabel X.; Li, Yun; Bruzel, Alan; Richards, Allison L. et al. (2011): Widespread RNA and DNA Sequence Differences in the Human Transcriptome. In: *Science* 333, S. 53-58.

- Locke, John (1997): *An Essay Concerning Human Understanding*. London: Penguin.
- Löhr, Wolfgang (2005): Chimären aus dem Labor. In: *taz* vom 6.5.2005.
- Lolle, Susan J.; Victor, Jennifer L.; Young, Jessica M.; Pruitt, Robert E. (2005): Genome-Wide Non-Mendelian Inheritance of Extra-Genomic Information in *Arabidopsis*. In: *Nature* 434, S. 505-509.
- Lubbadeh, Jens (2008): Streit um Chimären und Ersatz-Geschwister. In: *Spiegel Online*. <http://www.spiegel.de/wissenschaft> vom 20.05.2008.
- Lundin, Susanne (1999): The Boundless Body: Cultural Perspectives on Xenotransplantation. In: *Ethnos: Journal of Anthropology* 64, S. 5-31.
- Lyotard, Jean-François (2009): *Das postmoderne Wissen. Ein Bericht*. Wien: Passagen-Verlag.
- Maher, Brendan (2012): The Human Encyclopaedia. In: *Nature* 489, S. 46-48.
- Mahner, Martin (2005): Biologische Klassifikation und Artbegriff. In: Krohs, Ulrich; Toepfer, Georg (Hg.): *Philosophie der Biologie*. Frankfurt am Main: Suhrkamp, S. 231-248.
- Mahner, Martin; Bunge, Mario (2000): *Philosophische Grundlagen der Biologie*. Berlin: Springer.
- Mahner, Martin; Kary, Michael (1997): What Exactly Are Genomes, Genotypes and Phenotypes? And What About Phenomes? In: *Journal of Theoretical Biology* 186, S. 55-63.
- Mallet, James (2005): Hybridization as an Invasion of the Genome. In: *Trends in Ecology and Evolution* 20, S. 229-237.
- Maloney, Sean; Smith, Anajane; Furst, Daniel E.; Myerson, David; Rupert, Kate et al. (1999): Microchimerism of Maternal Origin Persists Into Adult Life. In: *Journal of Clinical Investigation* 104, S. 41-47.
- Margueron, Raphael; Trojer, Patrick; Reinberg, Danny (2005): The Key to Development: Interpreting the Histone Code? Chromosomes and Expression Mechanisms. In: *Current Opinion in Genetics and Development* 15, S. 163-176.
- Marks, Nicola J. (2010): Defining Stem Cells? Scientists and Their Classifications of Nature. In: Parry, Sarah; Dupré, John (Hg.): *Nature After the Genome*. Malden: Wiley-Blackwell, S. 32-50.
- Martin, Claude; Beaupain, Denise; Dieterlen-Lièvre, Françoise (1980): A Study of the Development of the Hemopoietic System Using Quail-Chick Chimeras Obtained by Blastoderm Recombination. In: *Developmental Biology* 75, S. 303-314.
- McGee, Daniel B. (2003): The Wisdom of Leon the Professional. In: *The American Journal of Bioethics* 3, S. vii-viii.

- McLaughlin, Peter (2005): Funktion. In: Krohs, Ulrich; Toepfer, Georg (Hg.): *Philosophie der Biologie*. Frankfurt am Main: Suhrkamp, S. 19-35.
- Mercier, Annie; Sun, Zhao; Hamel, Jean-François (2011): Internal Brooding Favours Pre-Metamorphic Chimerism in a Non-Colonial Cnidarian, the Sea Anemone *Urticina felina*. In: *Proceedings of the Royal Society B: Biological Sciences* 278, S. 3517-3522.
- Mitsiadis, Thimios A.; Chéraud, Yvonnick; Sharpe, Paul; Fontaine-Pérus, Josiane (2003): Development of Teeth in Chick Embryos After Mouse Neural Crest Transplantations. In: *Proceedings of the National Academy of Sciences* 100, S. 6541-6545.
- Mitchell, Peter Chalmers (1915): *Evolution and the War*. London: John Murray.
- Mode, Heinz (2005): *Fabeltiere und Dämonen. Die Welt der phantastischen Wesen*. Leipzig: Koehler und Amelang.
- Mole, Beth Marie (2012): Swapping DNA in the Womb. In: *The Scientist* vom 27.09.2012.
- Montera, Béatrice de; Hue, Isabelle; Renard, Jean-Paul (2009): Chimeras in Developmental Biology: Scientific Objectives and Ethical Issues. In: Taupitz, Jochen; Weschka, Marion (Hg.): *Chimbrids – Chimeras and Hybrids in Comparative European and International Research. Scientific, Ethical, Philosophical and Legal Aspects*. Berlin: Springer, S. 556-570.
- Morange, Michel (2001): *The Misunderstood Gene*. Cambridge: Harvard University Press.
- Morris, Kevin V. (2012): Lamarck and the Missing Lnc. In: *The Scientist* vom 01.10.2012.
- Moss, Lenny (2001): Deconstructing the Gene and Reconstructing Molecular Developmental Systems. In: Oyama, Susan; Griffiths, Paul E.; Gray, Russell D. (Hg.): *Cycles of Contingency*. Cambridge: Cambridge University Press, S. 85-97.
- Moss, Lenny (2003): *What Genes Can't Do*. Cambridge: MIT Press.
- Moss, Lenny (2004): Commentary on Falk and Downes. In: *History and Philosophy of the Life Sciences* 26, S. 123-129.
- MPI für biophysikalische Chemie (2005): *Informationen zum SPIEGEL-Artikel ›Der Mensch im Tier‹ und zur dpa-Meldung ›Nationaler Ethikrat will sich mit Chimären-Experimenten befassen‹*. <http://www.mpibpc.mpg.de> vom 02.05.2005.
- Muller, Hermann J. (1926): The Gene as the Basis of Life. In: *Proceedings of the International Congress of Plant Sciences* 1, S. 897-921.

- Müller, Gerd B.; Olsson, Lennart (2003): Epigenesis and Epigenetics. In: Hall, Brian K.; Olson, Wendy M. (Hg.): *Keywords and Concepts in Evolutionary Developmental Biology*. Cambridge: Harvard University Press, S. 114-123.
- Müller-Wille, Staffan; Rheinberger, Hans-Jörg (2009): *Das Gen im Zeitalter der Postgenomik. Eine wissenschaftshistorische Bestandsaufnahme*. Frankfurt am Main: Suhrkamp.
- Muotri, Alysson R.; Nakashima, Kinichi; Toni, Nicolas; Sandler, Vladislav M.; Gage, Fred H. (2005): Development of Functional Human Embryonic Stem Cell-Derived Neurons in Mouse Brain. In: *Proceedings of the National Academy of Sciences* 102, S. 18644-18648.
- Nagl-Docekal, Herta (1997): Untiefen der Essentialismuskritik. In: *Deutsche Zeitschrift für Philosophie* 45, S. 20-22.
- Nanney, David L. (1958): Epigenetic Control Systems. In: *Proceedings of the National Academy of Sciences* 44, S. 712-717.
- Nelkin, Dorothy (2001): Molecular Metaphors: the Gene in Popular Discourse. In: *Nature Reviews Genetics* 2, S. 555-559.
- Nelkin, Dorothy; Lindee, M. Susan (2004): *The DNA Mystique. The Gene as a Cultural Icon*. Ann Arbor: University of Michigan Press.
- Nerlich, Brigitte; Dingwall, Robert; Clarke, David D. (2002): The Book of Life: How the Completion of the Human Genome Project was Revealed to the Public. In: *Health* 6, S. 445-469.
- Nerlich, Brigitte; Hellsten, Iina (2004): Genomics: Shifts in Metaphorical Landscape between 2000 and 2003. In: *New Genetics and Society* 23, S. 255-268.
- Neumann-Held, Eva M. (1999): The Gene Is Dead – Long Live the Gene! In: Koslowski, Peter (Hg.): *Sociobiology and Bioeconomics: The Theory of Evolution in Biological and Economic Theory*. Berlin: Springer, S. 105-137.
- Neumann-Held, Eva M. (2001): Let's Talk about Genes: The Process Molecular Gene Concept and Its Context. In: Oyama, Susan; Griffiths, Paul E.; Gray, Russell D. (Hg.): *Cycles of Contingency*. Cambridge: Cambridge University Press, S. 69-84.
- Neumann-Held, Eva M. (2006): Genes – Causes – Codes. In: Neumann-Held, Eva M.; Rehmann-Sutter, Christoph (Hg.): *Genes in Development. Re-Reading the Molecular Paradigm*. Durham: Duke University Press, S. 238-271.
- Nijhout, H. Frederik (1990): Metaphors and the Role of Genes in Development. In: *BioEssays* 12, S. 441-446.
- Nijhout, H. Frederik (1999): Control Mechanisms of Polyphenic Development in Insects. In: *BioScience* 49, S. 181-192.

- Noble, Denis (2008a): Genes and Causation. In: *Philosophical Transactions of the Royal Society A* 366, S. 3001-3015.
- Noble, Denis (2008b): *The Music of Life. Biology Beyond Genes*. Oxford: Oxford University Press.
- Nordgren, Anders; Juengst, Eric T. (2009): Can Genomics Tell Me Who I Am? Essentialistic Rhetoric in Direct-to-Consumer DNA Testing. In: *New Genetics and Society* 28, S. 157-172.
- Oderberg, David S. (2009): *Real Essentialism*. New York: Routledge.
- O'Doherty, Kieran (2012): Who Are We Really? Manipulating the Human Microbiome Has Ethical Implications. In: *The Scientist* vom 01.03.2012.
- Ogle, Brenda M.; Butters, Kim A.; Plummer, Timothy B.; Ring, Kevin R.; Knudsen, Bruce E. et al. (2004): Spontaneous Fusion of Cells Between Species Yields Transdifferentiation and Retroviral Transfer In Vivo. In: *FASEB Journal* 18, S. 548-550.
- Olson, Eric T. (2010): Personal Identity. In: *Stanford Encyclopedia of Philosophy*. <http://plato.stanford.edu> vom 28.10.2010.
- Osterkamp, Jan (2012): *Epigenetik: Die Dunkle Materie des Erbguts*. <http://www.spektrum.de> vom 18.12.2012.
- Oyama, Susan (2000): *The Ontogeny of Information. Developmental Systems and Evolution*. Durham: Duke University Press.
- Oyama, Susan; Griffiths, Paul E.; Gray, Russell D. (Hg.) (2001): *Cycles of Contingency*. Cambridge: Cambridge University Press.
- Parry, Sarah; Dupré, John (Hg.) (2010): *Nature After the Genome*. Malden: Wiley-Blackwell.
- Paulsen, Martina (2009): Epigenetische Informationen kodieren eine zusätzliche Dimension vererbbarer Informationen. In: Hildt, Elisabeth; Kovács, László (Hg.): *Was bedeutet >genetische Information<?* Berlin: de Gruyter, S. 77-94.
- Pearson, Helen (2006): Genetics: What Is a Gene? In: *Nature* 441, S. 398-401.
- Pennisi, Elizabeth (2001): Behind the Scenes of Gene Expression. In: *Science* 293, S. 1064-1067.
- Piatigorsky, Joram (2007): *Gene Sharing and Evolution. The Diversity of Protein Functions*. Cambridge: Harvard University Press.
- Piersma, Theunis; van Gils, Jan A. (2010): *The Flexible Phenotype. A Body-Centred Integration of Ecology, Physiology, and Behaviour*. Oxford: Oxford University Press.
- Pigliucci, Massimo (2007): Do We Need an Extended Evolutionary Synthesis? In: *Evolution* 61, S. 2743-2749.

- Pigliucci, Massimo (2010): Phenotypic Plasticity. In: Pigliucci, Massimo; Müller, Gerd B. (Hg.): *Evolution. The Extended Synthesis*. Cambridge: MIT Press, S. 355-378.
- Pigliucci, Massimo; Müller, Gerd B. (Hg.) (2010): *Evolution. The Extended Synthesis*. Cambridge: MIT Press.
- Piro, Rosario (2011): Are All Genes Regulatory Genes? In: *Biology and Philosophy* 26, S. 595-602.
- Poliseno, Laura; Salmena, Leonardo; Zhang, Jiangwen; Carver, Brett; Haveman, William J. et al. (2010): A Coding-Independent Function of Gene and Pseudogene mRNAs Regulates Tumour Biology. In: *Nature* 465, S. 1033-1038.
- Portin, Petter (1993): The Concept of the Gene: Short History and Present Status. In: *The Quarterly Review of Biology* 68, S. 173-223.
- Portin, Petter (2002): Historical Development of the Concept of the Gene. In: *Journal of Medicine and Philosophy* 27, S. 257-286.
- Portin, Petter (2009): The Elusive Concept of the Gene. In: *Hereditas* 146, S. 112-117.
- Powell, Dave (2004): Chimera Contemporary: The Enduring Art of the Composite Beast. In: *Leonardo* 37, S. 332-340.
- Probst, Aline V.; Dunleavy, Elaine; Almouzni, Genevieve (2009): Epigenetic Inheritance During the Cell Cycle. In: *Nature Reviews Molecular Cell Biology* 10, S. 192-206.
- Prohaska, Sonja; Stadler, Peter (2008): »Genes«. In: *Theory in Biosciences* 127, S. 215-221.
- Putnam, Hilary (1975): *Mind, Language, and Reality*. Cambridge: Cambridge University Press.
- Rabinow, Paul; Bennett, Gaymon (2010): From Bioethics to Human Practices, or Assembling Contemporary Equipment. In: Da Costa, Beatriz; Philip, Kavita (Hg.): *Tactical Biopolitics. Art, Activism, and Technoscience*. Cambridge: MIT Press, S. 389-400.
- Ravelingien, An (2006): *Pig Tales, Human Chimeras and Man-Made Public Health Hazards. An Ethical Analysis of Xenotransplant Benefits and Risks*. Unveröffentlichte Dissertation. Ghent.
- Ravelingien, An; Braeckman, Johann; Legge, Mike (2006): On the Moral Status of Humanized Chimeras and the Concept of Human Dignity. In: *Between the Species* 6, S. 1-19.
- Rehmann-Sutter, Christoph (2005a): DNA-Horoskope. In: Rehmann-Sutter, Christoph: *Zwischen den Molekülen. Beiträge zur Philosophie der Genetik*. Tübingen: Francke, S. 83-108.

- Rehmann-Sutter, Christoph (2005b): Körpernatur, Genom und genetische ›Defekte‹. In: Rehmann-Sutter, Christoph: *Zwischen den Molekülen. Beiträge zur Philosophie der Genetik*. Tübingen: Francke, S. 175-192.
- Rehmann-Sutter, Christoph (2005c): *Zwischen den Molekülen. Beiträge zur Philosophie der Genetik*. Tübingen: Francke.
- Rehmann-Sutter, Christoph (2010): Ethik des molekularen Blicks. In: *focus uni lübeck* 27/1, S. 30-34.
- Reik, Wolf; Walter, Jorn (2001): Genomic Imprinting. Parental Influence on the Genome. In: *Nature Reviews Genetics* 2, S. 21-32.
- Rescher, Nicholas (2008): Process Philosophy. In: *Stanford Encyclopedia of Philosophy*. <http://plato.stanford.edu> vom 09.01.2008.
- Reydon, Thomas A.C. (2009): Gene Names as Proper Names of Individuals: An Assessment. In: *The British Journal for the Philosophy of Science* 60, S. 409-432.
- Rheinberger, Hans-Jörg (2000): Gene Concepts. Fragments from the Perspective of Molecular Biology. In: Beurton, Peter; Falk, Raphael; Rheinberger, Hans-Jörg (Hg.): *The Concept of the Gene in Development and Evolution. Historical and Epistemological Perspectives*. Cambridge: Cambridge University Press, S. 219-239.
- Rheinberger, Hans-Jörg; Müller-Wille, Staffan (2004): Gene. In: *Stanford Encyclopedia of Philosophy*. <http://plato.stanford.edu> vom 26.10.2004.
- Rheinberger, Hans-Jörg; Müller-Wille, Staffan (2009): *Vererbung. Geschichte und Kultur eines biologischen Konzepts*. Frankfurt am Main: Fischer.
- Richards, Sabrina (2012a): DNA with a Twist. In: *The Scientist* vom 13.09.2012.
- Richards, Sabrina (2012b): Architecture Reveals Genome's Secrets. In: *The Scientist* vom 25.11.2012.
- Ridley, Matt (2000): *Alphabet des Lebens. Die Geschichte des menschlichen Genoms*. München: Claassen.
- Rifkin, Jeremy (2005): Are You a Man or a Mouse? In: *The Guardian* vom 15.3.2005.
- Robert, Jason Scott (2001): Interpreting the Homeobox. Metaphors of Gene Action and Activation in Development and Evolution. In: *Evolution and Development* 3, S. 287-295.
- Robert, Jason Scott (2004): *Embryology, Epigenesis, and Evolution. Taking Development Seriously*. Cambridge: Cambridge University Press.
- Robert, Jason Scott; Baylis, Françoise (2003): Crossing Species Boundaries. In: *The American Journal of Bioethics* 3, S. 1-13.
- Roof, Judith (2007): *The Poetics of DNA*. Minneapolis: University of Minnesota Press.

- Ross, Corinna N.; French, Jeffrey A.; Ortí, Guillermo (2007): Germ-line Chimerism and Paternal Care in Marmosets (*Callithrix kuhlii*). In: *Proceedings of the National Academy of Sciences* 104, S. 6278-6282.
- Ruse, Michael (1992): Biological Species: Natural Kinds, Individuals, or What? In: Ereshefsky, Marc (Hg.): *The Units of Evolution. Essays on the Nature of Species*. Cambridge: MIT Press, S. 343-361.
- Ruse, Michael (Hg.) (2011): *The Oxford Handbook of Philosophy of Biology*. Oxford: Oxford University Press.
- Sagoff, Mark (2003): Transgenic Chimeras. In: *The American Journal of Bioethics* 3, S. 30-31.
- Sagoff, Mark (2007): Further Thoughts About the Human Neuron Mouse. In: *The American Journal of Bioethics* 7, S. 51-52.
- Sandøe, Peter; Holtug, Nils (1993): Transgenic Animals – Which Worries Are Ethically Significant? In: *Livestock Production Science* 36, S. 113-116.
- Sanner, Margareta A. (2001): People's Feelings and Ideas about Receiving Transplants of Different Origins – Questions of Life and Death, Identity, and Nature's Border. In: *Clinical Transplantation* 15, S. 19-27.
- Sarkar, Sahotra (1996): Biological Information. A Skeptical Look at Some Central Dogmas of Molecular Biology. Wiederabdruck in: Sarkar, Sahotra (2005): *Molecular Models of Life*. Cambridge: MIT Press, S. 205-260.
- Sarkar, Sahotra; Plutynski, Anya (Hg.) (2008): *A Companion to the Philosophy of Biology*. Malden: Blackwell.
- Schaxel, Julius (1922): Über die Herstellung tierischer Chimaeren durch Kombination von Regenerationsstadien und durch Pfropfsymbiose. In: *Genetica* 4, S. 339-363.
- Scherrer, Klaus; Jost, Jürgen (2007a): Gene and Genon Concept: Coding versus Regulation. A Conceptual and Information-theoretic Analysis of Genetic Storage and Expression in the Light of Modern Molecular Biology. In: *Theory in Biosciences* 126, S. 65-113.
- Scherrer, Klaus; Jost, Jürgen (2007b): The Gene and the Genon Concept. A Functional and Information-theoretic Analysis. In: *Molecular Systems Biology* 3, S. 1-11.
- Scherrer, Klaus; Jost, Jürgen (2009): Response to Commentaries on Our Paper <Gene and Genon Concept: Coding versus Regulation>. In: *Theory in Biosciences* 128, S. 171-177.
- Schreiner, Regine; Klose, Regina; Wolf, Eckhard (2009): Xenotransplantation – Aspects of Chimerism. In: Taupitz, Jochen; Weschka, Marion (Hg.): *Chimbrids – Chimeras and Hybrids in Comparative European and International*

- Research. Scientific, Ethical, Philosophical and Legal Aspects*. Berlin: Springer, S. 475-500.
- Schrödinger, Erwin (2011): *Was ist Leben? Die lebende Zelle mit den Augen des Physikers betrachtet*. München: Piper.
- Schwenk, Klaus; Brede, Nora; Streit, Bruno (2008): Extent, Processes and Evolutionary Impact of Interspecific Hybridization in Animals. In: *Philosophical Transactions of the Royal Society B* 363, S. 2805-2811.
- Scott, Christopher Thomas (2006): Chimeras in the Crosshairs. In: *Nature Biotechnology* 24, S. 487-490.
- Shibata, Yoshiyuki; Kumar, Pankaj; Layer, Ryan; Willcox, Smaranda; Gagan, Jeffrey R. et al. (2012): Extrachromosomal MicroDNAs and Chromosomal Microdeletions in Normal Tissues. In: *Science* 336, S. 82-86.
- Siomi, Haruhiko; Siomi, Mikiko C. (2009): On the Road to Reading the RNA-Interference Code. In: *Nature* 457, S. 396-404.
- Smith, John Maynard (2000): The Concept of Information in Biology. In: *Philosophy of Science* 67, S. 177-194.
- Smits, Martijntje (2006): Taming Monsters: The Cultural Domestication of New Technology. In: *Technology in Society* 28, S. 489-504.
- Snyder, Michael; Gerstein, Mark B. (2003): Genomics: Defining Genes in the Genomics Era. In: *Science* 300, S. 258-260.
- Sober, Elliott (1994): *From a Biological Point of View. Essays in Evolutionary Philosophy*. Cambridge: Cambridge University Press.
- Sober, Elliott (2003): Metaphysical and Epistemological Issues in Modern Darwinian Theory. In: Hodge, Jonathan; Radick, Gregory (Hg.): *The Cambridge Companion to Darwin*. Cambridge: Cambridge University Press, S. 267-287.
- Sotnak, Eric (2007): Nonhuman Chimeras with Human Brain Cells. In: *Between the Species* 13.
- Spemann, Hans; Mangold, Hilde (1924): Über Induktion von Embryonalanlagen durch Implantation artfremder Organisatoren. In: *Archiv für mikroskopische Anatomie und Entwicklungsmechanik* 100, S. 599-638.
- Spotswood, Hugh T.; Turner, Bryan M. (2002): An Increasingly Complex Code. In: *The Journal of Clinical Investigation* 110, S. 577-582.
- Stegmann, Ulrich (2004): The Arbitrariness of the Genetic Code. In: *Biology and Philosophy* 19, S. 205-222.
- Stegemann, Sandra; Bock, Ralph (2009): Exchange of Genetic Material Between Cells in Plant Tissue Grafts. In: *Science* 324, S. 649-651.
- Stegemann, Sandra; Keuthe, Mandy; Greiner, Stephan; Bock, Ralph (2012): Horizontal Transfer of Chloroplast Genomes between Plant Species. In: *Proceedings of the National Academy of Sciences* 109, S. 2434-2438.

- Stetefeld, Jörg; Ruegg, Markus A. (2005): Structural and Functional Diversity Generated by Alternative mRNA Splicing. In: *Trends in Biochemical Sciences* 30, S. 515-521.
- Stotz, Karola (2005): Organismen als Entwicklungssysteme. In: Krohs, Ulrich; Toepfer, Georg (Hg.): *Philosophie der Biologie*. Frankfurt am Main: Suhrkamp, S. 125-143.
- Stotz, Karola (2006): Molecular Epigenesis. Distributed Specificity as a Break in the Central Dogma. In: *History and Philosophy of the Life Sciences* 28, S. 527-544.
- Stotz, Karola (2008): The Ingredients for a Postgenomic Synthesis of Nature and Nurture. In: *Philosophical Psychology* 21, S. 359-381.
- Stotz, Karola; Bostanci, Adam; Griffiths, Paul E. (2006): Tracking the Shift to ›Postgenomics‹. In: *Community Genetics* 9, S. 190-196.
- Stotz, Karola; Griffiths, Paul E.; Knight, Rob (2004): How Biologists Conceptualize Genes: An Empirical Study. In: *Studies in History and Philosophy of Science Part C* 35, S. 647-673.
- Stout, Jeffrey (2001): *Ethics after Babel. The Languages of Morals and Their Discontents*. Princeton: Princeton University Press.
- Strahl, Brian D.; Allis, C. David (2000): The Language of Covalent Histone Modifications. In: *Nature* 403, S. 41-45.
- Streiffer, Robert (2003): In Defense of the Moral Relevance of Species Boundaries. In: *The American Journal of Bioethics* 3, S. 37-38.
- Streiffer, Robert (2005): At the Edge of Humanity: Human Stem Cells, Chimeras, and Moral Status. In: *Kennedy Institute of Ethics Journal* 15, S. 347-370.
- Streiffer, Robert (2009): Human/Non-Human Chimeras. In: *Stanford Encyclopedia of Philosophy*. <http://plato.stanford.edu> vom 21.05.2009.
- Tachibana, Masahito; Sparman, Michelle; Ramsey, Cathy; Ma, Hong; Lee, Hyo-Sang et al. (2012): Generation of Chimeric Rhesus Monkeys. In: *Cell* 148, S. 285-295.
- Tam, Patrick P.L.; Rossant, Janet (2003): Mouse Embryonic Chimeras: Tools for Studying Mammalian Development. In: *Development* 130, S. 6155-6163.
- Tarkowski, Andrzej K. (1961): Mouse Chimeras Developed from Fused Eggs. In: *Nature* 190, S. 857-860.
- Tarkowski, Andrzej K. (1998): Mouse Chimeras Revisited: Recollections and Reflections. In: *The International Journal of Developmental Biology* 42, S. 903-908.
- Taupitz, Jochen; Bader, Michael; Bernat, Erwin; Beyleveld, Deryck; Kuisheng, Dai et al. (2009): Summary, Conclusions and Recommendations. In: Taupitz, Jochen; Weschka, Marion (Hg.): *Chimbrids – Chimeras and Hybrids in*

- Comparative European and International Research. Scientific, Ethical, Philosophical and Legal Aspects.* Berlin: Springer, S. 433-457.
- Taupitz, Jochen; Weschka, Marion (Hg.) (2009): *Chimbrids – Chimeras and Hybrids in Comparative European and International Research. Scientific, Ethical, Philosophical and Legal Aspects.* Berlin: Springer.
- Theise, Neil D. (2006): Implications of ›Postmodern Biology‹ for Pathology: the Cell Doctrine. In: *Laboratory Investigation* 86, S. 335-344.
- Thompson, Paul B. (2003): Crossing Species Boundaries Is Even More Controversial than You Think. In: *The American Journal of Bioethics* 3, S. 14-15.
- Toepfer, Georg (2005): Der Begriff des Lebens. In: Krohs, Ulrich; Toepfer, Georg (Hg.): *Philosophie der Biologie.* Frankfurt am Main: Suhrkamp, S. 157-174.
- Traufetter, Gerald (2005): Der Mensch im Tier. In: *Der Spiegel* vom 02.05.2005, S. 148.
- Turanov, Anton A.; Lobanov, Alexey V.; Fomenko, Dmitri E.; Morrison, Hilary G.; Sogin, Mitchell L. et al. (2009): Genetic Code Supports Targeted Insertion of Two Amino Acids by One Codon. In: *Science* 323, S. 259-261.
- Turner, Bryan M. (2002): Cellular Memory and the Histone Code. In: *Cell* 111, S. 285-291.
- Turner, Bryan M. (2007): Defining an Epigenetic Code. In: *Nature Cell Biology* 9, S. 2-6.
- Turner, Bryan M. (2009): Epigenetic Responses to Environmental Change and Their Evolutionary Implications. In: *Philosophical Transactions of the Royal Society B* 364, S. 3403-3418.
- Turner, J. Scott (2010): *The Tinkerer's Accomplice. How Design Emerges from Life Itself.* Cambridge: Harvard University Press.
- Uzgalis, William (2012): John Locke. In: *Stanford Encyclopedia of Philosophy.* <http://plato.stanford.edu> vom 10.07.2012.
- Vallant, Christoph (2008): *Hybride, Klone und Chimären. Zur Transzendierung der Körper-. Art- und Gattungsgrenzen.* Würzburg: Königshausen und Neumann.
- van der Weele, Cor (2005): Images of the Genome: From Public Debates to Biology, and Back, and Forth. In: Reydon, Thomas A.C.; Hemerik, Lia (Hg.): *Current Themes in Theoretical Biology.* Dordrecht: Springer, S. 9-31.
- van de Vijver, Gertrudis; van Speybroeck, Linda; Waele, Dani de (2002): Epigenetics: A Challenge for Genetics, Evolution, and Development? In: *Annals of the New York Academy of Sciences* 981, S. 1-6.
- van Loenhout, Marijn T.J.; Grunt, Mark V. de; Dekker, Cees (2012): Dynamics of DNA Supercoils. In: *Science* 338, S. 94-97.

- van Speybroeck, Linda (2002): From Epigenesis to Epigenetics. The Case of C.H. Waddington. In: *Annals of the New York Academy of Sciences* 981, S. 61-81.
- Vinci, Tom; Robert, Jason Scott (2005): Aristotle and Modern Genetics. In: *Journal of the History of Ideas* 66, S. 201-222.
- Vining, Joseph (2008): Human Identity: The Question Presented by Human-Animal Hybridization. In: *Stanford Journal of Animal Law and Policy* 1, S. 50-68.
- Vries, Rob de (2006): Genetic Engineering and the Integrity of Animals. In: *Journal of Agricultural and Environmental Ethics* 19, S. 469-493.
- Waddington, Conrad Hal (1939): *An Introduction to Modern Genetics*. New York: Macmillan.
- Waddington, Conrad Hal (1942): The Epigenotype. In: *Endeavour* 1, S. 18-20.
- Waddington, Conrad Hal (1956): *Principles of Embryology*. New York: Macmillan.
- Walsh, Denis M. (2006): Evolutionary Essentialism. In: *The British Journal for the Philosophy of Science* 57, S. 425-448.
- Warren, Wesley C.; Clayton, David F.; Ellegren, Hans; Arnold, Arthur P.; Hillier, LaDeana W. et al. (2010): The Genome of a Songbird. In: *Nature* 464, S. 757-762.
- Wasserman, David (2003): Species and Races, Chimeras, and Multiracial People. In: *The American Journal of Bioethics* 3, S. W13-14.
- Waterland, Robert A.; Jirtle, Randy L. (2003): Transposable Elements: Targets for Early Nutritional Effects on Epigenetic Gene Regulation. In: *Molecular and Cellular Biology* 23, S. 5293-5300.
- Waters, C. Kenneth (1994): Genes Made Molecular. In: *Philosophy of Science* 61, S. 163-185.
- Waters, C. Kenneth (2000): Molecules Made Biological. In: *Revue Internationale de Philosophie* 54, S. 539-564.
- Waters, C. Kenneth (2007): Molecular Genetics. In: *Stanford Encyclopedia of Philosophy*. <http://plato.stanford.edu> vom 07.03.2007.
- Waters, Hannah (2012): How to Make Eyeball Stew. In: *The Scientist* vom 01.03.2012.
- Weaver, Ian C.G.; Cervoni, Nadia; Champagne, Frances A.; D'Alessio, Ana C.; Sharma, Shakti et al. (2004): Epigenetic Programming by Maternal Behavior. In: *Nature Neuroscience* 7, S. 847-854.
- Weigmann, Katrin (2004): The Code, the Text and the Language of God. In: *EMBO Reports* 5, S. 116-118.

- Weiss, Rick (2004): Of Mice, Men and In-Between. In: *Washington Post* vom 20.11.2004, S. A1.
- West-Eberhard, Mary Jane (2003): *Developmental Plasticity and Evolution*. Oxford: Oxford University Press.
- Whitehead, Alfred North (2008): *Prozeß und Realität. Entwurf einer Kosmologie*. Frankfurt am Main: Suhrkamp.
- Wilson, Jack (1999a): *Biological Individuality. The Identity and Persistence of Living Entities*. Cambridge: Cambridge University Press.
- Wilson, Robert A. (Hg.) (1999b): *Species. New Interdisciplinary Essays*. Cambridge: MIT Press.
- Wilson, Robert A. (2005): *Genes and the Agents of Life. The Individual in the Fragile Sciences: Biology*. Cambridge: Cambridge University Press.
- Wilson, Robert A.; Barker, Matthew J.; Brigandt, Ingo (2007): When Traditional Essentialism Fails. Biological Natural Kinds. In: *Philosophical Topics* 35, S. 189-215.
- Yablo, Stephen (1998): Essentialism. In: Craig, Edward (Hg.): *Routledge Encyclopedia of Philosophy*. London/New York: Routledge, Bd. 3, S. 417-422.
- Yong, Ed (2012a): Getting to Know the Genome. In: *The Scientist* vom 05.09.2012.
- Yong, Ed (2012b): Conserved Chromatin? In: *The Scientist* vom 10.12.2012.
- Youngson, Neil A.; Whitelaw, Emma (2008): Transgenerational Epigenetic Effects. In: *Annual Review of Genomics and Human Genetics* 9, S. 233-257.
- Zeising, Andreas (2004): Zur Aktualität von Tierphysiognomik und Mensch-Tier-Hybriden bei Daniel Lee und Patricia Piccinini. In: *Kunsttexte.de* 2, S. 1-7.

