

CURRICULUM VITAE – MARCEL WEBER

Present appointment

Full Professor, Department of Philosophy, University of Geneva

Qualifications

Habilitation in Philosophy, Leibniz University Hannover, 2002

Ph.D. in Philosophy (*summa cum laude*), University of Konstanz, 1996

Master of Science in Molecular Biology (*Diplom Biologie II*), University of Basel, 1987

Previous appointments

2019	Visiting Research Professor, Department of Logic and Philosophy of Science, University of California, Irvine
2009-2011	Full Professor (W3), Department of Philosophy, University of Konstanz
2004-2009	SNSF-Professor, Science Studies Program and Department of Philosophy, University of Basel
2008	Visiting Professor, Department of Zoology, University of Zurich
2007-2009	Visiting Professor, Department of Philosophy, University of Geneva
2003-2004	Chair <i>ad interim</i> , Center for Philosophy and Ethics of Science, Leibniz University Hannover
2002/03	Visiting Professor, Institute for Philosophy, Humboldt University Berlin
2001	Visiting Researcher, Max-Planck-Institute for the History of Science, Berlin
1997-2002	Lecturer, Center for Philosophy and Ethics of Science, Leibniz University Hannover
1996-97	Postdoctoral Fellow, Minnesota Centre for Philosophy of Science, University of Minnesota, Minneapolis
1993-96	Research Assistant to Prof. Werner Arber, Department of Microbiology, Biozentrum, University of Basel
1988-89	Research Assistant to Prof. Gottfried Schatz, Department of Biochemistry, Biozentrum, University of Basel

Editorships

Since 2022	Associate Editor, <i>Biology & Philosophy</i>
2022-2023	Member of the Editorial Board, <i>Philosophy of Science</i>
Since 2019	Member of the Editorial Board, <i>dialectica</i>
2011-2019	Editor, <i>dialectica</i>
2012-2015	Associate Editor, <i>The British Journal for the Philosophy of Science</i>

Other Services to the Profession

Since 2021	Member of the Steering Committee, European Philosophy of Science Association
2013-2020	Member of the Fellowship Committee of the SNSF

University offices

2010-2011	Head of the Department of Philosophy, University of Konstanz
2010-2011	Vice Dean of the Humanities Section, University of Konstanz
2015-2019	Head of the Department of Philosophy, University of Geneva

Honours

Since 2012	Member of the German National Academy of Sciences Leopoldina
Since 2023	Member of the Academia Europaea

Ethics committees

2016-17	Member of the Commission on Genome Editing, German National Academy of Sciences Leopoldina
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Research grants

1996-1997	"Theories, Models and Laws in Ecology", Nachwuchsstipendium für angehende Forscher, Swiss National Science Foundation, CHF 36'000
2004-2008	"Quality Assessment, Expertise, and Decision-making in Scientific Research: Criteria, Procedures, and Social Organization", Swiss National Science Foundation, CHF 1'108'923 (SNF Professorship)
2008-2010	"Quality Assessment, Expertise, and Decision-making in Scientific Research: Disciplinary Diversity and Epistemic Pluralism", Swiss National Science Foundation, CHF 678'986 (SNF-Professorship)
2008-2011	SNF-prodoc "Human Life", with Prof. Sebastian Rödl, Prof. Hans-Bernhard Schmid, Prof. Monika Betzler, Prof. Emil Angehrn, Prof. Angelika Krebs, CHF 355'932
2008-2011	"Mind and Life", with Prof. Sebastian Rödl, research module for SNF-prodoc "Human Life", CHF 376'650
2010-2011	Director of the research initiative "What if? On the Meaning, Epistemology and Scientific Relevance of Counterfactual Claims and Thought Experiments" (goal: establishment of an interdisciplinary DFG Research Group), supported by the research fund and <i>Zukunftskolleg</i> of the University of Konstanz, EUR 173'000. DFG Research Group approved 2012-2015, EUR 1'900'000
2012-2015	"Counterfactual Reasoning in Biology", 2 Candocs, Swiss National Science Foundation, CHF 328'680
2013-2016	"Biological Knowledge Through Modeling and Engineering", 1 Postdoc, Swiss National Science Foundation, CHF 319'821
2013-2016	"Grounding – Metaphysics, Science, and Logic", Swiss NSF <i>sinergia</i> network project, with Prof. Fabrice Correia (Neuchâtel, Director) and Prof. Benjamin Schnieder (Hamburg), Total budget CHF 1'000'000
2015-2018	"Simulation and Counterfactual Reasoning in Neuroscience", 1 Candoc, Swiss National Science Foundation, CHF 179'244
2015-2018	"Inferentialism, Bayesianism, and Scientific Explanation", DACH-project with Prof. Stephan Hartmann, Munich Center for Mathematical Philosophy, LMU Munich, 1 Postdoc, Swiss National Science Foundation (Lead Agency) and Deutsche Forschungsgemeinschaft, CHF 111'805
2015-2018	"From Biological Practice to Scientific Metaphysics", 1 Postdoc, 1 Candoc, John Templeton Foundation, USD 593'897
2017-2020	"Mechanistic Constitution in the Special Sciences", 1 Postdoc, Swiss National Science Foundation, CHF 311'281

- 2021 Gold Open Access funding for monograph *Philosophy of Developmental Biology*, Swiss National Science Foundation, CHF 8316
- 2022-2026 Philosophy of Infectious Disease Epidemiology: Modeling, Values, and Policy Advice, Swiss National Science Foundation, CHF 691'504

Organization of conferences

- 2023 Member of the program committee, 9th Meeting of the European Philosophy of Science Association, Belgrade, 20-23 September 2023
- 2023 Co-organizer (with Piera Filippi, William Bausman, Hans-Johann Glock), "Still Thinking About Evolution", interdisciplinary workshop, NCCR Evolving Language, Neuchâtel, 4 April 2023
- 2022 Co-director (with Thomas Pradeu and Maël Lemoine), "Dealing with Complexity in the Biological and Biomedical Sciences", 6th European Advanced School in the Philosophy of the Life Sciences, University of Bordeaux, 5-9 September 2022
- 2022 Co-Organizer (with Fabrice Correia), "Modality in Science: Metaphysical Perspectives", Workshop, University of Geneva, 31 August – 1 September 2022
- 2022 Co-organizer (with Piera Filippi, William Bausman, Hans-Johann Glock), "Thinking About Evolution", interdisciplinary workshop, NCCR Evolving Language, Neuchâtel, 29 April 2022
- 2020 Co-director (with Guido Canaglia), 6th European Advanced School in the Philosophy of the Life Sciences, Konrad Lorenz Institute for Evolution and Cognition Research, Klosterneuburg, 7-11 September 2020. Cancelled and replaced by a week of online mentoring sessions due to the COVID-19 pandemic
- 2019 Co-Chair of the Local Organizing Committee, EPSA 2019, the 7th Biennial Conference of the European Philosophy of Science Association, University of Geneva, 11-14 September
- 2019 Co-organizer (with Lorenzo Casini, Dunja Seselja and Stephan Hartmann), workshop "Biases in Science", Munich Center for Mathematical Philosophy, LMU Munich, 10-12 April 2019
- 2018 Co-organizer (with Alan Love, William Wimsatt and C. Kenneth Waters), Summer Institute "From Biological Practice to Scientific Metaphysics", Taipei, Taiwan, 20-27 July
- 2018 Co-organizer (with Lorenzo Casini, Reuben Stern and Stephan Hartmann), workshop "Explanatory Power", University of Geneva, 14-15 June
- 2017 Organizer, workshop "Bordeaux-Geneva workshop in Philosophy of Biology", Geneva, 10-11 October
- 2017 Co-Organizer (with Alan Love, William Wimsatt and C. Kenneth Waters), Summer Institute "Practices of Individuation and Classification in Science", Calgary, Alberta, 18 June - 1 July
- 2017 Co-Organizer (with Michal Hladky and Guillaume Schlaepfer), "Simulation and Thought Experiment", University of Geneva, 8-9 June
- 2016 Member of the program committee, PSA 2016 (Biennial Meeting of the Philosophy of Science Association), Atlanta, 3-5 November
- 2016 Member of the local organizing committee, Second Meeting of the Society for the Metaphysics of Science (SMS2), University of Geneva, 15-17 September
- 2016 Co-organizer (with Lorenzo Casini), workshop "Ground in Philosophy of Science", University of Geneva, 13-14 September
- 2016 Co-organizer (with Alan Love, William Wimsatt and C. Kenneth Waters), Summer Institute "Reconceiving the Success of Science", Basel, 1-11 August 2016
- 2015 Co-organizer (with Lorenzo Casini), Workshop "Ground in Biology", Université de Genève, 19-20 June 2015

2014	Co-organizer (with Andrea Loettgers), Workshop "Toward a More Integrated View of Modeling, Experimentation and Simulation", Université de Genève, 27-28 June 2014
2013	Organizer, workshop, "Organisms, Machines, and Mechanisms", Université de Genève, 5-6 December 2013
2013	Organizer, Workshop "The Question 'What if?' in the Sciences and the Humanities", Université de Genève, 4-5 July 2013
2008-2013	Team coordinator, "Philosophy of Natural and Life Sciences", European Science Foundation Research Networking Programme (ESF-NP) "Philosophy of Science in a European Perspective"
2012	Co-organizer, Opening Conference of the Research Group "What of? On the Meaning, Epistemology and Scientific Relevance of Counterfactual Claims and Thought Experiments, 25-27 October, University of Konstanz
2012	Co-organizer (with Anita Konzelmann Ziv and Hans-Bernhard Schmid), workshop "Walking with Rousseau. Group Attitudes Between Aggregation and Association", University of Geneva, 12-14 September
2012	Member of the program committee, "PSX3: Experimentation as a Challenge for the Philosophy of Science", University of Colorado, Boulder, July 2012
2012	Member of the program committee, GAP.8 (8th International Congress of the Society for Analytic Philosophy), University of Konstanz, September 2012
2011	Organizer, workshop "Causation, Confirmation and Probability", University of Geneva, 1-2 December 2011
2011	Member of the program committee, "PSX2: Experimentation as a Challenge to the Philosophy of Science", University of Konstanz, 12-13 October 2011
2010	Member of the program committee, "PSX1: Experimentation as a Challenge to the Philosophy of Science", University of Pittsburgh
2009	Member of the program committee, EPSA 2009: Second Congress of the European Philosophy of Science Association, Amsterdam
2009	Member of the program committee, GAP.7: "Reflection and Projection: Challenges for Philosophy", 7th International Congress of the German Society für Analytic Philosophy, Bremen
2008	Co-organizer (with Hans-Bernhard Schmid and Daniel Sirtes), "Workshop on Collective Epistemology", University of Basel
2007	Member of the program committee, 13 th International Congress of Logic, Methodology, and Philosophy of Science, Tsinghua University, Beijing
2007	Co-organizer (with Sebastian Knell), "Enhancing Human Longevity? Biological, Medical and Philosophical Perspectives", University of Basel
2006	Co-organizer (with Peter Schaber, Tatjana Tarkian, Helmut Heit und Thomas Reydon), "Reconstructing Science and Ethics", Leibniz University Hannover
2005	Co-organizer (with Martina Merz), "Science, Reason and Society: The Place of Philosophy in Studies of Science and Technology", University of Basel
2004	Member of the program committee, "Rethinking the Comparative Evaluation of Scientific Theories", University of Nancy 2 (France)
1999	Co-organizer (with Howard Sankey, Paul Hoyningen-Huene und Eric Oberheim), "Incommensurability and Related Matters", Leibniz University Hannover

Publications

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h-index: 21

A Monographs

Weber, Marcel (2022) *Philosophy of Developmental Biology*. Cambridge: Cambridge University Press, Open Access, <https://doi.org/10.1017/9781108954181>

Knell, Sebastian and Weber, Marcel: *Menschliches Leben* (Grundthemen Philosophie, ed. by D. Birnbacher, P. Stekeler-Weithofer und H. Tetens). Berlin: Walter de Gruyter 2009, 222 pp.

Review: *Zeitschrift für philosophische Forschung* 65 (2011), 3, 440-444

Weber, Marcel, *Philosophy of Experimental Biology* (Cambridge Studies in Biology and Philosophy, ed. M. Ruse). Cambridge: Cambridge University Press, hardback edition 2005, paperback edition 2010. 376 pp.

Reviews: *Notre Dame Philosophical Reviews* 2005-02-11; *Quarterly Review of Biology* 80: 343-344 (2005); *Philosophy in Review* 25: 411-413 (6, 2005); *Isis* 97: 198-199 (1, 2006); *Biology and Philosophy* 21 (3, 2006): 423-435; *Perspectives in Biology and Medicine* 50: 158-160 (2007); *Biological Theory* 1: 434-435 (4, 2006); *Essays in Philosophy* 7: 1-3 (1, 2006); *Rivista di Recensioni Filosofiche* 4: 51-67 (2007); *The Philosophical Review* 116: 139-141 (2007); *Erkenntnis* 71:431-436 (2009)

Weber, Marcel (1998), *Die Architektur der Synthese: Entstehung und Philosophie der modernen Evolutionstheorie* (Quellen und Studien zur Philosophie, ed. J. Mittelstraß, G. Patzig und W. Wieland). Berlin: Walter de Gruyter, 325 pp.

Review: *Philosophiegeschichte und logische Analyse* 5: 227-231 (2002)

B Edited books and collections

Anouk Barberousse, Richard Dawid and Marcel Weber (eds), *Topical Collection: EPSA 2019. Selected papers from the biennial conference in Geneva. European Journal for Philosophy of Science*, vol. 11 (2021)

Maria Carla Galavotti, Dennis Dieks, Wenceslao J. Gonzalez, Stephan Hartmann, Thomas Uebel and Marcel Weber (2014), *New Directions in the Philosophy of Science*. Berlin: Springer.

Dennis Dieks, Wenceslao J. Gonzalez, Stephan Hartmann, Michael Stöltzner and Marcel Weber (2012), *Probabilities, Laws and Structures*. Berlin: Springer

Dennis Dieks, Wenceslao J. González, Stephan Hartmann, Thomas Uebel and Marcel Weber (2011), *Explanation, Prediction and Confirmation*. Berlin: Springer

Hans-Bernhard Schmid, Daniel Sirtes and Marcel Weber (2011), *Collective Epistemology* (Epistemic Studies, ed. by M. Esfeld, S. Hartmann and A. Newen). Frankfurt am Main: Ontos

Friedrich Stadler, Dennis Dieks, Wenceslao J. González, Stephan Hartmann, Thomas Uebel and Marcel Weber (2010), *The Present Situation in the Philosophy of Science*. Berlin: Springer

Knell, Sebastian and Marcel Weber (2009), *Länger leben? Philosophische und biowissenschaftliche Perspektiven*. Frankfurt (Main): Suhrkamp

Weber, Marcel and Paul Hoyningen-Huene (2001), *Ethische Probleme in den Biowissenschaften* (Philosophische Impulse, Band 1, Hrsg. F. Mühlhölzer und W. Spohn). Heidelberg: Synchron, 211 pp.

C Articles in peer-reviewed journals

- Weber, Marcel (2022), Coherent Causal Control: A New Distinction within Causation. *European Journal for Philosophy of Science* 12(4): 69 <https://doi.org/10.1007/s13194-022-00499-1>, Open Access
- Weber, Marcel (2017), How Objective Are Biological Functions? *Synthese* 194: 4741-4755
- Weber, Marcel (2017), Which Kind of Causal Specificity Matters Biologically? *Philosophy of Science* 84: 574–585
- Weber, Marcel (2016), On the Incompatibility of Dynamical Biological Mechanisms and Causal Graphs. *Philosophy of Science* 83: 959-971
- Weber, Marcel (2014): Experimental Modeling in Biology. *In-vivo* Representation and Stand-ins as Modeling Strategies. *Philosophy of Science* 81: 756-769
- Weber, Marcel (2009): The Crux of Crucial Experiments. Duhem's Problems and Inference to the Best Explanation. *The British Journal for the Philosophy of Science* 60: 19-49.
- Weber, Marcel (2008): Causes without Mechanisms: Experimental Regularities, Physical Laws, and Neuroscientific Explanation. *Philosophy of Science* 75: 995-1007.
- Weber, Marcel (2006), The "Central Dogma of Molecular Biology" as a Thesis of Causal Specificity. *History and Philosophy of the Life Sciences* 28: 565-580
- Weber, Marcel (2005), Indeterminism in Neurobiology. *Philosophy of Science* 71: 663-674
- Weber, Marcel (2005), Genes, Causation and Intentionality. *History and Philosophy of the Life Sciences* 27: 399-411
- Weber, Marcel (2005), Holism, Coherence, and the Dispositional Concept of Functions. *Annals in the History and Philosophy of Biology* 10: 189-201
- Weber, Marcel (2005), Über die Vergleichbarkeit metaphysischer Systeme: Der Fall Leibniz kontra Locke. *Zeitschrift für philosophische Forschung* 59: 202-222
- Weber, Marcel (2002), Incommensurability and Theory Comparison in Experimental Biology. *Biology & Philosophy* 17: 155-169
- Weber, Marcel (2002), Theory Testing in Experimental Biology: The Chemiosmotic Mechanism of ATP Synthesis. *Studies in History and Philosophy of Biological and Biomedical Sciences* 33: 29-52
- Weber, Marcel (2001), Determinism, Realism, and Probability in Evolutionary Theory. *Philosophy of Science* 68: S213-S224
- Weber, Marcel (1999), The Aim and Structure of Ecological Theory. *Philosophy of Science* 66: 71-93
- Weber, Marcel (1999), Hans Drieschs Argumente für den Vitalismus. *Philosophia Naturalis* 36: 265-295
- Weber, Marcel (1998), Representing Genes: Classical Mapping Techniques and the Growth of Genetic Knowledge. *Studies in History and Philosophy of Biological and Biomedical Sciences* 29: 295-315
- Weber, Marcel (1996), Fitness Made Physical: The Supervenience of Biological Concepts Revisited. *Philosophy of Science* 63: 411-431
- Weber, Marcel (1996), Evolutionary Plasticity in Prokaryotes: A Panglossian View. *Biology & Philosophy* 11: 67-88
- Weber, Marcel and Bernhard Schmid (1995), Reductionism, Holism and Integrated Approaches in Biodiversity Research. *Interdisciplinary Science Reviews* 20: 49-60
- Verner, Keith and Marcel Weber (1989), Protein Import into Mitochondria in a Homologous Yeast in vitro System. *Journal of Biological Chemistry* 264: 3877-79

D Contributions to edited books and related

Weber, Marcel (forthcoming), Causal Selection versus Causal Parity in Biology: Relevant Counterfactuals and Biologically Normal Interventions. In: Brian J. Hanley and C. Kenneth Waters (eds.), *Philosophical Perspectives on Causal Reasoning in Biology*. Minnesota Studies in the Philosophy of Science. Minneapolis: University of Minnesota Press.

Weber, Marcel (in press), The Reduction of Classical Experimental Embryology to Molecular Developmental Biology: A Tale of Three Sciences. In: William Bausman, Janella Baxter and Oliver Lean (eds.), *From Biological Practice to Scientific Metaphysics*. Minnesota Studies in the Philosophy of Science, Vol. 23. Minneapolis: University of Minnesota Press.

Arber, Werner and Marcel Weber (2019), The Complementary Nature of Scientific Experiments and Thought Experiments. In: Marcelo Sánchez Sorondo (ed.), *Proceedings of the Plenary Session of the Pontifical Academy of Sciences, 12-14 November 2018*. Vatican City: Pontifical Academy of Sciences

Weber, Marcel (2018), Experiment in Biology (updated version) in: E.N. ZALTA (ed.), *The Stanford Encyclopedia of Philosophy*. Stanford: The Metaphysics Research Lab, Center for the Study of Language and Information, Stanford University
<http://plato.stanford.edu/entries/biology-experiment/>

Schlaepfer, Guillaume and Weber, Marcel (2018), Thought Experiments in Biology. In: Michael T. Stuart, Yftach Fehige and James R. Brown (eds.), *The Routledge Companion to Thought Experiments*. London: Routledge, pp. 243-256.

Weber, Marcel (2016), Wissenschaftlicher Pluralismus und die Bio-Gerontologie. In: André Blum, Nina Zschocke, Hans-Jörg Rheinberger und Vincent Barras (eds.), *Diversität. Geschichte und Aktualität eines Konzepts*. Würzburg: Königshausen & Neumann, pp. 107-124.

Weber, Marcel (2014), Qu'est-ce qu'une vache? In: Anne Meylan and Olivier Massin (eds.), *Aristote chez les Helvètes. Douze essais de métaphysique helvétique*. Montreuil : Ithaque.

Weber, M. (2014) "Reference, Truth, and Biological Kinds", in: Dutant, J., Fassio D. and Meylan A. (eds.) *Liber Amicorum Pascal Engel*, University of Geneva, pp. 422-448.
URL <http://www.unige.ch/lettres/philo/publications/engel/liberamicorum>

Bauer, S., Huber, L., Kaiser, M. I., Keuck, L., Krohs, U., Kronfeldner, M., McLaughlin, P., Nickelsen, K., Reydon, T., Roughley, N., Sachse, C., Schark, M., Toepfer, G., Weber, M., Wild, M. (2013), Philosophie der Lebenswissenschaften: Entwicklungen und Tendenzen. *Information Philosophie*, Heft 4, Dezember 2013, pp. 14-27.

Weber, Marcel (2012), Wissenschaftsphilosophie, in: S. Maasen, M. Kaiser, M. Reinhart and B. Sutter (eds.), *Handbuch Wissenschaftssoziologie*. Wiesbaden: Springer VS, 229-240

Weber, Marcel (2012), Experiment in Biology, in: E.N. ZALTA (ed.), *The Stanford Encyclopedia of Philosophy*. Stanford: The Metaphysics Research Lab, Center for the Study of Language and Information, Stanford University
<http://plato.stanford.edu/entries/biology-experiment/>

Weber, Marcel (2011), Behavioral Traits, the Intentional Stance, and Biological Functions: What Neuroscience Explains. In: K.S. Plaisance and T.A.C. Reydon (eds.), *Philosophy of Behavioral Biology*. Boston Studies in the Philosophy of Science 282. Berlin: Springer, 317-328

Weber, Marcel (2011), Experimentation versus Theory Choice: A Social-Epistemological Approach. In: Hans-Bernhard Schmid, Daniel Sirtes und Marcel Weber (eds.), *Collective Epistemology*. Frankfurt am Main: Ontos, S. 195-216.

Weber, Marcel (2010): Eintrag "Philosophie der Biologie" in: Hans-Jörg Sandkühler (ed.), *Enzyklopädie Philosophie*. Zweite, überarbeitete Version. Hamburg: Meiner

Weber, Marcel (2010), Genetik und Moderne Synthese. In: Philipp Sarasin and Marianne Sommer (eds.), *Evolution: Ein interdisziplinäres Handbuch* Stuttgart: Metzler, p. 102-114.

Weber, Marcel (2010), Life in a Physical World, in: Friedrich Stadler, Dennis Dieks, Wenceslao J. González, Stephan Hartmann, Thomas Uebel and Marcel Weber (eds.), *The Present Situation in the Philosophy of Science* (Philosophy of Science in a European Perspective, Vol. 1). Berlin: Springer, pp. 155-168.

- Weber, Marcel (2008), Is Science Cumulative? A Commentary on Bernard D’Espagnat. In: Léna Soler, Howard Sankey and Paul Hoyningen-Huene (eds.), *Rethinking Scientific Change* (Boston Studies in Philosophy of Science). Berlin: Springer, 151-154
- Weber, Marcel (2008): Rules, Reductionism, and Normativity: A Naturalistic Rejoinder. In: Sven Walter and Helen Bohse (eds.), *GAP.6: Selected Papers Contributed to the Sections of the Sixth International Congress of the German Society for Analytic Philosophy*. Paderborn: mentis, 294-307
- Weber, Marcel (2008): Experimentation. In: Sahotra Sarkar and Anya Plutynski (eds.), *A Companion to the Philosophy of Biology* (Series: Blackwell Companions to Philosophy). Oxford: Blackwell, 427-488
- Weber, Marcel (2007): Wissenschaftstheorie der Evaluation. In: Dagmar Simon and Hildegard Matthies (eds.), *Wissenschaft unter Beobachtung. Effekte und Defekte von Evaluationen*. Leviathan Sonderheft 24/2007. Wiesbaden: VS Verlag für Sozialwissenschaften, 25-34.
- Weber, Marcel (2007): Philosophie der Evolutionstheorie. In: Andreas Bartels and Manfred Stöckler (eds.), *Wissenschaftstheorie. Ein Studienbuch*. Paderborn: Mentis, 265-285
- Weber, Marcel (2007): Redesigning the Fruit Fly: The Molecularization of Drosophila. In: Angela N. H. Creager, Elizabeth Lunbeck, and M. Norton Wise (eds.), *Science without Laws: Model Systems, Cases, Exemplary Narratives*. Durham: Duke University Press, 23-45
- Weber, Marcel (2007): Evolutionäre Kontingenz und naturgesetzliche Notwendigkeit. In: Brigitte Falkenburg (ed.), *Natur – Technik – Kultur. Philosophie im interdisziplinären Dialog*. Paderborn: Mentis, 125-138
- Weber, Marcel (2006): Die Geschichte wissenschaftlicher Dinge als Epistemologie. In: David Gugerli, Michael Hagner, Michael Hampe, Barbara Orland, Philipp Sarasin und Jakob Tanner (eds.), *Nach Feierabend. Zürcher Jahrbuch für Wissensgeschichte* Band 2. Zürich: diaphanes, 181-190
- Weber, Marcel (2005), Darwinism as a Theory for Finite Beings. In: Vittorio Hösle and Christian Illies (eds.), *Darwinism and Philosophy*. Notre Dame: University of Notre Dame Press , 275-297
- Weber, Marcel (2005), Supervenienz und Physikalismus. In: Ulrich Krohs and Georg Toepfer (eds.), *Philosophie der Biologie: Eine Einführung*. Frankfurt am Main: Suhrkamp, 71-87
- Weber, Marcel (2005), Philosophie des biologischen Experiments. In: Ulrich Krohs and Georg Toepfer (eds.), *Philosophie der Biologie: Eine Einführung*. Frankfurt am Main: Suhrkamp, 359-378
- Weber, Marcel (2005), Theorie, Experiment, Konstruktion: Weltbilder der Biologie. In: Emil Brix and Gottfried Magerl (eds.), *Weltbilder in den Wissenschaften* (Wissenschaft, Bildung, Politik. Hg. von der Österreichischen Forschungsgemeinschaft). Wien: Böhlau, 15-34
- Weber, Marcel (2004), Walking on the Chromosome. Drosophila and the Molecularization of Development. In: Jean-Paul Gaudillière and Hans-Jörg Rheinberger (eds.), *From Molecular Genetics to Genomics. Mapping Cultures of Twentieth Century Genetics*. London: Routledge, 63-78
- Weber, Marcel (2004), On the Epistemic Significance of Type-Type Identities. A Comment on Katarzyna Paprzycka. In: Donald Gillies (ed.), *Laws and Models in Science*. London: King's College Publications, 129-132
- Weber, Marcel and Michael Esfeld (2003), Holism in the Sciences. In: Gertrude Hirsch Hadorn (ed.) *Unity of Knowledge in Transdisciplinary Research for Sustainability*. Encyclopedia of Life Support Systems, developed under the auspices of UNESCO. Oxford: EOLSS Publishers (www.eolss.net)
- Weber, Marcel (2001), Under the Lamppost: Commentary on Schaffner. In: Peter Machamer, Rick Grush and Peter McLaughlin (eds.), *Theory and Method in the Neurosciences*. Pittsburgh-Konstanz Series in the Philosophy and History of Science. Pittsburgh: University of Pittsburgh Press, 231-249
- Weber, Marcel (2001), Kommentar zu Alan Hollands »Eine Kritik von Informationsmetaphern in der Genetik«. In: Marcel Weber and Paul Hoyningen-Huene (eds.), *Ethische Probleme in den Biowissenschaften*. Heidelberg: Synchron, 106-112

Weber, Marcel (1995), Wissenschaftskommunikation und Umweltprobleme. In: Urs Fuhrer (ed.), *Ökologisches Handeln als sozialer Prozess*. Basel: Birkhäuser, 51-60

Weber, Marcel (1995), Empirisierung der Biologie. In: Wolfgang Polasek (ed.), *Möglichkeiten und Grenzen der empirischen Wissenschaften*. Liestal: Verlag des Kantons Basel-Land, 65-87

E Other Publications

Weber, Marcel (2021), Corona-Krise: Die Feinde der Wissenschaft sind die wahren Feinde der offenen Gesellschaft. *Neue Zürcher Zeitung*, 7. April 2021

Bonas, U., B. Friedrich, J. Fritsch, A. Müller, B. Schöne-Seifert, H. Steinicke, K. Tanner, J. Taupitz, J. Vogel, M. Weber, E.-L. Winnacker (2017), Ethische und rechtliche Beurteilung des *genome editing* in der Forschung an humanen Zellen / Ethical and Legal Assessment of Genome Editing in Research on Human Cells. Diskussionspapier Nr. 10 / Discussion paper No. 10. Halle (Saale): Deutsche Akademie der Naturforscher Leopoldina / Nationale Akademie der Wissenschaften

Weber, Marcel (2011), Platons Albtraum: Zur Biologie und Philosophie der Lebensverlängerung. *Unimagazin: Zeitschrift der Leibniz Universität Hannover* 03/04 2011, S. 62-65

Weber, Marcel (2011), Ursache und Wirkung - am Beispiel der Gene. *Spektrum der Wissenschaft* June 2011: 60-65

Weber, Marcel (2007-2009), Wissenschaftliche Exzellenz, Teil I: *Uni Nova* 107: 28-29; Teil II: *Uni Nova* 108: 24-25; Teil III: *Uni Nova* 109: 24-25; Teil IV: *Uni Nova* 110: 28-29; Teil V: *Uni Nova* 111: 31-32

Weber, Marcel (2007), Intentionalismus in der Philosophie der Biologie. In: *Information Philosophie*, October-issue 2007, 38-45

Weber, Marcel (2005), Genom, Mechanismus und Moral: Philosophische Stolpersteine. Kommentar zu K. Fuchs-Kittowski, H.A. Rosenthal und A. Rosenthal: Die Entschlüsselung des Humangenoms – ambivalente Auswirkungen auf Gesellschaft und Wissenschaft. *Erwägen, Wissen, Ethik. Streitforum für die Erziehungskultur* 16: 214-216

Weber, Marcel (2002), Ist Korrektur von Erbanlagen eine Frage der Gerechtigkeit? *Basler Zeitung*, 6. Nov 2002

Hoyningen-Huene, Paul, Marcel Weber and Eric O. Oberheim (1999), Science for the 21st Century: A New Commitment. Background document for the UNESCO / ICSU *World Conference on Science*. Paris: International Council for Science (ICSU), 40 pp.
First published online by *Nature*, <http://helix.nature.com/wcs/a14a.html>

Weber, Marcel (1999), How the Oxidative Phosphorylation Controversy Ended. Volume of Abstracts, 11th International Congress for Logic, Methodology and Philosophy of Science, Krakow, International Union of History and Philosophy of Science, 353

Hoyningen-Huene, Paul, Marcel Weber and Eric O. Oberheim (1998), Editorial: Towards a New Social Contract for Science. *Nature & Resources: The UNESCO Quarterly Journal on the Environment and Natural Resources Research* 34: 3

Hoyningen-Huene, Paul, Marcel Weber and Eric O. Oberheim (1998), Éditorial: Vers un nouveau contrat social du monde scientifique. *Nature & Resources: Revue trimestrielle de l'UNESCO sur l'environnement et la recherche sur les ressources naturelles* 34: 3

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Talks

1. What You Can Do for Evolutionary Developmental Linguistics (with William Bausman), EPSA23, The 9th Biennial Meeting of the European Philosophy of Science Association, Belgrade, 20-23 September 2023
2. Mechanisms as Constituted by Activities. Workshop “Mechanisms and Ontic Causation in the Life Sciences”, Université Catholique de Louvain, 15-16 June 2023
3. Philosophy of Infectious Disease Epidemiology: Modeling, Values and Policy Advice (with Kyrill Khromov and Raphael Scholl), SNSF Corona Research Conference, Thun, 21-23 March 2023 [poster with flash presentation]

4. Idealization in Experimental Biology: The Case of Morphogens. EASPLS 2022: European Advanced School in the Philosophy of the Life Sciences, University of Bordeaux, 5-9 September 2022
5. Modeling Modality: The Case of Evolvability in Evo-Devo. Workshop “Modality in Science: Metaphysical Perspectives”, University of Geneva, 31 August – 1 September 2022
6. Evolutionary Biology and -Linguistics: Concepts, Contrasts and Perspectives (with William Bausman). Annual Retreat of the NCCR Evolving Language, Champéry VS, 23-26 August 2022
7. Modeling Modality: The Case of Evolvability in Evo-Devo. GWP 2022 (conference of the German Society for Philosophy of Science, TU Berlin, 15-17 August 2022
8. Wertneutralität der wissenschaftlichen Politikberatung in Pandemiezeiten. Studium Generale, University of Konstanz, 10 January 2022 [public online lecture]
9. Idealization in Experimental Biology: The Case of Morphogen Gradients. Symposium “Philosophy and Science at the Section of Biology, University of Geneva”, 10 December 2021
10. Can Scientific Policy Advice Be Value-neutral? The Case of COVID-19. Annual Workshop. Graduate School in Health Sciences, University of Bern, Schloss Münchenwiler, 24 November 2021
11. Coherent Causal Control. Symposium “Distinctions within Causation: Irreversibility, Coherence, Invariance and Machine-likeness”, PSA 2020/21, 27th Biennial Meeting of the Philosophy of Science Association, Baltimore, 11-14 November 2021
12. Coherent Causal Control in Biological Systems. EPSA 2021, 8th Biennial Meeting of the European Philosophy of Science Association, Turin, 15-18 September 2021
13. Towards a Direct Modal Account of Evolvability. Online workshop “Modeling the Possible”, University of Vienna, 23-24 June 2021.
14. Commentary on Rachel Ankeny and Sabina Leonelli, *Model Organisms* (Cambridge Elements in Philosophy of Biology). Virtual Book Launch, University of Adelaide, 24 November 2020
15. Instructive Causes, Embryonic Induction and Causal Specificity. Workshop “Causal Distinctions: Specificity and Beyond.” University of Cologne, 22-23 October 2020 (taken online due to COVID-19).
16. Infectious Disease Epidemiology and the Value-free Ideal of Science. Quodlibeta, Department of Philosophy, University of Geneva, 7 October 2020.
17. Biodiversité. Table-ronde organisée par l'Ambassade de France en Suisse au Musée zoologique de l'Université de Zurich lors de la « Nuit de idées », 30 janvier 2020
18. Causality, Idealization and Understanding in Developmental Biology: The Case of Morphogens, Philosophy of Biology Research Group, Department of Philosophy, University of California, San Diego, 22 November 2019
19. Signaling and Causality in Embryonic Development, or: What Are Morphogens? Colloquium, Department of Logic and Philosophy of Science, University of California, Irvine, 25 October 2019
20. Biological Reduction Reconsidered. Colloquium Series, Fachbereich Philosophie, Universität Salzburg, 26 March 2019
21. From Theory Reduction and Reductive Explanation to Inter-level Scientific Practices: The Spemann-Mangold Organizer and Molecular Developmental Biology. GWP 2019, The Third International Conference of the German Society for Philosophy of Science, Cologne, 25-27 February 2019
22. The Complementary Nature of Scientific Experimentation and Thought Experiments (with Werner Arber), Plenary Session, The Pontifical Academy of Sciences, Vatican City, 12-14 November 2018
23. From Reduction to Retooling: The Case of Classical Experimental Embryology and

- Molecular Developmental Biology. 5th European Advanced School in the Philosophy of the Life Sciences, Konrad Lorenz Institute for Evolution and Cognition Research, Klosterneuburg, 10-14 September 2018
24. Generative Entrenchment. Public Forum "From Biological Practice to Scientific Metaphysics: William C. Wimsatt's Pioneering Ideas", National Taiwan University, Taipei, 25 July 2018
 25. From Reduction to Retooling: The Case of Classical Experimental Embryology and Molecular Developmental Biology. Summer Institute "From Biological Practice to Scientific Metaphysics", Taipei, 20-26 July 2018
 26. Is Gene Centrism Defensible? Keynote lecture, PhD Retreat of the Department of Biomedical Science, University of Basel. Einsiedeln, 7-9 June 2018
 27. Biologically Significant Kinds. Workshop "Philosophy, Knowledge, and the Sciences", Florence-Pisa Doctoral School in Philosophy, Pistoia, 4-5 June 2018
 28. Synthetische Modelle, Simulationen und Experimente in der Biologie. Ludwik Fleck Kolloquium: „Experimentieren. Zur Praxis wissenschaftlichen Forschens Teil II“, Collegium Helveticum, Zürich, 23. März 2018
 29. Qu'est-ce que la vie ? Les enjeux philosophiques. « Seuls dans l'univers ? », Les Grands Soirs, conférences scientifiques culture & rencontre, Collège de Saussure, Genève, 24 janvier 2018
 30. Le concept du vivant et la biologie contemporaine. « Questions de recherche », Séminaire de la Faculté des lettres, Université de Genève, 30 novembre 2017
 31. Synthetic Models, Analogue Simulation and Experiment. Bordeaux-Geneva Workshop in Philosophy of Biology, University of Geneva, 10-11 October 2017
 32. Biologische Funktionen ohne Normativität. Kolloquium "Normen und Zwecke in der Natur?", XXIV. Kongress der Deutschen Gesellschaft für Philosophie (DGPhil), Humboldt-Universität zu Berlin, 24.-27. September 2017
 33. Causal Specificity, Biological Possibility, and Non-parity About Genetic Causes. *EPSA 2017* (Biennial Meeting of the European Philosophy of Science Association), Exeter, 6-9 September 2017
 34. Reference, Use, and Biological Kinds: The Case of the Gene. Summer Institute "Practices of Individuation and Classification in Science", Calgary, 18 June – 1 July 2017
 35. Urteilskraft in den Naturwissenschaften. Philosophische Gesellschaft Basel, 28. März 2017
 36. Le cerveau et le mécanisme. Neuroclub, Geneva Neuroscience Center, Faculté de médecine, Université de Genève, 15 décembre 2016
 37. On the Metaphysics of Biological Functions. Public Lecture, Minnesota Center for Philosophy of Science, University of Minnesota, Minneapolis, 2 December 2016
 38. Race as a Causal Variable. Conference "Race and Racialisation: International and Interdisciplinary Perspectives", Department of Political Science, University of Geneva, 28-29 October 2016
 39. How Objective Are Biological Functions? 4th European Advanced Seminar in the Philosophy of the Life Sciences. Konrad Lorenz Institute for Evolution and Cognition Research, Klosterneuburg, Austria, 5-9 September 2016
 40. Individuation Practices in Biology. Summer Institute "Reconceiving the Success of Science", Basel, 1-11 August 2016
 41. Functional Integration. Workshop "Understanding Life. New Perspectives from Philosophy and Biology", University of Bern, 26-27 May 2016.
 42. Les questions de/dans la littérature et les sciences. Tandem théorique, Département de langue et littératures allemandes, Université de Genève, 19 mai 2016
 43. How Objective Are Biological Functions? Département de philosophie, Université de Fribourg, 4 mai 2016
 44. What's Special About Genes? Causal Specificity, Information, and Genetic Causation. Immunology Unit, CNRS & University of Bordeaux, 27 April 2016

45. **Keynote lecture:** Causality in Dynamical Biological Mechanisms. EPSA 2015 (Biennial Meeting of the European Philosophy of Science Association), University of Düsseldorf, 23-26 September 2015
46. Genes, Biological Counterfactuals, and Causal Parity. Workshop "Causality in Biology", University of Bristol, 2-3 September, 2015
47. **Keynote lecture:** How Objective Are Biological Functions?, 8th Munich-Sydney-Tilburg Conference in Philosophy of Science, "Objectivity in Science", University of Tilburg, 10-12 June 2015
48. What Is A Biological Individual? Colloquium, Department of Philosophy, University of Bern, 21. April 2015
49. Synthetische Organismen als wissenschaftliche Modelle. Öffentliche Tagung "Evolution in Menschenhand? Synthetische Biologie aus Labor und Atelier", Berlin-Brandenburgische Akademie der Wissenschaften, 13. März 2015
50. Qu'est-ce qu'une vache ? Cycle de conférences publiques "Aristote chez les Helvètes", Université de Genève, 3 mars 2015
51. On the Incompatibility of Dynamical Biological Mechanisms and Causal Graph Theory. PSA 2014 (Biennial Meeting of the Philosophy of Science Association), Chicago, 6-8 November 2014
52. Les expériences de pensée : une méthode commune à la science et à la philosophie ? Journée maîtres de collège, Genève, 28 octobre 2014
53. Y-a-t-il des limites à la recherche ? Café des sciences dans le cadre de la nuit des chercheurs - 60 ans du CERN, Genève, 25 septembre 2014
54. Individuals, Cells, and the Special Composition Question. Third European Advanced Seminar in the Philosophy of the Life Sciences. Konrad-Lorenz-Institute, Klosterneuburg, 1-5 September 2014
55. Wissenschaftskultur und Lebensqualität: Ein Gegensatz? Öffentliche Tagung "Braucht es eine neue Wissenschaftskultur?" Akademien der Wissenschaften Schweiz, Leopoldina und Österreichische Akademie der Wissenschaften. Universität Zürich, 7. Juli 2014
56. Models and Experiments in Synthetic Biology. Biology Club, University of Geneva, 4 June 2014
57. Forschungsfreiheit. Café philo, Gymnasium Oberwil, 3. Juni 2014
58. Les êtres vivants. Groupe genevois de philosophie, 19 mai 2014
59. Indeterminism and the Brain. Conference "Libre arbitre, déterminisme et responsabilité. Un colloque en l'honneur de Bernard Baertschi", 12 May 2014
60. On Some Limitations of Causal Modeling. Colloquium, Institute for Philosophy, University of Hannover, 6 May 2014
61. On Some Limitations of Causal Modeling. Biology Club, Department of Plant Science, Université de Fribourg, 29 April 2014
62. On Some Limitations of Causal Modeling. Colloquium, Department of Philosophy, Université de Neuchâtel, 25 March 2014
63. Facile, pas facile de ... perdre son temps. Café scientifique, Musée d'histoire des sciences, Genève, 24 février 2014
64. Scientific Pluralism: The Case of Biogerontology. Interdisciplinary Workshop "Diversity", University of Lausanne, 5-7 September 2013
65. Causal Selection versus Causal Parity: Relevant Counterfactuals and Biologically Normal Interventions. Meeting of the International Society for the History, Philosophy and Social Studies of Biology (ISHPSSB), Montpellier, 7-12 July 2013
66. **Keynote lecture:** Is Causal Inference All You Need in Experimental Biology? "Causality and Experimentation in the Sciences", 8th Conference in the International Conference, Series "Causality in the Sciences", Université Paris 1 Panthéon-Sorbonne, 1-3 July 2013

67. Functional Integration, International Exploratory Workshop "After Functionalism: Realization, Embodiment, and Biofunctions", Université de Lausanne, 1-3 July 2013
68. Commentary on Paul Ziche and Thomas Müller, "Fictions and Foundations: Hans Vaihinger, Moritz Pasch and the Fictional Foundations of Rigorous Science", Workshop "Kontrafaktische Gedankenexperimente zwischen Natur- und Geisteswissenschaften, ca. 1880-1930", University of Konstanz, 19-20 April 2013
69. Experimental Modeling in Biology, Séminaire général, Institut d'histoire et philosophie des sciences et des techniques, Paris, 8 April 2013
70. Kausalität in der Biologie. Ringvorlesung "Philosophie und Wissenschaft", Philosophisches Seminar, Universität Hamburg, 16 January 2013
71. Les êtres vivants. Colloque PHILEAS (Association des étudiants de philosophie de l'université de Genève), 6 December 2012
72. Experimental Modeling: Exemplification and Representation as Theorizing Strategies, PSA 2012 (Biennial Meeting of the Philosophy of Science Association), San Diego, 15-17 November 2012
73. Is It Scientific to Make Truth Claims? Wilton Park Conference "The Big Bang and the Interfaces of Knowledge: Towards a Common Language?", organized in collaboration with the European Center for Nuclear Research CERN, Nyon, 15-17 October 2012
74. The Structuralist Challenge and Biology. ESF-Workshop "Metaphysics of Science: Objects, Relations and Structures, Université de Lausanne, 12-13 octobre 2012
75. Experimental Modeling in Biology. European Advanced Seminar in Philosophy of the Life Sciences, Université de Genève, 11-14 septembre 2012
76. Biological Counterfactuals. Workshop "Causal Reasoning in Biology II", Minnesota Center for Philosophy of Science, 3-6 May 2012
77. Causal Inference and Inference to the Best Explanation, *episteme* workshop "Evidence and Explanation", Université de Genève, 25-26 avril 2012
78. Individual, Cell Lineage, and Functional Integration. Workshop "Objects, Kinds and Mechanisms in Biology", University of Leeds, 13 April 2012
79. Life and Mind: Two Related Concepts? Séminaire interdisciplinaire "Langage et Pensée", Archives Jean Piaget, Université de Genève, 13 mars 2012
80. Leben und Geist: Zwei verwandte Begriffe? Ringvorlesung "Grenzen des Geistigen", Universität Göttingen, 18 January 2012
81. What Is an Individual Organism? Rencontre Philosophique Romande, Conférence universitaire de Suisse occidentale CUSO, Lausanne, 19 December 2011
82. Why Biology Without Objects or Without Fundamentals Wouldn't Be Biology. EPSA11 (Third Biennial Meeting of the European Philosophy of Science Association, Athens, Greece, 5-8 October 2011
83. Genes and the Philosophy of Causation. Department of Ecology and Evolution, University of Lausanne, 21 September 2011
84. Minnesota Pluralism: The Case of Biogerontology. Workshop on Interdisciplinarity, Department of Science Studies, University of Aarhus, Denmark, 17-18 August 2011
85. Causation and Information in Biology, or: Biological Counterfactuals. Institut d'histoire et philosophie des sciences et des techniques, Université Paris 1 / CNRS / École Normale Supérieure, 8 April 2011
86. Experimentation, Theory Choice, and Social Choice. Workshop "Points of Contact between the Philosophy of Physics and Philosophy of Biology", London School of Economics, 13-15 December 2010
87. **Keynote lecture:** Experimentation, Theory Choice, and Social Choice. Workshop "Philosophy of Scientific Experimentation: A Challenge to the Philosophy of Science", University of Pittsburgh, 15-16 October 2010

88. **Keynote lecture:** "Is Information Talk in Biology About Causal Specificity?", Annual Meeting of the British Society of Philosophy of Science, Dublin, 8-9 July 2010
89. Probabilistic Causation and the Brain, Workshop on Multi-level Causation, Institut d'histoire et philosophie des sciences et des techniques, Université Paris 1 / CNRS / École Normale Supérieure, 25-26 March 2010
90. Experimentation versus Theory Choice: A Social-epistemological Approach, Visiting Speakers Series in Philosophy of Science, Department of Philosophy, University of Vienna, 11 March 2010
91. Biologischer und psychologischer Altruismus, Philosophische Gesellschaft Zürich, 25 November 2009
92. Biologischer und psychologischer Altruismus, Philosophische Gesellschaft Bremen, 17 November 2009
93. Reference, Truth, and Biological Kinds. Second Biennial Meeting of the European Philosophy of Science Association (Symposium *Realism and the Biological Sciences*, with C. Kenneth Waters, Kyle Stanford and John Dupré), Amsterdam, 21-24 October 2009
94. Epistemology of Experimentation, Invited lecture, American Philosophical Association Eastern Division Meeting, Philadelphia, 27-30 December 2008
95. The Place of the Life Sciences: Life in a Physical World, First conference of the European Science Foundation Research Networking Program "Philosophy of Science in a European Perspective", Vienna, 18-20 December 2008
96. Commentary, Symposium "Extrapolation and Public Policy", PSA 2008, The Twenty-first Biennial Meeting of the Philosophy of Science Association, Pittsburgh, 6-9 November 2008
97. Reference, Truth, and Natural Kinds, Ninth Meeting of eidos, The University of Geneva Centre in Metaphysics and Philosophy of Science, 22-23 October 2008
98. Behavioral Traits, Biological Functions, and the Intentional Stance, Conference *Biological Explanations of Behavior*, Leibniz Universität Hannover, 11.-15. Juni 2008
99. A New Look at Biological Functions, Workshop *Causation in the Biomedical Sciences II*, Section de philosophie, université de Lausanne et Institut de l'histoire de la médecine et de la santé, université de Genève, Montreux, 31. März – 2. April 2008
100. Leben und Geist: Intentionalismus in der Philosophie der Biologie, Philosophische Gesellschaft Bremen, 10. Januar 2008
101. Scientific Significance Scrutinized (zus. mit Daniel Sirtes), *1st Congress of the European Philosophy of Science Association*, Madrid, 11-15 November 2007
102. Reference, Truth, and Biological Kinds, Annual Lecture Series, Center for Philosophy of Science, University of Pittsburgh, 5. Oktober 2007
103. Causal Specificity, Information, and the 'Central Dogma of Molecular Biology', Workshop *Information in Physics and Biology*, Division of History and Philosophy of Science, Department of Philosophy, University of Leeds, 14 September 2007
104. Life, Death, and Biological Kinds, Keynote lecture, Conference *Teaching Ethics in the Biosciences*, Inter Disciplinary Ethics Applied, a National Centre for Excellence in Teaching and Learning (IDEA CETL), University of Leeds, 13 September 2007
105. Evidenz und Kausalität aus philosophischer Sicht, asim Jahressymposium *Evidenz und Kausalität*, Academy of Swiss Insurance Medicine, Basel, 5. September 2007
106. Causes without Mechanisms: The Hodgkin-Huxley Model Revisited, Meeting of the International Society for the History, Philosophy and Social Studies of Biology (ISHPSSB). Organizer of the Symposium *Carving Out Action Potentials: Electrophysiology and the Causal Structure of the Nervous System* (co-symposiasts: Bill Bechtel, Carl Craver, Daniel Sirtes, Don Goodman, Kenneth Schaffner), Exeter, UK, 25-29 July, 2007
107. Explanatory Strategies in Experimental Biology", Meeting of the International Society for the History, Philosophy and Social Studies of Biology (ISHPSSB). Roundtable *Mechanisms, Functions, Organization, and Emergence: New Perspectives on Reductionism*, Exeter, UK, 25-29 July, 2007

108. "Mechanism, Experimental Reasoning and Inference to the Best Explanation", International workshop *Generating Experimental Knowledge*, Universität Wuppertal, 14.-17. Juni 2007
109. "Biological Functions: A Systems Account", Institut d'histoire et de philosophie des sciences et des techniques, Université Paris 1 Panthéon-Sorbonne / CNRS / École normale supérieure, 26. April 2007
110. "The Crux of Crucial Experiments: Confirmation in Molecular Biology." Joint conference *Confirmation, Induction, and Science*, Centre for Philosophy of Natural and Social Science, London School of Economics and Center for Philosophy of Science, University of Pittsburgh, London, March 8-10, 2007
111. "The Central Dogma as a Thesis of Causal Specificity." International conference *History of the Central Dogma of Molecular Biology and its Epistemological Status Today*, Institute for the History of Medicine and Department of Medical Genetics, University of Geneva, February 22-23, 2007
112. "The Coming of Age of the Mechanical Philosophy?" Keynote lecture, international conference *Idealization, Mechanism and Reduction: New Directions in the Philosophy of Proximal Biology*, University of Queensland, Brisbane, Australia, 16-17 December 2006
113. "Information, Regulation und Intentionalität als Kategorien zur Beschreibung des Lebendigen." Center for the History of Science, Swiss Federal Institute of Technology, Zurich, 14 December 2006
114. "On the Use of Physical Theory in Neurobiological Explanation." Symposium *Where Physics Meets Neuroscience* (co-symposiasts: Kenneth Schaffner, Carl Craver and Jim Bogen), *PSA 2006: 20th Biennial Meeting of the Philosophy of Science Association*, Vancouver, British Columbia, 2-5 November 2006
115. "Three Kinds of Conceptual Change in Science." Minnesota Center for Philosophy of Science, University of Minnesota, Minneapolis, 30 October 2006
116. "Rules, Relativism, and Normativity: A Naturalistic Rejoinder." *GAP.6: Sixth Congress of the German Society for Analytic Philosophy*, Free University Berlin, 11-14 September 2006
117. "Naturalistic Replies to Social Relativism" *Reconstructing Science and Ethics*, Symposium on the occasion of Paul Hoyningen-Huene's 60th birthday, University of Hanover, 13-15 July 2006
118. "On the Use of Physical Theory in Neurobiological Explanation." Sixth Congress of HOPOS, The International Society for the History of Philosophy of Science, Paris, 14-18 June 2006. Organiser of the symposium *Explanation in Neuroscience: Past and Present*, with Carl Craver, Tara Abraham and William Bechtel
119. "Wissenschaftstheorie der Evaluation." Conference *Qualitätssicherung von Wissenschaft im Wandel*, Wissenschaftszentrum Berlin für Sozialforschung (WZB) und Zentrum für Wissenschafts- und Evaluationsforschung, Berlin, 1-3 June 2006
120. "Three Kinds of Conceptual Change in Natural Science." Department of History and Philosophy of Science, Cambridge University, 27 April 2006
121. "What's Special About Genes? Some Philosophical Considerations." Conference *Embracing Life – Challenges and Questions in Patenting for Life Sciences*. Swiss Academy of Sciences, Gwatt, 3-4 November 2005
122. "Genes, Causation and Intentionality." Center for Philosophy of Biology, Duke University, Durham, North Carolina, 18 October 2005
123. "Natural Kinds and Conceptual Change: The Case of the Gene." Triangle Colloquium in Philosophy of Science, Duke University, Durham, North Carolina, 17 October 2005
124. "How Strong is the Case for Social Relativism in Science?" Colloquium, Department of Philosophy, Duke University, Durham, North Carolina, 14 October 2005.
125. "Genes, Causation and Intentionality." Colloquium, History of Science Program, Princeton University, Princeton, New Jersey, 7 October 2005

