

## *Gennaro AULETTA's* **CURRICULUM VITÆ**

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### **1. PERSONAL INFORMATION**

Born 1957, on the 27<sup>th</sup> August, Naples  
Italian citizen, male, married, two children  
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ORCID: <http://orcid.org/0000-0001-6135-9779>

Member of the charitable association *Telefono d'argento* (<http://www.telefonodargento.it>),  
2012-2014

Member of the Brotherhood of the Abbey *St Mary in Poblet* (Catalonia)

For an academic summary see: [http://en.wikipedia.org/wiki/Gennaro\\_Auletta](http://en.wikipedia.org/wiki/Gennaro_Auletta)

For research see: [http://www.researchgate.net/profile/Gennaro\\_Auletta/](http://www.researchgate.net/profile/Gennaro_Auletta/)  
<https://unicas.academia.edu/AulettaGennaro>

Citations: <http://scholar.google.com/citations?user=64bpJy0AAAAJ&hl=en>

## 2. QUALIFICATIONS and CAREER

2016-	Referee for research projects, Italian Department for University and Research
2012-15	Visiting Fellow of the <i>von Hügel Institute</i> , University of Cambridge
2012	Qualified as both Full and Associate Professor for “Logic and Philosophy of Science” and as Associate Professor for “Philosophy of Language”
2011-2015	Visiting Fellow of the <i>St Edmund’s College</i> , University of Cambridge
2009-	<ul style="list-style-type: none"> <li>• Aggregate Professor, <i>Pontifical Gregorian University</i></li> <li>• Researcher, <i>University of Cassino</i></li> </ul>
2009-2012	Visiting Professor, <i>Notre-Dame University</i> , USA.
2003-2013	Scientific Director of the specialization “Science and Philosophy”, <i>Pontifical Gregorian University</i> (Rome).
2003-2010	Scientific Coordinator of the STOQ Project.
2001	Admitted to the list for <i>Maître de conférences</i> (France) for Epistemology and history of sciences and techniques.
1995-1997	Post-doc in Philosophy, <i>La Sapienza University</i> (Rome).
1993	PhD in Philosophy, <i>La Sapienza University</i> (Rome) with a thesis about “Leibniz’s Philosophy of modalities”.
1988-1992	Four-year doctoral grant.
1986-1988	Theology studies at <i>St Anselmo University</i> , Rome.
1986	First degree in Philosophy, <i>La Sapienza University</i> (Rome).
1985	<i>Grosses Deutsches Sprachdiplom</i> , <i>Goethe-Institut/Ludwig-Maximilians-Universität</i> of München

## 3. LINGUISTIC SKILLS

Understanding (both hearing and reading), speech (both oral interaction and production), translating and writing	English, Italian, German
Understanding (both hearing and reading), speech (both oral interaction and production), translating	French
Understanding (both hearing and reading), oral interaction	Spanish, Catalan
Reading	Portuguese, Dutch, Latin, Old Greek, Biblical Hebrew

## 4. ACHIEVEMENTS

- 26 Organizer and Director of the Conference “Human evolution and origins of language”, 2015, 16-17 October, University of Cassino. Participants: G. Auletta, I. Colagè, F. Di Vincenzo, L. Fadiga, F. Ferretti, E. Garcea, G. Manzi, V. Spagnolo.
- 25 Organizer and Director of the second ICI workshop (see item 4.22) on “Regenerative Medicine and Human Enhancement: A New Role of Old People in our Society?”, Poblet (Spain), 18-19 September 2015. Participants: G. Auletta, J. Chamizo, M. Cugat i Leseurs, V. Forns, F. X. Grau, F. Mañé, A. M. Maroto, A. Martínez, L. Oviedo, P. Savarese, L. Torcal, M. Villa Rubio.
- 24 Organizer and Director of the ICI workshop (see item 4.22) on “Regenerative Medicine and Human Enhancement: A New Role of Old People in our Society?”, Poblet (Spain), 19-20 September 2014. Participants: S. Alba, J. Alegre, G. Auletta, L. Cuatrecasas, R. Cammany, I. Colagè, P. D’Ambrosio, F. X. Grau, A. Martinez, S. Pons, M. Ramon Fuentes, A. Raya, E. Saló, P. Savarese, L. Torcal, J. Viñas.
- 23 Appointed as Scientific Director of the *Integrated Cognition Institute* (ICI, Poblet, Spain), June 2014.
- 22 Referee for the Italian agency for evaluation of research CINECA: 2014-
- 21 Organizer and director of the workshop on *Human Enhancement*, monastery of Poblet, Spain, June 2013. Participants: S. Alba, J. Alegre, G. Auletta, M. Bofarul, I. Colagè, A. Cortina, M. Crescencio, P. D’Ambrosio, J. De la Torre, N. Gobbi, J. M. Mallarach, J. Martinez, S. Pons, M. Prodi, M. Ramon Fuentes, L. Torcal.
- 20 Appointed as member of the Scientific board of the Foundation “Scienza e Fede: STOQ”, grounded by the Pontifical Council of Culture, 2013.
- 19 Several simulations of planarians’ regeneration and developmental processes in microgravity and hypergravity conditions at the ESTEC, Holland (funded by the European Space Agency), 2012-2014.
- 18 Organizer and director of the workshop on *Human Enhancement*, monastery of Poblet, Spain, December 2012. Participants: S. Alba, G. Auletta, M. Bofarul, I. Colagè, M. Crescencio, P. D’Ambrosio, J. De la Torre, N. Gobbi, J. M. Mallarach, J. Martinez, S. Pons, A. Puig, M. Prodi, V. Prodi, M. Ramon Fuentes, L. Torcal, J. M. Velasco.
- 17 Organizer and co-director of the workshop on the *Philosophical and Theological Lessons of the Evolution Theory*, Monastery of Poblet, Spain, July 2011. Participants: G. Auletta, I. Colagè, P. D’Ambrosio, F. Facchini, N. Gobbi, R. Martinez, J. Planellas i Barsonell, A. Pons, J. S. Pons, M. Stanzione, L. Torcal.
- 16 Co-organizer of the *Lemaitre Conference*, University of Cambridge, UK, April 2011.
- 15 Organizer and co-director of the workshop on *Human Brain, Human Mind, Human Being*, Pontifical Gregorian University, Rome, October 2010. Participants: M. Arbib, G. Auletta, K. Evers, M. Jeannerod, T. Metzinger, D. Povinelli, G. Rizzolatti, W. Singer, A. Tartabini; I. Colagè, P. D’Ambrosio, P. Wason.
- 14 Organizer and director of the workshop on *Top-Down Causation in Biology*, Rome, September 2010. Participants: G. Auletta, I. Colagè, G. Cook, P. D’Ambrosio, M. Ramón Fuentes, A. Pinsent.
- 13 Leading Investigator of the project *Experiment on Planarians Regeneration in Space* together with the Genetics Laboratory of Barcelona (E. Salò, T. Adell): Approved by the European Space Agency with mention Excellent (fifth among the Italian projects): 2009-.
- 12 Co-organizer of the conference *Darwin in the 21st Century: Nature, Humanity, and God*, University of Notre Dame (USA), 1-3 November 2009.
- 11 Organizer and co-director of the workshop on *Endogenous Processes and Causation in Brain and Behavioural Sciences*, Vatican City, April 2009. Participants: M. Arbib,

- G. Auletta, J. P. Changeux, C. Crowell, A. and H. Damasio, P. Jacob, M. Jeannerod, M. Raichle, J.-J. Sanguineti, W. Singer; I. Colagè, P. D'Ambrosio, M. Stanzione.
- 10 Organizer and Scientific Director of the Conference on *Biological Evolution: Facts and Theories: A Critical Appraisal after 150 years after "The Origin of Species*, Pontifical Gregorian University, Rome, March 2009. Speakers: W. Arber, J. Arnould, F. Ayala, G. Biondi, G. Chantraine, Y. Coppens, G. Cottier, A. Dambricourt, D. Depew, R. Dunbar, F. Facchini, J. Feder, D. Futuyma, L. Galleni, S. Gilbert, V. Höhle, S. Kauffman, D. Lambert, J.-M. Maldamé, G. Manzi, L. Margulis, R. Martinez, J. Mittelstrass, S. Newman, R. Numbers, C. Renfrew, O. Richards, R. Russell, E. Sober, M. Stanzione, W. Stoeger, R. Ulianowicz, A. Wenin.
- 9 Organizer and director of the workshop on *Top-down Control in Molecular Biology*, Rome, February 2009. Participants: G. Auletta, I. Colagè, P. D'Ambrosio, R. Hartmann, M. Ramón Fuentes, W. Rossmanith.
- 8 Founder and President of the foundation STOQ International, 2008-2011. From 2011 up to April 2013 Board member.
- 7 Leading investigator with M. Jeannerod of the project *Neuroscience Approach to Top-Down Causation*: 2008-2011.
- 6 Organizer of the workshop on *Evolution: New Methodologies and Old Theories*, Pontifical Gregorian University, Rome, September 2008. Participants: G. Barsacchi, M. Buiatti, E. Eizirik, S. Gilbert, W. Hurlbult, A. Minelli, G. Pesole, E. Siffert, R. Stanyon; G. Auletta, I. Colagè, P. D'Ambrosio, S. Forestiero, M. Leclerc, L. Galleni, T. Trafny.
- 5 Scientific Director of the *Project Evolution*, a collaboration between the STOQ Project and the University of Notre Dame (USA), financially supported by the John Templeton Foundation: 2007-2011.
- 4 Leading investigator of the Research project on *Top-down causation in Biology*, with G. Ellis, University of Cape Town, L. Jaeger, University of California, P. D'Ambrosio, Pontifical Gregorian University, 2007-2008 (grant of CTNS-STARS, Berkeley, CA): further collaborations with the Marburg institute for Pharmacological Chemistry: 2008-2010.
- 3 Organizer and Director of the workshop on *The Controversial Relationships between Science and Philosophy: New Opportunities for a Fruitful Dialogue*, Pontifical Gregorian University, Rome, April 2006. Participants: G. Auletta, J. Barrow, G. Ellis, M. Ghins, B. Heap, W. Shea, G. Tanzella-Nitti; I. Colagè, P. D'Ambrosio, M. Leclerc.
- 2 Organizer and Director of the Workshop on *The Controversial Relationships between Science and Philosophy: A Critical Assessment*, Pontifical Gregorian University, Rome, October 2005. Participants: M. Alai, D. Antiseri, G. Auletta, M. Bitbol, G. Coyne, D. Dieks, M. Esfeld, M. Ghins, M. Heller, R. Jahae, G. Parisi, A. Rossi, G. Sans, G. Tarozzi, J. Zycinski; I. Colagè, M. Leclerc, L. Torcal.
- 1 Scientific Coordinator of the Vatican STOQ (Science, Theology and the Ontological Quest) Project, financially supported by the John Templeton Foundation, 2003-2010.

## 5. TEACHING and DOCTORAL TUTORSHIP

### 5.1 Teaching

- 24 Urbino, Summer School of Philosophy of Physics, lecture on: "The MWI is not a solution to the Measurement Problem but...", 5-9 September 2016.
- 23 Lecture in the Pontifical Gregorian University on Theology and science, 2015-2016.
- 22 Lesson on "Fatti e inferenze: come si conduce un contraddittorio" (Facts and inferences: how to deal with a forensic debate) for the lawyers of the *Ordine forense di Cassino*, Sora (FR), 17 December 2013.
- 21 Barcelona, October 2013, two lessons on the notions of truth and reality for the program on line "Science & Faith in Dialogue" of the Theological Faculty for forming clergy-men and -women.
- 20 Cesena, 14<sup>th</sup> Summer School of Philosophy of Physics, lecture on: "Dalla complementarità wave-particle alla complementarità features-events" (From the Wave-like complementarity to Features-events complementarity), 12-17 September 2011.
- 19 Lecture on the "Causal Modalities in Living Beings", University of the Holy Cross, Rome, 2009.
- 18 Director of the Summer School of the Specialization "Science and Philosophy" (PUG), Abbey of Poblet, Catalonia, 2007-2012.
- 17 Lecture on logic, history and philosophy of science at the University of Cassino, 2004-.
- 16 Lecture on *History of Medieval Philosophy* at the University of Urbino, 2004-2005.
- 15 Regular teaching activity, Specialization in "Science and Philosophy", Pontifical Gregorian University, 2003-2010; from 2003 on regular courses in logic and from 2011 on several issues of philosophy of science.
- 14 Lecture on "Modularism and Developmentalism" at the Scuola Internazionale di Filosofia e storia della Biologia e della Medicina , 23th-27th Sept. 2002, Nettuno.
- 13 Lecture on Quantum Mechanics and lecture on Leibniz, Ecole Normale Supérieure, Lyon, 2001.
- 12 Seminar on "Individual Systems, Correlations, ontological relativity", CNRS Paris, 2001.
- 11 Lecturer of History of Science, Urbino University (Italy), 2000-2003.
- 10 Teaching at the Scuola di specializzazione of Cesena, 2000-2007.
- 9 Lecturer at the Philosophical Institute of the Pontifical Gregorian University of Classical Mechanics and Quantum Mechanics, 1999-2002.
- 8 Lectures at the Physics Department of the University of Lecce on "Positive Operator Valued Measure, Open Systems and Measurement theory in Quantum Mechanics" and on "Algebraic Analysis of Quantum Non-Locality", 1999.
- 7 Lecturer of Philosophy of Nature, *S. Anselmo* University and *Antonianum* University, several courses in philosophical issues:1997-2003.
- 6 Lecturer of *History of Nordamerican Philosophy* and *History of Late Middle-Age Philosophy*, *S. Anselmo* University, 1996-2003.
- 5 Lecture at the Philosophy Department of *La Sapienza* University on "Philosophical and Epistemological Lessons of Quantum Mechanics", 1996-1997.
- 4 Lecturer of *Logic*, *Antonianum* University (Rome), 1995-2008.
- 3 Lecture on the "Quantum postulate and the Complementarity Principle", Philosophy department of *La Sapienza* University, 1995-1996.
- 2 Lecturer of History of Modern Philosophy, *S. Anselmo* University, 1991-1995.
- 1 Lecturer in the Philosophical Faculty of the University of Trier, Germany, 1990.

## 5.2 Doctoral Tutorship and Co-Tutorship

- 13 Sebastian Charuvila, "Mind and Brain (Body) are neither one nor two: Higher-Order Global Space model as an explanatory working hypothesis for mind-body problem", Tutor, Pontifical Gregorian University, April 2017.
- 12 Nicola Gobbi, "Intenzionalità e coscienza nell'agire spontaneo: simulazioni mentali, consapevolezza motoria e risistemazione cognitiva. Raffronto tra J. R. Searle e la motor cognition", Tutor, Pontifical Gregorian University, May 2016.
- 11 Paolo D'Ambrosio, "The Evolving Living Being: A Philosophical Reflection on Modern Evolutionary Biology and Its Roots in the Darwinian Conceptual Framework", Tutor, Pontifical Gregorian University, December 2014.
- 10 Lluc Torcal, "In Search of an Ontology that Underlies Quantum Mechanics: Which Vision of the Physical World Could We Get from Quantum Mechanics?", Tutor, Pontifical Gregorian University, January 2014.
- 9 Fabio Gragnano: "Una lettura aristotelico-tomista della Relatività Generale di Einstein", Co-Tutor (Censor), Pontifical University St Thomas (*Angelicum*), November 2013.
- 8 Andrej Pukhaev: "Inquiries into Cognition: L. Wittgenstein's Language-Games and C. S. Peirce's Semeiosis for the Philosophy of Cognition", Tutor, Pontifical Gregorian University, May 2013.
- 7 J. Santiago Pons Doménech: "Las leyes de la naturaleza en el pensamiento de C. S. Peirce", Tutor, Pontifical Gregorian University, May 2013.
- 6 Miguel Ramon Fuentes: "The concept of function in molecular biology: A theoretical framework and a case study", Tutor, Pontifical Gregorian University, May 2012. Winner of the Gregorian's Bellarmin award, year 2013.
- 5 Ivan Colagè: "Interazione e inferenza. Epistemologia scientifica ispirata al pensiero di Ch. S. Peirce", Tutor, Pontifical Gregorian University, October 2009. Winner of the Gregorian's Bellarmin award, year 2011.
- 4 Antonio Joaquim Pinto: "A Caminho da Serenidade: do Querer-dominância ao Sentido criativo do Deixar-ser. Sendas do Pensar Constantemente Referidas aos *Feldweg-Gespräche* de M. Heidegger", Tutor, Pontifical University Antonianum, June 2008.
- 3 Donatus Maria Triman Andi Wibowo: "The Power of Error in Karl Raimund Popper's Work", Co-Tutor (Censor), Pontifical University Antonianum, June 2008.
- 2 Marcos Aurelio Fernandes: "A Intencionalidade como princípio da Fenomenologia em M. Heidegger", Co-Tutor (Censor), Pontifical University Antonianum, December 2003.
- 1 Stefano Oppes: "Dalla intuizione-espressione alla parola. La filosofia del linguaggio nel primo Novecento italiano", Co-Tutor (Censor), Pontifical University Antonianum, December 1999.

## 6. WORKSHOPS, CONFERENCES, PUBLIC LECTURES

2017

- 101 Contribution on "Causality between correlations and dynamics", Conference on *The Metaphysical Dimensions of Nature*, Pontifical University of the Holy Cross & University of Notre Dame, Rome, 23-25 February.

2016

- 100 Research seminar on "Believing between Theology and Neuroscience", Pontifical University Antonianum, Rome, 6-8 June.
- 99 Contribution on "The Theoretical Challenges raised by Code Biology", Third International Conference in Code Biology, 24-28 May, Urbino.
- 98 Research seminar on "Which are the main differences between an associative communication system and language?", 23 May, University of Ferrara.
- 97 Lecture on the "Crisis of determinism", 26 April, High School "Visconti", Rome.
- 96 Lecture as representative of the University of Cassino at the High school "Dante Alighieri", Fiuggi (Frosinone), 7 April, on "The lessons of philosophy today".
- 95 Lecture as representative of the University of Cassino at the High school "Sulpicio", Veroli (Frosinone), 10 March, on "The lessons of philosophy today".
- 94 Participation to the Research Community Consultation Workshop, 18-20 January, European Space Agency, ESTEC, Noordwijk (Netherlands).

2015

- 93 Public Debate with Massimo Stanzione on "Darwinism and Catholic Doctrine", Aquino, 12 December.
- 92 Participation to the Seminar "'Diventare' persona umana 'integrale': in dialogo tra scienze teologiche e scienze antropologiche" (Becoming integral human person: dialogue between theological and anthropological sciences), Pontifical University Antonianum, Rome, 10-12 December.
- 91 Contribution on "Quantum Mechanics: On the EPR experiment", workshop on *The Threshold of the Scientific Rationality*, Pontifical University of the Holy Cross, Rome, 19-21 November.
- 90 Contribution on "The human-language specificity: state of the art and open problems", School in Philosophy, Ethics and Ethology, University of Cassino, 10-12 November.
- 89 Participation to the workshop "The Structure of Creditions: Stabilization, Awareness, and Attitude", Graz (Austria), Franziskanerkloster, 21-24 October.
- 88 Contribution on "What is the most likely evolutionary sequence in language adaptations?" at the Conference "Human evolution and origins of language" (item 4.26).
- 87 Participation to the television debate on "Science and Faith", 7 October, Warsaw University (Poland). <http://dziedziniecdialogu.pl/>  
[https://www.youtube.com/watch?t=1693&v=4iy3sHTME\\_M](https://www.youtube.com/watch?t=1693&v=4iy3sHTME_M)
- 86 Second workshop on "Regenerative Medicine and Human Enhancement: A New Role of Old People in our Society?", Poblet (Spain), 18-19 September.
- 85 Participation to research seminar "Anatomy, Connectivity, and Functional Aspects of the Fronto-Parietal Cortex", Pontifical University Antonianum, 3-5 September, Rome.
- 84 Participation to the workshop *Hard-Wired, Soft-Wired and Re-Wired*, Pontifical University Antonianum, 8-9 May, Rome.
- 83 Participation in the XXIX *Seminario Interdisciplinar Bioética* on "Cultura de la Mejora Humana y vida cotidiana", Universidad Pontificia Comillas, Madrid, April 24-26.
- 82 Participation in the Seminar "Incarnation and Imago Dei", Pontifical Antonianum University, March 19-21.
- 81 Talk at the Cultural Centre "Le Creste" (Rosignano, Italy), 28 February, on "L'uomo come genere biologico in continua evoluzione" (Humanity as a biological

- genus in permanent evolution”).
- 80 Talk at the Department of Mathematics, University of Palermo, February 17, on the  
“Logic—informational nature of quantum states”.
- 2014
- 79 Contribution on “Complex adaptive systems” in the conference on “Dialectic and  
Complexity”, University of Urbino (Italy), on December the 3<sup>rd</sup>.
- 78 Contribution on “Connection between scripts embedding motor schemes and  
decision making: Continuing Jeannerod's motor cognition”, workshop on “The  
Structure of Credition: Valuation, Association and Decision Making”, Graz  
(Austria), Franziskanerkloster, November, 26-29.
- 77 COMIUCAP celebration of the World Philosophy Day: “The Role and Mission of  
Philosophy in a Catholic Context”, Pontifical Gregorian University, November 20;  
contribution on “The Problem of Causality”.
- 76 Workshop on “The human specificity and religion: evolution, neuroscience, and  
theology”, *Antonianum* University, September, 25-27.
- 75 Workshop on “Regenerative Medicine and Human Enhancement: A New Role of  
Old People in our Society?”, Poblet (Spain), 19-20 September, contribution on  
“Human Enhancement: A Challenge”.
- 74 3rd International Conference on New Frontiers in Physics, Crete (Greece), 31 July-6  
August, contribution on “Logic and Quantum Information”.
- 73 Workshop on “Evolutionary anthropology, exaptation, neotheny, and the  
emergence of language”, *Antonianum* University, 26-27 June.
- 72 Contribution on “Mammalian and Human Emotional Systems”, ESSSAT  
Conference on “Do Emotions Shape the World? Perspectives from Science and  
Theology”, 1-3 May, Assisi.
- 71 Meeting on “God, Darwin and the meaning of life”, 29 April, University of  
Cassino.
- 70 Public Lecture on “Human Enhancement y auto-trascendencia humana”, 10 April,  
Acción Social Católica, Zaragoza.
- 69 Public Lecture on “The Impact of Human Enhancement Technologies on Society”,  
21 February, von Hügel Institute, University of Cambridge.
- 2013
- 68 Contribution on “L'eredità Archimedeana nelle macchine di Pascal e Leibniz”,  
Conference on “Archimedes in the Renaissance: The Mathematical-Physical  
Heritage of Archimedes in the Early modern scientific thought”, 13-15 December,  
Cesena.
- 67 Research Seminar on *Broca's Area and Mirror Neuron System among Tools and  
Language, Learning and Sociality*, Pontifical University *Antonianum*, Rome, October  
24-26; contribution on “The Evolution of Language and Mirror Neurons Revisited”.
- 66 Workshop on *Historical Architecture and Energy Efficiency*, 25 September, European  
Parliament, Brussels.
- 65 Workshop on *The European Landscape for Research Funding (Horizon 2020)*, 24  
September, European Parliament, Brussels.
- 64 Contribution on “Influence of Altered Gravity on Planarians' homeostasis and  
Regeneration”, *ELGRA Biennial Symposium*, 11-14 September, Vatican City.
- 63 Second workshop on *Human Enhancement*, Introductory relation, 26 June-2 July,  
Monastery of Poblet, Spain.
- 62 *13th Biosemiotics Gathering*, 5th-8th June, Castiglioncello, Italy, intervention on “In  
Life Semiotics goes together with Information Control”.
- 61 Workshop *On the Road to Humanity – Via humanitatis*, Pontifical Academy of  
Sciences, Vatican City, April the 19th-21st; intervention on “The first modern  
humans: bringing genetics, epigenetics and the human sciences together”.
- 60 2nd workshop “Studies on Consciousness”, organized by the *Scuola di  
Specializzazione in Medicina Fisica e Riabilitativa*, Castiglioncello (Livorno), on April  
the 6th; intervention on “Consciousness, Mind and Symbols: an Attempt at a  
Philosophical Synthesis”.



2012

- 59 Workshop on *Human Enhancement*, Introductory relation, monastery of Poblet, Spain, December.
- 58 Conference on *Cristoforo Clavio e la cultura scientifica del suo tempo* (Clavius and the scientific culture of his time), Rome, Liceo Visconti, 18 October, contribution on "Brevi note sul Collegio Romano e il suo contributo alla fisica" (Brief remarks on Collegio Romano and its contribution to physics).
- 57 "The International FP7 SPACE Information Day", contribution on "Planarians as Suitable Organisms for Living in Extra-terrestrial Conditions", University of Surrey, 20-21 June.
- 56 The 17th international SPDS conference on "Transformative Science, Engineering, and Business innovation", contribution on "A Simple Model of Chemotaxis", Berlin, 10-14 June.
- 55 Second International Conference on "New Frontiers in Physics" (CERN): Lecture on "Entanglement, Information, Causality", contribution on "Classical and Quantum Information Acquisition: Measurement and POVM", Crete, 8-13 June.
- 54 Workshop on *Scientific Realism*: contribution on "Fallibilism and Critical Realism How we deal with a real world without depicting it", Université Catholique de Louvain, Institut Supérieur de Philosophie, April the 27<sup>th</sup>.
- 53 Workshop on "Human Enhancement", Brussels, 25-26 April; on April the 26<sup>th</sup> session at the European Parliament (STOA).

2011

- 52 Public debate with Carlo Rovelli on *What is Science?*, Teatro Valle, Rome, 10 November.  
[http://www.ustream.tv/recorded/18433937#utm\\_campaign=synclinkback&source=http://www.teatrovalleoccupato.it/streaming&medium=18433937](http://www.ustream.tv/recorded/18433937#utm_campaign=synclinkback&source=http://www.teatrovalleoccupato.it/streaming&medium=18433937)
- 51 Conference on *Leibniz and Mechanism*, University of Cassino, October.
- 50 Symposium of the European Low Gravity Association (ELGRA), University of Antwerp, 5-9 September.
- 49 Workshop on the *Philosophical and Theological Lessons of the Evolution Theory*, Intervention on "The Challenge of Darwinism and Causality in the Natural World", Monastery of Poblet, Spain, July.
- 48 Contribution on "An Emerging Cross-disciplinary research strategy", Conference on *Cross-Cultural Education*, Notre Dame University (Lebanon), 2-3 June 2011.
- 47 Presentation of the volume *Biological Evolution: Facts and Theories*, Pontifical Gregorian University, May the 27<sup>th</sup>.  
<http://www.radiovaticana.org/it1/Articolo.asp?c=491317>.
- 46 Lecture on "The dialogue theology-philosophy-sciences", Theological Faculty, Barcelona, 25 May.
- 45 Conference on "Georges Lemaitre", University of Cambridge, April, 7-10 2011.
- 44 Speech on: „From Popescu-Rohrlich Correlations to the Information Causality Principle“, University of Dansk, January the 27<sup>th</sup>.

2010

- 43 Contribution on "Emerging Research Strategies" at the Conference on *Catholicism and the World of Science*, Goa (India), 18-20 December.
- 42 Workshop in the ESA centre: Projects selected for ESA\_ILSRA 2009. Contribution on "Planarians Regeneration in Space", Cologne, November.
- 41 Workshop on *Human Brain, Human Mind, Human Being*; contribution on "Symbolic Activities as Distinctive of Human Culture", Pontifical Gregorian University, Rome, 14-16 October.
- 40 Workshop on *Top-Down Causation in Biology* with G. Cook, A. Pinsent, P. D'Ambrosio, I. Colagè, M. Ramon Fuentes, Pontifical Gregorian University, September, the 8<sup>th</sup>.
- 39 Contribution on "Features and Events", workshop on *What exists in the quantum world?*, Traunkirchen (Austria), 19.-24, July.  
<http://www.akademietraunkirchen.com/wp->

[content/uploads/2010/05/Auletta\\_Features-and-Events.pdf](content/uploads/2010/05/Auletta_Features-and-Events.pdf)

38 Contribution on "Critical Realism and the Intelligibility of Nature" at the conference on *God and Physics*, University of Oxford, July 7-10.

37 Public lecture on „Il futuro della scienza: c'è posto ancora per la filosofia?“, Scuola Cattolica di Cultura di Udine, 4 February.

36 Contribution on „Quantum Technologies as a Challenge“, Pune (India), Conference on „Science-Religion Dialogue in the World of Nanoscience“, 1-5 January.

2009

35 Conference on *Dio oggi. Con lui o senza di lui cambia tutto* (God Today), 10-12 December, Rome, contribution on "Finalismo, Disegno o Provvidenza?" (Finality, Design or Providence?) d.

34 Contribution on "Teleonomic and Teleologic Causation in Phylogeny and Ontogeny" at the Conference on *Darwin in the 21st Century: Nature, Humanity, and God*, University of Notre Dame (USA), 1-3 November.

33 Seminar on "Entanglement and Information", Loyola University of Chicago, 30 October.

32 Public Lecture on "The Emergence of Biological Systems", Faraday's Institute, Cambridge University, 6 October.

31 Contribution on „From the Perspective of a Catholic“, in the Conference on *Religious Responses to Darwinism*, Oxford, 15-18 July.

30 Contribution on „Teleonomy and Information Control“ in the ISSR Conference on *Evolution, Religion, and Suffering*, University of Cambridge, 3-5 July.

29 Workshop on Endogenous Processes and Causation in Brain and Behavioral Sciences. contribution on „ *A constraining role of mind upon the brain?*“, Vatican City, April.

28 Conference on *Biological Evolution: Facts and Theories: A Critical Appraisal after 150 years after "The Origin of Species*, Pontifical Gregorian University, Rome, 3-7 March.

27 Workshop on *Top-down Control in Molecular Biology* with R. Hartmann, W. Rossmann, P. D'Ambrosio, I. Colagè, M. Ramon Fuentes, Pontifical Gregorian University, Rome, 9 February.

2008

26 Workshop on "Recent Developments in Evolution Theory", Pontifical Gregorian University, Rome, September.

25 Workshop HQ2 (History and Philosophy of Quantum Mechanics), contribution on "Interpretation of Quantum Mechanics Consistent with Quantum Mechanics", University of Utrecht, 14-17 July.

24 Contribution on "Biological Systems as Integrating a Processor, a Regulator, and a Decider" at the Conference on *Biosemiotics*, Syros, Greece, 23-27 June.

2007

23 Berlin's Max-Planck Institut für Wissenschaftsgeschichte, Workshop HQ1 (Quantum History Project), contribution on: "The Problem of Quantum Mechanics' Interpretation: a Historical-Critical Assessment", July.

[http://quantum-history.mpiwg-berlin.mpg.de/news/workshops/hq1/hq1\\_abstracts.pdf](http://quantum-history.mpiwg-berlin.mpg.de/news/workshops/hq1/hq1_abstracts.pdf)

22 Workshop in Cancun (Mexico) on Complexity Theory, January.

2006

21 Contribution on "Quantum Mechanics and Contingency", International Conference on "Science and Theology: The Role of Philosophy", Catholic University of Lublin, 15-16 November.

20 Workshop on *The Controversial Relationships between Science and Philosophy: New Opportunities for a Fruitful Dialogue*, contribution on "Life under the point of view of information control and entropic fluxes", Vatican City, 7-8 April.

19 International Conference about "Science, Civilisations, Cultures", contribution on "The Lessons of Quantum Mechanics: Towards a New Ontology" (in French), Senate of the French Republic, Paris, 7 January.

2005

- 18 Conference on "Albert Einstein Philosopher and Epistemologue", contribution on "The Debate Between EPR, Schrödinger, and Bohr, as an Application of Different Forms of Inferences", Cesena 24-26 November.
- 17 Conference on *Science and Orthodoxy: A Necessary Dialogue*, contribution on "Event, Covariance, and Evolution: Peirce and Whitehead's Philosophies in the Light of Modern Science", Bucharest 22-26 October.
- 16 Workshop at the Pontifical Gregorian University on *The Controversial Relationships between Science and Philosophy: A Critical Assessment*; contribution on "The Problem of Information", Rome 30 Sept.-1 October.
- 15 Conference on the *Philosophical and Foundational Issues in Quantum Theory*, contribution on "The Problem of Information", Budapest, 1-5 September.  
2004
- 14 Conference on the "Pregiudizio a favore del reale: la teoria dell'oggetto di Alexius Meinong", Urbino, discussant of Maurizio Ferraris' lecture on "The Social Objects", 24-27 November.
- 13 Conference on "Life and Its Origin", Campidoglio (Rome): contribution on "A General Theory of Relations", 12-14 November.
- 12 Louvain, UCL, workshop on *The Arrow of Time: Physics and Philosophy*, contribution on "Reversibility and Irreversibility in Quantum Mechanics", 7-8 May.  
2003
- 11 Conference of Philosophy of Science (Dubrovnik, April), contribution on "The Problem of the Categorization Levels: A Pragmatistic Approach".  
2002
- 10 Conference on *How many Copenhagen?*, contribution on "The Complementarity Principle and its Experimental Verification", Cesena, 17th-19th October.  
2001
- 9 Fifth Conference of the *International Quantum Structures Association*, contribution on "The Fundamental Theorem of Measurement and Critical Examination of MWI and Decoherent Histories", Cesena, March the 31st- April the 5th.  
2000
- 8 5<sup>th</sup> *International Conference on Quantum Communication, Measurement and Computing*, Capri, 3-8 July.  
1999
- 7 Meeting on "Omnimoda determinatio and Individuation", *Gregorian University*.  
1998
- 6 Public seminar on 'Quantum Information', Department of Mathematics of *La Sapienza University*.
- 5 Public seminar on 'Quantum Information', *Gregorian University*.
- 4 International Conference in Lecce about *The Foundations of Quantum Mechanics*, contribution on "Measurement, spontaneous transitions and interpretation of Quantum Mechanics".  
1996
- 3 Meeting on "Cartesian cogito", *Antonianum University*.  
1991
- 2 International Conference on "Operations mentales et théories linguistiques", *University Paris VII*, contribution on "Semiotics and Mind-Body Problem in Leibniz and Occasionalism".  
1990
- 1 Conference on the *Ontological Argument*, 3-6 January, Rome "La Sapienza" University.

## 7. RESEARCH

### 7.1 *Direction of, and Participation to, Research projects*

- 14 Individual project on “Code Biology”, FAR, University of Cassino, 2015. Publications: results: 9.3.63, 9.3.65.
- 13 Participation to the project on “The Human Specificity: Tools, Symbols and Culture among Neuroscience, Philosophical Anthropology and the Religious Attitude towards Creation” (P dI: I. Colagè), Antonianum University, granted by the John Templeton Foundations, 2013-2016. Participation to workshops and conferences: items 6.67, 6.73, 6.76, 6.82, 6.84-85, 6.92, 6.100, 9.3.62.
- 12 Individual project on “Top-down Causation in Cognitive Biology”, FAR, University of Cassino, 2013. Participation to workshops and conferences: items 6.78-79.
- 11 Individual project on “The Relation between Order and Disorder in Life”, FAR, University of Cassino, 2012. Participation to workshops and conferences: items 6.60, 6.62. Journal papers: item 9.3.42, 9.3.57. Book chapters: 9.4.25-26.
- 10 Individual project on “Can Biology Do Predictions?”, FAR, University of Cassino, 2011. Participation to conferences and workshops: item 6.56. Journal papers: items 9.3.33-34.
- 9 Director of the research project “Human Enhancement”: 2011-. Organizer and co-director of workshops: items 4.18, 4.21, 4.24, 4.25. Participation to conferences and workshops: items 6.53, 6.59, 6.63, 6.69-70, 6.75, 6.81, 6.86. Journal papers: items 9.3.43, 9.3.50, 9.3.55.
- 8 Direction of the research project “Experiment on Planarians Regeneration in Space” together with the Genetics Laboratory of Barcelona (E. Salò, T. Adell): Approved by the European Space Agency (ESA): 2009-. Overall direction: item 4.13. Simulations: item: 4.19. Participation to conferences and workshops: items 6.42, 6.50, 6.57, 6.64, 6.94. Journal papers: 9.3.40, 9.3.56.
- 7 Director of the project “Neuroscience Approach to Top-Down Causation”, with M. Jeannerod: 2008-2011. Overall direction: item 4.7. Organizer and co-director of two workshops: items 4.11 and 4.15. Participation to conferences and workshops: items 6.29, 6.41. Editor of a book: item 9.2.8; book chapters: 9.4.18-23.
- 6 Scientific Director of the Project “Evolution”: 2007-2011. Scientific direction: item 4.5. Organizer and co-director of two conferences and two workshops: items 4.6, 4.10, 4.12, 4.17. Participation to conferences and workshops: items 6.26, 6.28, 6.34, 6.47, 6.49. Editor of two books: items 9.2.7 and 9.2.9; journal papers: 9.3.21, 9.3.28, 9.3.32; book chapters: 9.4.16-17, 9.4.24; audio-visual: 9.6.1-9.6.2; popular journals: 9.9.1; interviews: 9.10.4-7.
- 5 Director of the Research team on “Top-down causation in Biology”, with the participation of George Ellis, University of Cape Town, Luc Jaeger, University of California, Paolo D’Ambrosio, Pontifical Gregorian University: further followed with the Marburg Institute for Pharmacological Chemistry (R. Hartmann) and other collaborations (2007-2010): item 4.4. Organizer and director of two workshops: items 4.9 and 4.14. Participation to conferences and workshops: items 6.22, 6.24, 6.27, 6.30, 6.32, 6.40. Author of a book: item 9.1.5; publication of journal papers: items 9.3.26, 9.3.36-37.
- 4 Several research activities in the framework of the STOQ Project (centred on Science, Theology and Philosophy): 2003-2010. Scientific direction of the overall project: item 4.1, funding: item 4.8. Organization and direction of two workshops: items 4.2-3. Teaching: item 5.1.15, 5.1.18. Participation to conferences and workshops: items 6.16-17, 6.19-21, 6.37-38. Author of a book: item 9.1.6; editor of books: 9.2.5-6; journal papers: 9.3.18, 9.3.22-25, 9.3.27, 9.3.29-31, 9.3.35; book chapters: 9.4.11-12, 9.4.14; popular journals: 9.9.2; interviews: 9.10.1-3.
- 3 Research grant of the University of Urbino (Italy) for research on quantum mechanics: 2001-2003. Teaching: items 5.1.10-13. Participation to conferences and

- workshops: items 6.9-10, 6.12, 6.14-15, 6.18, 6.43. Publication of journal papers: items 9.3.11-17; book chapters: 9.4.6-10, 9.4.13 and 9.4.15.
- 2 Post-doc and subsequent research on the Foundations and Interpretation of quantum mechanics: 1993-2000. Teaching: items 5.1.3, 5.1.5, 5.1.7-9. Participation to conferences and workshops: items 6.4-8. Author of books: item 9.1.2; book chapters: 9.4.4-5.
- 1 Doctoral studies on the Modal philosophy of Leibniz: 1987-1993. Teaching: items 5.1.1-2, 5.1.4, 5.1.6, 5.1.13, 5.1.16, 5.1.17. Participation to Conferences and workshops: items 6.1-3. Author of books: item 9.1.1; editor of books: 9.2.1, 9.2.3-4. Publication of journal papers: 9.3.1-6; book chapters: 9.4.1-3; encyclopaedic articles: 9.5.1-2.

## 7.2 Research Areas and Interests

- 9 Human enhancement. Humanity has for the first time the opportunity to influence and guide its own evolution. It is a big challenge that goes into the direction of a decoupling from the environment. Research project 7.1.9. Further research and activities: results: 6.83, 9.3.47.
- 8 Regeneration and developmental processes. The study of a very basic but plastic organism like planarian can throw light on many of these issues. Research project 7.1.8.
- 7 Top-down causation in neurosciences: motor processes, intentionality and consciousness. The problem is the constitution of intentionality and consciousness as ways to deal in a new and creative way with motor-cognition problems. Research projects 7.1.7 and 7.1.12. Further research and activities: items 6.77, 9.3.59, 9.4.31.
- 6 Top-down causation in biology, Emergence of complexity, Mathematical definition of complexity. The goal here is to understand how top-down processes cooperate with bottom up ones in very elementary biological systems. A further issue is to understand the connection between thermodynamic and informational issues. Research projects 7.1.4, 7.1.5, 7.1.10-7.1.11. Further research and activities: items 5.2.6, 6.99, 9.3.41, 9.3.58.
- 5 Human symbolic systems and culture in the interplay with biological aspects. Human culture and symbolism represents a unique development in the history of our planet opening the possibility to create not only new tools, new ways of communicating but also new environments. Nevertheless, no symbolic system can work without a biological substrate. Research projects 7.1.7, 7.1.9, 7.1.13. Further research and activities: items 4.23, 4.26, 6.61, 6.72, 6.88-90, 6.98, 9.4.30, 9.8.1, 9.8.4, 9.9.4.
- 4 Cognitive Biology (Biology, information and cognition), System theory applied to biological systems. The goal is to understand cognition as rooted in biological processes but also being a necessary condition for an organism to ontogenetically cope with the environment. Research projects 7.1.4-5, 7.1.7. Further research and activities: items 5.1.19, 5.2.11, 5.2.13, 6.13, 9.3.7-10, 9.3.51.
- 3 Foundations and Interpretation of quantum mechanics; Quantum Information. The main problem is to understand here what new paths quantum information opens for dealing with informational issues in our universe. Especially relevant, is the relation between non-local features and local coding. Research projects 7.1.2-4. Further research: items 5.1.20, 5.1.24, 5.2.10, 6.23, 6.25, 6.33, 6.36, 6.39, 6.44-45, 6.55, 6.74, 6.80, 6.91, 6.97, 6.101, 9.1.4, 9.1.8, 9.3.38, 9.3.44, 9.3.49, 9.3.52, 9.3.53, 9.4.27-28.
- 2 Logic and Epistemology. The main interest is both a critical examination of Aristotle's approach and, following the lesson of C. S. Peirce, the search for a new language allowing to set in systematic and mechanical form all kinds of inferences and relations. Also interested in the current changes in research strategies. Research project 7.1.1. Further research and activities: items 5.1.22, 5.2.1, 5.2.3, 5.2.5, 5.2.7-5.2.9, 6.11, 6.51-52, 6.54, 6.58, 6.68, 9.1.3, 9.1.7, 9.3.19-20, 9.3.39, 9.3.45,

9.3.46, 9.3.60, 9.3.61, 9.3.64, 9.3.66, 9.3.67, 9.4.29, 9.7.1-2, 9.9.3, 9.9.5, 9.9.6.

- 1 Inter-religious and inter-cultural dialogue, Science and Religion. The aim is to search for mutual understanding among several cultures relaying on philosophical and scientific rationality. Research project 7.1.4. Further research and activities: items 4.20, 5.1.21, 5.1.23, 6.31, 6.35, 6.46, 6.48, 6.65-66, 6.71, 6.87, 6.93, 6.95-96, 9.2.1, 9.3.48, 9.3.54, 9.5.3, 9.10.8.

## 8. AFFILIATIONS to SOCIETIES and ACADEMIES, EDITORIAL BOARDS

- 10 Advisory Board of the *Revista Portuguesa de Filosofia*
- 9 Editorial Committee of the *Journal of Quantum Information Science (JQIS)*:  
<http://www.scirp.org/journal/JQIS/>
- 8 *International Society for Biosemiotic Studies (ISBS)*
- 7 *Istituto Italiano di Antropologia (ISIItA)*
- 6 *European Low Gravity Research Association (ELGRA)*
- 5 *International Society for Science and Religion (ISSR)*, Cambridge
- 4 *Linnaean Society, London*
- 3 *European Society for the Study of Science and Theology (ESSSAT)*
- 2 *International Quantum Structure Association (IQSA)*
- 1 *Italian Society for Logic and Philosophy of Science (SILFS)*

## 9. PUBLICATIONS

### 9.1 Books (Author)

- 8      *Quantum Mechanics for Thinkers* (with Shang-Yung Wang), Singapore, Pan Stanford Publications, 2014, pp. 486 + xi; ISBN: 9789814411714; doi: 10.4032/9789814411721.  
<http://www.panstanford.com/books/9789814411714.html#>  
<http://www.amazon.com/Quantum-Mechanics-Thinkers-Gennaro-Auletta/dp/981441171X>  
<http://taos.phys.tku.edu.tw/qmftbook/>  
<http://cds.cern.ch/record/1643276>
- 7      *Mechanical Logic in Three-Dimensional Space*, Singapore, Pan Stanford Publications, 2013, pp. 392; ISBN: 9789814411509.  
<http://www.panstanford.com/books/9789814411509.html>  
Errata: <http://www.gennaroauletta.net/Errata.pdf>
- 6      *Integrated Cognitive Strategies in a Changing World* (in collaboration with I. Colagè, P. D'Ambrosio, and L. Torcal), Rome, G&B Press, 2011, pp. 271; ISBN: 9788878392076.  
<http://www.gbpress.net/index.php/es/univers-gregoriana/analecta-gregoriana/1430-analecta-gregoriana.html>  
[https://play.google.com/store/books/details/Gennaro\\_Auletta\\_Integrated\\_Cognitive\\_Strategies\\_in?id=tq9V4jPpZjgC&feature=search\\_result#?t=W251bGwsMSwxLDEsImJvb2stdHE5VjRqUHBaamdDIi0](https://play.google.com/store/books/details/Gennaro_Auletta_Integrated_Cognitive_Strategies_in?id=tq9V4jPpZjgC&feature=search_result#?t=W251bGwsMSwxLDEsImJvb2stdHE5VjRqUHBaamdDIi0)
- 5      *Cognitive Biology: Dealing with Information from Bacteria to Minds* (with a Foreword of Karl Friston), Oxford, University Press, 2011, pp. 854; ISBN: 9780199608485; doi:10.1093/acprof:oso/9780199608485.001.0001.  
<http://ukcatalogue.oup.com/product/academic/physics/atomic/9780199608485.do?sortby=pubDateDescend>  
<http://www.amazon.com/Cognitive-Biology-Dealing-Information-Bacteria/dp/0199608482>  
Sample Chapter: <http://fds.oup.com/www.oup.com/pdf/13/9780199608485.pdf>  
**Reviews:** <http://www.agoravox.fr/actualites/technologies/article/gennaro-auletta-aux-portes-du-137573>  
<http://jonlieffmd.com/resources/cognitive-biology-information-bacteria-minds-2>
- 4      *Quantum Mechanics*, Cambridge, University Press, 2009 (with M. Fortunato and G. Parisi), pp. 724; ISBN: 978-0-521-86963-8; rev. paperback ed. 2013; ISBN: 978-1-107-66589-7.  
<http://www.cambridge.org/it/academic/subjects/physics/quantum-physics-quantum-information-and-quantum-computation/quantum-mechanics>  
**Reviews:**
  - Times High Education Supplement, 3 Dec. 2009.
  - [http://www.amazon.com/Quantum-Mechanics-Gennaro-Auletta/product-reviews/0521869633/ref=dp\\_top\\_cm\\_cr\\_acr\\_txt?ie=UTF8&showViewpoints=1](http://www.amazon.com/Quantum-Mechanics-Gennaro-Auletta/product-reviews/0521869633/ref=dp_top_cm_cr_acr_txt?ie=UTF8&showViewpoints=1)
- 3      *Introduzione alla logica*, Rome, Antonianum, 2002, 2nd ed. 2004, pp. 185; ISBN: 8872570646.
- 2      *Foundations and Interpretation of Quantum Mechanics: A Critical-Historical Analysis of the Problems and a Synthesis of the Results* (with a preface of Giorgio Parisi), Singapore, World Scientific, 2000, pp. XXXII + 981; rev. ed. 2001; ISBN: 9810240392.  
**Some Reviews:**



- Alastair Rae, *Europhysics Letters*, Sept.-Oct. 2001
- Vlatko Vedral, *Progress in Quantum Electronics* **25** (2001): 191-92
- Gianluca Introzzi, *Il nuovo sagggiatore* (Bollettino della società italiana di fisica) **18** (2002): 61
- Vincenzo Fano, *Isonomia - e-magazine -* (2002); *Epistemologia* **27**: 157-72
- Gianluca Introzzi, *Foundations of Physics* **32** (2002)
- Salvo d'Agostino, *Physis* **39** (2002): 373-76
- Georg Hülsenbeck, *Alpha Omega* **8** (2005): 513-515
- [http://www.amazon.com/Foundations-Interpretation-Quantum-Mechanics-Critical-Historical/product-reviews/9810246145/ref=dp\\_top\\_cm\\_cr\\_acr\\_txt?ie=UTF8&showViewpoints=1](http://www.amazon.com/Foundations-Interpretation-Quantum-Mechanics-Critical-Historical/product-reviews/9810246145/ref=dp_top_cm_cr_acr_txt?ie=UTF8&showViewpoints=1)
- <http://www.physicsforums.com/showthread.php?p=3297584#post3297584>

1 *Determinismo e Contingenza. Saggio sulla filosofia leibniziana delle modalità* (Leibniz's Philosophy of Modality; with a preface of Vittorio Mathieu), Morano editore, Napoli, 1994, pp. 228; ISBN: 8880361406.

**Reviews:**

- Gianluca Miligi, *La Cultura* **2** (August 1996): pp. 341-45.
- Paola Vasconi, *Bulletin of Società filosofica italiana* **160** (1997): pp. 82-84.

## 9.2 Books (Editor)

9 *Si può parlare oggi di una finalità dell'evoluzione? Riflessioni filosofiche e teologiche alla luce della scienza contemporanea* (Can we speak of a finality of evolution?, Ed. with S. Pons Domenech), Rome, G and B Press, 2013, pp. 303; ISBN: 9788878392533. See items 6.49 and 9.6.4.

8 *Brains Top-Down: Is Top-down Causation Challenging Neuroscience?* (Ed. with I. Colagè and M. Jeannerod), Singapore, World Scientific, 2013, pp. 365; ISBN: 9789814412452. See item 6.29.

<http://www.worldcat.org/title/brains-top-down-is-top-down-causation-challenging-neuroscience/oclc/818463749>

7 *Biological Evolution: Facts and Theories: A Critical Appraisal after 150 years after "The Origin of Species"* (Ed. with M. Leclerc and R. Martinez), Rome, G&B Press, 2011, pp. 747; ISBN: 9788878391802. See items 6.28 and 9.6.3.

<http://www.gbpress.net/index.php/gregorian/analecta-gregoriana/1339-biological-evolution-facts-and-theories.html>

**Reviews:** John M. Braverman, *Theology and Science* **10.3** (2012): 333-334.

Arnould, J., Bellion, M., Bergeret, R., Courcier, J., Fantino, J., Klaine, R., Maldamé, J.-M., and Régis, J.-B., "Théologie de la création. Sciences et théologies", *Revue des Sciences philosophiques et théologiques* **97** (2013): 513—66.

6 *The Controversial Relations Between Science and Philosophy: New Opportunities for a Fruitful Dialogue*, Vatican, Libreria Editrice Vaticana, 2008, pp. 213; ISBN: 9788820980825. See item 6.20.

5 *The Controversial Relations Between Science and Philosophy: A Critical Assessment*, Vatican, Libreria Editrice Vaticana, 2006, pp. 328; ISBN: 8820978806. Item 6.16.

4 Theodor G. Bucher, *Einführung in die angewandte Logik*, Berlin, de Gruyter, 1987; *Introduzione alla logica*, Bologna, 1996 (Ed. and Introduction with T. G. Bucher,

translation); ISBN: 8880912690.

- 3 G. Rodis-Lewis, *Descartes*, Calmann-Lévy, 1995; Editori Riuniti, Roma, 1997 (Ed. and translation); ISBN: 8835941202.
- 2 Sylvain Auroux, *Barbarie et philosophie*, Paris, Presse Universitaire de France, 1990; *Contro la filosofia ristretta*, Editori riuniti, Roma, 1993 (Ed., translation, and appendix with the author); ISBN: 883593768X.
- 1 M. Mendelssohn, *Jerusalem*, Berlin, 1783; Guida editori, Naples, 1991 (Ed., translation and notes); ISBN: 8878350575.

### 9.3 Journal Papers

- 2017
- 67 “On the Relevance of the Maximum Entropy Principle in Non–Equilibrium Statistical Mechanics” (with L. Rondoni and A. Vulpiani), *European Physical Journal: Special Topics* **2017**: 1– 17; doi:10.1140/ejst/e2017-70064-x.
- 2016
- 66 “Critical Examination of Peirce’s Theory of Categories”, *SCIO: Journal of Philosophy* **12**: 23–49.
- 65 “Semiotic Tools For Multilevel Cell Communication” (with F. Giorgi), *Biosemiotics* (2016): 1–18; doi:10.1007/s12304-016-9272-5.  
<http://link.springer.com/article/10.1007/s12304-016-9272-5>
- 64 “From Peirce’s Semiotics to Information–Sign– Symbol”, *Biosemiotics* (2016): 1–16; doi:10.1007/s12304-016-9275-2.  
<http://link.springer.com/article/10.1007/s12304-016-9275-2>
- 63 “Networks and Causation Top-Down”, *Revista Portuguesa de Filosofia* **72**: 171-80; doi:10.17990/RPF/2016\_72\_1\_0171.
- 2015
- 62 “Humanity is a Trans–Specific Self– Transcendent Genus”, *Antonianum* **90**: 779–818.
- 61 “Irreducible Statements and Bases for Finite–Dimensional Logical Spaces”, *Indian Ocean Review of Science and Technology*, Article 2.  
<http://www.iorst.com/index.php/paper/view/8/1>
- 60 “About the Maximum Entropy principle in Non Equilibrium Statistical Mechanics” (with L. Rondoni and A. Vulpiani), *Indian Ocean Review of Science and Technology*, Article 1.  
<http://www.iorst.com/index.php/paper/view/7/1>  
arXiv preprint arXiv:1512.02588
- 59 “Qualche breve nota sullo sviluppo delle neuroscienze a uso di filosofi (e teologi)”, *Comprendere* **17.2**: 65–83.
- 58 “Emergence: Selection, Allowed Operations, and Conserved Quantities”, *South-African Journal of Philosophy* **34**: 93–105; doi:10.1080/02580136.2014.992156.

2014

57 "Chance and Events: The Way in Which Nature Surprises Us" (with L. Torcal), *Biosemiotics* (Victoria N. Alexander (Ed.)) **2014**: doi:10.1007/s12304-014-9205-0.

56 "Planarians Sense Simulated Microgravity and Hypergravity" (with T. Adell, E. Saló, and J. van Loon), *BioMed Research International* **2014**: 679672; doi:10.1155/2014/679672.

<http://www.hindawi.com/journals/bmri/2014/679672/>  
[http://www.researchgate.net/profile/Gennaro\\_Auletta/](http://www.researchgate.net/profile/Gennaro_Auletta/)

55 "The Incompleteness of Humanity: Anthropological Reflections", *Comprendre* **16.1**: 27—59.

54 "A Response to Russell's Response" (with I. Colagè and L. Torcal), *Theology and Science* **12.2**:178–79; doi: 10.1080/14746700.2014.894733.

53 "Classical and Quantum Information Acquisition — Measurement and POVM", *EPJ Web of Conferences* **70**: 00003; doi:10.1051/epjconf/20147000003 (item 6.55).

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