

## Αναλυτική Βιβλιογραφία

### Βασικά Συγγράμματα

- PB** Godfrey-Smith, P. (2016) *Φιλοσοφία της βιολογίας*, ΠΕΚ.
- HR** Hull & Ruse (2017) *Εγχειρίδιο του Cambridge για τη φιλοσοφία της βιολογίας*, Αφου Κυριακίδη Εκδόσεις Α.Ε.
- R&M** Rosenberg & McShea (2008) *Philosophy of Biology: A Contemporary Introduction*, Routledge.
- CIEB** Sober, E. (ed.) (2006) *Conceptual Issues in Evolutionary Biology*, Cambridge, Massachusetts: MIT Press.
- DG** Sterelny (2014) *Dawkins κατά Gould*, Αλεξάνδρεια.
- SaD** Sterelny, K & Griffiths, P. (1999) *Sex and death: an introduction to philosophy of biology*, University of Chicago Press.
- SEP** Stanford Encyclopedia of Philosophy: <http://plato.stanford.edu>

### Βιβλιογραφία ανά θεματική ενότητα

#### **1 Εισαγωγή**

PB κεφ. 1  
SaD κεφ. 1  
R&M, Intro

#### **2 Η θεωρία της εξέλιξης και η θεωρία της φυσικής επιλογής**

PB 28-42  
SaD κεφ. 2  
R&M, κεφ. 1

William Paley (1802) *Natural Theology*, κεφ. 1+2:  
<http://darwin-online.org.uk/content/frameset?itemID=A142&viewtype=text&pageseq=1>

#### **3 Προσαρμοτισμός και κατασκευή οικοθέσης**

SaD κεφ. 10+11  
PB 50-59  
R&M, κεφ. 3

#### **Προτεινόμενα άρθρα:**

Amundson (1994) 'Two concepts of constraint: adaptationism and the challenge from developmental biology', *Philosophy of Science* 61: 556-578.

Godfrey-Smith (2001) 'Three Kinds of Adaptationism' in Orzack & Sober (eds) *Adaptationism and Optimality*, CUP.

Gould & Lewontin (1979) 'The Spandrels of San Marco and the Panglossian Paradigm: A Critique of the Adaptationist Programme' [**CIEB**]

Gould & Vrba (1982) 'Exaptation—a missing term in the science of form', *Paleobiology* 8: 4-15.

Lewontin (1978) 'Adaptation', *Scientific American* 239: 212– 228.

Lewontin (1983) 'The Organism as Subject and Object of Evolution', *Scientia* 188: 65–82.  
Maynard Smith (1978) 'Optimization theory in evolution' [CIEB]  
Odling-Smee et al (1996) 'Niche construction', *American Naturalist* 147: 641-648.  
Orzack & Sober (1994) 'Optimality Models and the Test of Adaptationism', *American Naturalist* 143: 361-380.  
Pigliucci & Kaplan (2000) 'The fall and rise of Dr Pangloss: adaptationism and the Spandrels paper 20 years later', *Tree* 15: 66-70.  
West-Eberhard (2005) 'Developmental plasticity and the origin of species differences', *PNAS* 102: 6543-6549.

#### 4 Τελεολογικές έννοιες στη βιολογία: σκοπός και λειτουργία

PB 59-65

##### Προτεινόμενα άρθρα:

Amundson & Lauder (1994) 'Function Without Purpose', *Biology and Philosophy* 9: 443-469.  
Bigelow & Pargetter (1987) 'Functions', *Journal of Philosophy* 84:181-196.  
Cummins, R. (1975) 'Functional analysis', *Journal of Philosophy* 72: 741-765.  
Godfrey-Smith (1993) 'Functions: consensus without unity', *Pacific Philosophical Quarterly* 74: 196-208  
Hempel (1965) 'The Logic of Functional Analysis' in *Aspects of Scientific Explanation*, New York: Free Press.  
Millikan (1989) 'In Defense of Proper Functions', *Philosophy of Science* 56: 288-302.  
Wright (1973) 'Functions', *Philosophical Review* 82: 139-68.

#### 5 Οι μονάδες της επιλογής και η εξέλιξη από την άποψη του γονιδίου

PB 42-49, 93-99

DG μέρος 2

SaD κεφ. 3-5 + 8

R&M, κεφ. 6

Lloyd 'Units and Levels of Selection' [SEP]

##### Προτεινόμενα άρθρα:

Okasha (2001) 'Why Won't the Group Selection Controversy Go Away?', *British Journal for the Philosophy of Science* 52: 25–50.  
Sterelny (1996) 'The Return of the Group', *Philosophy of Science* 63: 562–584.

#### 6 Οργανισμοί και βιολογικά άτομα

PB 66-80

Wilson, R. (2007) 'The biological notion of individuality' [SEP]

##### Προτεινόμενα άρθρα:

O'Malley and Dupre (2007) 'Size doesn't matter: towards a more inclusive philosophy of biology', *Biology and Philosophy* 22: 155–191.

#### 7 Η έννοια του βιολογικού είδους και τα ανώτερα τάξα

PB 100-119

SaD κεφ. 9

**Προτεινόμενα άρθρα:**

- Hey (2006) 'On the failure of modern species concepts', *Trends in Ecology & Evolution* 21:447-450.  
Hull (1976) 'Are species really individuals?', *Systematic Zoology* 25: 174-191.  
Kitcher (1984) 'Species', *Philosophy of Science* 51: 308-333.  
Mayr 'Typological versus Population Thinking' [CIEB]  
Okasha (2002) 'Darwinian Metaphysics: Species and the question of essentialism', *Synthese* 131: 191-213.  
Padian & Horner (2002) 'Typology versus transformation in the origin of birds', *Trends in Ecology & Evolution* 17:120-124.

**8 Η έννοια του γονιδίου**

PB 81-93

G κεφ. 1+2

Rheinberger 'Gene' [SEP]

**Προτεινόμενα άρθρα:**

- Griffiths & Neumann-Held (1999) 'The many faces of the gene', *Bioscience* 49: 656-662.

**9 Αναγωγή και αναγωγισμός στη βιολογία**

G κεφ. 3+4

SaD, κεφ. 6+7

R&M, κεφ. 4

Brigandt & Love (2007) 'Reductionism in Biology' [SEP]

Waters (2007) 'Molecular Genetics' [SEP]

**Προτεινόμενα άρθρα:**

- Fodor, J. (1974) 'Special Sciences', *Synthese* 28: 77-115.  
Kitcher, (1984) '1953 and All That: A Tale of Two Sciences' [CIEB]  
Oppenheim & Putnam (1958) 'Unity of Science as a Working Hypothesis', *Minnesota Studies in the Philosophy of Science* 2: 3-36.  
Rosenberg, A. (2007) 'Reductionism (and Antireductionism) in Biology' in Hull & Ruse (2007) *The Cambridge Companion to the Philosophy of Biology*, New York: Cambridge University Press.  
Sober, E. (1999) 'The multiple realizability argument against reductionism' [CIEB]  
Waters, C. K. (1990) 'Why the antireductionist consensus won't survive the case of classical genetics' [CIEB]

**10 Η έννοια της γενετικής πληροφορίας και βιολογική επικοινωνία**

PB 144-157

G κεφ. 5+6

Godfrey-Smith & Sterelny 'Biological Information' [SEP]

**Προτεινόμενα άρθρα:**

- Maynard Smith (2000) 'The Concept of Information in Biology', *Philosophy of Science* 67:177-194.

**11 Βιολογικοί νόμοι και μηχανισμοί, πολυπλοκότητα, πρόοδος**

PB 11-27

SaD κεφ. 15.2

DG μέρος 3

R&M, κεφ. 2, 5

**Προτεινόμενα άρθρα:**

- Beatty, J. (1995) 'The Evolutionary Contingency Thesis' [CIEB]  
Brandon (1997) 'Does biology have laws?', *Philosophy of Science* 64: Supplement.  
Cleland (2011) 'Prediction and Explanation in Historical Natural Science', *British Journal of Philosophy of Science* 62: 551–582.  
Machamer et al (2000) 'Thinking about mechanisms', *Philosophy of Science* 67: 1-25.  
Sober, E. (1997) 'Two Outbreaks of Lawlessness in Recent Philosophy of Biology' [CIEB]  
Waters (1998) 'Causal Regularities in the Biological World of Contingent Distributions', *Biology and Philosophy* 13: 5–36.

**12 Εξελικτικές εξηγήσεις κοινωνικής συμπεριφοράς και συνεργασίας**

PB 120-136

SaD κεφ. 13

Alexander, J. M. 'Evolutionary Game Theory' [SEP]

**Προτεινόμενα άρθρα:**

- Axelrod & Hamilton (1981) 'The evolution of cooperation', *Science* 211: 1390-1396.

**13 Καθολικός δαρβινισμός, εξέλιξη του πολιτισμού και ανθρώπινη φύση**

PB 45-49, 136-143

SaD κεφ. 13

R&M, κεφ. 7

Downes 'Evolutionary Psychology' [SEP]

**Προτεινόμενα άρθρα:**

- Hull (1986) 'On human nature', *PSA 1986* Volume 2: 3-13.  
Kitcher (1993) 'Four ways of "biologizing" ethics' [CIEB]  
Lewens (2006) 'Memes' in *Darwin*, Routledge.  
Machery 'A plea for human nature', *Philosophical Psychology* 21: 321–329.