

**RUPERT SHELDRAKE**  
**Curriculum vitae**

1942 Born in Newark-on-Trent, Nottinghamshire, England. Educated at Newark Preparatory School, Ranby House School and Worksop College (Music Exhibitioner and Science Scholar).

1960-63 Major Open Scholar at Clare College, Cambridge. Read Natural Sciences (Pt 1, Biochemistry, Botany, Chemistry and Physiology; Pt 2, Biochemistry). Double First Class Honours B.A. 1963. Awarded the University Botany Prize and the Clare College Greene Cup for General Learning.

1963-4 Frank Knox Fellow in the Graduate School at Harvard University. Studied philosophy and history of science.

1964-7 Research student in Dept of Biochemistry, University of Cambridge. Ph.D. Thesis on "The Production of Hormones in Higher Plants".

1966 Cambridge University Sir Henry Strakosh Travelling Fellow in Southern Africa.

1967 M.A., Cambridge, Ph.D. Cambridge

1967-74 Research Fellow and later Fellow of Clare College, Cambridge, and Director of Studies in Biochemistry and Cell Biology.

1968-9 Royal Society Leverhulme Studentship at the University of Malaya. Research on morphogenesis in tropical ferns, and on the physiology of latex flow in rubber trees (in conjunction with the Rubber Research Institute of Malaya).

1970-3 Royal Society Rosenheim Research Fellow. Research in Department of Biochemistry at Cambridge on the production and polar transport of the hormone auxin in higher plants, and on the control of plant differentiation and development. Also worked on the nature of ageing in plants and animals, and developed a new approach to the questions of senescence and rejuvenation.

- 1972            British Council Visiting Scientist in Germany.
- 1974-8        Principal Plant Physiologist at the International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Hyderabad, India. Head of the Legume Physiology Programme (with 36 scientific and technical staff). Carried out an extensive research programme at the Institute's research farm and at other field stations in India and the Middle East. Developed a new double-cropping system with pigeonpeas, now widely used by farmers and contributing to increased food production.
- 1978-79       Lived in the Benedictine ashram of Fr Bede Griffiths in Tamil Nadu, South India, and wrote *A New Science of Life: The Hypothesis of Formative Causation*, published by Blond and Briggs, London, 1981. Translations published in Chinese, Dutch, French, German, Italian, Japanese, Polish, Russian, Spanish and Swedish.
- 1980-5        Consultant Plant Physiologist, ICRISAT, Hyderabad.
- 1981-present. Research on morphogenesis, heredity, animal behaviour, psychology and parapsychology. Lectures, seminars and workshops at universities, scientific institutes, schools and adult education centres in Britain and overseas (Argentina, Australia, Austria, Belgium, Brazil, Canada, Denmark, Finland, France, Germany, Holland, India, Ireland, Italy, New Zealand, Norway, Portugal, Spain, Sweden, Switzerland).
- 1983        Addressed the US Congressional Clearing House on the Future on new approaches to biology.
- 1984        Visiting Professor at John F. Kennedy University, Orinda, California
- 1986        British representative at the UNESCO Colloquium in Venice on "Science and the Boundaries of Knowledge". Co-signatory of the Venice Declaration.

- 1988 Visiting Professor at Universities of Colorado and Vermont
- 1988 Publication of *The Presence of the Past: Morphic Resonance and the Habits of Nature* (Collins, London; Times Books, New York). Translated into French, German, Portuguese and Spanish.
- 1989-present Fellow of the Institute of Noetic Sciences, San Francisco, California.
- 1990 Publication of *The Rebirth of Nature: The Greening of Science and God* (Century, London; Bantam, New York). Translated into Bulgarian, Czech, Danish, Dutch, French, German, Italian, Portuguese, and Spanish.
- 1990 British Council visiting scientist at the Universities of Sydney, Melbourne and Tasmania, Australia; and Auckland, New Zealand.
- 1991-2013  
Scholar in Residence, Schumacher College, Dartington, Devon.
- 1992, 1997 Course leader, Temenos Academy, London.
- 1993 and 1994 Keynote lecturer in Dutch National Science Week, at the Universities of Amsterdam, Enschede, Groningen, Nijmegen, Rotterdam and Utrecht.
- 1994 Publication of *Seven Experiments that Could Change the World: A Do-It-Yourself Guide to Revolutionary Science* (Fourth Estate, London; Riverhead/Putnam, New York). Book of the Year Award from the British Institute for Social Inventions. Translated into Chinese, Czech, Dutch, French, Finnish, German, Italian, Japanese, Norwegian, Polish, Portuguese and Spanish. New edition 2002.
- 1995 Received the 1995 Medal of Honour at the annual "Science-Frontières" Festival in Cavaillon, France.

1999 Publication of *Dogs That Know When Their Owners Are Coming Home, And Other Unexplained Powers of Animals*. (Hutchinson, London; Crown, New York). This book won the British Scientific and Medical Network Book of the Year Award for 1999. Translated into Chinese, Czech, Danish, Dutch, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese and Spanish. A bestseller in Britain, Austria, Germany and the USA. New edition, 2011.

2000 H. Burr Steinbach scholar in residence at the Woods Hole Oceanographic Institution, Cape Cod, Massachusetts, USA.

2002 Leader of a course on animal behaviour at Schumacher College, together with Jane Goodall,.

2003 Publication of *The Sense of Being Stared At , And Other Aspects of the Extended Mind* (Hutchinson, London; Crown, New York). Translated in Dutch, French German, Portuguese, Spanish and Turkish. New edition, 2013.

2004 onwards Visiting Professor and Academic Director at the Graduate Institute in Connecticut, USA

2005 Visiting Professor of Evolutionary Science at the Wisdom University, Oakland, California

2005 - 2010 Perrott-Warrick Senior Researcher, appointed and funded by Trinity College, Cambridge

2012 Publication of *The Science Delusion* (UK)/ *Science Set Free* (US). This book won the British Scientific and Medical Network Book of the Year Award for 2012. Translated into Danish, Estonian, Finnish, French, German, , Italian, Japanese, Korean, Norwegian, Polish, Portuguese and Spanish.

### Learned Societies

Fellow of the Royal Society of Arts; Fellow of the Zoological Society; Fellow of the Cambridge Philosophical Society; Member of the Society

for Experimental Biology; Member of the Society for Scientific Exploration; Member of the Scientific and Medical Network; Member of the Society for Psychical Research; Member of the Parapsychological Association; Member of the British Association for the Advancement of Science.

**Books:**

*A New Science of Life: The Hypothesis of Formative Causation* (Blond and Briggs, London, 1981; Tarcher, Los Angeles, 1982; new edition, 2009, Icon Books)

*The Presence of the Past: Morphic Resonance and the Habits of Nature* (Collins, London, 1988; Times Books, New York; new edition, 2012, Icon Books)

*The Rebirth of Nature: The Greening of Science and God* (Century, London, 1992; Bantam, New York)

*Seven Experiments that Could Change the World: A Do-It-Yourself Guide to Revolutionary Science* (Fourth Estate, London, 1994; Riverside/Putnams, New York, 1995; new edition, 2002, Inner Traditions International)

*Dogs that Know When Their Owners are Coming Home, and Other Unexplained Powers of Animals* (Hutchinson, London, 1999; Crown, New York; new edition, 2011, Random House, New York)

*The Sense of Being Stared At, And Other Aspects of the Extended Mind* (Hutchinson, London, 2003; Crown, New York; new edition, 2013, Inner Traditions International)

*The Science Delusion: Freeing the Spirit of Enquiry* (Hodder and Stoughton, London, 2012; published in the US as *Science Set Free: 10 Paths to New Discovery*, Random House, 2012)

With Ralph Abraham and Terence McKenna:

*Chaos, Creativity and Cosmic Consciousness* (Inner Traditions International, 2001)

*The Evolutionary Mind* (Monkfish Publishing, 2005)

With Matthew Fox:

*Natural Grace: Dialogues on Science and Spirituality*

(Bloomsbury, London, 1996; Doubleday, New York)

*The Physics of Angels* (Harper San Francisco, 1996)

### **Papers and Articles**

In addition to the books above, more than 80 scientific and technical papers (listed below) and numerous non-technical articles in *New Scientist*, *The Spectator*, *Resurgence*, *The Ecologist*, *The Guardian*, *The Times*, *The Sunday Times*, *The Sunday Telegraph* and in other British and foreign journals, newspapers and magazines.

### **Radio**

Numerous radio broadcasts on BBC *Science Now*, BBC World Service *Discovery* and *Science in Action*, and other BBC science programmes; also on many other radio stations, both national and local, in Australia, Britain, Canada, France, Germany, Holland, New Zealand, Spain, Sweden, Switzerland and the United States.

### **Television**

Participated in a variety of television programmes in Britain, including BBC1 *Tomorrow's World*, and a feature in the BBC2 *Heretics* series in 1994. Also many TV programmes abroad, in Austria, Australia, France, Germany, Holland, Spain, Sweden, and the United States. In 1993, on Dutch Television (VPRO TV Hilversum) one of the participants in a record-breaking scientific series called *A Glorious Accident* (together with the philosopher Daniel Dennett, the physicist Freeman Dyson, the biologist Steven Jay Gould, the neurologist Oliver Sacks and the philosopher Stephen Toulmin), broadcast on the PBS network in the USA. Also participated in numerous programmes on BBC TV and ITV in Britain, on ABC, CBS, Discovery Channel, and other networks in the USA, on CNN, on CBC TV in Canada, etc.

**Website**

[www.sheldrake.org](http://www.sheldrake.org)

(in 2013 receiving an average of 800,000 hits per month, with around 30,000 unique visitors per month)

**Family**

Married to Jill Purce with two sons, living in Hampstead, London.

**RUPERT SHELDRAKE****Scientific and Technical Publications**1968

Production of auxin by detached leaves. **Nature** 217, 195.

The production of auxin by autolysing tissues. **Planta** 80, 227-236.

The production of auxin by tobacco internode tissues. **New Phytologist** 67, 1-13.

Some constituents of xylem sap and their possible relationship to xylem differentiation. **Journal of Experimental Botany** 19, 681-9. (The above four papers with D.H. Northcote)

1969

Cellulase in latex and its possible significance in cell differentiation. **Planta**, 89, 82-4.

1970

Cellulase and cell differentiation in *Acer pseudoplatanus*. **Planta** 95, 167-78.

1971

A cellulase in *Hevea* latex. **Physiologia Plantarum** 23, 267-77 (with G.F.J. Moir).

Auxin in the cambium and its differentiating derivatives. **Journal of Experimental Botany** 24, 87-96.

The occurrence and significance of auxin in the substrata of bryophytes. **New Phytologist** 70, 519-26.

1972

Polar auxin transport in the leaves of monocotyledons. **Nature** 238, 352-3.



1973

Auxin transport in secondary tissues. **Journal of Experimental Botany** 24, 87-96.

Do coleoptile tips produce auxin? **New Phytologist** 72, 433-7.

The production of hormones in higher plants. **Biological Reviews** 48, 509-59.

Effect of pH and surface charge on cell uptake of auxin. **Nature New Biology** 244, 285-88 (with P. Rubery).

Ageing, growth and death. **Theoria to Theory** 7, 31-38.

1974

Carrier-mediated auxin transport. **Planta** 118, 101-21 (with P. Rubery).

The polarity of auxin transport in inverted cuttings. **New Phytologist** 73, 637-42.

Family planning. **Nature** 250, 180

The ageing, growth and death of cells. **Nature** 250, 381-5.

1978

Some effects of the physiological state of pigeonpeas on the wilt disease. **Tropical Grain Legumes Bulletin** 11, 24-25 (with A. Narayanan and J. Kannaiyan)

The expression and influence on yield of the 'double-podded' character in chickpea. **Field Crops Research** 1, 243-54 (with N.P. Saxena and L. Krishnamurthy).

1979

Comparison of earlier- and later-formed pods of chickpea. **Annals of Botany** 43, 467-74 (with N.P. Saxena).

Growth and development of chickpeas under progressive moisture stress. In: **Stress Physiology in Crop Plants** (ed H. Mussell and R.C. Staples), pp.465-83. Wiley Interscience, New York (with N.P. Saxena).

Pigeonpea (*Cajanus cajan*) as a winter crop in peninsular India. **Experimental Agriculture** 15, 91-95 (with A. Narayanan).

Growth, development and nutrient uptake in pigeonpea. **Journal of Agricultural Science** 92, 513-26 (with A. Narayanan).

Comparison of earlier- and later-formed pods in pigeonpea. **Annals of Botany** 43, 459-66 (with A. Narayanan).

The effects of flower removal on the seed yield of pigeonpeas. **Annals of Applied Biology** 91, 383-90 (with A. Narayanan and N. Venkataratnam).

A hydrodynamical model of pod-set in pigeonpeas. **Indian Journal of Plant Physiology** 22, 137-43.

Effects of osmotic stress on polar auxin transport in *Avena* mesocotyl sections. **Planta** 145, 113-7.

### 1980

Three approaches to biology: I The mechanistic theory of life. **Theoria to Theory** 14, 125-144.

Three approaches to biology: II Vitalism. **Theoria to Theory** 14, 227-240.

**The Anatomy of the Pigeonpea.** ICRISAT Monograph Series, Hyderabad (with S.S. Bisen).

Physiology of growth, development and yield of chickpeas in India. **Proceedings of International Workshop on Chickpea Improvement**, 106-20. ICRISAT Publications, Hyderabad (with N.P. Saxena).

Effects of seed grading on the yields of chickpeas and pigeonpea. **Indian Journal of Agricultural Science** 51, 389-93 (with N.P. Saxena and A. Narayanan).

Effects of pod exposure on the yield of chickpeas (*Cicer arietinum*) **Field Crops Research** 3, 189-191 (with N.P. Saxena)

Iron chlorosis in chickpea (*Cicer arietinum*) grown on high pH calcareous vertisol. **Field Crops Research** 3, 211-214 ( )

### 1981

Three approaches to biology: III Organicism. **Theoria to Theory** 14, 301-311.

Varietal differences in seed size and seedling growth of pigeonpea and chickpea. **Indian Journal of Agricultural Science** 51, 389-93 (with N.P. Saxena).

### 1984

Pigeonpea Physiology. In: **The Physiology of Tropical Crops** (ed. P.H. Goldsworthy). Blackwell, Oxford.

### 1987

Factors affecting growth and yield of short-duration pigeonpea and its potential for multiple harvests. **Journal of Agricultural Science** 109, 519-29 (with Y.S. Chauhan and N. Venkataratnam).

Effect of harvest methods on the second-flush yield of short-duration pigeonpea. **Journal of Agricultural Science** 109, 591-3 (ditto).

A perennial cropping system from pigeonpea grown in post-rainy season. **Indian Journal of Agricultural Sciences** 57, 895-9 (ditto)

### 1988

Cattle fooled by phoney grids. **New Scientist** Feb 11, 65.

1993

An experimental test of the hypothesis of formative causation. **Biology Forum** 85, 431-443.

1997

Psychic pets: A survey in North-West England. **Journal of the Society for Psychical Research** 61, 353-364 (with P. Smart)

1998

A dog that seems to know when his owner is returning: preliminary investigations. **Journal of the Society for Psychical Research** 62, 220-232 (with P. Smart)

The sense of being stared at: experiments in schools. **Journal of the Society for Psychical Research** 62, 311-323

Perceptive pets: a survey in London. **Biology Forum** 91, 57-74 (with C. Lawlor and J. Turney)

Perceptive pets: a survey in North-West California. **Journal of the Society for Psychical Research** 62, 396-406 (with D. J. Brown)

Perceptive pets with puzzling powers: three surveys. **International Society for Anthrozoology Newsletter** 15, 2-5.

Experimenter effects in scientific research: How widely are they neglected? **Journal of Scientific Exploration** 12, 73-78.

Could experimenter effects occur in the physical and biological sciences? **Skeptical Inquirer** May/June, 57-58.

1999

The 'sense of being stared at' confirmed by simple experiments. **Biology Forum** 92, 53-76.

How widely is blind assessment used in scientific research?  
**Alternative Therapies** 5 (3), 88-91

Commentary on a paper by Wiseman, Smith and Milton on the 'psychic pet' phenomenon. **Journal of the Society for Psychical Research** 63: 306-311.

### 2000

The 'sense of being stared at' does not depend on known sensory clues. **Biology Forum** 93,, 209-224.

A dog that seems to know when his owner is coming home: videotaped experiments and observations. **Journal of Scientific Exploration** 14: 233-255. (with P. Smart)

The 'psychic pet' phenomenon. **Journal of the Society for Psychical Research** 64: 126-128.

Research on the feeling of being stared at. **Skeptical Inquirer** March/April, 58-61.

Telepathic telephone calls: two surveys. **Journal of the Society for Psychical Research** 64, 224-232

Testing a return-anticipating dog, Kane. **Anthrozoos** 13, 203-212. (with P. Smart)

### 2001

The anticipation of telephone calls: a survey in California. **Journal of Parapsychology** 65, 145-156.

Experiments on the sense of being stared at: the elimination of possible artefacts. **Journal of the Society for Psychical Research** 65, 122-137.

### 2002

Apparent telepathy between babies and nursing mothers: A survey. **Journal of the Society for Psychical Research** 66, 181-185.

2003

Experimental tests for telephone telepathy. **Journal of the Society for Psychical Research** 67, 184-199 (with P. Smart)

Videotaped experiments on telephone telepathy. **Journal of Parapsychology** 67, 187-206 (with P. Smart)

Testing a language-using parrot for telepathy. **Journal of Scientific Exploration** 17, 601-615 (with Aimee Morgana).

2004

A Filmed Experiment on Telephone Telepathy with the Nolan Sisters. **Journal of the Society for Psychical Research** 68, 168-172 (with Hugo Godwin and Simon Rockell)

Investigaciones Experimentales En Telepatía Por Teléfono  
**Revista Argentina de Psicología Paranormal** 15, 209-230.

2005

Testing for telepathy in connection with emails. **Perceptual and Motor Skills** 101, 771-786.

The sense of being stared at: Part 1: Is it real or illusory? **Journal of Consciousness Studies** 12, 10-31.

The sense of being stared at: Part 2: Its implications for theories of vision. **Journal of Consciousness Studies** 12, 32-49.

The non-visual detection of staring: Response to commentators.  
**Journal of Consciousness Studies** 12, 117-126.

2007

An automated online telepathy test. **Journal of Scientific Exploration** 21, 511-522. (with M. Lambert)

2008

Investigating scopaesthesia: Attentional transitions, controls, and error rates in repeated tests. **Journal of Scientific Exploration** 22, 517-527.

The sense of being stared at: an automated test on the internet. **Journal of the Society for Psychical Research** 72, 86-97.

The sense of being stared at: do hit rates improve as tests go on? **Journal of the Society for Psychical Research** 72, 98-106.

### 2009

Sensing the sending of SMS messages: an automated test. **Explore: The Journal of Science and Healing** 5, 272-276. (with L. Avraamides and M. Novak)

A rapid online telepathy test. **Psychological Reports** 104, 957-970 (with A. Beeharee)

An automated test for telepathy in connection with emails. **Journal of Scientific Exploration** 23, 29-36 (with L. Avraamides)