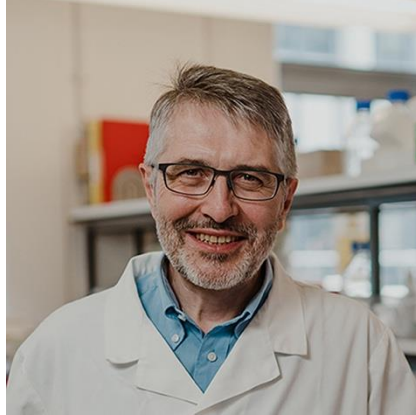




ULUSLARARASI KATILIMLI TÜRKİYE 7. TOHUMCULUK KONGRESİ
Turkey 7th Seed Congress with International Participation



Invited Speakers Short Academic CV



Professor Gerhard Leubner

Chair of Plant Biochemistry, Head of Seed Science & Technology, School of Biological Sciences, Royal Holloway University of London (RHUL), Egham, Surrey, TW20 0EX, UK
Email Gerhard.Leubner@rhul.ac.uk
Web 'The Seed Biology Place' - www.seedbiology.eu

Short Biography

Education and Academic Career

- Since 04.2012 Professor/Chair of Plant Biochemistry, Royal Holloway University of London (RHUL), United Kingdom
- 09.10-03.12 Associate Professor, Botany/Plant Physiology, University Freiburg, Germany
- 04.04-03.10 Assistant Professor ('Hochschuldozent'), Botany/Plant Physiology, University Freiburg
- 12.2003 Habilitation & Venia legendi in Botany/Plant Physiology, University Freiburg
- 10.2003 'Baden-Württemberg Zertifikat Hochschuldidaktischer Kompetenzen'
- 12.00-12.03 Independent group leader ('Habilitation'), Botany/Plant Physiology, University Freiburg
- 05.00-11.00 WebPublisher SIZ® ('Schweizerisches Informatik-Zertifikat')
- 01.93-09.00 Post-doctoral Research Associate and project leader, Friedrich Miescher Institute (FMI), Basel, Switzerland. Plant development (Prof Fred Meins)
- 01.93-09.00 Post-doctoral Fellow (DFG), Cornell University, Ithaca, New York, USA
Phytopathology (Prof Olen C. Yoder)
- 08.86-10.90 Doctoral work (Ph.D.), Ruhr-University Bochum, Germany and Swiss Federal Institute of Technology (ETH) Zürich, Switzerland
Plant biochemistry and physiology lab of Prof Nikolaus Amrhein

Professional Activities:

- Editor: *Planta* since 2012 (Reviews Editor), *Seed Science Research* since 2006 (Editorial board), *Journal of Experimental Botany* (2012-2020), *AoB Plants* (2009-2012).
- Elected/Appointed Trustee, Member of the Executive Committee of the ISSS (International Society for Seed Science) since 2011.
- Visiting Professor at Palacky University, Olomouc (CZ) since 02/2013.
- Consultant to KWS SAAT SE sugar beet seed production & technology since 04/2013.
- Curator 'The Seed Biology Place' (www.seedbiology.eu) website, internationally one of the most visited seed biology websites, Recommended in *NetWatch (Science 313: 595, 2006)*.



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Selected Invited Seminars, Oral Presentations at Conferences:

- **The Alfred Mayer Plenary Lecture** at the 2021 ISSS workshop, title "The Germination of Diaspores: Origin, Diversity and Destiny of the Seed Habit", 8/2021.
- **Invited Keynote Speaker** Seed Ecology VI Conference. 'All Seasons Seed Mix - Molecular and Physiological Mechanisms of Seed and Fruit Ecology'. 7/8.2019, Regensburg Germany.
- **Speaker:** 'Rocket Science – Molecular mechanisms underpinning vegetable seed aging and vigor loss during space travel'. 12th Triannual ISSS Conference, 9.2017, Monterey/CA, USA.
- **Invited Keynote Speaker** IIBR Sugarbeet Meeting, oral presentation 'Mechanisms under-pinning seed vigour and seedling performance upon stress', 9.2016, Einbeck, Germany.
- **Invited Speaker** Ag-Bio Summit Conference Seed Treatments, 9.2016, Nice, France.
- **Lead Speaker and chairman** of the basic research session, 29th **ISTA** (International Seed Testing Association, applied seed science organisation) Congress, 06.2010, Köln, Germany.

Publications and citation metrics:

- 'The Seed Biology Place' website refers to the group's >70 publications. 'Web of Science' analysis of the last 25 years (06/2018, title contains 'Seed', category 'Plant Science') identified 71 of 18,963 pubs classify 'Highly Cited in Field'. Of these 71 highly cited pubs 7 (10% of the field) are from 'Leubner-Metzger' (h-index 37).
- Finch-Savage WE, **Leubner-Metzger G** (2006). Seed dormancy and the control of germination. **Tansley review: New Phytologist** 171: 501-523 - *Highly cited review (>>1500-times Web-of-Science 08/2021); this is the most cited review of this century in the seed science field.*

Selected Relevant Peer-reviewed Publications: (*shared first or senior authors)

- Walker M., Pérez M., Steinbrecher T, Gawthrop F, Pavlović I, Novák O, Tarkowská D, Strnad M, Marone F, Nakabayashi K*, Leubner-Metzger G* (2021). Molecular mechanisms and hormonal regulation underpinning morphological dormancy: a case study using *Apium graveolens* (Apiaceae). **The Plant Journal** - EarlyView Online Version published - <https://doi.org/10.1111/tpj.15489>
- Chandler JO, Haas FB, Khan S, Bowden L, Ignatz M, Enfissi EMA, Gawthrop F, Griffiths A, Fraser PD, Rensing SA, Leubner-Metzger G (2020). Rocket Science: The effect of spaceflight on germination physiology, ageing, and transcriptome of *Eruca sativa* seed. **Life** 10:49
- Hourston JE, Perez M, Gawthrop F, Richards M, Steinbrecher T, Leubner-Metzger G (2020). The effects of high oxygen partial pressure on vegetable *Allium* seeds with a short shelf-life. **Planta** 251:105
- Holloway T, Steinbrecher T, Perez M, Seville A, Stock D, Nakabayashi K*, Leubner-Metzger G* (2019) Coleorhiza-enforced seed dormancy: a novel mechanism to control germination in grasses. **New Phytologist** 229:2179-2191
- Ignatz M, Hourston JE, Turečková V, Strnad M, Meinhard J, Fischer U, Steinbrecher T, Leubner-Metzger G (2019). The biochemistry underpinning industrial seed technology and mechanical processing of sugar beet. **Planta** 250:1717-1729
- Wilhelmsson PKI, Chandler J, Fernandez-Pozo N, Graeber G, Ullrich KK, Arshad W, Khan S, Hofberger J, Buchta K, Edgar PP, Pires C, Schranz E, Leubner-Metzger G*, Rensing SA* (2019). Usability of reference-free transcriptome assemblies for detection of differential expression: a case study on *Aethionema arabicum* dimorphic seeds. **BMC Genomics** 20:95
- Sperber K*, Steinbrecher T*, Graeber K, Scherer G, Clausing S, Wiegand N, Hourston JE, Kurre R, **Leubner-Metzger G***, Mummenhoff K* (2017). Fruit fracture biomechanics and



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the release of *Lepidium didymum* pericarp-imposed mechanical dormancy by fungi. **Nature Comm.** 8:1868

- Lenser T*, Graeber K*, Cevik ÖS, Adigüzel N, Dönmez AA, Grosche C, Kettermann M, Mayland-Quellhorst S, Mérai Z, Mohammadin S, Nguyen T-P Rümpler F, Schulze C, Sperber K, Steinbrecher T, Wiegand N, Strnad M, Mittelsten Scheid O, Rensing SA, Schranz ME, Theißen G*, Mummenhoff K*, **Leubner-Metzger G*** (2016). Developmental control and plasticity of fruit and seed dimorphism in *Aethionema arabicum*. **Plant Physiology** 172:1691-1707
- Graeber K, Linkies A, Steinbrecher T, Mummenhoff K, Tarkowská D, Turečková V, Ignatz M, Sperber K, Voegelé A, De Jong H, Urbanová T, Strnad M, **Leubner-Metzger G** (2014). DELAY OF GERMINATION 1 mediates a conserved dormancy mechanism which integrates temperature to alter seed tissue properties required for the biomechanical control of a plant life-cycle transition. **Proc Natl Acad Sci USA** 111: E3571–E3580