

Web of Science Researcher ID: K-3351-2019

Google Scholar February 2022
Citations 5892, h-index: 38, i10-index: 62



ORCID

Journal articles

1. Mesihovic A, Ullrich S, Rosenkranz RRE, Gebhardt P, Bublak D, Eich H, Weber D, Berberich T, Scharf K-D, Schleiff E, Fragkostefanakis S (2022) HsfA7 coordinates the transition from mild to strong heat stress response by controlling the activity of the master regulator HsfA1a in tomato. *Cell Reports* 38: 110224. DOI:10.1016/j.celrep.2021.110224
2. Sagor GHM, Kim DW, Niitsu M, Kusano T, Berberich T (2021) Expression profile of seven polyamine oxidase genes in rice (*Oryza sativa*) in response to abiotic stresses, phytohormones and polyamines. *Physiol Mol Biol Plants*. 27:1353–1359. DOI: 10.1007/s12298-021-01006-1
3. Sagor GHM, Simm S, Kim DW, Niitsu M, Kusano T, Berberich T (2021) Effect of thermospermine on expression profiling of different gene using massive analysis of cDNA ends (MACE) and vascular maintenance in Arabidopsis. *Physiol Mol Biol Plants*. 27:577-586. DOI:10.1007/s12298-021-00967-7
4. Schneider JV, Paule J, Jungcurt T, Cardoso D, Amorim AM, Berberich T, Zizka G. (2021). Resolving recalcitrant clades in the pantropical Ochnaceae: Insights from comparative phylogenomics of plastome and nuclear genomic data derived from targeted sequencing. *Frontiers Plant Sci*. DOI: 10.3389/fpls.2021.638650
5. Schneider JV, Jungcurt T, Cardoso D, Amorim AM, Töpel M, Andermann T, Poncy O, Berberich T, Zizka G. (2021). Phylogenomics of the tropical plant family Ochnaceae using targeted enrichment of nuclear genes and 250+ taxa. *Taxon* 70:48-71 DOI:10.1002/tax.12421
6. Sagor GHM, Kusano T, Berberich T (2019) A polyamine oxidase from *Selaginella lepidophylla* (SelPAO5) can replace AtPAO5 in Arabidopsis through converting thermospermine to norspermidine instead to spermidine. *Plants* 8:99-109 DOI:10.3390/plants8040099
7. El-Far M, Berberich T, Koyro HW (2019) Diverse response of three sweetpotato cultivars to abiotic stresses and adjustment of free polyamine levels. *Egypt J Bot* 59: 461-474 DOI:10.21608/ejbo.2019.6752.1269
8. Huang J, Liu H, Berberich T, Liu Y, Tao L-Z, Liu T (2018) Guanine nucleotide exchange factor 7B (RopGEF7B) is involved in floral organ development in *Oryza sativa*. *Rice (N Y)* 11:42. DOI: 10.1186/s12284-018-0235-0.
9. Hao Y, Huang B, Jia D, Mann T, Jiang X, Qiu Y, Niitsu M, Berberich T, Kusano T, Liu T (2018) Identification of seven polyamine oxidase genes in tomato (*Solanum lycopersicum* L.) and their expression profiles under physiological and various stress conditions. *J Plant Physiol* 228:1-11. DOI: 10.1016/j.jplph.2018.05.004
10. Sagor GHM, Kusano T, Berberich T (2017) Identification of the actual coding region for polyamine oxidase 6 from rice (OsPAO6) and its partial characterization. *Plant Signal Behav.* 12(8):e1359456. DOI: 10.1080/15592324.2017.1359456.
11. Sagor GHM, Zhang S, Kojima S, Simm S, Berberich T, Kusano T (2016) Reducing cytoplasmic polyamine oxidase activity in Arabidopsis increases salt and drought tolerance by reducing reactive oxygen species production and increasing defense gene expression. *Frontiers Plant Sci* 7:214. DOI: 10.3389/fpls.2016.00214
12. Sagor GHM, Berberich T, Kojima S, Niitsu M, Kusano T (2016) Spermine modulates the expression of two probable polyamine transporter genes and determines growth responses to cadaverine in Arabidopsis. *Plant Cell Rep* 35:1247. DOI 10.1007/s00299-016-1957-3
13. Sagor GHM, Berberich T, Tanaka S, Nishiyama M, Kanayama Y, Kojima S, Muramoto K, Kusano T (2015) A novel strategy to produce sweeter tomato fruits with high sugar

- contents by fruit-specific expression of a single bZIP transcription factor gene. *Plant Biotech J* 14:1116-1126. DOI: 10.1111/pbi.12479
14. Sagor GHM, Chawla P, Kim DW, Berberich T, Kojima S, Niitsu M, Kusano T (2015) The polyamine spermine induces the unfolded protein response via the MAPK cascade in *Arabidopsis*. *Frontiers Plant Sci* 6:687. DOI: 10.3389/fpls.2015.00687
 15. Sagor GHM, Inoue M, Kim DW, Kojima S, Niitsu M, Berberich T, Kusano T (2015) The polyamine oxidase from lycophyte *Selaginella lepidophylla* (SelPAO5), unlike that of angiosperms, back-converts thermospermine to norspermidine. *FEBS Lett* 589:3071-3078. DOI: 10.1016/j.febslet.2015.08.045
 16. Liu T, Kim DW, Niitsu M, Berberich T, Kusano T (2014) Polyamine oxidase 1 from rice (*Oryza sativa*) is a functional ortholog of *Arabidopsis* Polyamine oxidase 5. *Plant Sign Behavior* 9: DOI: 10.4161/psb.29773
 17. Jedmowski C, Ashoub A, Beckhaus T, Berberich T, Karas M, Brueggemann W (2014) Comparative analysis of *Sorghum bicolor* proteome in response to drought stress and following recovery. *Int J Proteomics* DOI: 10.1155/2014/395905
 18. Kim DW, Watanabe K, Murayama C, Izawa S, Niitsu M, Michael AJ, Berberich T, Kusano T (2014) Polyamine oxidase 5 regulates *Arabidopsis thaliana* growth through a thermospermine oxidase activity. *Plant Physiol* 165:1575-1590, DOI: 10.1104/pp.114.242610
 19. Liu T, Kim DW, Niitsu M, Maeda S, Watanabe M, Kamio Y, Berberich T, Kusano T (2014) Polyamine oxidase 7 is a terminal catabolism-type enzyme in *Oryza sativa* and is specifically expressed in anther organ. *Plant Cell Physiol* 55:1110-1122 DOI: 10.1093/pcp/pcu047
 20. Pfenninger M, Lerp H, Tobler M, Passow C, Kelley JL, Funke E, Greshake B, Erkoç UK, Berberich T, Plath M (2014) Parallel evolution of cox-genes in H₂S-tolerant fish as key adaptation to a toxic environment. *Nat Commun* 5:3873 DOI: 10.1093/pcp/pcu047
 21. Liu T, Dobashi H, Kim DW, Sagor GHM, Niitsu M, Berberich T, Kusano T (2014) *Arabidopsis* mutant plants with diverse defects in polyamine metabolism show unequal sensitivity to exogenous cadaverine probably based on their spermine content. *Physiol Mol Biol Plants* 20:151-159 DOI: 10.1007/s12298-014-0227-5
 22. Kunihiro S, Kowata H, Kondou Y, Takahashi S, Matsui M, Berberich T, Youssefian S, Hidema J, Kusano T (2014) Overexpression of rice OsREX1-S, encoding a putative component of the core general transcription and DNA repair factor IIH, renders plant cells tolerant to cadmium- and UV-induced damage by enhancing DNA excision repair. *Planta* 239:1101-1111, DOI: 10.1007/s00425-014-2042-1
 23. Liu T, Kim DW, Niitsu M, Berberich T, Kusano T (2014) *Oryza sativa* polyamine oxidase 1 back-converts tetraamines, spermine and thermospermine, to spermidine. *Plant Cell Rep* 33:143-151 DOI 10.1007/s00299-013-1518-y
 24. Kunihiro S, Saito T, Matsuda T, Inoue M, Kuramata M, Taguchi-Shiobara F, Youssefian S, Berberich T, Kusano T (2013) Rice OsDEP1, encoding a highly cysteine-rich G protein γ subunit, confers cadmium-tolerance to yeast cells and plants. *J Exp Bot* 64:4517-4527 DOI 10.1093/jxb/ert267
 25. Sagor GHM, Liu T, Takahashi H, Niitsu M, Berberich T, Kusano T (2013) Longer uncommon polyamines have a stronger defense gene-induction activity and a higher suppressing activity of Cucumber mosaic virus multiplication compared to that of spermine in *Arabidopsis thaliana*. *Plant Cell Rep* 32:1477-1488 DOI 10.1007/s00299-013-1459-5
 26. Zimmermann T, Bocksberger G, Brüggemann W, Berberich T (2013) Phylogenetic relationship and molecular taxonomy of African grasses of the genus *Panicum* inferred from four chloroplast DNA-barcodes and nuclear gene sequences. *J Plant Res* 126:363-371 DOI: 10.1007/s10265-012-0538-y
 27. Ashoub A, Beckhaus T, Berberich T, Karas M, Brüggemann W (2013) Comparative analysis of barley leaf proteome as affected by drought stress. *Planta* 237:771-781 DOI 10.1007/s00425-012-1798-4
 28. Sagor GHM, Berberich T, Takahashi Y, Niitsu M, Kusano T (2013) The polyamine spermine protects *Arabidopsis* from heat stress-induced damage by increasing expression of heat shock-related genes. *Transgenic Res* 22:595-605 DOI 10.1007/s11248-012-9666-3
 29. Zhu XJ, Thalor SK, Takahashi Y, Berberich T, Kusano T (2012) An inhibitory effect of the sequence-conserved upstream open reading frame on the translation of the main open-

- reading frame of HsfB1 transcripts in Arabidopsis. Plant, Cell Environ 35:2014–2030
DOI:10.1111/j.1365-3040.2012.02533.x.
30. Yang SH, Kim S-H, Berberich T, Kusano T (2012) Identification and properties of a small protein that interacts with a tobacco bZIP-type transcription factor involved in senescence and flower development. Plant Biotech 29:395-399
DOI:10.5511/plantbiotechnology.12.0508b
 31. Thalor SK, Berberich T, Lee SS, Yang SH, Zhu XJ, Imai R, Takahashi Y, Kusano T (2012) Deregulation of sucrose-controlled translation of a bZIP-type transcription factor results in sucrose accumulation in leaves. PLoS ONE 7(3): e33111.
DOI:10.1371/journal.pone.0033111
 32. Sagor GHM, Takahashi H, Niitsu M, Takahashi Y, Berberich T, Kusano T (2012) Exogenous thermospermine has an activity to induce a subset of the defense genes and restrict cucumber mosaic virus multiplication in Arabidopsis thaliana. Plant Cell Rep 31:1227–1232. DOI:10.1007/s00299-012-1243-y
 33. Shenton MR, Berberich T, Kamo M, Yamashita T, Taira H, Terauchi R (2012) Use of intercellular washing fluid to investigate the secreted proteome of the rice–Magnaporthe interaction. J Plant Res 125:311-316
 34. Scharf K-D, Berberich T, Ebersberger I, Nover L (2012) The plant heat stress transcription factor (Hsf) family: structure, function and evolution. Biophys Biochem Acta 1819:104-119. <https://doi.org/10.1016/j.bbagr.2011.10.002>
 35. Ono Y, Kim DW, Watanabe K, Sasaki A, Niitsu M, Berberich T, Kusano T, Takahashi Y (2012) Constitutively and highly expressed *Oryza sativa* polyamine oxidases localize in peroxisomes and catalyze polyamine back conversion. Amino Acids 42:867-876
 36. Sagor GHM, Yamaguchi K, Watanabe K, Berberich T, Kusano T, Takahashi Y (2011) Spatio-temporal expression analysis of *Arabidopsis thaliana* spermine synthase gene promoter. Plant Biotech 28:407-411
 37. Ashoub A, Berberich T, Beckhaus T, Brüggemann W (2011). A competent extraction method of plant proteins for 2D gel electrophoresis. Electrophoresis 32:2975-2978
 38. Takahashi Y, Cong R, Sagor GH, Niitsu M, Berberich T, Kusano T (2010) Characterization of five polyamine oxidase isoforms in Arabidopsis thaliana. Plant Cell Rep 29:955–965
 39. Saitoh H, Fujisawa S, Ito A, Mitsuoka C, Berberich T, Tosa Y, Asakura M, Takano Y, Terauchi R (2009) SPM1 encoding a vacuole-localized protease is required for infection-related autophagy of the rice blast fungus Magnaporthe oryzae. FEMS Microbiol Lett 300:151-121
 40. Kusano T, Tateda C, Berberich T, Takahashi Y (2009) Voltage-dependent anion channels: their roles in plant defense and cell death. Plant Cell Rep 28:1301-1308
 41. Sagor GHM, Cong R-Z, Berberich T, Takahashi H, Takahashi Y, Kusano T (2009) Spermine signaling in defense reaction against avirulent viral pathogen in *Arabidopsis thaliana*. Plant Sig Behav 4:316 – 318
 42. Takahashi Y, Berberich T, Kanzaki H, Matsumura H, Saitoh H, Kusano T, Terauchi R (2009) Unraveling the roles of sphingolipids in plant innate immunity. Plant Sig Behav 4: 536-538
 43. Mitsuya Y, Takahashi Y, Berberich T, Miyazaki A, Matsumura H, Takahashi H, Terauchi R, Kusano T (2009) Spermine signaling plays a significant role in the defense response of Arabidopsis thaliana to cucumber mosaic virus. J Plant Physiol 166: 626-643
 44. Takahashi Y, Berberich T, Kanzaki H, Matsumura H, Saitoh H, Kusano T, and Terauchi R (2009) Serine palmitoyltransferase, the first step enzyme in sphingolipid biosynthesis, is involved in non-host resistance. Mol Plant Microbe Interact 22:31-38
 45. Kanzaki H, Saitoh H, Takahashi Y, Berberich T, Ito A, Kamoun S, Terauchi R (2008) NbLRK1, a lectin-like receptor kinase protein of Nicotiana benthamiana, interacts with Phytophthora infestans INF1 elicitor and mediates INF1-induced cell death. Planta 228:977-987
 46. Tateda C, Ozaki R, Onodera Y, Takahashi Y, Yamaguchi K, Berberich T, Koizumi N, Kusano T (2008) NtbZIP60, an endoplasmic reticulum-localized transcription factor, plays a role in defence response against bacterial pathogen in tobacco. J Plant Res 121:603-611
 47. Kusano T, Berberich T, Tateda C, Takahashi Y (2008) Polyamines: Essential factors for growth and survival. Planta 228:367-381
 48. Coemans B, Takahashi Y, Berberich T, Ito A, Kanzaki H, Matsumura H, Saitoh H, Tsuda S, Kamoun S, Sagi L, Swennen R, Terauchi R (2008) High-throughput *in planta* expression

- screening identifies an ADP-ribosylation factor (ARF1) that is involved in non-host resistance and R gene mediated resistance. *Mol Plant Pathol* 9: 25-36
49. Hirano T, Ito A, Berberich T, Terauchi R, Saitoh H. (2007) Virus-induced gene silencing of 14-3-3 genes abrogates dark repression of nitrate reductase activity in *Nicotiana benthamiana*. *Mol Genet Genomics* 278: 125-133
 50. Kusano T, Yamaguchi K, Berberich T, Takahashi Y (2007) The polyamine spermine rescues Arabidopsis from salinity and drought stresses. *Plant Sig Behav* 2: 251-252
 51. Kusano T, Yamaguchi K, Berberich T, Takahashi Y (2007) Advances in polyamine research at 2007. *J Plant Res* 120: 345-350
 52. Yamaguchi K, Takahashi Y, Berberich T, Imai A, Takahashi T, Michael AJ, Kusano T (2007) A protective role for the polyamine spermine against drought stress in Arabidopsis. *Biochem Biophys Res Comm* 352: 486-490
 53. Mitsuya Y, Takahashi Y, Uehara Y, Berberich T, Miyazaki A, Takahashi H, Kusano T (2007) Identification of a novel Cys2/His2-type zinc-finger protein as a component of a spermine-signaling pathway in tobacco. *J Plant Physiol* 164: 785-793
 54. Yamaguchi K, Takahashi Y, Berberich T, Imai A, Miyazaki A, Takahashi T, Michael A, Kusano T (2007) A protective role of the polyamine spermine to high salt stress in *Arabidopsis thaliana*. *FEBS Lett* 580: 6783-6788
 55. Lee SS, Yang SH, Berberich T, Miyazaki A, Kusano T (2006) Characterization of AtbZIP2, AtbZIP11 and AtbZIP53 from the group S basic region-leucine zipper family in *Arabidopsis thaliana*. *Plant Biotechnology* 23: 249-258
 56. Terauchi R, Bin Nasir KH, Ito A, Saitoh H, Berberich T, Takahashi Y (2005) High-throughput functional screening of plant and pathogen genes *in planta*. *Plant Biotechnology* 22: 455-459
 57. Uehara Y, Takahashi Y, Berberich T, Miyazaki A, Takahashi H, Matsui K, Ohme-Takagi M, Saitoh H, Terauchi R, Kusano T (2005) Tobacco ZFT1, a transcriptional repressor with a Cys2/His2 type zinc finger motif that functions in spermine-signaling pathway. *Plant Mol Biol* 59: 435-448
 58. Shimizu H, Sato K, Berberich T, Miyazaki A, Ozaki R, Imai R, Kusano T (2005) LIP19, a basic region leucine zipper protein, is a Fos-like molecular switch in the cold signaling of rice Plants. *Plant Cell Physiol* 46:1623-1634
 59. Berberich T, Takagi T, Ohtani M, Shimada T, Miyazaki A, Kusano T (2005) Production of mouse adiponectin, an anti-diabetic protein, in sweetpotato. *J Plant Physiol* 162:1169-1176
 60. In O, Berberich T, Romdhane S, Feierabend J (2005) Changes of gene expression during dehardening of cold-hardened winter rye (*Secale cereale* L.) leaves and potential role of a peptide methionine sulfoxide reductase for hardened leaves. *Planta* 220:941-950
 61. Takahashi Y, Uehara Y, Berberich T, Ito A, Saitoh H, Miyazaki A, Terauchi R, Kusano T (2004) A subset of hypersensitive response marker genes, including HSR203J, is the downstream target of a spermine signal transduction pathway in tobacco. *Plant J* 40:586-595
 62. Takahashi Y, Berberich T, Yamashita K, Uehara Y, Miyazaki A, Kusano T (2004) Identification of tobacco *HIN1* and two closely related genes as spermine-responsive genes and their differential expression during the *Tobacco mosaic virus*-induced hypersensitive response and during leaf- and flower senescence. *Plant Mol Biol* 54: 613-622
 63. Takahashi Y, Berberich T, Miyazaki A, Seo S, Ohashi Y, Kusano T (2003) Spermine signaling in tobacco: activation of SIPK and WIPK by spermine is mediated through mitochondrial dysfunction. *Plant J* 36: 820-829
 64. Yang SH, Berberich T, Sano H, Kusano T (2003) *Ntdin*, a tobacco senescence-associated gene, is involved in molybdenum cofactor biosynthesis. *Plant Cell Physiol* 44: 1037-1044
 65. Yang SH, Berberich T, Sano H, Kusano T (2001) Specific association of transcripts of *tbzF* and *tbz17*, tobacco genes encoding bZIP-type transcriptional activators, with guard cells of senescing leaves and/or flowers. *Plant Physiol* 127: 23-32
 66. Berberich T, Uebeler M, Feierabend J (2000) cDNA cloning of cytoplasmic ribosomal protein S7 of winter rye (*Secale cereale*) and its expression in low-temperature treated leaves. *BBA* 1492: 276-279
 67. Ohba H, Steward N, Kawasaki S, Berberich T, Ikeda Y, Koizumi N, Kusano T, Sano H (2000) Diverse response of rice and maize genes encoding homologs of WPK4, a wheat

- SNF1-related protein kinase, to light, nutrients, low temperature and cytokinins. *Mol Gen Genet* 263: 359-366
68. Berberich T, Sano H, Kusano T (1999) Involvement of a MAP kinase, ZmMPK5, in senescence and recovery from low-temperature stress in maize. *Mol Gen Genet* 262: 534-542 DOI.org/10.1007/s004380051115
 69. Berberich T, Harada M, Sugawara K, Kodama H, Iba K, Kusano T (1998) Two maize genes encoding w-3 fatty acid desaturase and their differential expression to temperature. *Plant Mol Biol* 36: 297-306
 70. Berberich T, Uebeler M, Feierabend J (1998) Cloning of a cDNA encoding a thioredoxin peroxidase (TPx) homolog from winter rye (*Secale cereale* L.). (PGR98-167) *Plant Physiol* 118: 711
 71. Kusano T, Sugawara K, Harada M, Berberich T (1998) Molecular cloning and partial characterization of a tobacco cDNA encoding a small bZIP protein. *BBA* 1395: 171-175
 72. Berberich T, Kusano T (1997) Cycloheximide induces a subset of low temperature-inducible genes in maize. *Mol Gen Genet* 254: 275-283 DOI:10.1007/s004380050416
 73. Berberich T, Sugawara K, Harada M, Kusano T (1995) Molecular cloning, characterization and expression of an elongation factor 1a gene in maize. *Plant Mol Biol* 29: 611-615 DOI.org/10.1007/BF00020988
 74. Kusano T, Berberich T, Harada M, Suzuki N, Sugawara K (1995) A maize DNA-binding factor with a bZIP motif is induced by low temperature. *Mol Gen Genet* 248: 507-517 DOI.org/10.1007/BF02423445
 75. Kusano T, Berberich T (1994) Low-temperature-induced genes and their function. *J. Brewing Soc Japan* 7: 505-512 (Review, in Japanese)
 76. Berberich T, Feierabend J (1994) The onset of 70S chloroplast ribosome formation is determined by an early heat-sensitive stage in the ontogeny of rye leaves. *Plant Cell Physiol* 35: 907-916 DOI.org/10.1093/oxfordjournals.pcp.a078676

Book chapters

1. Berberich T, Sagor GHM, Kusano T (2018) Abiotic Stress Phenotyping of Polyamine Mutants - In: Alcazar, R & Tiburcio, A (Eds.) *Polyamines, Methods and Protocols*, Springer Methods Mol Biol. 1694, pp. 389-403. DOI: 10.1007/978-1-4939-7398-9_32.
2. Kusano T, Sagor GHM, Berberich T (2018) Molecules for sensing polyamines and transducing their action in plants - In: Alcazar, R & Tiburcio, A (Eds.) *Polyamines, Methods and Protocols*, Springer Methods Mol Biol. 1694, pp. 25-35. DOI: 10.1007/978-1-4939-7398-9_2.
3. Berberich T, Sagor GHM, Kusano T (2015) Polyamines in Plant Stress Response. – In: Kusano, T. & Suzuki, H. (Eds.), *Polyamines, A Universal Molecular Nexus for Growth, Survival, and Specialized Metabolism*, pp 155-168.
4. Kusano T, Kim DW, Liu T, Berberich T (2015) Polyamine Catabolism in Plants. In: Kusano, T. & Suzuki, H. (Eds.), *Polyamines, A Universal Molecular Nexus for Growth, Survival, and Specialized Metabolism*, pp 77-88.
5. Thalor SK, Berberich T, Kusano T (2015) Polyamine Homeostasis in Plants: The Role(s) of Evolutionarily Conserved Upstream ORFs. In: Kusano, T. & Suzuki, H. (Eds.), *Polyamines, A Universal Molecular Nexus for Growth, Survival, and Specialized Metabolism*, pp 111-118.
6. Terauchi R, Win J, Kamoun S, Matsumura H, Saitoh H, Yoshida K, Shenton M, Berberich T, Fujisawa S, Ito A, Takano Y, Tosa Y (2009) A multi-faceted genomics approach toward understanding *Magnaporthe*-rice interactions. In: *Biology of Molecular Plant-Microbe Interactions* (Lorito M. ed.) Vol 6: APS Press
7. Terauchi R, Win J, Kamoun S, Matsumura H, Saitoh H, Kanzaki H, Yoshida K, Shenton M, Berberich T, Fujisawa S, Ito A, Takano Y, Tosa Y (2009) Searching for Effectors of *Magnaporthe oryzae*: A Multi-Faceted Genomics Approach. In: *Advances in Genetics, Genomics and Control of Rice Blast Disease* (Wang G-L & Valent B, eds.) Springer
8. Berberich T, Takahashi Y, Saitoh H, Terauchi R (2008) High-throughput functional screening of genes in planta. In: *The Handbook of Plant Functional Genomics* (Kahl G & Meksem K, eds.) Wiley-VCH

9. Feierabend J, Berberich T (1991) Heat-induced ribosome-deficiency of plastids - mechanism and applications. In: The Translational Apparatus of Photosynthetic Organelles. (Mache R, Stutz E, Subramanian AR, eds.) pp. 215-227. Springer