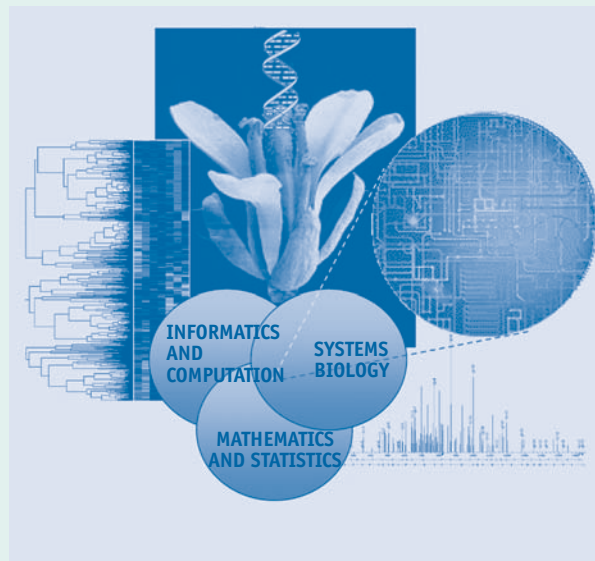


Functional Genomics

Plant genetic networks – from databases to computational modeling

Using a systems biology approach, we are modeling biochemical pathways and regulatory processes that affect plant function and development. Among the central biochemical pathways in plants, isoprenoid synthesis produces key molecules for cellular function and metabolites of pharmacological interest. Genetic or biochemical disruption of pathway flux triggers changes in gene expression and metabolite end products. We are linking databases to explore the interdependence of bio-chemical pathway information and regulatory networks. A similar approach is applied to cell cycle regulation, which is the basis for developmental and differentiation processes.

The complete analysis of the chloroplast proteome is at the frontiers of understanding the organelle as a functional system. Exploiting advanced technologies and computing algorithms, we are discovering many novel proteins. Their genetic characterization will provide important new information on chloroplast pathways. The combined knowledge from systems approaches will allow us to model and predict plant functions.



Research focus

- Pathway functional genomics
- Cell cycle and chromatin
- Biotechnology of crop improvement

Interdisciplinarity

- Functional genomics technologies
- Reverse engineering



Contact person

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Liste 1: Promotionsarbeiten

	Betreuer(in)	Doktorand(in) und Titel	Anzahl der Betreuer
1.	Hennig, Lars	Exner, Vivien;	3
2.	Hennig, Lars	Steinbach, Yvonne;	2
3.	Hennig, Lars	Alexandre, Christina;	2
4.	Hennig, Lars	Shu, Huan	2
5.	Hennig, Lars	Wildhaber, Thomas	2
6.	Hennig, Lars	Derkacheva, Maria	2
7.	Vanderschuren, Hervé	Moreno Cabrera, Isabel	2
8.	Vranova, Eva	Bhangu-Uhlmann, Andrea; The MVA Pathway - An approach to pathway monitoring in plant systems	2
9.	Vranova, Eva	Beck, Gilles	2
10.	Vranova, Eva	Coman, Diana	2
11.	Gruissem, Wilhelm	Diaz Qijano, Carolina;	2
12.	Gruissem, Wilhelm; Zeeman, Samuel	Herwig, Stefan	3
13.	Baginsky, Sacha	Reiland, Sonja;	2
14.	Baginsky, Sacha	Bischof, Sylvain	2
15.	Gruissem, Wilhelm	Gutzat, Ruben; Functional characterization of the Arabidopsis retinoblastoma related protein (RBR)	3
16.	Gruissem, Wilhelm	Matveeva, Elena; Biological functions of Retinoblastoma related protein of Arabidopsis thaliana	2
17.	Gruissem, Wilhelm	Faso, Carmen; Plant-based production of Cyanovirin-N, a cyanobacterial protein with anti-HIV properties	3

Liste 4: Forschungsprojekte

	Projekt-ID	Projektleiter	Titel
1.	6459	Gruissem, Wilhelm	Contributions to sustained food security in developing countries through genetic engineering with rice, wheat, cassava and Sorghum.
2.	6461	Gruissem, Wilhelm	Engineered fungus resistance for wheat
3.	6462	Gruissem, Wilhelm	Improvement of endogenous resistance against smut and bunt diseases in wheat.
4.	6463	Gruissem, Wilhelm	Analysis of putative fungal resistance genes in wheat.

5.	6466	Gruissem, Wilhelm; Zhang, Peng	Genetically engineered resistance to African Cassava Mosaic Virus in cassava (<i>Manihot esculenta</i> Crantz)
6.	6469	Gruissem, Wilhelm	Optimization of expression of transgenes for genetically engineered virus resistance for RTBV
7.	6471	Sautter, Christof; Gruissem, Wilhelm	Development of iron-rich rice with improved iron absorption in humans
8.	6472	Gruissem, Wilhelm; Zhang, Peng	Expression of storage protein genes and prolongation of leaf life in transgenic cassava
9.	6474	Zhang, Peng; Gruissem, Wilhelm	Prevention of premature leaf shed in cassava
10.	12007	Gruissem, Wilhelm	Regulation of growth in plants by prenyltransferases
11.	12012	Gruissem, Wilhelm	Cassava biotechnology
12.	12014	Gruissem, Wilhelm	Functional analysis of plant Retinoblastoma-related proteins
13.	12021	Gruissem, Wilhelm	Forschungseinblicke Genfakten
14.	12026	Gruissem, Wilhelm	Improvement of endogenous fungal resistance in swiss wheat varieties by foreign genes
15.	13593	Zhang, Peng	BioCassava Plus - Improving cassava for nutrition, health and sustainable development
16.	13617	Gruissem, Wilhelm; Zitzler, Eckart	System biology of stem cell function in <i>Arabidopsis thaliana</i>
17.	13618	Hennig, Lars	Functions of AtMSI proteins in controlling chromatin structures required for development
18.	13620	Sautter, Christof	Field evaluation of bunt-resistant wheat
19.	13623	Gruissem, Wilhelm	PhD training fellowship program for the Zurich-Basel Plant Science Center
20.	13625	Gruissem, Wilhelm	Proteome analysis of light-regulated chloroplast development and function
21.	13626	Zhang, Peng; Gruissem, Wilhelm	Development of cassava biotechnology tools
22.	13627	Gruissem, Wilhelm	Functional analysis of plant Retinoblastoma-related RBR proteins using <i>Arabidopsis</i> as a model system

Liste 5: Wissenschaftliche Publikationen

a) Referierte Publikationen				
	Publikations-ID	Autoren	Titel	Erschienen in
1.	41947	Alexandre, C., Hennig, L.	FLC or not FLC – the other side of vernalization	J Exp Bot
2.	41786	Baerenfaller, K., Grossmann, J., Grobei, M.A., Hull, R., Hirsch-Hoffmann, M., Yalovsky, S., Zimmermann, P., Grossniklaus, U., Gruissem, W. and Baginsky, S.	Genome-scale proteomics reveals Arabidopsis thaliana gene models and proteome dynamics.	Science
3.	41787	Baginsky S	Plant Proteomics: Concepts, applications and novel strategies for data interpretation.	Mass Spectrometry Reviews
4.	46815	Benhamed M., Martin-Magniette M.L., Tacconnat L., Bitton F., Servet C., De Clercq R., De Meyer B., Buyschaert C., Rombauts S., Villarroel R., Aubourg S., Benyon J., Bhalerao R., Coupland G., Gruissem W., Menke F., Weisshaar B., Renou J.P., Zhou D.X., Hilson P.	Genome-scale Arabidopsis promoter array identifies targets of the histone acetyltransferase GCN5	Plant Journal
5.	41785	Endler, A., Gerrits, B., Reiland, S., Baginsky, S. and Martinoia, E.	In vivo phosphorylation sites of tonoplast proteins from <i>Hordeum vulgare</i> identified by a phosphoproteomic approach.	Proteomics
6.	41944	Exner, V., Gruissem, W., Hennig, L.	Control of trichome branching by Chromatin Assembly Factor-1	BMC Plant Biol
7.	41949	Exner, V., Hennig, L.	Chromatin rearrangements in development	Curr Op Plant Biol
8.	41946	Exner, V., Hirsch-Hoffmann, M., Gruissem, W., Hennig, L.	PlantDB – a versatile database for managing plant research.	Plant Meth

9.	41926	Galichet A., Hoyerova K., Kaminek M., Gruissem W.	Farnesylation directs AtIPT3 subcellular localization and modulates cytokinin biosynthesis in Arabidopsis	Plant Physiology
10.	41796	Hruz T., Laule O., Szabo G., Wessendorp F., Bleuler S., Oertle L., Widmayer P., Gruissem W., Zimmermann P.	Genevestigator V3: A reference expression database for the meta-analysis of transcriptomes	Advances in Bioinformatics
11.	46817	Johnston A.J., Matveeva E., Kirioukhova O., Grossniklaus U., Gruissem W.	A dynamic reciprocal RBR-PRC2 regulatory circuit controls Arabidopsis gametophyte development	Current Biology
12.	41798	Luu VD, Fischer B, von Teichman A, Boysen G, Zimmermann P, Moch H, Schraml P	Linking Gene Expression Signatures with von Hippel-Lindau Gene Mutation Types in Clear Cell Renal Cell Carcinoma	Der Pathologe
13.	41925	Schöner D., Kalisch M., Leisner C., Meier L., Sohrmann M., Faty M., Barral Y., Peter M., Gruissem W., Bühlmann P.	Annotating novel genes by integrating sythetic lethals and genomic information	BMC Systems Biology
14.	41797	Zimmermann P, Laule O, Schmitz J, Hruz T, Bleuler S, Gruissem W	Genevestigator transcriptome meta-analysis and biomarker search using rice and barley gene expression databases.	Molecular Plant
c) Varia				
	Publikations-ID	Autoren	Titel	Erschienen in
1.	41950	Hennig, L.	The poetry of reproduction	Plant Mol Biol

Liste 6: Vorträge vor wissenschaftlichem Publikum

a) Eingeladene Vorträge vor wissenschaftlichem Publikum		
	Redner	Titel
1.	Baginsky, Sacha	Plant Proteomics: From Functional Proteomics to Genome Annotation, Les Diablerets, February 2008, Swiss Plant Molecular and Cell Biology Conference
2.	Baginsky, Sacha	Arabidopsis Proteomics: Ein Meilenstein fuer pflanzliche Systembiologie, Dabringhausen, February 2008, Pflanzenmolekularbiologie
3.	Baginsky Sacha	Plant Proteomics: From functional proteomics to genome anotation, Berlin, Mai 2008, Seminarvortrag
4.	Baginsky, Sacha	Plant Proteomics: From functional proteomics to genome annotation, Bochum, Juni 2008, Seminarvortrag
5.	Baginsky, Sacha	Functional Proteomics – A cornerstone in Systems Biology, Freiburg, September 2008, Berufungsverfahren W3-Functional Proteomics
6.	Zimmermann, Philip	Genevestigator: a reference expression database with discovery and validation tools for biologists, Berlin, 20.02.2008, Monthly meeting of the RNA Network Berlin
7.	Zimmermann, Philip	Modeling the spatio-temporal-response architecture of plant and animal transcriptomes using Genevestigator, Perth, 21.04.2008, Mundaring Weir Meeting
8.	Zimmermann, Philip	Genevestigator presentation and tutorial, Gatersleben, Germany, 21.05.2008.
9.	Zimmermann, Philip	OMICS in Arabidopsis: integration of transcriptome and proteome. Toulouse, France, 16.11.2008. EU-SOL Annual Meeting
10.	Zimmermann, Philip	Genevestigator: a reference expression database with discovery and validation tools for biologists. Cologne, Germany, 11.01.2008. Cologne Center for Genomics Meeting.
11.	Hennig, Lars	"Epigenetic control of flowering", France, Paris, 25.5.2008, Seminarvortrag
12.	Hennig, Lars	"Epigenetic control of flowering", Schweiz, Zurich, 25.5.2008, Trinational Arabidopsis Meeting
13.	Vranova Eva	Systems approaches to understand regulation of the isoprenoid pathway and its integration into the cellular gene network, Santa Clara, Cuba, April 23-25 2008, VIII International Symposium of Plant Biotechnology

14.	Wirth, Judith	Iron Bio-fortification Approaches in Rice by Genetic Engineering, Congress of the Federation of European Societies of Plant Biology (FESPB 2008) in Tampere, Finland on 17-22 August 2008.
15.	Fammartino, Alessandro	Torino (Italy), 24-29 Aug 2008, 9th international Congress of Plant Pathology
16.	Sautter, Christof	Potential of green gene technology for developing and threshold countries. Swiss Academy of Sciences, 6. Juni 2008, Bern, Schweiz
17.	Schlegel, K., Bull, S., Peter, N., Owiti, O., Moreno, I., Orek, C., Zhang, P., Gruissem, W. and Vanderschuren, H.	Easy and reproducible cassava transformation: the “quest for the Holy Grail” of the cassava biotechnology community. Global Cassava Partnership, Ghent, Belgium, 21-25 July 2008
18.	Moreno Isabel, Tomkins Jeffrey , Hurtado Paula , Okogbenin Emmanuel , and Fregene Martin	Progress in Positional Cloning of CMD2 the Gene that Confers High level of Resistance to the Cassava Mosaic Disease (CMD).GCP-1st Cassava meeting the challenges of the new millennium. Ghent, Belgium. July 21-25 2008.
19.	Moreno Isabel, Gruissem Wilhelm & Vanderschuren Hervé	Reducing the impact of Cassava Brown Streak Disease in African cassava fields: Evaluation of different strategies to engineer Cassava Brown Streak Virus (CBSV) resistance in Cassava (<i>Manihot esculenta</i>). How to ensure food security today and tomorrow? Agriculture in the face of new and urgent global needs. Zurich, Switzerland,December 12, 2008.
20.	Peng Zhang	Merging functional genomics into genetic breeding and biotechnology of cassava. In: Euphorbiaceae Workshop, Plant & Animal Genome XVI, Town & Country Hotel, San Diego, CA, USA, Jan. 12-16, 2008.
21.	Peng Zhang	Cassava biotechnology for bio-energy development. International Symposium on Bioenergy and Biotechnology. Huazhong Agricultural University, Wuhan, China. March 16-20, 2008.
22.	Peng Zhang, Yinong Tian, Jun Li and Kaimian Li	Cassava Breeding and Biotechnology for Bio-Energy Development in China. CIAT Cassava Harvest Workshop, March 26-28, 2008, CIAT, Cali, Colombia
23.	Peng Zhang	Biotechnology of cassava and sweet potato for bio-energy development. The 108th Eastern Forum of Science and Technology, Shanghai, April 17-18
24.	Peng Zhang	Cassava protein improvement. The Third BioCassava Plus Annual Meeting, Sheraton Hotel, Kampala, Uganda. April 19-23, 2008.

25.	Peng Zhang	The problems of cassava germplasm related to bioenergy application and strategic solutions. 2008 Symposium of Bioindustrial technology, Nanyang, July 4-6, 2008.
26.	Peng Zhang	Improvement of Transformation Efficiency from Somatic Cotyledons of Major Cassava Cultivars in China: Towards Development of Cassava Transformation for Industrial Applications. S9: Genetic Transformation. First scientific meeting of the Global Cassava Partnership, July 21-25, 2008, Gent, Belgium.
27.	Peng Zhang	Germplasms of cassava and sweet potato and standardization on cultivation. 2008 Biomass-Energy, Shanghai, Aug. 30-31, 2008
28.	Peng Zhang	Functional verification of anthocyanin biosynthetic genes in sweet potato. Annual Meeting of 973 Project "Metabolism and regulation of special nutrition in crops", Shanghai Jiaotong University, Sept. 27-28, 2008.
29.	Peng Zhang	Engineering cassava and sweetpotato for bioindustrial applications-A Chinese view. CAS-SSSTC Joint Workshop, Workshop B: Life Science. 18.11.2008, ETH Zurich, HG F33.4, Zurich, Switzerland.
30.	Vanderschuren, H., Alder, A., GUISSEM, W., Zhang, P.	Engineering RNA-mediated resistance to geminiviruses in cassava. BC+ meeting, Kampala, Uganda. 19-21 April 2008.
31.	Vanderschuren, H., Owiti, J., Moreno, I., Orek, C., Schlegel, K., Peter, N., Bull, S., Zhang, P., GUISSEM, W.	The contribution of biotechnology to problem solving in Africa : the case of cassava. International Conference on Research for Development (ICRD 2008), Bern, Switzerland, 2 – 4 July 2008
32.	GUISSEM, Wilhelm	Systems analysis of gene networks for chloroplast metabolic pathways, Nara (Japan), 7-11 October 2008, Japan-Swiss Workshop 2008
33.	GUISSEM, Wilhelm	Ernährungssicherheit: was ist erforderlich, um die globale Nahrungsmittelkette sicherzustellen?, Wien (Oesterreich), 31. Oktober 2008, Symposium der Deutschen Akademie der Naturforscher Leopoldina und der Österreichischen Akademie der Wissenschaften
34.	GUISSEM, Wilhelm	Integration of genome-scale proteome and gene expression information to explore metabolic pathway regulation, Riken (Japan), 7 - 9 June 2008, RAC Riken Advisory Council
35.	GUISSEM, Wilhelm	Genome-scale proteome and gene expression exploration of chloroplast development and metabolic networks, Taipei (Taiwan), 23-27 September 2008, Chloroplast Biology Symposium

36.	Gruissem, Wilhelm	Strategic Research Agenda; Plants for the Future", Bern, 14. März 2008, Vortragsreihe Schweizerische Gesesellschaft für Pflanzenbauwissenschaften
37.	Gruissem, Wilhelm	Cooperation in Integrative Research and Sustainable Solutions, Köln, 11. Februar 2008, Rheinländisches Kompetenzzentrum für Pflanzenwissenschaften
38.	Gruissem, Wilhelm	Metaprofiling of transcriptomes and proteomes: gene expression networks in time, space and response, Gatersleben Deutschland, 15. Januar 2008, Vortragsreihe
39.	Gruissem, Wilhelm	Plant science in Europe - Breaking new ground, Toulon (France), 22 June 2008, 4th EPSO Conference "Plants for Life"

b) Sonstige Vorträge und Posterpräsentationen vor wissenschaftlichem Publikum

	Redner	Titel
1.	Bhangu-Uhlmann, A	Isoprenoid biosynthesis - The regulatory network of the MVA pathway, Switzerland, Zurich, 10. - 13.09.2008, 5th Tri-National Arabidopsis Meeting
2.	Bhangu-Uhlmann, A.	Isoprenoid biosynthesis - Regulatory network of MVA pathway, Germany, Heidelberg, 15. – 18.11.2008, 4th EMBO conference: From functional genomics to systems biology
3.	Beck, Gilles	Regulation of the biosynthesis of isoprenoid in Arabidopsis - Analysis of the GGPP branch point, Switzerland, Zurich, 10-13/09/2008, 5th Tri-National Arabidopsis Meeting
4.	Coman, Diana	Metabolic network inference from systematic perturbation of isoprenoid pathways in Arabidopsis - analysis of the GGPP branch point, Switzerland, Zürich, 10.09.2008 - 13.09.2008, 5th Tri-National Arabidopsis Meeting
5.	Fammartino, Alessandro	Increased smut and bunt diseases resistance by a specific anti-fungal virus gene in genetically engineered wheat, 4th EPSO Conference "Plants for Life" Toulon (France) from 22 – 26 June 2008
6.	Bull, S. E., Page, M. T., Vanderschuren, H., Owiti, J. A., Zhang, P., Zeeman, S. C., Gruissem, W. & Beeching, J. R.	Post-harvest root deterioration : bringing the Green Revolution to cassava. How to ensure food security today and tomorrow? ETH Zurich, 12th December 2008.
7.	Bull, S. E., Page, M. T., Reilly, K., Zhang, P., Gruissem, W. and Beeching, J. R.	Cassava transformation to overcome root deterioration. Global Cassava Partnership, Ghent, Belgium, 21-25 July 2008

8.	Owiti, J., Beeching, J., Bull, S., Gehrig, P., Gruissem, W. & Vanderschuren, H.	Analysis of post-harvest physiological deterioration of cassava storage roots and identification of potential candidates for its modulation. How to ensure food security today and tomorrow? ETH Zurich, 12th December 2008
9.	Moreno Isabel, Gruissem Wilhelm & Vanderschuren Hervé	Evaluation of different strategies to engineer Cassava Brown Streak Virus (CBSV) resistance in Cassava (<i>Manihot esculenta</i>). D-BIOL Symposium, Davos, Switzerland, June 2-4 2008.
10.	Moreno Isabel, Gruissem Wilhelm & Vanderschuren Hervé	Evaluation of different strategies to engineer Cassava Brown Streak Virus (CBSV) resistance in Cassava (<i>Manihot esculenta</i>). GCP-1st Cassava meeting the challenges of the new millennium. Ghent, Belgium. July 21-25 2008.
11.	Judith Owiti, John Beeching, Peng Zhang, Wilhelm Gruissem & Hervé Vanderschuren	Analysis of Post-harvest Physiological Deterioration of Cassava Storage Roots and Identification of Potential candidates for its Modulation. D-BIOL symposium. Davos, Switzerland. June 2-4 2008.
12.	Judith Owiti, John Beeching, Peng Zhang, Jonas Grossmann, Peter Gehrig, Wilhelm Gruissem and Herve Vanderschuren	Analysis of Post-harvest Physiological Deterioration of Cassava Storage Roots and Identification of Potential candidates for its Modulation. Global Cassava Partnership 1st meeting (poster): The Institute of Plant Biotechnology for Developing Countries (IPBO)-Ghent, Belgium. July 21-25, 2008.
13.	Judith Owiti, John Beeching, Peng Zhang, Wilhelm Gruissem & Hervé Vanderschuren	Analysis of Post-harvest Physiological Deterioration of Cassava Storage Roots and Identification of Potential candidates for its Modulation. PhD Symposium of the Zürich - Basel Plant Science Center (poster): Plants + People, Mutual Dependence in the 21st century, PhD Symposium of the Zürich - Basel Plant Science Center, ETH Zurich, Switzerland. June 06 2008.
14.	Orek, C., Zhang, P., Gruissem, W., Morag, F., & Vanderschuren, H.	The gene expression associated with 'staygreen' characteristic for drought tolerance in cassava (<i>Manihot esculenta</i> Crantz). North-South Centre of the ETH Zurich and the Syngenta Foundation for Sustainable Agriculture: How to ensure food security today and tomorrow? Agriculture in the face of new and urgent global needs. Zurich, Switzerland. 12th, December, 2008.
15.	Orek, C., Zhang, P., Gruissem, W., Morag, F., & Vanderschuren, H.	The gene expression associated with 'staygreen' characteristic for drought tolerance in cassava (<i>Manihot esculenta</i> Crantz). First Scientific Meeting of the Global Cassava Partnership. Ghent, Belgium. 21st -25th, July, 2008.
16.	Orek, C., Zhang, P., Gruissem, W., Morag, F., & Vanderschuren, H.	The gene expression associated with 'staygreen' characteristic for drought tolerance in cassava (<i>Manihot esculenta</i> Crantz). Plants + People; Mutual Dependence in the 21st Century (Zurich-Basel Plant Science Centre Symposium). Zurich, Switzerland. 6th, June, 2008.

17.	Orek, C., Zhang, P., Gruissem, W., Morag, F., & Vanderschuren, H.	The gene expression associated with 'staygreen' characteristic for drought tolerance in cassava (<i>Manihot esculenta</i> Crantz). Annual North-South Center Conference: Water for development: Prospects for integrated water resources management. Zürich, Switzerland. 4th, June, 2008.
18.	Orek, C., Zhang, P., Gruissem, W., Morag, F., & Vanderschuren, H.	The gene expression associated with 'staygreen' characteristic for drought tolerance in cassava (<i>Manihot esculenta</i> Crantz). 7th D-BIOL Symposium, ETH-Zurich. Congress Centre, Davos, Switzerland. 2nd -4th, June, 2008.
19.	Vanderschuren, H., Alder, A., Gruissem, W., Zhang, P.	Engineering geminivirus resistance in cassava. Global Cassava Partnership 1st meeting (poster): The Institute of Plant Biotechnology for Developing Countries (IPBO)-Ghent,Belgium. July 21-25, 2008
20.	Gruissem, Wilhelm	Integration of Genome-scale proteome and gene expression information to explore metabolic pathway regulation, Zurich (Switzerland), 13 September 2008, 5th Tri-National Arabidopsis Meeting 2008
21.	Gruissem, Wilhelm	BioCassava Plus an Technical Bottlenecks, Kampala (Uganda), 21 April 2008, BioCassava Plus Meeting
22.	Gruissem, Wilhelm	Cassava Priority Settings, Gent (Belgium), 25 July 2008, Global Cassava Partnership Scientific Meeting

Liste 7: Gutachten

	Gutachter	Art des Gutachtens	Typ der anfordernden Organisation	Sitz der anfordernden Organisation	Anzahl
1.	Vranova, Eva	weitere	ETH Zürich / ETH Bereich	CH	1
2.	Baginsky, Sacha	Publikationen			5
3.	Hennig, Lars	Dissertation	ETH Zürich / ETH Bereich	CH	1
4.	Hennig, Lars	Publikationen			19
5.	Hennig, Lars	Projektanträge	öffentliche	Europa	2
6.	Sautter, Christof	Publikationen			5
7.	Sautter, Christof	Dissertation	ETH Zürich / ETH Bereich	CH	1
8.	Sautter, Christof	Diplomarbeit, Master-Arbeit	ETH Zürich / ETH Bereich	CH	1

9.	Gruissem, Wilhelm	Personen	Universität	Europa	3
10.	Gruissem, Wilhelm	Personen	Universität	Nordamerika	5
11.	Gruissem, Wilhelm	Projektanträge	Bundesstellen (-ämter)	Europa	2
12.	Gruissem, Wilhelm	Projektanträge	Forschungsinstitute	Europa	2
13.	Gruissem, Wilhelm	Projektanträge	Forschungsinstitute	Nordamerika	2
14.	Gruissem, Wilhelm	Projektanträge	Forschungsinstitute	Asien	3
15.	Gruissem, Wilhelm	Projektanträge	Universität	Asien	4
16.	Gruissem, Wilhelm	Publikationen			11
17.	Gruissem, Wilhelm	Dissertation	ETH Zürich / ETH Bereich	CH	3
18.	Gruissem, Wilhelm	Diplomarbeit, Master-Arbeit	ETH Zürich / ETH Bereich	CH	2

Liste 11: Organisierte Kongresse

	Organisator(en)	Titel	Ort	Teilnehmerzahl
1.	Gruissem, Wilhelm; Zeeman, Samuel; Messerli Gaëlle; Bischof Sylvain	Tri-National Arabidopsis Meeting 2008 (TNAM 2008)	Zürich, ETH HG E3	150
2.	Gruissem, Wilhelm; Zeeman, Samuel; Fitzpatrick, Teresa	Symposium in honor of Prof. Nikolaus Amrhein and Prof. Klaus Apel	Zürich, ETH Auditorium Maximum	180
3.	Sautter, Christof	Feuerbrandbekämpfung in der Schweiz. Traditionelle Lösungen oder Gentechnologie? 13. Juni 2008	Schweiz, Zürich, ETHZ	120

Liste 12: Kommissionsarbeit

	Kommissionsmitglied	Neu	Typ Kommission	Typ Organisation	Sitz	Anzahl
1.	Baginsky, Sacha; Gutachter einer Systembiologie-Ausschreibung des BMBF	Nein	Advisory Board	Bundesstellen (-ämter)	Europa	1
2.	Gruissem, Wilhelm	Nein	Planungskommission	ETH Zürich / ETH Bereich	CH	1
3.	Gruissem, Wilhelm	Nein	Berufungskommission	ETH Zürich / ETH	CH	3

				Bereich		
4.	Gruissem, Wilhelm; Leitender Ausschuss	Nein	weitere Kommissionen	ETH Zürich / ETH Bereich	CH	4
5.	Gruissem, Wilhelm	Nein	Fachkommissionen	ETH Zürich / ETH Bereich	CH	2
6.	Gruissem, Wilhelm	Nein	Advisory Board	Universität	Nordamerika	1
7.	Gruissem, Wilhelm	Nein	Advisory Board	Universität	Asien	2
8.	Gruissem, Wilhelm	Nein	Advisory Board	Forschungsinstitute	Asien	2
9.	Gruissem, Wilhelm	Nein	Advisory Board	Bundesstellen (- ämter)	Europa	3
10.	Gruissem, Wilhelm, European Research Commission (ERC)	Nein	Forschungskommission	andere	Europa	2
11.	Gruissem, Wilhelm	Nein	Advisory Board	Forschungsinstitute	Europa	4
12.	Gruissem, Wilhelm	Nein	Advisory Board	öffentliche	CH	1
13.	Gruissem, Wilhelm	Nein	Editorial Board	private	Nordamerika	2
14.	Gruissem, Wilhelm	Nein	Editorial Board	Privatfirmen / Industrie	Europa	1
15.	Gruissem, Wilhelm	Nein	Advisory Board	Privatfirmen / Industrie	Nordamerika	2
16.	Hennig, Lars	Ja	Berufungskommission	ETH Zürich / ETH Bereich	CH	1

Liste 13: Öffentlichkeitsarbeit

a) Presseartikel	
	Bezeichnung
1.	Sautter, Christof. "Das Genmoratorium ist eine blosse Attrappe", Neue Züricher Zeitung (NZZ), Nr. 116, Seite 19, 21. Mai 2008
2.	Gruissem, Wilhelm. "Können GVOs die Nahrungskrise stoppen?", SonntagsZeitung, 27. April 2008
3.	Gruissem, Wilhelm. "Weniger Schweizer Studierende", Basler Zeitung, 9. Dezember 2008
4.	Gruissem, Wilhelm. "Der Versuch läuft schon längst", SonntagsZeitung, 30. März 2008
5.	Gruissem, Wilhelm. "Eine Vision für den Schweizer Pflanzenbau im Jahr 2050", Agrarforschung, 10. Juli 2008
6.	Gruissem, Wilhelm. "Der Gentech-Vertreter", Basler Zeitung, 21. Februar 2008
7.	Gruissem, Wilhelm. "Hinter dem Gentech-Feld lebt die Bio-Idylle", Basler Zeitung, 19. Juli 2008
8.	Gruissem, Wilhelm. "Attacke auf Feld mit Genweizen", Der Landbote, 14. Juni 2008

b) Vorträge vor nicht-wissenschaftlichen Gremien

	Bezeichnung
1.	Sautter, Christof. Pflanzenversuche mit GVO im Freiland. Sondertag "Ethik und Naturwissenschaft", Gymnasium Oberwil bei Basel (Schweiz), 28. August 2008
2.	Sautter, Christof. Plädoyer für eine pragmatische Forschung. Seniorenuniversität Zürich, Irchel, 9. Dezember 2008
3.	Sautter, Christof. Grüne Gentechnik oder Bio? Seniorenuniversität Winterthur, 26. März 2008, ZH Winterthur
4.	Sautter, Christof. Grüne Gentechnologie im Grünen Bereich? Forschung im Spannungsfeld widersprüchlicher gesellschaftlicher Forderungen. 18. Februar 2008, Stuttgart, Deutschland
5.	Gruissem, Wilhelm, Food Security: the role of science in a sustainable food supply chain., World Food Security Forum SwissRe, Rüschlikon, 29 October 2008
6.	Gruissem, Wilhlem. Food Security - What do we need to do to secure a global food supply chain? SwissRe Senior Executive Event, Vitznau, 12 September 2008
7.	Gruissem, Wilhelm. Biotechnologie: Chance oder Risiko für die Schweiz?, Lions Meeting, Rest. Löwen Hausen, 24. Januar 2008
8.	Gruissem, Wilhelm. Gennfood auf dem Teller, ETH Science City, 1. Juni 2008

c) Andere Veranstaltungen

	Bezeichnung
1.	Sautter, Christof. 30 min Radio-Interview mit Finn Cannonica. Talk im DRS4, 26. April 2008
2.	Sautter, Christof. Teilnahme an moderierter Podiumsdiskussion "Ethik und Naturwissenschaft", Gymnasium Oberwil bei Basel (Schweiz), 28. Aug. 2008
3.	Gruissem, Wilhelm. NFP 59 öffentliche Führungen, Forschungsanstalt Reckenholz, 21. Juni 2008