

PBM8 Nagoya 2015 - Status of oral presentations: G = general lecture (45'); K = keynote (30'); L = long (20'); R = regular (15'); Y = medium for YSF (12.5'); S = short (5' + poster)							
nb	status	Speaker	country	institution & city	Full abstract title	Author list	session
<b>Monday 30 November 2015</b>							
<b>08:00-08:45 Registration and reception</b>							
<b>08:45-10:30</b>							
<b>Welcoming address</b>							
1	G	Hidetoshi Iida	JP	Tokyo Gakugei U.	Molecular aspects of mechanosensitive channels in plants	H. Iida	Opening lecture
2	G	Bruno Moulia	FR	LERFoB Inra Nancy	Reverse Plant Biomechanics: from wood technology to plant mechanobiology, the example of reaction-wood and tropisms	B. Moulia, M. Fournier	
<b>10:30-11:00 Coffee break</b>							
<b>11:00-12:40</b>							
3	K	Lionel Dupuy	UK	James Hutton Inst.	Physical factors affecting root growth and interactions with the soil environment	L. Dupuy, A.G. Bengough	Root
4	R	Jie Yan	CN	Chongqing U.	Modeling of helix morphology of Arabidopsis primary root extending through agar medium with low mechanical strength	J. Yan, B.C. Wang, X.Y. Yang	
5	R	Rosemary Dyson	UK	U. Birmingham	Multiscale modelling of plant root growth	R. Dyson, J. Chakraborty	
6	S	Michitaka Notaguchi	JP	Nagoya U.	Development of on-chip physical characterization method for root growth	H. Hida, K.a Ozoe, I. Kanno, T. Higashiyama, M. Notaguchi	
7	S	Youra Hwang	KR	Seoul Nat. U.	Cell wall-associated ROOT HAIR SPECIFIC 10, a pro-rich receptor-like kinase, is a negative modulator in Arabidopsis root hair growth	Y. Hwang, M. Park, H. Lee, H.T. Cho	
8	S	Nathan Hervieux	FR	LRDP ENS Lyon	A mechanical feedback channels sepal growth and shape in Arabidopsis	N. Hervieux, A.L. Routier-Kierzkowska, M. Dumond, S. Tsugawa, C.B. Li, T. Komatsuzaki, R. Smith, A.H.K. Roeder, A. Boudaoud, O. Hamant	Growth dynamics & morphogenesis
9	S	Sarah Robinson	CH	U. Bern	Quantification of the mechanical properties of growing Arabidopsis hypocotyls	S. Robinson, M. Huflejt, P. Saxena, C. Kuhlemeier	
10	S	Sandra Natonik	PL	U. Silesia Katowice	Heterogeneity vs symplasticity of leaf epidermis growth in transgenic Arabidopsis exhibiting perturbed cell cycle and differentiation	S. Natonik, J. Elsner, D. Kwiatkowska	
11	S	Ugai Watanabe	JP	Chiba IT	Variation of gene expression of tubulin isotypes in the tree cambium	U. Watanabe, H. Abe, N. Futamura, K. Shinohara, R. Funada, S. Nakaba, Y. Yamagishi	
12	S	Daeun Ki	KR	Seoul Nat. U.	Functional conservation of the M3 phosphorylation site in Arabidopsis long PINs for their polarity and biological roles	D. Ki, H.T. Cho	
13	S	Hyodong Lee	KR	Seoul Nat. U.	Expansin-mediated cell wall modification system to understand the mechanism from cell wall dynamics to cellular processes	H. Lee, H.T. Cho	
<b>12:40-14:00 Poster session and lunch break</b>							
<b>14:00-15:30</b>							
14	K	Olivier Hamant	FR	LRDP ENS Lyon	Mechanical conflicts in growth heterogeneity	O. Hamant	Growth dynamics & morphogenesis
15	R	Ibrahim Cheddadi	FR	VirtualPlant Inria Montpellier	Coupling physiology and mechanics in multicellular models of plant growth	I. Cheddadi, V. Baldazzi, N. Bertin, M. Génard, C. Godin	
16	R	Mariya Ptashnyk	UK	U. Dundee	Multiscale modelling of plant cell wall biomechanics: interactions between mechanical properties and chemical processes	M. Ptashnyk, B. Seguin	
17	R	Hirofumi Wada	JP	Kyoto U.	Mechanical basis for the helical pattern in twisting mutants of Arabidopsis	H. Wada	
18	R	Matilde Dumond	FR	LRDP ENS Lyon	The role of memory-less tissue mechanics in the robustness of morphogenesis in plants	M. Dumond, O. Hamant, A. Boudaoud	
<b>15:30-16:00 Coffee break</b>							

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<b>16:00-17:25</b>							
19	K	Kazuhiko Nishitani	JP	Tohoku U.	Actions of XTH family of enzymes in construction and remodeling of the plant cell wall	H. Kuki, N. Shinohara, R. Yokoyama, T. Higaki, S. Hasezawa, N. Sunagawa, K. Igarashi, S. Tamura, M. Ueda, K. Nishitani	Mechanosensing
20	R	Firas BouDaher	UK	U. Cambridge	Stop and Go: cell wall pectin controls growth magnitude in the elongating hypocotyl	F. Bou Daher, M. Aita, Y.J. Chen, S.A. Braybrook	
21	S	Bruno Moulia	FR	PIAF Inra Clermont	Quantification and comparison of phototropic and gravitropic sensitivities of three hardwood species by original isotropic light devices and model-assisted phenotyping	C. Coutand, B. Adam, S. Ploquin, D. Lopez, B. Moulia	
22	S	Valérie Legué	FR	PIAF Inra Clermont	Cytosolic calcium increases in response to a change in the positioning of gravisensors: results from space experiments	V. Pereda-Loth, J. Gérard, F. Bizet, V. Legué	
23	S	Nathalie Leblanc-Fournier	FR	PIAF Inra Clermont	Involvement of a wall associated kinase after gravistimulation in poplar stems	K. Tocquard, N. Brunel, J. Franchel, N. Fournier-Leblanc, J.S. Venisse, P. Roeckel-Drevet	
24	S	Aki Nakamura	JP	Tokyo Gakugei U.	Identification of proteins that potentially interact with Ca <sup>2+</sup> -permeable mechanosensitive channels MCA1 and MCA2 in Arabidopsis	A. Nakamura, H. Iida	
25	S	Gilles Pilate	FR	AGPF Inra Orléans	Integration of transcriptomic and proteomics approaches in characterizing short-term gravi-perception signaling networks in poplar wood	N. Richet, M. Mauriat, M.C. Lesage-Descauses, O. Rogier, F. Laurans, S. Huguet, S. Balzergue, N. Lapalu, G. Pilate, C. Coutand, C. Plomion, J.C. Leple	
26	S	Masatoshi Taniguchi	JP	Nagoya U.	DGE1, DGE2 and DTL genes are involved in gravity signaling in gravity sensing cells of <i>Arabidopsis</i>	M. Taniguchi, K. Baba, A. Yuasa, M. Tasaka, M.T. Morita	
27	S	Hideto Hiraide	JP	Nagoya U.	A laccase gene is involved in compression wood lignification of <i>Chamaecyparis obtusa</i>	H. Hiraide, M. Yoshida, S. Sato, K. Ihara, Matsuo, H. Yamamoto	
28	S	Pauline Durand-Smet1	FR	LMSC U. Paris 7	Quantitative evaluation of feedback mechanisms between cell shape and cytoskeleton organization	P. Durand-Smet, A. Sampathkumar, E. Meyerowitz	
<b>17:25-18:00 Poster session and coffee break</b>							
<b>18:00-19:30</b>							
29	R	Haruko Ueda	JP	Kyoto U.	An actin-myosin XI cytoskeleton determines plant posture by regulating organ straightening	H. Ueda, T. Shimada, K. Tamura, M.T. Morita, I. Hara-Nishimura	Mechanosensing
30	R	Geoffroy Guena	FR	IUSTI Marseille	A universal mechanism for hydraulic signals generation in natural and artificial branches	J-F. Louf, G. Guena, E. Badel, Y. Forterre	
31	R	Yasmine Meroz	US	Harvard U.	A minimal model for plant tropisms as a noisy sensorimotor system	Y. Meroz, R. Bastien, L. Mahadevan	
32	R	Olivier Pouliquen	FR	IUSTI Marseille	On the role of gravity in shoot gravisensing	H. Chauvet, O. Pouliquen, Y. Forterre, V. Legué, B. Moulia	
33	R	V Bonnesoeur	FR	LERFoB Inra Nancy	Tree acclimation to wind in a dense beech forest to investigate how mechanical cues are filtered and modify radial growth.	V. Bonnesoeur, T. Constant, M. Fournier, B. Moulia	
34	R	Nathalie Leblanc-Fournier	FR	PIAF Inra Clermont	Secondary growth regulation by strains induced by wind: from stem structure to gene expression	E. Badel, N. Leblanc-Fournier, J. Franchel, M. Decourteix, C. Coutand, B. Moulia	

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<b>Tuesday 1 December 2015</b>							
<b>09:00-10:30</b>							
35	R	Eran Sharon	IL	Hebrew U. Jerusalem	The intermittent nature of leaf growth fields	E. Sharon, S. Armon	<b>Kinematics and statics of growth</b>
36	R	Tobias Baskin	US	U. Massachusetts	On the stability of the growth pattern in the root	T.I. Baskin	
37	R	Felix Hartmann	FR	LERFoB Inra Nancy	Control of the kinematics of wood formation by a morphogenetic gradient	F.P. Hartmann, C.B.K. Rathgeber, M. Fournier, B. Moulia	
38	R	Dmitry Suslov	RU	St. Petersburg State U.	Cell wall basis of rhythmical growth changes in <i>Arabidopsis</i> hypocotyls	A. Ivakov, A. Flis, F. Apelt, M. Fünfgeld, F. Kragler, U. Scherer, M. Stitt, K. Vissenberg, S. Persson, D. Suslov	
39	R	Julien Derr	FR	LMSC U. Paris 7	Interplay between nutation and leaf development with or without gravity	J. Derr, L. Laffond, M. Rivière, A. Peaucelle, S. Douady	
40	R	Dorota Kwiatkowska	PL	U. Silesia Katowice	Stress distribution in the cell wall – why does the innermost wall layer buckle after stress removal?	D. Kwiatkowska, M. Lipowczan, D. Borowska-Wykręt, S. Natonik	
<b>10:30-11:00 Coffee break</b>							
<b>11:00-12:40</b>							
41	K	Peter Lucas	KU	Kuwait U.	Tooth wear of mammals and plant foods	P. W. Lucas, A. van Casteren, A. G. Henry, K. Al-Fadhalah, A. S. Almusallam, S. Michael, L. A. Thai, A. Shekeban, J. Watzke, S. Philip, B. W. Wright, D. S. Strait, A. G. Atkins	<b>Mechanics of cells to organs</b>
42	R	Anja Geitmann	CA	U. Montreal	The mechanics of invasive cellular growth	A. Sanati Nezhad, M. Ghanbari, C.G. Agudelo, M. Packirisamy, A. Geitmann	
43	R	Hugh Woolfenden	UK	John Innes C. Norwich	Inference of material properties from guard cell dynamics	H.C. Woolfenden, M. Kopischke, S. Robatzek, R.J. Morris	
44	S	Suhaiza Hanim Hanipah	MY	U. Putra Malaysia, Serdang	Micromechanics of oil palm fibres with silica bodies	S.H. Hanipah, F.N. Omar, L.X. Xiang, M.A.P. Mohammed, A.S. Baharuddin, J. Abdullah	
45	S	Marcin Lipowczan	PL	U. Silesia Katowice	Surface growth quantification of puzzle-shaped epidermal cells with subcellular resolution	M. Lipowczan, J. Elsner, D. Kwiatkowska	
46	S	Mathieu Rivière	FR	LMSC U. Paris 7	Morphogenetic motions: a tool to study growth in leaves	M. Rivière, J. Derr, A. Peaucelle, S. Douady	
47	S	Michal Sahaf	IL	Hebrew U. Jerusalem	Stress-induced changes in the mechanical properties of leaves	M. Sahaf, E. Sharon	
48	S	Vaclav Sebera	CZ	Mendel U. Brno	Analysis of strain transfer from xylem to bark with use of DIC	V. Sebera, J. Kunecký, L. Praus, J. Tippner, D. Ševčík, . Horáček, Š. Surňák	
49	S	Kiyosada Kawai	JP	Kyoto U.	Division of labor in leaf functions among vein orders: an example of <i>Fagaceae</i>	K. Kawai, N. Okada	
50	S	Frédéric Mabile	FR	IATE Montpellier	Chemical treatment for the degradation of the mechanical properties of miscanthus stems to facilitate fragmentation	F. Mabile, A. Sadoudi, C. Barron	
51	S	Christophe Baley	FR	LIMatB Lorient	Influence of genetic pool on the stem microstructure and the lodging stability of flax	C. Baley, A. Bourmaud	
<b>12:40-14:00 Poster session and lunch break</b>							

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<b>14:00-15:30</b>							
52	K	Niels Anten	NL	Wageningen U.	Strong or flexible: some ecological aspects of plant resistance to mechanical stress.	N. Anten, S. Puijalon, F. Sterck, Y. Onoda	<b>Structural integrity and functions of plants</b>
53	R	Thierry Fourcaud	FR	AMAP Montpellier	Modelling tree anchorage and estimating different contributing factors	M. Yang, P. Défossez, F. Danjon, T. Fourcaud	
54	R	Jan Tippner	CZ	Mendel U. Brno	Marker-tracking analysis of tree trunk deflection and root plate movement during pulling test	J. Tippner, V. Sebera, L. Praus, D. Ševčík, J. Cepela, M. Brabec	
55	K	Barbara Lachenbruch	US	Oregon State U.	It's cool but what's it for? Multifunctionality and interpretation of function	B. Lachenbruch	
<b>15:30-16:00 Coffee break</b>							
<b>16:00-17:25</b>							
56	R	Alain Bourmaud	FR	LIMatB Lorient	Impact of the seeding rate on flax stem stability and fiber mechanical properties	A. Bourmaud, C. Baley	<b>Wood formation and growth strains</b>
57	S	Douglas Cook	AE	New York U. Abu Dhabi	Structural role of the leaf sheath	M. Julias, D. Robertson, D. Cook	
58	S	Margaret Julias	AE	New York U. Abu Dhabi	Forensic analysis of stalk failure in maize	M. Julias, D. Robertson, B.W. Gardunia, D. Cook	
59	S	Delphine Jullien	FR	LMGC U. Montpellier	Numerical study of the stress distribution in bending trees: analysis of the effects of shear stress and maturation stress on tree resistance against wind loading	D. Jullien, T. Almeras	
60	K	Yoon Soo Kim	KR	Chonnam Nat. U.	Heterogeneity of cell wall in relation to wood quality	F. Xu, Z. Ji, X. Zhang, Y.S. Kim	
61	S	Takahisa Hayashi	JP	Tokyo U. Agric.	Occurrence of xyloglucan in poplars for wind and earthquake	R. Kaida, E. Obataya, M. Yoshida, F. Ishiguri, J. Tanabe, T. Taniguchi, M. Kurita, K. Baba, T. Hayashi	
62	S	Nicholas Davies	NZ	U. Canterbury	Screening eucalyptus for growth strain	N. Davies, M. Sharma, C. Altaner, L. Apiolaza	
63	S	Kana Yamashita	JP	FFPRI Tsukuba	Gradient of residual stress within logs affecting deformation of sawn timber	K. Yamashita, T. Fujiwara, Y. Ikami, Y. Matsumura, H. Kato, M. Matsuo, H. Yamamoto	
64	S	Sandrine Bardet	FR	LMGC U. Montpellier	Modelling Hygrothermal recovery of wood in relation with locked-in strains during tree life	S. Bardet, J. Gril	
65	S	Thiery Constant	FR	LERFoB Inra Nancy	Retrospective analysis over ten years of the static loading of beech tree crowns based on allometric relationships between branch dimensions and biomass distribution	T. Constant, J.B. Morisset	
<b>17:25-18:00 Poster session and coffee break</b>							
<b>18:00-19:30</b>							
66	K	Tancrede Almeras	FR	LMGC U. Montpellier	The motor function of wood: mechanisms underlying the generation of maturation stress during cell-wall formation	T. Almeras	
67	R	Bruno Clair	GF	EcoFoG Kourou	Modifications in the cell wall during the development of tension wood in a G-layer and a non-G-layer species	B. Clair, S.S. Chang, J.R. Roussel, F. Quignard, J. Beauchêne, T. Alméras	
68	R	Gilles Pilate	FR	AGPF Inra Orléans	Evaluation of non-cellulosic polysaccharide distribution in differentiating and mature poplar tension wood fibres: abundance of rhamnogalacturonan I, presence of acetylated glucomannan and absence of xyloglucan in the G-layer	F.T.P. Guedes, F. Laurans, B. Quemener, A. Secerovic, C. Assor, N. Boizot, J. Vigouroux, M.C. Lesage-Descauses, J.C. Leplé, A. Déjardin, G. Pilate	
69	K	Yan San Huang	TW	Nat. Chung Hsing U.	Biomechanical aspect of stem movement and the growth strains in monocotyledonous giant bamboo	Huang YS, Lee CM, Hung LF, Hsu LF, Chang HT and Kuo-Huang LL	

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<b>Wednesday 2 December 2015</b>							
<b>09:00-10:30</b>							
70	R	Mahmoud Fakih	FR	AMAP Montpellier	Analysis of the mechanical interaction between a growing root and a granular substrate using the Discrete Element Method	M. Fakih, J.Y. Delenne, F. Radjai, T. Fourcaud	<b>Tools and Cell-wall polymers</b>
71	R	Frédéric Mabilie	FR	IATE Montpellier	Mapping of the structure of a corn kernel by three complementary experimental techniques	F. Mabilie, A. Sadoudi, T. Ruiz, R. Sidiboulouar, C. Coillot	
72	R	Iris Brémaud	FR	LMGC U. Montpellier	Use of vibrational properties to categorize the different types of wood within trees - as compared to interspecific diversity	I. Brémaud, . Cabrolier	
73	R	Brigitte Chabbert	FR	FARE Inra Reims	Nanocharacterization of chemical and mechanical properties of plant cell walls and lignocellulosic bioinspired assemblies	B. Chabbert, L. Muraille, B. Bercu, V. Aguié-Béghin, M. Molinari	
74	R	Lennart Salmén	SE	Innventia Stockholm	Role of lignin in the structure of wood fibres	L. Salmén	
75	R	Karol Kulasinski	CH	EMPA Zurich	Water sorption in S2 layer: role of the crystalline-amorphous interface	K. Kulasinski, R. Guyer, D. Derome, J. Carmeliet	
<b>10:30-11:00 Coffee break</b>							
<b>11:00-12:30</b>							
76	S	Merve Özparpucu	CH	IFB Zürich	Micromechanical and structural characterization of genetically modified poplar	M. Özparpucu, M. Rüggeberg, I. Burgert	<b>Wind &amp; other</b>
77	S	Olivier Arnould	FR	LMGC U. Montpellier	Experimental characterization of hydrogel swelling under plant cell wall environment	C. Assor, F. Quignard, T. Almeras, O. Arnould	
78	S	Daniel Robertson	AE	New York U. Abu Dhabi	Nondestructive predictors of stalk and stem strength	D. Robertson, M. Julias, S.Y. Lee, D. Cook	
79	K	John Moore	NZ	SCION Rotorua	Impacts of wind loading on tree form and wood properties	J. Moore	
80	R	Barry Gardiner	FR	ISPA Inra Bordeaux	Plant wind damage	B. Gardiner, B. Moulia, P. Berry	
81	R	Dominique Derome	CH	EMPA Zurich	Integrating trees and vegetation in urban microclimate simulations: a multiscale approach	D. Derome, T. Defraeye, J. Allegrini, J. Carmeliet	
82	S	Toby Jackson	UK	U. Oxford	Modelling trees response to wind forcing using terrestrial LiDAR data	T. Jackson, P. Raunonen, A. Shenkin, Y. Malhi	<b>Internal fluid dynamics</b>
83	S	Natalya Kizilova	UA	Kharkov Nat. U.	Evolutionary optimization of fluid transportation systems in plant leaves	N. Kizilova	
84	S	Hanna Rademaker	DK	T.U. Denmark, Copenhagen	Diffusion and bulk flow of sugar and water in leaves I: experiments	H. Rademaker, K.E. Villumsen, K.H. Jensen, H.J. Martens, A. Schulz, T. Bohr	
<b>12:35-14:00 Poster session and lunch break</b>							
<b>14:00-15:30</b>							
85	R	Tomas Bohr	DK	T.U. Denmark, Copenhagen	Diffusion and bulk flow of sugar and water in leaves II: theory	T. Bohr, H. Rademaker, K.E. Villumsen, K.H. Jensen, H.J. Martens, J. Dölger, J. Liesche, A. Schulz	<b>Internal fluid dynamics</b>
86	K	Mel Tyree	CN	Northwest A&F U.	An overview of tensile water in living and dead cells: The role of negative pressure in water transport and in the water balance of leaves.	M. Tyree, D. Yang, Y. Ding	

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87	K	Jiro Sakamoto	JP	Kanazawa U.	Seeding strategy of the autochore plant and bursting mechanism of the fruits	J. Sakamoto, Y. Endo, K. Ito	Plant motion
88	R	Hidetoshi Kobayashi	JP	Osaka U.	Geometry in closing motion of leaflet of sensitive plant ( <i>Mimosa pudica</i> )	H. Kobayashi, K. Horikawa, N. Tominaga, T. Yamauchi	
<b>15:30-16:00 Coffee break</b>							
<b>16:00-17:30</b>							
89	S	Mitsuhiro Aida	JP	Nara IST	Carpel closure by protodermal tissue adhesion in <i>Arabidopsis thaliana</i>	R. Tsujino, A. Yokoi, H. Ichikawa, M. Iwano, S. Takayama, M. Aida	Plant motion
90	S	Koji Ito	JP	Kanazawa U.	Seed ejection simulation of autochore plant fruit in case of <i>Japonica orixa</i>	K. Ito, J. Sakamoto	
91	S	Denis Terwagne	BE	Fac. Sciences Brussels	Curving the fold, an actuation mechanism for plant reconfiguration	J. Segers, D. Terwagne	
92	R	Markus Rüggeberg	CH	IFB Zürich	Smart wooden actuators	M.Rüggeberg, C.Vailati, M. Hassani, F.Wittel, I.Burgert	Biomimetics
93	R	Antoine Le Duigou	FR	LIMatB Lorient	Pine cone as a source of inspiration for moisture induced self-shaping flax/PP biocomposite	A. Le Duigou, M. Castro	
94	R	Olga Speck	DE	U. Freiburg	Wound reactions of herbaceous plants	O. Speck, S. Anandan, C. Paul-Victor, A. Cegna, K. Schmauder, A. Rudolph, T. Speck	
95	R	Thomas Speck	DE	U. Freiburg	Bio-inspiration by plants for construction technology and architecture: a short overview of recent work in the CRC 141	T. Speck	
96	S	Goerg Bauer	DE	U. Freiburg	Energy dissipation in plants – from puncture resistant seed coats to impact resistant tree barks	G. Bauer, S. Schmier, M. Thielen, T. Speck	
97	S	Toshiko Furukawa	JP	Tokyo Metropolitan U.	A model of plant and microbe symbiosis: ricardian approach	T.Furukawa, T. Iimura	
98	S	Marc Thielen	DE	U. Freiburg	How the pomelo peel ( <i>Citrus maxima</i> ) absorbs impact energy by distributing stresses	M. Thielen, T. Speck	
<b>17:30-18:00 Poster session and coffee break</b>							
<b>18:30-21:00 Banquet</b>							

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<b>Thursday 3 December 2015</b>							
<b>09:00-10:30</b>							
99	L	Simon Poppinga	DE	U. Freiburg	New insights into the passive nastic motions of pine cone scales and false indusia in ferns	S. Poppinga, T. Speck	Young scientist Forum - Motion & morphogenesis
100	Y	Holger Bohn	DE	U. Freiburg	A passionate climber: functional morphology and biomechanics of the adhesive tendrils in <i>Passiflora discophora</i>	H.F. Bohn, F. Günter, S. Schmier, S. Fink, T. Speck	
101	Y	Valeria Hernández-Hernández	MX	U. Nat. Autónoma de México	Biophysical dynamic module for the polarization of auxin efflux carriers PIN-FORMED (PIN)	V. Hernández-Hernández, N. Nakayama, A. Garay1, R. Barrio, C. Villarreal, E. R Alvarez-Buylla, M. Benítez	
102	Y	Alexis Peaucelle	FR	LMSC U. Paris 7	Cellular asymmetry in wall elasticity, triggers growth symmetry breaking and cell expansion rate in the <i>Arabidopsis</i> hypocotyl	A. Peaucelle, R. Wightman, H. Höfte	
103	Y	Pauline Durand-Smet2	US	CalTech, California	Mechanics of single plant cells	P. Durand-Smet, N. Chastrette, A. Guirouy, A. Richert, A. Berne-Dedieu, M. Bendahmane, J.M. Frachisse, O. Hamant, A. Boudaoud, A. Asnacios	
104	Y	Darshil Shah	UK	U. Cambridge	Probing the role of xylan in irreversible deformation of stems of <i>Arabidopsis thaliana</i>	D. Shah, T. Reynolds, M. Busse-Wicher, L. Yu, P. Dupree, M. Ramage	
105	Y	Anne-Lise Routier-Kierzkowska	DE	MPI Cologne	Making the mechanics visible: micro-indentation on a confocal microscope	A.L. Routier-Kierzkowska, A. Weber, A. Sapala, T. Ruetti, G. Mosca, R.S. Smith	
<b>10:00-11:00 Coffee break</b>							
<b>11:00-12:40</b>							
106	Y	Marie Capron	JP	Nagoya U.	Mechanical characterization of developing tension wood fibre wall by atomic force microscopy	M. Capron, M. Ramonda, F. Laurans, B. Clair, T. Almeras, O. Arnould	Young scientist Forum - Wood and other lignified tissues
107	Y	Barbara Ghislain	GF	EcoFoG Kourou	Does anatomical diversity of tension wood reflect diversity of mechanisms to generate stress?	B. Ghislain, J. Engel, B. Clair	
108	Y	Douglas Cook	AE	New York U. Abu Dhabi	The influence of tissue and morphology on stalk bending stresses	D. Cook, D. Robertson, S.Y. Lee, G. Von Forell	
109	Y	Linnea Hesse	DE	U. Freiburg	Using MRI for analyzing the anatomy and biomechanics of monocotyledons	T. Masselter, L. Hesse, N. Spengler, J.G. Korvink, T. Speck	
110	Y	Pierre Cabrolier	FR	LMGC U. Montpellier	From biomechanics to material behavior of <i>Buxus sempervirens</i> L. An angiosperm forming compression wood	P. Cabrolier, I. Brémaud	
111	Y	Miyuki Matsuo	JP	Nagoya U.	Relationships between growth stress and hygrothermal recovery of compression wood	M. Matsuo, K. Nomi, Y. Suzuki, N. Yamashita, G. Niimi, M. Yoshida, H. Yamamoto	
112	Y	Estelle Noyer	FR	LERFoB Inra Nancy	Are old beech poles able to react to heavy thinning? And how does growth response affects pole biomechanics?	E. Noyer, J. Dlouha, C. Collet, M. Fournier	
113	Y	Kazuki Nanko	JP	FFPRI Tsukuba	Simulation of tree deformation of Japanese black pine caused by temporally varied wind	K. Nanko, S. Suzuki, H. Noguchi, H. Hagino, A. Ogura, Y. Ishida, H. Matsumoto, H. Takimoto, T. Sakamoto	
<b>12:50-14:00 Lunch break</b>							

PBM8 Nagoya 2015 - Status of oral presentations: G = general lecture (45'); K = keynote (30'); L = long (20'); R = regular (15'); Y = medium for YSF (12.5'); S = short (5' + poster)							
nb	status	Speaker	country	institution & city	Full abstract title	Author list	session
<b>14:00-15:30</b>							
114	K	Jonathan Wilson	US	Haverford Coll.	Physiology and biomechanics of extinct plants	J. Wilson	Plant Biomechanics and 500 million history of land plant evolution
115	L	John P Moore	ZA	I. Wine Biotech Stellenbosch	Arabinose-rich polymers as an evolutionary strategy to plasticize resurrection plant cell walls against desiccation: a case study of the woody angiosperm <i>Myrothamnus flabellifolia</i>	J.P. Moore, E. Nguema-Ona, M. Vicré-Gibouin, I. Sørensen, W.G.T. Willats, A. Driouich, J. Farrant	
116	L	Yusuke Onoda	JP	Kyoto U.	A novel method quantifying stiffness of epidermis and mesophyll layers reveals leaves have a highly efficient sandwich structure	Y. Onoda, F. Schieving, N.P.R. Anten	
117	L	Masato Yoshida	JP	Nagoya U.	Diversity of gymnosperm reaction wood anatomy and growth stress	T. Shirai, M. Matsuo, L. Abubakar Mhd, M. Yoshida, H. Yamamoto	
<b>15:30-16:00 Coffee break</b>							
<b>16:00-17:30</b>							
118	K	Hideyuki Takahashi	JP	Tohoku U.	Root tropisms for plant adaptation to terrestrial environment: gravitropism vs. hydrotropism	H. Takahashi	
119	L	Rivka Elbaum	IL	Hebrew U. Jerusalem	Hygroscopically coiling cells in a grass – <i>Stipa capensis</i>	Y. Abraham, S. Kumar, Y. Silberberg, R. Elbaum	
120	L	Derek Gray	CA	McGill U., Montreal	Vascular structure of leaf petioles	D.G. Gray	
121	L	Nick Rowe	FR	AMAP Montpellier	Evolution of herbs and woodiness	N. Rowe	
<b>17:30-18:30</b>							
<b>Award and closing ceremony</b>							
<b>Friday 4 December 2015</b>							
<b>Post-conference visits</b>							