

Banding patterns in plant chromosomes. II. Bibliography (1970-1980) — *Anthophyta*

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Abstract

The bibliography deals mainly with papers published from 1970 until 1980. Some of them published before 1970 are also included. The list of periodicals, which served for this bibliography is given in Appendix 1.

Key words: bibliography, banding patterns, Anthophyta

INTRODUCTION

The present paper is a summary of results of banding pattern studies in flowering plant chromosomes. This method has been applied for about ten years, thus papers published from 1970 until 1980, it means from the beginning of application of this method are included.

Some papers published before 1970 are also listed in the bibliography. They are: 1) the first papers dealing with fluorescence techniques in the study of plant chromosomes (15, 16, 17); 2) papers concerning studies of what is called "cold-induced regions" (CIR) — obtained after treatment of chromosomes with low temperature (30, 31, 39, 40, 88); and 3) studies of heterochromatin segments (H-segments) — appearing after treatment of chromosomes with a mixture of hot HCl and acetic acid (224, 225).

Included are also references from the reviewed papers.

In 1973 Nilsson (163) published a review summarizing the results of studies of the heterochromatin banding pattern in human, animal and plant chromosomes. In Nilsson's bibliography only 13 papers involve plants. Most of them are included in the present bibliography.

Appendix 1 lists the periodicals which are basis for the present paper. Unfortunately several of them are incomplete for the lack of some particular annuals. Abbreviations used in the present paper are given in Appendix 2.

Genera and species within them are listed alphabetically. The nomenclature of genera and species as well as comments dealing with techniques and kind of bands agree with those used by authors of the particular papers.

The notation "sp." in the alphabetic list means, that the author has no information about the species.

Various kinds of bands are described by the present author in the first part of this paper (152).

<i>Actaea species</i>	fluor.	17
<i>Adoxa moschatellina</i>	C-band	77
<i>Aegilops bicornis</i>	Giem. C-band	161
<i>longissima, sharonensis</i>	Giem. C-band	161
<i>speltoides, squarrosa</i>	Giem. N-band	59
	Giem. C-band	161
<i>variabilis</i>	Giem. N-band	93
<i>Allium acuminatum,</i>		
<i>albidum</i>	Giem. C-band, fluor.	43
<i>altaicum, aobanum</i>	Giem. C-band, fluor.	253
<i>ascalonicum</i>	Giem. C-band, fluor.	253
<i>caeruleum</i>	Giem. C-band	91
<i>carinatum</i>	Giem.	262
	Giem. C-band	43
	Hy-band	71
	fluor.	244, 245, 262
<i>cepa</i>	Giem. C-band	42, 43, 60, 177, 253
	Giem.	54, 110, 219, 221
	Giem.	222, 235, 280
	C-band	24, 49, 50, 58, 220,
		223
	Giem. N-band	218
	Hy-band	70, 71, 72
	fluor.	4, 17, 43, 244, 253
<i>cernuum</i>	Giem. C-band, fluor.	43
<i>erdelii</i>	Giem. C-band, fluor.	5
<i>farreri</i>	Giem. C-band, fluor.	43
<i>fistulosum</i>	Giem. C-band	42, 43, 253
	C-band	50
	fluor.	43, 253
<i>flavum</i>	Giem. C-band	43, 134
	Giem.	249
	Hy-band	71, 72
	fluor.	43, 249
<i>galanthum</i>	Giem. C-band	42, 43, 253
	fluor.	43, 253

<i>ledebourianum</i>	Giem. C-band, fluor.	253
<i>moly</i>	Giem. C-band, fluor.	5
<i>montanum</i>	Giem. C-band, fluor.	43
<i>neapolitanum</i>	Giem. C-band, fluor.	5
<i>oleraceum</i>	Giem. C-band, fluor.	43
<i>oreophilum</i>	Giem. C-band, fluor.	5, 43
<i>oschaninii</i>	Giem. C-band, fluor.	253
<i>paniculatum</i>	C-band, fluor.	254, 256
<i>paradoxum</i>	Giem. C-band, fluor.	5, 43
<i>proliferum</i>	C-band	49, 50
<i>pulchellum</i>	Giem. C-band, fluor.	43, 256
	C-band	256
	fluor.	246, 256, 260
<i>ramosum, rotundum</i>	Giem. C-band, fluor.	43
<i>sativum</i>	Giem. C-band	60
	Giem.	176, 184
	Fl. Silv.	184
<i>schoenoprasum</i>	Giem. C-band, fluor.	253
<i>subhirsutum</i>	Giem. C-band, fluor.	5
<i>trifoliatum</i>	Giem. C-band, fluor.	43
<i>ssp. hirsutum, trifolia-</i> <i>tum</i>	Giem. C-band, fluor.	5
<i>triquetrum</i>	Giem. C-band, fluor.	5, 43
<i>tuberosum</i>	Giem. C-band, fluor.	43
<i>vavilovii</i>	Giem. C-band, fluor.	43, 253
<i>wakegii</i>	Giem. C-band, fluor.	253
<i>zebdanense</i>	Giem. C-band, fluor.	5
<i>Aloë vera</i>	Giem. C-band	60
<i>Anacyclus clavatus</i>	Giem. C-band	41, 203
' <i>coronatus</i> ', <i>depressus</i>	Giem. C-band	203
<i>latealatus, linearilobus</i>	Giem. C-band	41
<i>maroccanus, monanthos</i>	Giem. C-band	41
<i>nigellifolius,</i>	Giem. C-band	41
<i>x officinarum</i>		
(cultivated)	Giem. C-band	41
' <i>purpurascens</i> ',		
<i>pyrethrum</i>	Giem. C-band	203
<i>pyrethrum</i> var.		
<i>depressus</i>	Giem. C-band	41
<i>pyrethrum</i> var.		
<i>pyrethrum</i>	Giem. C-band	41
<i>radiatus</i> var. <i>coronatus,</i>	Giem. C-band	41
var. <i>purpurascens,</i>	Giem. C-band	41
var. <i>radiatus</i>	Giem. C-band	41

<i>valentinus</i>	Giem. C-band	41, 203
<i>Anemone blanda</i>	Giem. C-band	136, 138, 141, 196, 201
	fluor.	201
<i>coronaria, cylindrica</i>	Giem. C-band	141
<i>pavoniana, riparia</i>	Giem. C-band	141
<i>virginiana</i>	Giem. C-band	141
<i>Arabidopsis thaliana</i>	Giem. C-band	1
<i>Aster ageratoides</i> (group)	—	142
<i>Avena longiglumis, pilosa</i>	ASG, BSG	277
<i>prostrata,</i>	ASG, BSG	277
<i>strigosa</i>	ASG, BSG	277
	Giem. C-band	276
<i>ventricosa, wiestii</i>	ASG, BSG	277
<i>Bellevalia dubia</i>	Giem. N-band	26
<i>Beta vulgaris</i>	C-band	97
	Giem., Orc.	96
<i>Beta</i> sp.	Car.-Giem.	95
<i>Brimeura amethystina</i>	fluor.	258
<i>fastigiata</i>	fluor.	258
<i>Brodiaea uniflora</i>	Giem.	235
<i>Chrysanthemum lineare</i>	Giem.	235
<i>makinoi, nipponicum</i>	Giem.	235
<i>Cephalanthera</i>		
<i>damasonium</i>	Giem. C-band	193
<i>longifolia</i>	Giem. C-band	193
<i>Corchorus capsularis</i>	Giem.	2
<i>olitorius</i>	Giem.	2
<i>Crepis capillaris</i>	Fl., Irc., Cold	33, 34
	ASG	195, 235
	C-band	234, 236
	fluor.	17
<i>Crinum glaucum, jagus</i>	fluor.	266
<i>macowani, natans</i>	fluor.	266
<i>purpurascens,</i>	fluor.	266
<i>zeylanicum</i>	fluor.	266
<i>Cucumis sativus</i>	Cold, Car.	240
<i>Cycas revoluta</i>	Giem. C-band	232
<i>Cymbidium</i> (hybrid)	Giem. C-band,	204
	Fl. fluor.	204
<i>Cypripedium debile</i>	Giem., fluor.	275
	Orc., F. green	274
	HCl	272, 273
<i>Dipsacus fullonum</i>	fluor.	23

<i>Elaeagnus angustifolia</i>	Fl. C-band	3
var. <i>orientalis</i> ,	Fl. C-band	3
<i>commutata</i>	Fl. C-band	3
<i>Fritillaria imperialis</i>	Hy-band	70
<i>lanceolata</i>	Giem.	195
	Cold	116, 135
<i>meleagris</i>	Hy-band	71
	Giem.	195
<i>recurva</i>	Giem.	195
<i>Fritillaria</i> sp.	Giem.	114, 115
<i>Geropogon glaber</i>	fluor.	28
<i>Gibasis consorbina</i>	Giem. C-band	103
<i>karwinskyana</i>	Giem. C-band	103
<i>Ginkgo biloba</i>	Giem. C-band	232
<i>Glycine max</i>	Giem.	117
<i>Haemanthus albiflos</i>	Fl. C-band, fluor.	264
<i>albomaculatus</i>	Fl. C-band, fluor.	264
<i>carneus, coccineus</i>	Fl. C-band, fluor.	264
<i>hyalocarpus, nelsonii</i>	Fl. C-band, fluor.	264
<i>pubescens, rotundifolius</i>	Fl. C-band, fluor.	264
<i>tigrinus</i>	Fl. C-band, fluor.	264
<i>Haplopappus gracilis</i>	Giem.	271, 235
	—	100
<i>Haplopappus</i> sp.	—	233
<i>Hepatica nobilis</i>	Giem. C-band	141
<i>Heterotropa dissita</i>	Giem.	235
<i>Hippophaë rhamnoides</i>	C-band	175
<i>Hordeum agriocrithon</i>	Giem. C-band	255
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<i>brevisubulatum</i>	Giem. C-band	133
<i>bulbosum</i>	Giem. C-band	255
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<i>roshevitzii</i>	Giem. C-band	133
<i>spontanum, secalinum</i>	Giem. C-band	255
<i>vulgare</i>	Giem. C-band	178, 255
'Emir'	Giem. C-band	128
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	Giem. C-band	165, 166, 255
	C-band	132
	HCl	162
<i>Hyacinthus</i> sp.	fluor.	17, 278
<i>Iris tuberosa</i>	Hy-band	72
<i>Lathyrus aphaca, cicer</i>	Giem. C-band	122

<i>clymenum</i>	Giem. C-band	122
	O-band	120
<i>latifolius</i>	C-band	25
<i>maritimus</i>	Giem. C-band	122
<i>ochrus</i>	C-band	25
<i>odoratus</i>	Giem. C-band	119, 122
	O-band	120
<i>sativus</i>	Giem. C-band	122
	O-band	120
<i>sphaericus, sylvestris</i>	Giem. C-band	122
<i>tingitanus</i>	C-band	112
<i>tuberosus</i>	Giem. C-band	122
<i>Lens culinaris</i>	Giem.	110
<i>Leopoldia comosa</i>	Giem.	9
<i>Lilium candidum</i>	fluor.	17
<i>henryi</i>	Silv.	101
<i>lancifolium</i>	C-band	217
<i>longiflorum</i>	C-band	89, 107, 108, 109
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<i>martagon</i>	fluor.	17
<i>pardalinum</i>	C-band, fluor.	107, 109
<i>speciosum</i> ,	Silv.	101
<i>speciosum x henryi</i>	Silv.	101
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<i>Lolium temulentum</i>	Giem.	237
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<i>Luzula multiflora</i>	Giem. C-band	172
<i>purpurea</i>	Giem. C-band	172, 173
<i>Melandrium dioicum</i>	fluor.	102
<i>Najas marina</i>	Giem. C-band,	243
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<i>Nicotiana</i> sections:		
<i>Acuminatae, Alatae</i>	HCl, lbf + Car.	149
<i>Bigelovianae, Genuinae</i>	HCl, lbf + Car.	149
<i>Noctiflorae, Nudicaules</i>	HCl, lbf + Car.	149
<i>otophora</i>	C-band	150
sections: <i>Paniculatae</i>	HCl, lbf + Car.	149
<i>Repandae, Rusticae</i>	HCl, lbf + Car.	149
<i>Suaveolentes</i> ,	HCl, lbf + Car.	149
<i>Thyrsiflorae</i>	HCl, lbf + Car.	149
<i>Trigonophyllae</i> ,	HCl, lbf + Car.	149
<i>Tomentosae</i>	HCl, lbf + Car.	149

<i>Undulatae</i>	HCl, lbf + Car.	149
<i>Nigella arvensis</i>	Giem. C-band	65
<i>damascena</i>	Giem. C-band	65, 106, 137
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	fluor.	156
<i>doerfleri</i>	Giem.	140
<i>hispanica, integrifolia</i>	Giem. C-band	65
<i>orientalis, sativa</i>	Giem. C-band	65
<i>Ornithogalum caudatum</i>	fluor.	197, 199, 200, 201
<i>montanum</i>	Giem. N-band	26
	fluor.	14
<i>oliganthum</i>	—	263
<i>seineri</i>	fluor.	259
<i>virens</i>	Giem. N-band	218
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	C-band	69, 223
<i>Paeonia tenuifolia</i>	Giem.	54
<i>Paris polyphylla</i>	Cold	30
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<i>Pennisetum typhoides</i>	Giem. C-band	167
<i>Petunia hybrida</i>	fluor.	215, 216
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	Giem. fluor.	198
<i>Pinus densiflora</i>	Giem. C-band	232
<i>mugo</i>	fluor.	201
<i>Pisum sativum</i>	fluor.	17
<i>Plantago ovata</i>	C-band	220
<i>Polygonatum odoratum</i>	Giem. C-band	126
<i>Puschkinia scilloides</i>	C-band	75, 78
<i>Ranunculus ficaria</i>	Giem.	139
<i>japonicus</i>	Giem.	235
<i>Rhoeo discolor</i>	Giem. N-band	218
	Giem.	219
	C-band, fluor.	160
<i>Scadoxus katherinae</i>	Fl. C-band, fluor.	264
<i>magnificus, multiflorus</i>	Fl. C-band, fluor.	264
<i>natalensis, puniceus</i>	Fl. C-band, fluor.	264
<i>Scilla amoena</i>	Giem. Hy-band	72
	Giem. C-band	80
<i>bifolia, drunensis</i>	Giem.	79, 80

<i>hohenackeri</i> (group),	C-band	75, 78
<i>persica</i>	C-band	75, 78
<i>ingridae</i> ,	Giem. C-band	80
<i>mischtschenkoana</i>	Giem. C-band	80
<i>mordakiae</i>	Giem. C-band	80
<i>sibirica</i>	Giem. C-band	80, 257
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	C-band, Fl.	248
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	Hy-band	71
	fluor.	17, 47, 183, 197, 199
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	—	210
<i>afghanicum</i>	Giem. C-band	7
<i>anatolicum</i>	Giem.	207
	Giem. C-band	7
	Az-e	19
<i>ancestrale</i>	Giem. C-band	7
<i>cereale</i>	Giem.	151, 188, 189, 190, 207
	Giem.	211, 212, 214, 250, 265
	Giem. C-band	7, 125, 159, 178, 179, 196, 209
	C-band	67, 68, 74, 206, 223, 239
	Giem. N-band	57
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	Az-e	19
<i>dighoricum</i>	Giem. C-band	7
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	C-band	83
	Az-e	19
<i>montanum</i>		
ssp. <i>dalmaticum</i>	Giem. C-band	7
ssp. <i>kuprianovii</i>	Giem. C-band	7
ssp. <i>montanum</i>	Giem. C-band	7
<i>segetale</i>	Giem.	207
	Giem. C-band	7
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<i>silvestre</i>	Giem.	212
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	Az-e	19
<i>vavilovii</i>	Giem. C-band	7, 256
	Giem.	212, 214
<i>anatolicum</i>		
<i>x kuprianovii</i>	Az-e	208
<i>cereale x vavilovii</i>	Az-e	208
<i>dighoricum</i>	Az-e	19, 208
<i>x montanum</i>		
<i>vavilovii x montanum</i>	Az-e	208
<i>Secale</i> sp.	Giem.	111, 207, 213, 238, 242, 265, 269, 279
	Giem. C-band	37, 61, 94, 182, 270
	C-band	8, 66, 87, 127
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<i>Shepherdia argentea</i> ,	Fl. C-band	3
<i>canadensis</i>	Fl. C-band	3
<i>Solanum chacoense</i>	Giem.	124
<i>Solanum</i> sp.	Giem.	123, 154
<i>Spiranthes sinensis</i>	Giem.	235
<i>Suaeda maritima</i>	Giem.	235
<i>Tradescantia edwardsiana</i>	Giem. N-band	218
<i>Tragopogon crocifolius</i>	fluor.	28
<i>dubius</i>	Giem. fluor.	29
<i>eriospermus, porrifolius</i>	fluor.	28
<i>pratensis</i>	Giem. fluor.	29
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	Giem., Fl., C-band	18
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<i>kamtschaticum</i>	Giem.	230, 241
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	Fl., Giem., Silv.	241
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<i>rhombifolium</i>	Cold, Fl.	81
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<i>sessile</i>	Cold	31, 39, 40
<i>smallii, stylosum</i>	Cold	31, 39, 40
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	C-band	8, 87, 158, 174
	Fl.	268
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	Giem. N-band	59, 93
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<i>dicoccum</i>	Giem. C-band	161
	Giem. N-band	59
<i>durum</i>	Giem. N-band	59
<i>monococcum</i>	Giem. C-band	62, 161
	Giem. N-band	59
<i>speltoides, tauschii</i>	Giem. C-band	62
<i>turgidum</i> cv. '20'	Giem. C-band	84
<i>uratron</i>	Giem. N-band	59
<i>Triticum</i> sp.	Giem. C-band	64
	Giem.	151, 269
	C-band	8, 83, 85, 159
<i>Triticum</i> x <i>Hordeum</i>	N-band	92
<i>Triticale</i> x <i>Secale cereale</i>	C-band	99
<i>Tulbaghia alliacea</i>	fluor.	244, 246, 260
<i>cernua</i>	Cold, Fl.	252
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<i>leucantha</i>	fluor.	246, 251, 262
	Giem. C-band	256
	Giem.	262
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	fluor.	47
<i>Vicia bithynica,</i>	C-band	25
<i>dasycarpa</i>		
<i>faba</i>	Giem. C-band	13, 106, 168, 172, 178
	Giem. N-band	26, 57
	N-band	143, 191

	Giem.	35, 54, 195, 231, 235, 261, 280
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<i>hybrida, lutea</i>	C-band	25
<i>melanops</i>	C-, N-, Hy-band,	27
	fluor.	27
<i>pannonica</i>	C-band	25
<i>sativa</i>	O-band	118
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	Giem. N-band	57
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APPENDIX 1

LIST OF JOURNALS

Acta Botanica Sinica (1973-1980)
 Acta Horti Pisani (1970-1978/79)
 Acta Phytotaxonomica Sinica (1974-1980)
 American Journal of Botany (1970-1980)
 Annali di Botanica (1970/71-1980)
 The Botanical Magazine, Tokyo (1970-1980)
 Botaniska Notiser (1970-1980)
 Canadian Journal of Genetics and Cytology (1970-1980)
 Caryologia (1970-1980)
 Chromosoma (1970/71-1980)
 Crop Science (1970-1980)

Current Science (1970-1980)
 Cytology (USSR) (1970-1980)
 Experimental Cell Research (1970-1980)
 Genetica (Netherlands Journal of Genetics) (1970-1980)
 Genetica (USSR) (1970-1980)
 Giornale Botanico Italiano (1970-1980)
 Hereditas (1970—1980)
 Journal of Heredity (1970-1980)
 Journal of Cell Science (1970-1980)
 Proceedings of the Academy of Natural Sciences of Philadelphia
 (1972-1980)
 Protoplasma (1970-1980)
 Plant Systematics and Evolution (1970-1980)
 Taxon (1970-1980)

APPENDIX 2

THE LIST OF ABBREVIATIONS USED IN DESCRIPTION OF BANDING METHODS

ASG — acetic acid, saline, Giemsa
 Az-c — azacytidin
 Az-e — azure eosin
 BSG — barium hydroxide, saline, Giemsa
 Car — carmine
 Car-Giem — carmine-Giemsa
 Cold — cold-induced
 F. green — fast green
 Fl. — Feulgen
 fluor. — fluorescence techniques
 FPG — fluorescence plus Giemsa
 Giem. — Giemsa techniques
 HCl — hot muriatic acid
 lbf+Car — leuco-basic fuchsin plus carmine
 Orc — orceine
 Silv. — silver
 TCA — trichloroacetic acid
 — — not mentioned method

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Wzory prążkowe chromosomów roślinnych. II. Bibliografia (1970-1980) — Anthophyta

Streszczenie

Niniejsza bibliografia zawiera głównie literaturę dotyczącą wzorów prążkowych na chromosomach roślinnych, opublikowaną w latach 1970-1980. Została również włączona większość pozycji opublikowanych przed 1970 rokiem. Spis czasopism, które były podstawą do sporządzonej bibliografii jest zamieszczony w dodatku nr 1.

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