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**Prostaglandins and
Related Compounds
Vol. 21A**

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and Leukotriene Research
Volume 21A

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Editors

Bengt Samuelsson, M.D.

*Department of Physiological
Chemistry
Karolinska Institutet
Stockholm, Sweden*

Peter W. Ramwell, Ph.D.

*Department of Physiology and
Biophysics
Georgetown University Medical
Center
Washington, D.C.*

Rodolfo Paoletti, M.D.

*Istituto di Scienze Farmacologiche
Università di Milano
Milan, Italy*

Giancarlo Folco, Ph.D.

*Istituto di Scienze Farmacologiche
Università di Milano
Milan, Italy*

Elisabeth Granström, M.D.

*Department of Reproductive Endocrinology
Karolinska Hospital
Stockholm, Sweden*

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Preface

Volumes 21A and 21B of *Advances in Prostaglandin, Thromboxane, and Leukotriene Research* contain the papers presented at the Seventh International Conference on Prostaglandins and Related Compounds held in Florence, Italy, on May 28–June 1, 1990. The conference showed the vitality of this broad area of research and its impact on both basic research and clinical medicine.

Arachidonic acid is metabolized by oxygenation and further transformations after release from cell membranes. The derivatives include prostaglandins, thromboxanes, leukotrienes, lipoxins, and other oxygenated compounds. The release and transformation of arachidonic acid serves to transform various signals to the cells into biological responses. These processes are of importance not only in the normal physiology of cells, but also in many pathophysiological mechanisms. Therefore, there is a growing interest in developing drugs related to the formation and action of prostaglandins and related compounds.

Considerable progress was reported in the area of leukotriene antagonists during the conference. The respiratory, cardiovascular, renal, nervous, and endocrine systems were given extensive coverage, as were the topics of biosynthesis and metabolism of eicosanoids and the molecular biology of prostaglandins. Other sections dealt with cytochrome P-450 and arachidonic acid metabolism, platelet-activating factor and its antagonists, eicosanoids and their role in inflammation, immunology and allergy, dietary and tissue precursors, and the control of precursor release. Blood cells, cytoprotection, and cell differentiation and proliferation were also discussed.

In addition to a section devoted entirely to cancer, a round table was held on eicosanoids in cancer cell metastasis. Round tables were also held on cytokines and lipid mediators, as well as on the new frontiers in prostaglandin therapeutics.

We hope that this volume on prostaglandins and related compounds will serve as reference work for medical researchers and clinicians involved in the areas described above.

The Editors

Acknowledgments

We would like to express our gratitude to all the staff of the Fondazione Giovanni Lorenzini for their important work in connection with the conference. We are also grateful to Drs. F. Berti and S. Nicosia, the organizing and advisory committees, and the international program committee for their valuable contributions. It is also a pleasure to acknowledge the generous financial support from a number of pharmaceutical companies.

We hope that the rapid publication of this volume, which was made possible by the prompt submission of the papers by the authors, will further stimulate the development of this exciting area of research.

The Editors

Contributors

A

Abe, M., 715
 Abraham, Nader G., 185
 Åfors, L., 529
 Agnelli, G., 917
 Ahmed, Y., 807
 Ajana, F., 975
 Alberico, P., 711
 Alecozay, A. A., 819
 Alessandrini, P., 707
 Allegrucci, M., 917
 Amano, Toshikazu, 847
 Amici, C., 867
 Amodio, P., 689
 Amon, I., 793
 Amruthesh, S. C., 201
 Anderson, W. H., 503
 Anfossi, G., 789
 Angeli, P., 689
 Änggård, Anders, 89
 Antoine, Catherine, 319
 Aoyama, H., 569
 Arduino, C., 789
 Arita, H., 277,363
 Arm, Jonathan P., 415
 Armstrong, R. A., 375
 Asmis, Reto, 249
 Atsmon, J., 887
 Austen, K. Frank, 481
 Austin, J., 667
 Axelrod, L., 659
 Ax:son Johnson, Hélène, 663

B

Babini, G., 789
 Badr, Kamal F., 125,683
 Bahl, A. K., 513
 Bakhle, Y. S., 113
 Balazy, Michael, 323
 Barrios, C., 41

Barrow, S. E., 351,557
 Baxendale, P. M., 303
 Bazan, Nicolas G., 323
 Beckman, Barbara S., 831
 Beckmann, R., 591
 Beesley, J. S., 815
 Ben-Efraim, S., 879
 Benjamin, N., 351
 Bennett, A., 785,875
 Benthin, G., 615
 Berger, U., 395
 Bergman, Tomas, 133
 Berkenkopf, Joseph W., 477
 Berti, F., 327,711,939
 Bertomeu, M. C., 667,909
 Bhaskar, N. K., 777
 Bianchi, G., 711
 Bienkowski, Michael J., 73
 Bieroh, K., 655
 Billah, M. Motasim, 281
 Binks, Sue, 461
 Björck, Thure, 429,441,461
 Blair, Ian A., 315,895
 Blasevich, M., 743
 Boggs, J. M., 399
 Bonney, R. C., 815
 Bonta, I. L., 879
 Boo, Karin, 461
 Borgeat, P., 311,437
 Borsato, M., 689
 Botting, Regina, 627
 Braden, Greg, 193
 Braquet, P., 265,929
 Bray, M. A., 503
 Breuiller, M., 811
 Brezina, V., 715
 Brezinski, Mark E., 105
 Brink, C., 473
 Brister, S. J., 667

Brown, N. S., 777
 Brzozowski, T., 793
 Buchanan, M. R., 667,909
 Buchmann, B., 565,591
 Bulbena, O., 501
 Bunce, K. T., 379
 Burk, Raymond F., 125
 Buttner, N., 727
 Bygdeman, M., 799

C

Cahill, R. A., 525
 Cairns, Jennifer A., 983
 Calcamuggi, G., 789
 Campbell, W. B., 213
 Capron, A., 975
 Capron, M., 975
 Carlen, P. L., 731
 Caron, L., 145
 Carreras, Luis, 611
 Carroll, M. A., 675
 Catella, Francesca, 193
 Chang, Joseph Y., 477
 Chang, Ke-Jian, 241
 Charman, William, 577
 Chiappara, G., 521
 Christie, Pandora, 415
 Ciabattoni, G., 619,707
 Ciani, D., 789
 Cimino, Guido, 129
 Claesson, Hans-Erik, 133,663,1005
 Clarke, Cosmos C., 457
 Clarke, Robert, 577
 Clayton, N. M., 379
 Cloutier, S., 437
 Cluzel, Jacques, 323
 Coffman, R. L., 975
 Cognein, P., 781
 Coleman, R. A., 379
 Colli, S., 233
 Collington, E. W., 379
 Cooper, D., 875
 Coote, P. R., 739
 Corey, E. J., 731

Costantini, V., 917
 Costello, J. F., 469
 Craik, Charles S., 25
 Crea, Attilio E. G., 415
 Crivellari, M. T., 445
 Cuccurullo, L., 781

D

Dahlén, Barbro, 89,429,441,461
 Dahlén, Sven-Erik, 429,441,461,537
 Dale, M. M., 513
 D'Amico, D., 521
 Daneshmend, T. K., 777
 Davi, G., 619
 Davis, Karen L., 185
 De Angelis, L., 327,939
 Deeg, H. J., 525
 Delespesse, G., 997
 Dembińska-Kieć, A., 655
 Dennis, Edward A., 249
 De Rose, V., 445
 Desai, Sudha, 457
 DeWitt, David L., 65,77
 Di Bello, M. G., 533
 Di Marzo, Vincenzo, 129
 Dinarello, Charles A., 245
 Dingle, John T., 955
 Dixon, Richard A. F., 25
 Doktor, H. S., 351
 Doualla-Bell, F., 811
 Douglas, Andrea, 229
 Douglas, Janice G., 205
 Droz, Bernard, 735
 Drozdowicz, D., 793
 Drvota, Viktor, 153
 Duckworth, Tanya A., 315
 Dugas, B., 997
 Dunlop, M., 287
 Dunn, Michael J., 69

E

Eason, J., 697
 Ebbesen, M. A., 489
 Eckel, Stephen, 281

Edenius, Charlotte, 89,97,883
 Edhag, Olof, 165
 Egan, Robert W., 281
 Ekerdt, R., 565
 Elder, M. G., 807
 Eliasson, Eva, 461
 Eling, Thomas E., 843
 Ellis, E. F., 201
 Eltringham-Smith, L., 909
 Emanuelli, G., 789
 Endres, Stefan, 245
 Erard, M., 503
 Erlij, D., 209
 Esanu, A., 929
 Escalante, B., 209
 Esplugues, J. V., 761
 Evans, J. M., 469

F

Fairbairn, C. E., 367
 Falck, J. R., 209,213
 Falcon, Cristina, 611
 Falk, E., 395
 Farhat, Michel Y., 637
 Favalli, C., 851
 Feinmark, S. J., 403,715
 Ferber, E., 265
 Fernández-Cruz, L., 573
 Ferraresso, M., 689
 Ferré, F., 811
 Fiedler, V. B., 355
 Fieren, M. W. J. A., 879
 Finch, H., 379
 Fiore, Stefano, 93,553
 Fioretti, M. C., 917
 Fischer, S., 225
 Fish, H. T., 161
 Fitzgerald, Desmond J., 193,577
 FitzGerald, Garret A., 33,193,433,
 577
 Fitzpatrick, F. A., 161
 Flores-Romo, Leopoldo, 983
 Foegh, M., 525,649
 Folco, G. C., 445
 Folger, Walter H., 693
 Ford-Hutchinson, A. W., 9
 Foreman, J. C., 513
 Forsberg, Inger, 97
 Foultier, M. T., 855
 Franks, S., 815
 Freeman, M. L., 887
 Fröhlich, W., 565,591
 Fujii, Yutaka, 85
 Funk, Colin D., 33,41,577
 Furci, Lucinda, 33,577

G

Galli, C., 233,743
 Galli, G., 327,939
 Gallo, S., 909
 Galmiche, J. P., 855
 Gambassi, F., 533
 Garaci, E., 851,867
 Gardiner, P., 473
 Garland, Lawrence G., 109
 Garlicki, J., 793
 Garrick, R., 701
 Gatta, A., 689
 Gelpí, E., 501,573
 Gemzell, K., 799
 Génot, E., 997
 Ghaderi, Abbas A., 983
 Gialdroni Grassi, G., 445
 Giampietri, A., 917
 Gibel, L., 489
 Giesen, C., 565
 Giraldi, T., 913
 Glaser, Keith B., 249
 Glasgow, Wayne C., 843
 Goel, R. K., 785
 Goetzl, E. J., 399
 Goldin, Barry R., 245
 Goldyne, M. E., 835
 Goldyne, S. Z., 835
 Goodman, A., 701
 Goodrum, D. D., 367
 Goodwin, J. S., 489
 Gorbach, Sherwood L., 245

Gordon, John, 983
 Gorman, Robert R., 73
 Gove, C., 697
 Granström, Elisabeth F., 295,441,
 615
 Gravelle, Francine, 181
 Gréen, Krister, 153,165,529,607
 Grelli, S., 851
 Grimes, David, 477
 Grose, J. H., 145
 Gryglewski, R. J., 655
 Gundel, Robert H., 457
 Gurevich, N., 731

H

Haas, T. A., 667,909
 Haeggström, Jesper, 41,133
 Hagmann, W., 493
 Haines, Kathleen A., 545
 Hallée, A., 437
 Halushka, Perry V., 331
 Hamanaka, N., 359,411,599
 Hamberg, Mats, 117,441
 Hanasaki, K., 363
 Hansbrough, J. R., 37
 Harada, Yoshiteru, 429
 Harb, J., 855
 Harel, S., 749
 Harford, A. M., 489
 Harper, M. J. K., 819
 Hawkey, C. J., 777
 Hawksworth, Richard J., 415
 Hayaishi, Osamu, 85,371,723
 Hayakawa, M., 569
 Hayashi, Hideya, 85
 Heaslip, Richard J., 477
 Hedqvist, Per, 429,537
 Heim, Kurt F., 637
 Heindl, J., 565
 Henriksson, Peter, 165
 Henriques, R. D., 573
 Her, E., 265
 Hill, Kristina E., 125
 Hirai, Aizan, 827
 Hirata, Masaharu, 339,859

Holtzman, M. J., 37
 Honda, Atsushi, 45
 Honn, Kenneth V., 895
 Hopfer, Ulrich, 205
 Hornstra, G., 225,237
 Hosford, D., 929
 Hoshiko, Shigeru, 1
 Hotter, G., 573
 Houillon, G., 855
 Howarth, P., 449
 Huber, M., 395
 Hudson, N., 777
 Hughes, K. T., 303
 Humphray, J. M., 379
 Humphrey, P. P. A., 379
 Hurst, S., 777

I

Iaquinto, G., 781
 Ichikawa, A., 891
 Ikeda, S., 453
 Imawaka, H., 599
 Imura, Yoshimi, 943
 Irie, A., 891
 Irwin, Carl, 273
 Ishii, A., 465
 Ito, Seiji, 371
 Izawa, Y., 569
 Izumi, T., 101

J

Jackson, William P., 109
 Jacques, Crawford, 415
 Jakobsson, Per-Johan, 663,1005
 Jakschik, B. A., 261,493
 Jedlitschky, G., 395
 Jiyl, Fu, 45
 Johansson, Gunnar, 429
 Johansson, Helene, 461
 Jones, D., 161
 Jones, R. L., 375

K

Kaever, Volkhard, 169
 Kaiser, I., 493
 Kaley, Gabor, 595

Kamamaka, Y., 599
Kanayasu, Toshie, 623
Kasamo, M., 819
Katori, M., 771
Katz, N., 649
Kawabe, T., 989
Kawasaki, A., 359,407,411,453,599
Keery, R. J., 603
Keppler, D., 395
Kiel, D., 403
Kindahl, Hans, 295
King, Barbara, 461
Kishi, M., 363
Kishikawa, K., 407
Kivits, G. A. A., 225
Koizumi, K., 891
Kolb, J. P., 997
Koller, Akos, 595
Komatsu, N., 21
Konno, M., 411
Konturek, S. J., 793
Kosaka, K., 569
Koshihara, Yasuko, 847
Kostka-Trabka, E., 655
Koyama, Y., 723
Kraemer, Stacey A., 65
Krais, T., 583
Krauss, A. H-P., 367
Krzyzek, E., 793
Kuhn, M., 503
Kulmacz, Richard J., 137
Kumegawa, M., 53
Kumlin, Maria, 89,441,461,537
Kuniewski, B., 749
Kurz, G., 395
Kusaka, M., 53

L

Labat, C., 473
Landry, J., 145
Lane, J., 659
Laneuville, O., 731
Lanzio, M., 789
Laporte, J., 437

Larsson, O., 41
Laurent, J. P., 929
Lawson, John, 193
Lazer, Edward S., 457
Lebel, M., 145
Le Bodic, L., 855
Lee, D. Y., 303
Lee, Tak H., 415
Lefrak, E., 649
Leier, I., 395
Leithauser, Marie T., 895
Lellouche, Franck, 611
León, O. S., 573
Leroy, M. J., 811
Letari, O., 257
Lin, Alice H., 73
Lindgren, Jan Åke, 89,97,883
Litime, M. H., 811
Liu, Leo X., 509
Lonigro, Andrew J., 421
Loose-Mitchell, D., 149
López-Boado, M. A., 573
Lumley, P., 603

M

Maass, B., 591
Macchia, L., 41
Machunsky, Christine, 671
Maclouf, Jacques, 177,319,611
Macoviak, J., 649
Maderna, P., 233
Madhun, Zuhayr T., 205
Maeda, Y., 989
Maekawa, N., 989
Maezaki, Naoyoshi, 943
Magee, David E., 347
Maghni, K., 437
Magni, F., 327,939
Mahanian, Fariba, 229
Mais, Dale E., 331,347
Majka, J., 793
Mallet, A. I., 557
Mannaioni, P. F., 533
Mantovani, M., 711
Marnett, Lawrence J., 81,895

Marriott, D., 739
 Martin, C., 929
 Martin, R. C., 303
 Marugo, M., 781
 Maruyama, T., 407
 Masciarelli, M., 445
 Masferrer, Jaime L., 45
 Masini, E., 533
 Mason-Garcia, Meredith, 831
 Mastino, A., 851
 Masuda, Atsushi, 331
 Matsumoto, R., 599
 Matsumura, H., 723
 Matsunaga, N., 407
 Matthews, J. S., 375
 Mayumi, M., 989
 McGiff, J. C., 209, 675
 McLeod, L. J., 157
 Meade, Elizabeth A., 65
 Medina, J. F., 41
 Melis, M., 521
 Melli, M., 291
 Meredith, M. J., 887
 Merendino, A. M., 521
 Metz, S., 287
 Meydani, Simin Nikbin, 245
 Mikawa, H., 989
 Miki, Ichiro, 387
 Mitchell, S. N., 823
 Miyamoto, T., 407, 411, 465, 891
 Miyata, Atsuro, 61
 Miyazaki, T., 359
 Mizushima, Y., 465
 Momper, Rita, 645
 Moore, K. P., 697
 Moran, Niamh, 577
 Mori, Trevor A., 229
 Morinelli, Thomas A., 331
 Morita, Ikuo, 623, 839
 Morrill-Labrode, Ann, 245
 Morrison, Aubrey R., 273
 Morrow, Jason D., 125, 315, 433
 Mosconi, C., 233
 Motoishi, M., 465

Mugridge, K. G., 517
 Müller, M., 395
 Müller, B., 583, 591
 Mullmann, Theodore J., 281
 Murota, Sei-itsu, 623, 839
 Murphy, R. C., 177, 185, 525
 Murray, Rosemary, 577

N

Naka, Masao, 331, 599
 Nakae, T., 411
 Nakagawa, T., 465
 Nakajima, Masakazu, 339
 Nakamura, Motonao, 113, 387
 Nakano, T., 277
 Nakano-Hayashi, Junko, 623
 Nambu, F., 453, 465
 Nammour, Tarek M., 125
 Narumiya, Shuh, 339
 Näsman-Glaser, Barbro, 883
 Nathan, M. H., 17
 Natsui, K., 21
 Needleman, Philip, 45
 Negishi, Manabu, 371, 891
 Nenci, G. G., 917
 Nicosia, S., 257
 Niederhauser, U., 503
 Nigam, Santosh, 553, 925
 Nishikawa, Kohei, 173, 943
 Nishimura, Motonobu, 185, 827
 Nishiyama, K., 771
 Norel, X., 473
 Nüsing, R., 307

O

Oates, John A., 315
 Oatis, John E. Jr., 331
 Odeimat, A., 311
 Odenwall, Rebecca, 81
 Odlander, Björn, 133, 1005
 Ogawa, T., 569
 Ogunc, S., 701
 Ohara, O., 277

O'Hickey, Stephen P., 415
 Ohishi, Nobuya, 387
 Ohkawa, Sigenori, 173
 Ohlson, E., 441
 Ohno, Kouji, 859
 Ohno, T., 771
 Okegawa, T., 453, 599
 Okuda-Ashitaka, Emiko, 371
 Okuma, Minoru, 339
 Okwu, Anselm K., 331
 Oliw, Ernst H., 197
 Omawari, N., 453
 Onoe, H., 723
 Oshima, T., 53
 Owen, William F. Jr., 481
 Ozawa, T., 569

P

Pace, E., 521
 Pace-Asciak, C. R., 731
 Pai, Jin-Keon, 281
 Palmblad, Jan, 561, 883
 Palmer, Graham, 137
 Palmertz, Ulla, 537
 Pankhania, J. J., 113
 Papin, J. P., 975
 Parente, L., 291, 517
 Parker, J., 659
 Parodi, M. C., 781
 Patrice, T., 855
 Patrono, C., 619, 707
 Pek, S. B., 17
 Perissin, L., 913
 Perretti, M., 517
 Persson, L., 615
 Perzborn, E., 355
 Peskar, B. M., 753
 Petersson, A. S., 615
 Petroni, A., 743
 Pettitt, T. R., 557
 Phillips, Catherine, 497
 Picado, C., 501
 Piper, P. J., 469
 Pistelli, A., 533

Plaza, V., 501
 Plebani, M., 689
 Poggioli, J., 997
 Police, R. J., 201
 Pommier, J., 929
 Poubelle, P. E., 311
 Powell, William S., 181
 Pozzi, E., 445
 Pradelles, Philippe, 319
 Prakash, Chandra, 315
 Pralong, Etienne, 735
 Prino, G., 711
 Prior, G., 383
 Pugliese, F., 707
 Puig Parellada, P., 573

Q

Quadros, E., 767

R

Rådmark, Olof, 1, 41, 101, 133, 663
 Ralston, T. L., 367
 Ramis, I., 501
 Ramwell, Peter W., 637
 Rapozzi, V., 913
 Rasmanis, Gundars, 165
 Raud, Johan, 537
 Raugei, G., 291
 Raz, Amiram, 45
 Rea, L., 835
 Reeves, J. J., 379
 Reiss, N., 265
 Ren, Yong, 137
 Renard, D., 997
 Resch, Klaus, 169
 Richards, Karen M., 895
 Rigotti, P., 689
 Ringertz, Bo, 561
 Ringotti, P., 689
 Ritter, J. M., 351
 Roberts, L. Jackson II, 125, 315, 433, 887
 Roberts, M. S., 157
 Robidoux, C., 437

Robillard, L., 855
 Robinson, C., 449
 Rodriguez, Louis, 429
 Rolland, A., 929
 Romano, Mario, 93
 Romero, Michael F., 205
 Rosellò, J., 501,573
 Rosén, Anders, 1005
 Rosolowsky, M., 213
 Rossoni, G., 327,711,939
 Rowley, A. F., 557

S

Sacerdoti, D., 689
 Sáenz, A., 573
 Saito, Hiroyuki, 241
 Saito, Ichiro, 241
 Sakuyama, S., 411
 Sala, A., 177,525
 Salmon, John A., 109
 Salvati, P., 707
 Samuelsson, Bengt, 1,101
 Samuelsson, Jan, 883
 Sánchez, J., 573
 Sandbrink, R., 395
 Sanduja, R., 141,149
 Santoro, M. G., 867
 Saussy, David L. Jr., 331,347
 Sawada, M., 453
 Schärer, Karl, 645
 Schillinger, E., 583,901
 Schirner, M., 901
 Schneider, M. R., 901
 Schröder, G., 591
 Schröder, Henning, 671
 Schrör, Karsten, 671
 Schulz, B. G., 591
 Schwartz, J. H., 715
 Schwartzman, Michal Laniado, 185
 Schweer, Horst, 645
 Secombes, C. J., 557
 Seibert, K., 45
 Seki, Koichi, 827
 Seko, T., 359
 Sellmayer, Alois, 217
 Semenzato, G., 445
 Seo, R., 407
 Serhan, Charles N., 93,105,509,553
 Seuter, F., 355
 Seyama, Yousuke, 387
 Seyberth, Hannsjörg W., 645
 Shannon, V. R., 37
 Shapiro, E., 715
 Sharp, G. J. E., 557
 Sheff, Daniel M., 481
 Sheldrick, R. L. G., 379
 Sheller, J. R., 433
 Shen, S. T., 701
 Shibouta, Yumiko, 173
 Shida, T., 465
 Shield, Michael J., 955
 Shimizu, Takao, 387
 Shimokawa, T., 77
 Shipp, Elizabeth, 193
 Shopp, G. M., 489
 Siegel, Marvin I., 281
 Siegelbaum, S. A., 727
 Sigal, Elliot, 25
 Simonson, Michael S., 69
 Sirois, P., 437
 Sirtori, C. R., 233
 Skuballa, W., 565,901
 Sladek, K., 433
 Sloane, David L., 25
 Smith, A. Y., 489
 Smith, S. K., 823
 Smith, W. L., 77
 Snyder, D. S., 921
 Sodano, Guido, 129
 Solito, E., 291
 Soo, Cynthia, 245
 Spatafora, M., 521
 Spinella, Aldo, 129
 Spitzer, T., 525
 Sprague, Randy S., 421
 Spur, Bernd W., 415
 Stables, R., 379
 Stamford, I. F., 875

Stanworth, Dennis R., 983
 Stark, Ron, 461
 Stenke, Leif, 97,883
 Stephenson, Alan H., 421
 Sterling, W. A., 489
 Stewart-Long, P., 351
 Stock, G., 583
 Stragliotto, E., 233
 Strobach, Hans, 671
 Sturm, Robert J., 477
 Stürzebecher, S., 901
 Subramanian, N., 503
 Sugama, Kazushige, 371
 Sugiyama, S., 569
 Sullivan, M. H. F., 807
 Suzuki, H., 29
 Suzuki, Yoshiharu, 839
 Swahn, M. L., 799
 Sweetman, B. J., 887

T

Tak, C., 879
 Takahashi, Kihito, 683
 Takahashi, Y., 37
 Takai, T., 29,53
 Takamori, Riko, 847
 Takatani, Muneo, 943
 Tamura, Yasushi, 241,827
 Tan, K. C., 697
 Tanabe, Tadashi, 29,53,61
 Tanaka, M., 989
 Tang, Wilson, 863
 Tavares, I. A., 785
 Taylor, G. W., 697
 Terao, Shinji, 173
 Teraoka, H., 277
 Terashita, Yumiko, 173
 Terashita, Zen-ichi, 173,943
 Tettamanti, R., 711
 Thierauch, K-H., 383,591
 Thomas, George, 637
 Toda, M., 407
 Toh, Hiroyuki, 61
 Tönshoff, Burkhard, 645

Torcellini, Carol A., 457
 Toriyama, Kazuhiro, 839
 Toto, Robert D., 967
 Tou, Jen-sie, 831
 Tranter, P. R., 807
 Tremoli, E., 233
 Trentin, L., 445
 Tsai, Ah-Lim, 137,141
 Tsushima, Susumu, 943

U

Ueda, N., 21,37
 Uedelhoven, W., 225
 Ueno, A., 771
 Ullrich, V., 307
 Urade, Yoshihiro, 85
 Ushikubi, Fumitaka, 339

V

van Dam-Mieras, M. C. E., 237
 van den Bemd, G. J. C. M., 879
 Vandogen, Robert, 229
 Vane, John R., 627
 van Houwelingen, A. C., 225
 Verhallen, P. F. J., 591
 Veronesi, Arianna, 983
 Vesin, Marie-Francoise, 735
 Vesterqvist, Ole, 153,165,529,607
 Vial, J. H., 157
 Viganò, T., 445
 Villani, Guido, 129
 Visioli, F., 743
 Voelkel, N., 177
 Volpes, D., 521
 Volterra, A., 727
 von Sprecher, A., 503
 Vossen, R. C. R. M., 237

W

Wakitani, K., 599
 Walsh, S., 449
 Watanabe, Kikuko, 21,85
 Watanabe, Y., 723
 Waters, N. M., 303

Watts, I. S., 603
Weber, P. C., 217
Wegner, Craig D., 457
Weichman, Barry M., 477
Weissmann, Gerald, 545
Welch, William J., 693
Weller, Peter F., 509
Wennmalm, Å., 615
Wetterholm, Anders, 133
Wharton, K. A., 603
White, B. P., 603
Whitney, Jeff, 461
Whittle, B. J. R., 761
Wilcox, Christopher S., 693
Wilkin, G. P., 739
Williams, Carl M., 347
Williams, L. S., 367
Williams, R., 697
Wilson, D. E., 767
Wilson, N. H., 375
Winell, S., 615
Winitz, S., 161
Witt, W., 901
Wolfe, Julie A., 69
Wong, P. Y-K., 701
Wood, J. N., 697,739
Woods, Margo M., 245
Woodward, D. F., 367
Wu, Kenneth K., 141,149
Wu, P., 731

X

Xu, L., 261

Y

Yamamoto, S., 21,29,37,53,895
Yamaoka, Kunio A., 1005
Yamauchi, R., 891
Yancey, L. M., 201
Yavin, E., 749
Yodoi, J., 989
Yokoo, K., 569
Yokoyama, Chieko, 29,53,61
Yoshida, Setsuko, 827
Yoshida, Sho, 241,827
Yoshimoto, T., 29,53,895
Young O'Gara, Coleen, 81
Yube, N., 453
Yui, Y., 465

Z

Zackert, William E., 315
Zakrzewicz, Andreas, 925
Zembowicz, A., 655
Zetterström, Olle, 429,441,461
Zhao, Y., 525,649
Ziboh, Vincent A., 863
Zipkin, R. E., 403
Zor, U., 265
Zorzet, S., 913
Zurier, Robert B., 947
Zwaal, R. F. A., 237

*Bishai, I., 480a
*Coceani, F., 480a
*Hynes, N., 480a
*Lees, J., 480a

Contents

Volume 21A

Molecular Biology

- 1 Characterization of the Promoter of the Human 5-Lipoxygenase Gene
B. Samuelsson, S. Hoshiko, and O. Rådmark
- 9 Regulation of the Production and Action of Leukotrienes by MK-571 and MK-886
A. W. Ford-Hutchinson
- 17 5-Lipoxygenase mRNA is Expressed in Rat Pancreatic Islets
M. H. Nathan and S. B. Pek
- 21 Immunohistochemical Study on Arachidonate 5-Lipoxygenase of Porcine Leukocytes
N. Ueda, K. Natsui, S. Yamamoto, N. Komatsu, and K. Watanabe
- 25 Expression of Cloned Human 15-Lipoxygenase in Eukaryotic and Prokaryotic Systems
D. L. Sloane, R. A. F. Dixon, C. S. Craik, and E. Sigal
- 29 Cloning and Expression of Arachidonate 12-Lipoxygenase cDNA from Porcine Leukocytes
T. Yoshimoto, H. Suzuki, S. Yamamoto, T. Takai, C. Yokoyama, and T. Tanabe
- 33 Polymerase Chain Reaction Cloning and Expression of Eicosanoid Metabolizing Enzymes from Blood Cells
C. D. Funk, L. Furci, and G. A. FitzGerald
- 37 Biochemical and Immunohistochemical Evidence for Selective Expression of Novel Epithelial Lipoxygenases
V. R. Shannon, J. R. Hansbrough, Y. Takahashi, N. Ueda, S. Yamamoto, and M. J. Holtzman
- 41 Leukotriene A₄-Hydrolase in Two Human Cell Lines
O. Rådmark, J. F. Medina, L. Macchia, C. Barrios, C.D. Funk, O. Larsson and J. Haeggström

- 45 The Biochemical and Pharmacological Manipulation of Cellular Cyclooxygenase (COX) Activity
K. Seibert, J. L. Masferrer, F. Jiyyi, A. Honda, A. Raz, and P. Needleman
- 53 Induction of Fatty Acid Cyclooxygenase in Mouse Osteoblastic Cells (MC3T3-E1)
S. Yamamoto, T. Oshima, M. Kusaka, T. Yoshimoto, C. Yokoyama, T. Takai, T. Tanabe, and M. Kumegawa
- 61 Cloning and Characterization of Human Cyclooxygenase Gene and Primary Structure of the Enzyme
C. Yokoyama, H. Toh, A. Miyata, and T. Tanabe
- 65 Serum Induction and Superinduction of PGG/H Synthase mRNA Levels in 3T3 Fibroblasts
D. L. DeWitt, S. A. Kraemer, and E. A. Meade
- 69 Regulation of Prostaglandin Synthesis by Differential Expression of the Gene Encoding Prostaglandin Endoperoxide Synthase
M. S. Simonson, J. A. Wolfe, and M. J. Dunn
- 73 Elevated Prostaglandin H Synthase Gene Expression in Ras-transformed Cells
R. R. Gorman, M. J. Bienkowski, and A. H. Lin
- 77 The Aspirin and Heme Binding Sites of PGG/H Synthase
W. L. Smith, D. L. DeWitt, and T. Shimokawa
- 81 Properties of Trypsin-Cleaved PGH Synthase
R. Odenwaller, C. Young O'Gara, and L. J. Marnett
- 85 The Structure and Function of Prostaglandin F Synthase
K. Watanabe, Y. Fujii, H. Hayashi, Y. Urade, and O. Hayaishi

Eicosanoid Biosynthesis and Metabolism

- 89 Conversion of Leukotriene A₄ to Lipoxins by Human Nasal Polyps and Bronchial Tissue
J. Å. Lindgren, C. Edenius, M. Kumlin, B. Dahlén, and A. Änggård
- 93 Lipoxin and Leukotriene Production During Receptor-Activated Interactions Between Human Platelets and Cytokine-Primed Neutrophils
S. Fiore, M. Romano, and C. N. Serhan
- 97 Lipoxin Formation in Human Platelets
C. Edenius, I. Forsberg, L. Stenke, and J. Å. Lindgren
- 101 Purification of 15-Lipoxygenase from Human Leukocytes, Evidence for the Presence of Isozymes
T. Izumi, O. Rådmark, and B. Samuelsson