Index of Authors

Abbeddou S, 426 Abilleira E, 129 Abraham A, 456 Aguilar C, 136 Åkerstedt M, 88 Akineden O, 38 Akita S, 149 Albenzio M, 43, 442 Alberghina D, 421 Albisu M, 129 Alexander M, 349 Almeida MZPRB, 373 Alvarenga N, 80 Álvarez R, 196 Álvarez Rios S, 250 Amills M, 32 Andersen F, 23 Andreotti C, 63 Angiolillo A, 32 Araujo-Andrade C, 233 Ares JL, 32 Armani A, 412 Ashokkumar M, 226 Astiz S, 160 Avondo M, 500

Badaoui B, 32 Baena F, 32 Baldi A, 365 Baldi F, 178 Balia F, 343 Baravalle C, 63 Barron LJR, 129 Bava L, 211, 436 Benchaar C, 56, 293, 391 Benites NR, 385 Beretti F, 122 Berkowicz FW. 1 Berry DP, 1 Bexiga R, 9, 49, 318 Bhaskaracharya R, 226 Birgersson C, 105 Blasi F, 335 Bolla PA, 15 Boselli C, 412 Bosi A, 335 Brandelli A, 257 Brasca M, 211, 436 Britten M, 111 Bruckmaier RM, 97, 479 Brügemann K, 448 Burke CR, 464 Burns P, 357 Butler G, 220 Butler ST, 308

Calvinho LF, 63 Canada J, 80 Caravaca F, 32 Carcangiu V, 343 Carneiro C, 9, 49 Caroprese M, 43, 442 Carrizosa J, 32 Casella S, 421 Castigliego L, 412 Chandrapala J, 226 Chobert J-M, 203, 471 Choiset Y, 203 Chove LM, 184 Christiansson A, 105 Chu Q, 242 Corredig M, 349 Côrtes C, 56, 111, 293, 391 Cossignani L,335 Cuesta I, 357 Cui L, 72 Cutullic E, 464 Czerny C-P, 448

da Silva-Kazama DC, 56, 293, 391 Dallard BE, 63 Dall'Olio S, 122 Damiani P, 335 D'Arco G, 335 Darias Martin J, 250 de Albuquerque LG, 178 de Almeida LM, 373 De Angelis A, 500 De Antoni GL, 15, 233, 456 de Camargo GMF, 178 de los Angeles Serradell MS, 15 de los Reyes-Gavilán CG, 357 de Mendonça CL, 373 De Renobales M, 129 de Urraza PJ, 15 de Veth MJ, 308 de Vrese M, 396 De Graves FJ, 489 Deng Y, 72 Dettori ML, 343

Ehsani MR, 471 El-Ghaish S, 203 Ellis KA, 9, 49, 318 Elvira L, 160 Emanuelson U, 287 Evans ACO, 308 Evans RD, 1

Dewhurst RJ, 308

Di Meo GP, 154

Dyer RM, 168

Díaz Romero C, 250

Diesterbeck US, 448

Fall N, 287 Farhadi M, 471 Fernández A, 196 Ferrer MA, 349 Fontanesi L, 122 Forsbäck L, 88 Frausto-Reyes C, 233 Fresno Baquero M, 250

Gagnon N, 111
Gianfaldoni D, 412
Giannetto G, 421
Giroux HJ, 111
Gómez-Zavaglia A, 233
Gonzalez-Bulnes A, 160
Gonzalez-Martin J-V, 160
Grandison AS, 184
Grazioli G, 154
Griffiths MW, 270

Grifoni G, 412 Gröhn YT, 23 Gross J, 479 Guidi A, 412

Haertlé T, 203, 471 Hagiwara K, 118 Hasan AA, 38 He Y, 242 Hernandez F, 160 Hess HD, 426 Hilali ME, 426 Holopainen J, 49 Howard DJ, 1 Huang M, 72 Hutchinson I, 308

lannuzzi L, 154 Irigoyen A, 456 Isobe N, 149 Ivanov Tsonchev R, 233

Jacob M, 191 Jaros D, 191 Jayaram S, 270 Jordana J, 32 Joshi CG, 326

Kakisu E, 456 Kansal VK, 404 Kaskous S, 97 Kaushal D, 404 Kazama R, 56, 293, 391 Kentish S, 226 Klotz B, 136 Knight CH, 379 König S, 448 Koringa PG, 326 Koskinen MT, 49 Kreuzer M, 426 Kristen H, 396 Kunz PL, 464 Kurose T, 149

Lanna DPD, 178
Larsen T, 88
Laudadio V, 144
Laue C, 396
Lecchi C, 365
Lee J, 226
Leitão A, 9
Lewis MJ, 184
Li X-N, 412
Lima ALF, 178
Lindahl C, 105
Littlejohn MD, 263
Liu J, 168
Londero A, 233
Lonergan P, 308

Ma P, 242 MacHugh DE, 1 Magee DA, 1 Mamizuka EM, 373 Matassino D, 122 Matumoto-Pintro PT, 111 Maurelli S, 335 McGuire MA, 301 Meier S, 263, 464 Mellor DJ, 318 Melville PA, 385 Menéndez V, 196 Mentges ML, 257 Messina V, 421 Mitchell MD, 263 Mobili P, 233 Montrezor IMCD, 178 Moosavi-Movahedi AA, 471 Moosavi-Movahedi F, 471 Morimoto K, 149 Mullen MP, 1 Mura MC, 343

Nájera Al, 129 Nakatani K, 149 Nandasana KN, 326 Neder V, 63 Neerchal NK, 168 Niasari-Naslaji A, 471 Nieh M-P, 349 Nörnberg MFBL, 257

Ortega HH, 63 Østerås O, 23

Pagano RI, 500
Palmer M, 226
Pazzola M, 343
Pecorini C, 365
Pennisi P, 500
Pereira H, 9, 49
Pereira O, 9
Pérez-Elortondo FJ, 129
Petit HV, 56, 111, 293, 391
Pettersson G, 379
Piccand V, 464
Piccione G, 421
Politis I, 365
Portolano B, 122
Price W, 301

Qian B, 72

Rosati R, 412

Rabesona H, 203 Rajala-Schultz PJ, 489 Rajkondawar PG, 168 Ramani UV, 326 Rank DN, 326 Rautenberg P, 396 Rebucci R, 365 Reinheimer I. 357 Reksen O, 23 Revilla I. 279 Rezamand P, 301 Riera FA, 196 Rischkowsky B, 426 Roche JR, 263, 464 Rodrîguez Rodríguez E, 250 Rodríguez-González O, 270 Rodríguez-Nogales JM, 279 Rohm H, 191

Rossetti C, 154 Ruas-Madiedo P, 357 Ruiz de Gordoa JC, 129 Russo DE, 442 Russo V, 122 Ruz-Peres M, 385

Saboury AA, 471 Saccone F, 365 Sakemi Y, 118 Salami M, 471 Sànchez A, 32 Sandrucci A, 211, 436 Santillo A, 442 Santos GTD, 56, 293, 391 Sarubbi F, 154 Schembari A, 421 Schena L, 442 Schlez K, 448 Schmidt M, 191 Schneider E, 38 Schori F, 464 Schrezenmeir I, 396 Schwarz D, 448

Schwarz FJ, 479 Seo KS, 301 Serradilla JM, 32 Sevi A, 442 Sevier DL, 301 Shields SL, 301 Shimizu M, 149 Shinozuka Y, 149 Sikora KM, 1 Silveira ST, 257 Simonetti MS, 335 Sitohy M, 203 Sousa I, 80 Spagnuolo MS, 154 Spillane C, 1 Stanton C, 308 Stergiadis S, 220 Sun D, 242 Sundberg M, 105 Svennersten-Sjaunja K, 88,

Tamburini A, 211, 436 Tamura Y, 118 Tasch U, 168 Theodorou G, 365 Thomet P, 464 Tondo EC, 257 Tonhati H, 178 Torre P, 456 Torres AH, 489 Tripathi AK, 326 Tufarelli V, 144

Urrutia B, 32 Usleber E, 38

Vacca GM, 343 Valenti B, 500 van Dorland HA, 479 Vanegas C, 136 Vanoni L, 211, 436 Vaze MN, 326 Vilela CL, 9, 49, 318 Vinderola G, 357 Virto M, 129 Vivar-Quintana AM, 279 Wahlund L, 105 Walker CG, 263 Walking-Ribeiro M, 270 Wang Y, 242 Weilenmann S, 464 Weiss D, 464 Wolter W, 448

Xing M, 72 Xu Y, 72

Yokoya E, 385 Yousefi R, 471 Yu Y, 242

Zanini L, 211 Zeoula LM, 56, 293, 391 Zhang Q, 242 Zhang S, 72 Zhang Y, 242 Zisu B, 226 Zschöck M, 448 Zucali M, 211, 436

journal of dairy research

EDITED BY

DG CHAMBERLAIN
EC NEEDS

Hannah Research Park,
Mauchline Road,
Ayr KA6 5HL, UK
jdr@hannahresearch.org.uk



VOLUME 78, 2011

CAMBRIDGE UNIVERSITY PRESS

The Edinburgh Building, Cambridge CB2 2RU, UK 40 West 20th Street, New York, NY 10011–4211, USA 477 Williamstown Road, Port Melbourne, VIC 3207, Australia Ruiz de Alarcón 13, 28014 Madrid, Spain Dock House, The Waterfront, Cape Town 8001, South Africa

© Proprietors of Journal of Dairy Research 2011

Printed in the United Kingdom at the University Press, Cambridge

journal of dairy research

Contents Volume 78

No. 1 (February 2011)

Single nucleotide polymorphisms at the imprinted bovine insulin-like growth factor 2 (<i>IGF2</i>) locus are associated with dairy performance in Irish Holstein-Friesian cattle EW Berkowicz , DA Magee , KM Sikora , DP Berry , DJ Howard , MP Mullen , RD Evans , C Spillane and DE MacHugh	1
Observed reduction in recovery of <i>Corynebacterium</i> spp. from bovine milk samples by use of a teat canula R Bexiga , H Pereira , O Pereira , A Leitão , C Carneiro , KA Ellis and CL Vilela	9
Effect of freeze-drying on viability and in-vitro probiotic properties of a mixture of lactic acid bacteria and yeasts isolated from kefir PA Bolla, MS de los Angeles Serradell, PJ de Urraza and GL De Antoni	15
Mastitis and the shape of the lactation curve in Norwegian dairy cows F Andersen, O Østerås, O Reksen and YT Gröhn	23
Effects of α _{s1} -casein (<i>CSN1S1</i>) and κ-casein (<i>CNS3</i>) genotypes on milk coagulation properties in Murciano-Granadina goats F Caravaca , JL Ares , J Carrizosa , B Urrutia , F Baena , J Jordana , B Badaoui , A Sànchez , A Angiolillo , M Amills and JM Serradilla	32
A coagulase-negative variant of <i>Staphylococcus aureus</i> from bovine mastitis milk O Akineden, AA Hasan, E Schneider and E Usleber	38
Differential leucocyte count for ewe milk with low and high somatic cell count M Albenzio and M Caroprese	43
Diagnosis of intramammary infection in samples yielding negative results or minor pathogens in conventional bacterial culturing R Bexiga, MT Koskinen, J Holopainen, C Carneiro, H Pereira, KA Ellis and CL Vilela	49
Ruminal fermentation characteristics and fatty acid profile of ruminal fluid and milk of dairy cows fed flaxseed hulls supplemented with monensin DC da Silva-Kazama, C Côrtes, R Kazama, C Benchaar, GTD Santos, LM Zeoula and HV Petit	56
Intramammary inoculation of <i>Panax ginseng</i> extract in cows at drying off enhances early mammary involution BE Dallard, C Baravalle, C Andreotti, HH Ortega, V Neder and LF Calvinho	63
Antioxidant, antihypertensive, and immnomodulatory activities of peptide fractions from fermented skim milk with Lactobacillus delbrueckii ssp. bulgaricus LB340 B Qian, M Xing, L Cui, Y Deng, Y Xu, M Huang and S Zhang	72
Effect of freezing on the rheological, chemical and colour properties of Serpa cheese N Alvarenga, J Canada and I Sousa	80
Natural variation in biomarkers indicating mastitis in healthy cows M Åkerstedt, L Forsbäck, T Larsen and K Svennersten-Sjaunja	88
Best combination of pre-stimulation and latency period duration before cluster attachment for efficient oxytocin release and milk ejection in cows with low to high udder-filling levels S Kaskous and RM Bruckmaier	97
Cleaning effectiveness of chlorine-free detergents for use on dairy farms M Sundberg, A Christiansson, C Lindahl, L Wahlund and C Birgersson	105
Effect of flaxseed lignans added to milk or fed to cows on oxidative degradation of dairy beverages enriched with polyunsaturated fatty acids PT Matumoto-Pintro, HV Petit, HJ Giroux, C Côrtes, N Gagnon and M Britten	111
Interleukin-6 in quarter milk as a further prediction marker for bovine subclinical mastitis Y Sakemi, Y Tamura and K Hagiwara	118
A melanocortin 1 receptor (MC1R) gene polymorphism is useful for authentication of Massese sheep dairy products L Fontanesi, F Beretti, S Dall'Olio, B Portolano, D Matassino and V Russo	122

No. 2 (May 2011)

Effects of seasonal changes in feeding management under part-time grazing on terpene concentrations of ewes' milk E Abilleira, M Virto, Al Nájera, M Albisu, FJ Pérez-Elortondo, JC Ruiz de Gordoa, M De Renobales and LJR Barron	129
Antitagonistic effect of <i>Lactobacillus</i> strains against <i>Escherichia coli</i> and <i>Listeria monocytogenes</i> in milk C Aguilar, C Vanegas and B Klotz	136
Dietary supplementation with selenium and vitamin E improves milk yield, composition and rheological properties in dairy Jonica goats V Tufarelli and V Laudadio	144
Efficacy of enterotoxigenic <i>Escherichia coli</i> vaccine for bovine clinical mastitis K Morimoto, M Shimizu, T Kurose, K Nakatani, S Akita, Y Shinizuka and N Isobe	149
Effect of dioxin exposure on several indices of blood redox status in lactating buffalo cows MS Spagnuolo, F Sarubbi, C Rossetti, G Grazioli, GP Di Meo and L Iannuzzi	154
Influence of age at first lambing on reproductive and productive performance of Lacaune dairy sheep under an intensive management system F Hernandez , L Elvira , J-V Gonzalez-Martin , A Gonzalez-Bulnes and S Astiz	160
Diversity in the magnitude of hind limb unloading occurs with similar forms of lameness in dairy cows J Liu, RM Dyer, NK Neerchal, U Tasch and PG Rajkondawar	168
Milk fatty acid characterization and genetic parameter estimates for milk conjugated linoleic acid in buffaloes H Tonhati, ALF Lima, DPD Lanna, GMF de Camargo, F Baldi, LG de Albuquerque and JMCD Montrezor	178
Comparison of methods for analysis of proteolysis by plasmin in milk LM Chove, AS Grandison and MJ Lewis	184
Measurement of milk clotting activity by rotational viscometry M Jacob, M Schmidt, D Jaros and H Rohm	191
Caseinomacropeptide behaviour in a whey protein fractionation process based on α-lactalbumin precipitation A Fernández, V Menéndez, FA Riera and R Álvarez	196
Proteolysis by <i>Lactobacillus fermentum</i> IFO3956 isolated from Egyptian milk products decreases immuno-reactivity of α_{s1} -casein S El-Ghaish , H Rabesona , Y Choiset , M Sitohy , T Haertlé and J-M Chobert	203
Effect of cleaning procedure and hygienic condition of milking equipment on bacterial count of bulk tank milk L Bava, M Zucali, A Sandrucci, M Brasca, L Vanoni, L Zanini and A Tamburini	211
Suitability of bronopol preservative treated milk for fatty acid determination G Butler and S Stergiadis	220
Effect of ultrasound on the physical and functional properties of reconstituted whey protein powders B Zisu, J Lee, J Chandrapala, R Bhaskaracharya, M Palmer, S Kentish and M Ashokkumar	226
Development of a method based on chemometric analysis of Raman spectra for the discrimination of heterofermentative lactobacilli P Mobili, C Araujo-Andrade, A Londero, C Frausto-Reyes, R Ivanov Tsonchev, GL De Antoni and A Gómez-Zavaglia	233
Association of bovine <i>CD4</i> and <i>STAT5b</i> single nucleotide polymorphisms with somatic cell scores and milk production traits in Chinese Holsteins Y He , Q Chu , P Ma , Y Wang , Q Zhang , D Sun , Y Zhang , Y Yu and Y Zhang	242
Influence of diet and rennet on the composition of goats' milk and cheese M Fresno Baquero, S Álvarez Rios, E Rodrîguez Rodríguez, C Díaz Romero and J Darias Martìn	250
No. 3 (August 2011)	
A psychrotrophic <i>Burkholderia cepacia</i> strain isolated from refrigerated raw milk showing proteolytic activity and adhesion to stainless steel MFBL Nörnberg , ML Mentges , ST Silveira , EC Tondo and A Brandelli	257
Modification of endometrial fatty acid concentrations by the pre-implantation conceptus in pasture-fed dairy cows S Meier, CG Walker, MD Mitchell, MD Littlejohn and JR Roche	263

Factors affecting the inactivation of native micobiota of milk processed by pulsed electric fields and cross-flow microfiltration O Rodríguez-González, M Walking-Ribeiro, S Jayaram and MW Griffiths	270
Effects of somatic cells on the protein profile of hard ovine cheese produced from different breeds I Revilla, JM Rodríguez-Nogales and AM Vivar-Quintana	279
Fatty acid content, vitamins and selenium in bulk tank milk from organic and conventional Swedish dairy herds during the indoor season N Fall and U Emanuelson	287
Digestion, milk production and milk fatty acid profile of dairy cows fed flax hulls and infused with flax oil in the abomasum C Côrtes, R Kazama, DC da Silva-Kazama, C Benchaar, LM Zeoula, GTD Santos and HV Petit	293
Effects of increased milking frequency for the first 21 days post partum on selected measures of mammary gland health, milk yield and milk composition SL Shields, P Rezamand, DL Sevier, KS Seo, W Price and MA McGuire	301
Effects of lipid-encapsulated conjugated linoleic acid supplementation on milk production, bioenergetic status and indicators of reproductive performance in lactating dairy cows I Hutchinson, MJ de Veth, C Stanton, RJ Dewhurst, P Lonergan, ACO Evans and ST Butler	308
Deterministic model to evaluate the impact of lactational treatment of subclinical mastitis due to coagulase-negative staphylococci R Bexiga, KA Ellis, CL Vilela and DJ Mellor	318
Somatotropin-mediated gene expression profiling of differentially displayed ESTs during lactation in Indian buffalo (Bubalus bubalis) UV Ramani, AK Tripathi, MN Vaze, KN Nandasana, PG Koringa, DN Rank and CG Joshi	326
Detection of cow milk in donkey milk by chemometric procedures on triacylglycerol stereospecific analysis results L Cossignani, F Blasi, A Bosi, G D'Arco, S Maurelli, MS Simonetti and P Damiani	335
Effects of different storage conditions, the farm and stage of lactation on renneting parameters of goat milk investigated using the Formagraph method M Pazzola, F Balia, ML Dettori, MC Mura, V Carcangiu and GM Vacca	343
Changes in the calcium cluster distribution of ultrafiltered and diafiltered fresh skim milk as observed by Small Angle Neutron Scattering M Alexander, M-P Nieh, MA Ferrer and M Corredig	349
Technological characterization and survival of the exopolysaccharide-producing strain <i>Lactobacillus delbrueckii</i> subsp. <i>lactis</i> 193 and its bile-resistant derivative 193 + in simulated gastric and intestinal juices P Burns , G Vinderola , J Reinheimer , I Cuesta , CG de losReyes-Gavilán and P Ruas-Madiedo	357
Effect of growth factors and lactogenic hormones on expression of plasminogen activator-related genes and cell proliferation in a bovine mammary epithelial cell line G Theodorou , C Pecorini , R Rebucci , F Saccone , C Lecchi , I Politis and A Baldi	365
Novel sequence types (STs) of <i>Staphylococcus aureus</i> isolates causing clinical and subclinical mastitis in flocks of sheep in the northeast of Brazil LM de Almeida, MZPRB Almeida, CL de Mendonça and EM Mamizuka	373
Relationships between milking frequency, lactation persistency and milk yield in Swedish Red heifers and cows milked in a voluntary attendance automatic milking system G Pettersson, K Svennersten-Sjaunja and CH Knight	379
No. 4 (November 2011)	
Proteinase and phospholipase activities and development at different temperatures of yeasts from bovine milk PA Melville, NR Benites, M Ruz-Peres and E Yokoya	385
Intake and digestibility of fatty acids in late-lactating dairy cows fed flaxseed hulls supplemented with monensin C Côrtes, DC da Silva-Kazama, R Kazama, C Benchaar, LM Zeoula, GTD Santos and HV Petit	391
Probiotic lactobacilli and bifidobacteria in a fermented milk product with added fruit preparation reduce antibiotic associated diarrhea and <i>Helicobacter pylori</i> activity M de Vrese, H Kristen, P Rautenberg, C Laue and J Schrezenmeir	396

Age-related decline in macrophage and lymphocyte functions in mice and its alleviation by treatment with probiotic Dahi containing <i>Lactobacillus acidophilus</i> and <i>Bifidobacterium bifidum</i> D Kaushal and VK Kansal	404
Hormone variations in serum and milk of buffaloes (<i>Bubalus bubalis</i>) as potential indicators of treatment with recombinant bovine somatotropin L Castigliego , X-N Li , A Armani , G Grifoni , C Boselli , R Rosati , D Gianfaldoni and A Guidi	412
Pattern of serum protein fractions in dairy cows during different stages of gestation and lactation G Piccione , V Messina , A Schembari , S Casella , G Giannetto and D Alberghina	421
Influence of feeding Mediterranean food industry by-products and forages to Awassi sheep on physicochemical properties of milk, yogurt and cheese S Abbeddou, B Rischkowsky, ME Hilali, HD Hess and M Kreuzer	426
Effects of season, milking routine and cow cleanliness on bacterial and somatic cell counts of bulk tank milk M Zucali, L Bava, A Tamburini, M Brasca, L Vanoni and A Sandrucci	436
Composition, indigenous proteolytic enzymes and coagulating behaviour of ewe milk as affected by somatic cell count M Albenzio , A Santillo , M Caroprese , L Schena , DE Russo and A Sevi	442
Microscopic differential cell counts in milk for the evaluation of inflammatory reactions in clinically healthy and subclinically infected bovine mammary glands D Schwarz , US Diesterbeck , S König , K Brügemann , K Schlez , M Zschöck , W Wolter and C-P Czerny	448
Physicochemical, microbiological and sensory profiles of fermented milk containing probiotic strains isolated from kefir E Kakisu , A Irigoyen , P Torre , GL De Antoni and A Abraham	456
Ovarian activity in Fleckvieh, Brown Swiss and two strains of Holstein-Friesian cows in pasture-based, seasonal calving dairy systems V Piccand, S Meier, E Cutullic, S Weilenmann, P Thomet, F Schori, CR Burke, D Weiss, JR Roche and PL Kunz	464
Functional properties of camel milk casein induced by digestive enzymes M Salami, AA Moosavi-Movahedi, F Moosavi-Movahedi, MR Ehsani, R Yousefi, M Farhadi, A Niasari-Naslaji, AA Saboury, J-M Chobert and T Haertlé	471
Milk fatty acid profile related to energy balance in dairy cows J Gross, HA van Dorland, RM Bruckmaier and FJ Schwarz	479
Milk yield and somatic cell count during the following lactation after selective treatment of cows at dry-off PJ Rajala-Schultz, AH Torres and FJ DeGraves	489
Morning versus afternoon cutting time of Berseem clover (<i>Trifolium alexandrinum</i> L.) affects feed intake, milk yield and composition in Girgentana goats RI Pagano, B Valenti, A De Angelis, M Avondo and P Pennisi	500

Instructions to contributors

Full Directions to Contributors, of which this is a summary, can be found at the following web site http://titles.cambridge.org/journals/journal_catalogue.asp?mnemonic=dar

General

The Journal of Dairy Research publishes reports on all aspects of dairy science from any country. Material for publication should be sent to the Editor: DG Chamberlain, Hannah Research Park, Mauchline Road, Ayr KA6 5HL, UK. Receipt of all material will be acknowledged. Submission of a paper will be taken to imply that it reports original unpublished work, that it is not under consideration elsewhere, and that if accepted by the Journal it will not be published elsewhere in any language without the consent of the Editors. Authors of articles published in the journal assign copyright to Cambridge University Press (with certain rights reserved) and you will receive a copyright assignment form for signature on acceptance of your paper.

Submission of Papers

Papers should be written in English using the spelling of the Concise Oxford Dictionary and should as far as possible be comprehensible to the non-specialist reader. They should be concise, but without omitting necessary material, and contain sufficient detail to allow repetition of the work.

Papers may be submitted electronically. The summary should be included as a separate Word file suitable for distribution to potential referees. Electronic submissions may be sent by post on disc or as e-mail attachments (jdr@hannahresearch.org.uk) a Word document file. Submitted manuscripts must be limited in length to a maximum of 6000 words allowing 250 words per fig or table. This is approximately the equivalent of a Word document of 18 A4 pages of doublespaced 12pt Times New Roman font.

Layout of Papers

Authors should consult the most recent issue of the Journal to familiarize themselves with Journal conventions and layout. Attention to these and other details will speed publication.

The paper should generally be divided as follows. (a) Cover sheet with the title of the article, names of authors each with one forename, together with their affiliations, a shortened version of the title suitable as a heading, and the name, postal address and e-mail address for correspondence. (b) A brief Summary should encapsulate the whole paper, showing clearly the new knowledge acquired. (c) The **introduction**, without heading, should not contain a full literature review, but should indicate why the subject of enquiry is interesting or important, and why the authors have chosen the approach described. (d) The Experimental or Materials and Methods section should contain adequate descriptions of procedures or appropriate references; sources of all materials (including address with post code) and sources or strains of animals, microorganisms and so on should be indicated. (e) Results should be as concise as possible, without repetition or inclusion of irrelevant material. Tables and illustrations should be used efficiently. (f) The **Discussion** should not repeat the results but discuss their significance. A combined Results and Discussion section is quite acceptable. Any acknowledgements are given in a separate paragraph without heading. It is the responsibility of the authors to ensure that individuals or organizations acknowledged as providing materials or otherwise are willing to be identified. (g) **References**. For some types of paper, other divisions may be preferable. Pages should be numbered; the addition of line numbers will aid refereeing.

References

References should be given in the text as Brown & Jones (1987) or (Schmidt, 1985; Nakamura et al. 1989); the first author with et al. is used for papers with three or more authors. Where necessary, papers are distinguished as Lenoir (1988a), (Litov et al 1990a, b). When several references appear together in the text, cite them in chronological order, and alphabetically within years. The Reference list at the end of the paper, which should begin on a fresh page, is given in strict alphabetical order. Authors should refer to a recent issue for the format of references.

Tables

Tables should be numbered and carry headings enabling them to be understood without reference to the text. Each Table should be typed on a separate sheet. Symbols for footnotes should be in the order: +, +, +, +, etc. The use of +, +, etc, should be limited to indicating levels of significance.

Illustrations

Printed originals of figures and photographs should be provided as best possible quality. Figures such as graphs must be supplied in an editable file format, such as Excel. The use of bar graphs and histograms should be restricted, as the information can often be better presented in a table. In the presentation of results, experimental points should be indicated by symbols, used in order: \bigcirc , \bigcirc , \triangle , \triangle , \square , \square , \times , +. Scale marks should be on the inside of the axes. Each Figure should be provided with a legend such that with the Figure it is comprehensible without reference to the text. Figure legends should be typed on a separate sheet or sheets, beginning Fig. 1.

Photographs should be glossy black and white prints accompanied by a legend as above. Scale bars on the photograph should be used, not magnifications in the legend. Colour plates can be included but these will normally result in a charge to the authors. Uncompressed electronic copies (e.g. TIFF files) may also be supplied.

Statistical Treatment

Individual results should not normally be given. The methods of statistical analysis should be clearly described; a suitable reference is adequate. Authors should make it clear whether they are quoting (e.g.) SD or SE. Any statement that two groups of values are different should be supported by the level of significance involved, as a single or range of P value: (P=0.008) or (P<0.01). Differences should not be claimed or implied if P>0.05.

Gene Sequences

Original DNA sequences reported in JDR must also be submitted to GenBank. Instructions can be found at http://www.ncbi.nlm.nih.gov/Genbank/index.html

Ethics of Experiments

Authors are expected to adhere to the relevant codes covering human subjects and the use of animals.

Proofs

Authors will be advised when to expect proofs, which should be returned without delay to the appropriate editor. Proofs are sent for the correction of any printer's or editorial errors, not for addition of new material or revision of the text. Excessive alteration may have to be disallowed or made at the authors' expense, and may delay publication. Order forms for offprints are sent with proofs and should be returned directly to The Cambridge University Press.

journal of dairy research

Volume 78 Number 4 November 2011

Original Articles

Proteinase and phospholipase activities and development at different temperatures of yeasts	
from bovine milk PA Melville, NR Benites, M Ruz-Peres and E Yokoya	385
Intake and digestibility of fatty acids in late-lactating dairy cows fed flaxseed hulls supplemented	000
with monensin	
C Côrtes, D Silva-Kazama, R Kazama, C Benchaar, LM Zeoula, GTD Santos and HV Petit	391
Probiotic lactobacilli and bifidobacteria in a fermented milk product with added fruit preparation	091
reduce antibiotic associated diarrhea and <i>Helicobacter pylori</i> activity	
M de Vrese, H Kristen, P Rautenberg, C Laue and J Schrezenmeir	396
Age-related decline in macrophage and lymphocyte functions in mice and its alleviation by	
treatment with probiotic Dahi containing Lactobacillus acidophilus and Bifidobacterium bifidum D Kaushal and VK Kansal	404
Hormone variations in serum and milk of buffaloes (<i>Bubalus bubalis</i>) as potential indicators of	404
treatment with recombinant bovine somatotropin	
L Castigliego, X-N Li, A Armani, G Grifoni, C Boselli, R Rosati, D Gianfaldoni and A Guidi	412
Pattern of serum protein fractions in dairy cows during different stages of gestation and lactation	101
G Piccione, V Messina, A Schembari, S Casella, G Giannetto and D Alberghina	421
Influence of feeding Mediterranean food industry by-products and forages to Awassi sheep on physicochemical properties of milk, yogurt and cheese	
S Abbeddou, B Rischkowsky, ME Hilali, HD Hess and M Kreuzer	426
Effects of season, milking routine and cow cleanliness on bacterial and somatic cell counts	
of bulk tank milk	400
M Zucali, L Bava, A Tamburini, M Brasca, L Vanoni and A Sandrucci	436
Composition, indigenous proteolytic enzymes and coagulating behaviour of ewe milk as affected by somatic cell count	
M Albenzio, A Santillo, M Caroprese, L Schena, DE Russo and A Sevi	442
Microscopic differential cell counts in milk for the evaluation of inflammatory reactions in clinically	
healthy and subclinically infected bovine mammary glands	
D Schwarz, US Diesterbeck, S König, K Brügemann, K Schlez, M Zschöck, W Wolter and C-P Czerny	448
Physicochemical, microbiological and sensory profiles of fermented milk containing probiotic	110
strains isolated from kefir	
E Kakisu, A Irigoyen, P Torre, GL De Antoni and A Abraham	456
Ovarian activity in Fleckvieh, Brown Swiss and two strains of Holstein-Friesian cows in pasture-based, seasonal calving dairy systems	
V Piccand, S Meier, E Cutullic, S Weilenmann, P Thomet, F Schori, CR Burke, D Weiss,	
JR Roche and PL Kunz	464
Functional properties of camel milk casein induced by digestive enzymes	
M Salami, AA Moosavi-Movahedi, F Moosavi-Movahedi, MR Ehsani, R Yousefi, M Farhadi, A Niasari-Naslaji, AA Saboury, J-M Chobert and T Haertlé	471
Milk fatty acid profile related to energy balance in dairy cows	411
J Gross, HA van Dorland, RM Bruckmaier and FJ Schwarz	479

Cambridge Journals Online For further information about this journal please go to the journal website at: journals.cambridge.org/dar



Milk yield and somatic cell count during the following lactation after selective treatment of

Morning versus afternoon cutting time of Berseem clover (Trifolium alexandrinum L.) affects feed

PJ Rajala-Schultz, AH Torres and FJ DeGraves

intake, milk yield and composition in Girgentana goats RI Pagano, B Valenti, A De Angelis, M Avondo and P Pennisi



489

500