



1. **Family name:** QUARRIE
2. **First names:** STEPHEN ALEXANDER
3. **Date of birth:** 30 Oct 1945
4. **Nationality:** British
5. **Civil status:** Married
6. **Contact details (address, e-mail, telephone):** Kraljice Natalije 39, 11000 Belgrade, Serbia, mobile: +381 643073666, email: steve.quarrie@gmail.com, steve@bio.bg.ac.rs

7. **Education:**

Institution [Date from - Date to]	Degree(s) or Diploma(s) obtained:
1964 - 1967	BA (Cantab) (Hons, Chemistry) Class 2/1
1967 - 1970	PhD (Cantab) Organic chemistry

8. **Language skills:** Indicate competence on a scale of 1 to 5 (1 - excellent; 5 - basic)

Language	Reading	Speaking	Writing
English	Mother tongue	Mother tongue	Mother tongue
Serbian	2	2	3
French	2	3	4
Italian	3	4	5

9. **Membership of professional bodies:** Society of Experimental Biology
10. **Other skills:** (e.g. computer literacy, etc.) Regular user of MS Office™ suite of software, user of web browsers Safari and Firefox, as well as specialist software for science. Day-to-day user of Macintosh operating system, and competent on MS Windows OS. - Frequently requested to translate technical documents from Serbian to English. - Particular skills in the use of scientific English for correcting scientific manuscripts written by non-English speakers.
11. **Present position:** Guest Professor
12. **Name of institution/firm/organisation:** Faculty of Biology, Belgrade University, Serbia

13. Years within the institution/firm/organisation: 6 years

14. Key qualifications: (relevant to the assignment) 45 years research experience in biochemistry, biological sciences, agriculture, hydrology, rural development, higher education. - Excellent analytical skills to identify problems and find solutions for them, developed through many years experience designing and carrying out research projects. - Excellent ability to identify opportunities to give projects added value, acquired through many years of putting together consortia of partners for project proposals. - Expertise in developing strategy for increased participation of scientists from the Western Balkans in the European Research Area, acquired while Director of the Consultative Bureau for International Projects. - 10 years giving training courses to scientists on a range of research and general transferable skills.

15. Specific experience in the region:

Country	Date from - Date to
Serbia	Resident 2001 - present
Montenegro	Project visits 2011 - 2013
Macedonia	Project visits 2004 - 2007

16. Professional experience:

Date from - Date to	Location (Country)	Organisation / Company	Position	Description of responsibilities and activities
Aug 2013 - present	Serbia	Commission for Accreditation and Quality Assurance, 11070 Belgrade (www.kapk.org)	Reviewer for Serbia's Higher Education Accreditation Commission (contract position)	To review and report on higher education institutions and study programmes against quality control standards.
May 2011 - present	Serbia	Faculty of Biology, University of Belgrade, Studentski trg 16, 11000 Belgrade	Copy editor of the journal Botanica Serbica (contract renewed annually)	To provide quality control of manuscripts accepted for publication in the journal (checking the quality of both the science and the English).

Nov 2010 - present	Serbia	Balkan Security Network (BSN), Oliverina 4, Belgrade (www.balkansecurity.net)	Head of Education and Training (permanent position)	Responsible for - developing, monitoring and controlling quality of training courses to ensure they always provide best possible quality and relevance to client needs; - identifying new opportunities for training courses; - presenting information on training courses; - providing expertise to clients on writing project proposals; - getting funding for projects managed by BSN, mainly to improve Serbian food security and market competitiveness [FP7-KBBE 3-year RTD research project COMPETE started 1 October 2012].
May 2009 - present	Serbia	Self-employed	Providing quality control of scientific manuscripts	To provide quality control of the English text and comment on style and scientific content of manuscripts of Serbian scientists prior to submission for publication.
July 2008 - present	Serbia	Faculty of Biology, University of Belgrade, Studentski trg 16, 11000 Belgrade	Guest professor (contract renewed annually)	To teach year 1 PhD students an 8 ECTS course on skills essential to develop an international career in science and research (research design and analysis, scientific and project proposal writing, presentation, management and supervision skills).
Mar 2008 - Mar 2011	Serbia	Ministry of Science and Technological Development (now Ministry of Education, Science and Technological Development), Nemanjina 22-26, 11000 Belgrade	Director, Consultative Bureau for International Projects	To strengthen the presence of and success rate for Serbian scientists in international projects, particularly FP7 and COST. Activities were to - present FP7 to scientific institutions around Serbia, - discuss with scientists how to convert their project ideas into successful project proposals, - provide training courses in writing FP7 project proposals, - provide training courses in research skills, - monitor and analyse FP7 proposal failures and successes, and institution strengths, - manage the work of two post-graduate assistants. - <u>Quarrie SA</u> (2011) Secrets to success with FP7 REGPOT proposals. Monograph

Jul 2003 - Jun 2012 and Feb 2013 - present	United Kingdom	Devonshire Building, Schools of Biology and Agriculture, Food and Rural Development, (currently Business School, Barrack Road), University of Newcastle, Newcastle-upon-Tyne NE1 7RU, UK	Visiting professor (unpaid appointment, renewed after 3 years)	Current visiting professorship at Business School (NUBS) to facilitate networking amongst Schools and outside Newcastle University to improve NUBS research activities and project funding success rate, provide advice on Horizon 2020 and research career development. - Previous visiting professorships to provide Schools of Biology and Agriculture, Food and Rural Development with expertise in modern research methods in the biological and agricultural sciences, - to bring in research funds from proposals (successful FP7 M-C IEF fellowship application, 2009 and partner in an FP7 KBBE collaborative research project, COMPETE, started Oct 2012), - to help supervise PhD students and visiting researchers and advise on manuscript preparation, - to facilitate networking connections in southeast Europe for potential project collaborations, - to contribute occasional lectures and seminars, and - to carry out research on wheat genetics during short-term visits every 2 months.
Oct 2001 - Jul 2009	Italy	Department of Environmental Sciences, Università di Parma, Parco Area delle Scienze, 43100 Parma, Italy	Contract professor (contract renewed annually)	To teach a 4 ECTS module on description and uses of molecular markers in the biological sciences to third-year undergraduates on a Biotechnology course.
Jun 1997 - Apr 1999	Serbia	Agricultural Research Institute "Serbia", Zeleni Venac, Belgrade, Serbia	Chief Scientific Advisor to the director ARIS "Serbia" (honorary unpaid position)	To provide the director with advice on developing the Institute through international collaborations by - organising occasional international conferences in the agricultural sciences in Serbia, - developing memoranda of understanding for collaborations with other relevant institutions in the region. The post was terminated by the NATO bombing campaign.

Oct 1973 - Aug 2001	United Kingdom	BBSRC John Innes Centre (formerly Plant Breeding Institute, Cambridge), Colney Lane, Norwich NR4 7UH, UK	Project leader and (1995-2001) Deputy Head Cereals Research Department (full time permanent position)	To carry out research into cereal crops (particularly wheat, but also maize and rice) to improve their resistance to a range of abiotic stresses (particularly drought and salt stress) and present the results at conferences, seminars and as scientific papers in high-impact journals, - to get funding for research by writing project proposals (e.g. EU FP STREP, BBSRC, Royal Society, DFID, UK), - to manage projects to ensure effective use of staff and other resources, - to supervise post-graduate students and visiting workers (mainly from abroad), - to examine PhD students in UK, France, Holland, Finland and Serbia, - to peer-review research proposals and scientific manuscripts for publication (a member of Editorial Boards of Plant Growth Regulation [1989-2001] and Journal of Experimental Botany [1993-2008]), - to communicate the science to non-scientists, particularly through the Norwich-based Teacher-Scientist Network, and through popular magazine articles and the broadcasting media, - to act as laboratory safety officer from 1995 to 1999.
Oct 1970 - Apr 1973	United Kingdom	Microbial Chemistry Laboratory, Department of Chemistry, The University, Manchester M13 9PL	Post-doctoral researcher	To carry out research into the biosynthesis of the fungal sex hormone trisporic acid.

17. Other relevant information: (e.g. publications, professional training)
International peer-reviewed journals:

Kuzmanović Lj, Gennaro A, Benedettelli S, Dodd IC, Quarrie SA, Ceoloni C (2013) Structural–functional dissection and characterization of yield-contributing traits originating from a group 7 chromosome of the wheatgrass species *Thinopyrum ponticum* after transfer into durum wheat. *Journal of Experimental Botany* doi:10.1093/jxb/ert393 (Advance Access).

- Czyczyło-Mysza I, Tyrka M, Marcinska I, Skrzypek E, Karbarz M, Dziurka M, Hura T, Dziurka K, Quarrie SA** (2013) Quantitative trait loci for leaf chlorophyll fluorescence parameters, chlorophyll and carotenoid contents in relation to biomass and yield in bread wheat and their chromosome deletion bin assignments. *Mol Breeding* 32: 189-210 (DOI 10.1007/s11032-013-9862-8)
- Marcinska I, Czyczyło-Mysza I, Skrzypek E, Filek M, Grzesiak S, Grzesiak MT, Janowiak F, Hura T, Dziurka M, Dziurka K, Nowakowska A, Quarrie SA** (2013) Impact of osmotic stress on physiological and biochemical characteristics in drought-susceptible and drought-resistant wheat genotypes. *Acta Physiol Plant* 35 (2):451-461 (DOI 10.1007/s11738-012-1088-6)
- Dodig D, Zorić M, Kobiljski B, Savić J, Kandić V, Quarrie S, Barnes J** (2012) Genetic and association mapping study of wheat agronomic traits under contrasting water regimes. *Int. J. Mol. Sci.* 13: 6167-6188 (doi:10.3390/ijms13056167)
- Zoric MZ, Dodig D, Kobiljski BD, Quarrie SA, Barnes J** (2012) Population structure in a wheat core collection and genomic loci associated with yield under contrasting environments. *Genetica* 140 (4-6): 259-275.
- Gorton M, Zarić V, Lowe P, Quarrie S** (2011) Public and private agri-environmental regulation in post-socialist economies: Evidence from the Serbian fresh fruit and vegetable sector. *Journal of Rural Studies* 27 (2): 144-152. (DOI: 10.1016/j.rurstud.2010.12.002).
- Czyczyło-Mysza I, Marcińska I, Skrzypek E, Chrupek M, Grzesiak S, Hura T, Stojałowski S, Myśków B, Milczarski P and Quarrie S** (2011) Mapping QTLs for yield components and chlorophyll a fluorescence parameters in wheat under three levels of water availability. *Plant Genetic Resources* 9: 291-295 (DOI: 10.1017/S1479262111000207).
- Rahman H, Pekić S, Lazić-Jančić V, Quarrie SA, Shah SMA, Pervez A and Shah MM** (2011) Molecular mapping of quantitative trait loci for drought tolerance in maize plants. *Genet Mol Res* 10 (2): 889-901 (DOI 10.4238/vol10-2gmr1139).
- Dodig D, Zorić M, Kobiljski B, Šurlan-Momirović G, Quarrie SA** (2010) Assessing drought tolerance and regional patterns of genetic diversity among spring and winter bread wheat using simple sequence repeats and phenotypic data. *Crop and Pasture Science* 61: 812-814 (doi: 10.1071/CP10001.1836-0947/10/100812).
- Gorton M, Lowe P, Zarić V, Quarrie SA** (2010) European rule adoption in Central and Eastern Europe: a comparative analysis of agricultural water regulation in Serbia. *Environmental Politics* 19: 578-598.
- Gonzalez-Fernandez I, Kaminska K, Mahmadi Dodmani M, Goumenaki E, Quarrie S, Barnes JD** (2010) Establishing ozone flux-response relationships for winter wheat: Analysis of uncertainties based on data for UK and Polish genotypes. *Atmospheric Environment* 44: 621-630 (doi: 10.1016/j.atmosenv.2009.11.021).
- Abugalieva S, Ledovskoy Y, Abugalieva A, Quarrie S, Turuspekoy Y** (2010) Mapping of QTL for grain protein content in common wheat. *Asian and Australasian Journal of Plant[Crop?] Science and Biotechnology* 4 (Special Issue 1): 35-41.
- Gorton M, Sauer J, Peshevski M, Bošev D, Shekerinov D, Quarrie S** (2009) Water communities in the Republic of Macedonia: an empirical analysis of membership satisfaction and payment behaviour. *World Development* 37: 1951-1963 (doi: 10.1016/j.worlddev.2009.04.003).
- Dashti H, Yazdi-samadi B, Ghannadha M, Naghavi MR, Quarrie S** (2007) QTL analysis for drought resistance in wheat using doubled haploid lines. *Int J Agri Biol.* 9 (1): 98-101.
- Habash DZ, Bernard S, Schondelmaier J, Weyen J, Quarrie S** (2007) The genetics of

nitrogen use in hexaploid wheat: N utilisation, development and yield. Theoretical and Applied Genetics, DOI 10.1007/s00122-006-0429-5. **114**: 403-419.

Quarrie SA, Pekić Quarrie S, Radošević R, Rančić D, Kaminska A, Barnes JD, Leverington M, Ceoloni C, Dodig D (2006) Dissecting a wheat QTL for yield present in a range of environments: from the QTL to candidate genes. Journal of Experimental Botany, doi:10.1093/jxb/erl026. **57**: 2627-2637.

Quarrie SA, Steed A, Calestani C, Semikhodskii A, Lebreton C, Chinoy C, Steele N, Pljevljakušić D, Waterman E, Weyen J, Schondelmaier J, Habash DZ, Farmer P, Saker L, Clarkson DT, Abugalieva A, Yessimbekova M, Turuspekov Y, Abugalieva S, Tuberosa R, Sanguineti M-C, Hollington P, Aragues R, Royo A, Dodig D (2005) A high density genetic map of hexaploid wheat (*Triticum aestivum* L.) from the cross Chinese Spring x SQ1 and its use to compare QTLs for grain yield across a range of environments. Theoretical and Applied Genetics, DOI 10.1007/s00122-004-1902-7. **110**: 865-880.

Lazic-Jančić V, Ignjatović-Micić D, Marković K, Corić T, Kovačević D, Saratlić G, Quarrie SA (2003) Changes in RFLP allele frequencies during recurrent selection for high oil content in maize. Maize Genetics Cooperation Newsletter 77: 4-5.

Kobiljski B, Quarrie SA, Denčić S, Kirby J, Iveges M (2002) Genetic diversity of the Novi Sad wheat core collection revealed by microsatellites. Cellular and Molecular Biology Letters **7**: 685-694.

Cramer G, Quarrie SA (2002) Abscisic acid is correlated with the leaf growth inhibition of four genotypes of maize differing in their response to salinity. Functional Plant Biology **29**: 111-115.

Tuberosa R, Gill BS, Quarrie SA (2002) Cereal genomics: ushering in a brave new world. Plant Molecular Biology **48**: 445-449.

Snape JW, Sarma R, Quarrie SA, Galiba G, Sutka (2001) Mapping genes for flowering time and frost tolerance in cereals using precise genetic stocks. Euphytica **120**: 309-315.

Quarrie SA, C Chinoy, A Steed, L Saker, P Farmer, J Purves, DT Clarkson (2001) QTL analysis of shoot and root responses to N availability in wheat. Annual Wheat Newsletter 47: 232-233.

Over 2000 citations (1903 verified by Belgrade University, June 2009; 2372 on Google Scholar, <http://scholar.google.com/citations?user=INNHTAcAAAAJ&hl=en> Dec 2013). h-index 22 (Dec 2013).

Contribution to international projects (2003-present)

TEMPUS (RAHES) 2004-2007: Expert consultant.

FP6 INCO-WB SSA (CROPWAT) 2004-2006: Training course in research skills.

FP6 INCO-WB Collaborative Research (WATERWEB) 2004-2008: Proposal writer and project coordinator for the Western Balkans.

TEMPUS (HERBS) 2006-2009: Expert adviser and training course on research skills.

TEMPUS (SuNISP) 2007-2009: Expert adviser for SWOT analysis.

FP7 KBBE Collaborative research (FOCUS-BALKANS) 2007-2010: Training course in research skills.

FP7 REGPOT project (AGRISCIMONT) 2010-2013: Expert consultant and training course in research skills.

FP7 M-C IEF (CAREBREED) 2010-2012: Proposal writer and co-supervisor of the Fellow.

FP7 KBBE Collaborative research (COMPETE) 2012-2015: Partner (BSN) to improve project impact and sustainability.

KBF project (TRAIN) 2013-2015: Expert adviser on Western Balkan training needs.

FP7 KBBE Collaborative research (HEALTHYMINORCEREALS) 2013-2016: Member of project Advisory Board.

TEMPUS (CaSa) 2013-2016: Partner (BSN) for training courses.